Large accelerated filer Non-accelerated filer

Indicate by check mark which basis of accounting the registrant has used to prepare the financial statements included in this filing:

U.S. GAAP

International Financial Reporting Standards as issued by the International Accounting Standards Board

If "Other" has been checked in response to the previous question, indicate by check mark which financial statement item the registrant has elected to follow. Item 17  $\square$  Item 18  $\square$  If this is an annual report, indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Exchange Act). Yes  $\square$  No  $\boxtimes$ 

# UNITED STATES SECURITIES AND EXCHANGE COMMISSION

		Washington, D.C. 20549	
		Form 20-F	
	REGISTRATION STATEMENT PURSUANT TO SECTION 12(b) OR (	e) OF THE SECURITIES EXCHANGE ACT OF 1934 OR	
×	ANNUAL REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE S		
	TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF T	OR IE SECURITIES EXCHANGE ACT OF 1934	
	SHELL COMPANY REPORT PURSUANT TO SECTION 13 OR 15(d)	OR	
ш	SHELL COMPANY REPORT FURSUANT TO SECTION 13 OR 15(d)	Date of event requiring this shell company report	
		For the transition period from to	
		Commission file number: 1-13546	
		STMicroelectronics N.V.	
		(Exact name of registrant as specified in its charter)	
	Not Applicable (Translation of registrant's name into English)		The Netherlands (Jurisdiction of incorporation or organization)
		WTC Schiphol Airport Schiphol Boulevard 265 1118 BH Schiphol The Netherlands (Address of principal executive offices) Jean-Marc Chery 39, Chemin du Champ des Filles 1228 Plan-Les-Guates Geneva Switzerland Tel: +41 22 929 29 29 Fax: +41 22 929 29 28 (Name, Telephone, E-mail and/or Fassimile number and Address of Company Contact Person) Securities registered or to be registered pursuant to Section 12(b) of the Act:	
	Title of Each Class: Common shares, nominal value €1.04 per share	Trading Symbol(s) STM	Name of Each Exchange on Which Registered: New York Stock Exchange
	•	Securities registered or to be registered pursuant to Section 12(g) of the Act: None Securities for which there is a reporting obligation pursuant to Section 15(d) of the Act: None	
	Indicate the number of outstanding shares of each of the issuer's classes of capit	l or common stock as of the close of the period covered by the annual report:	
		911,239,420 common shares at December 31, 2020	
	Indicate by check mark if the registrant is a well-known seasoned issuer, as defin		
subject		rant is not required to file reports pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934. Yes be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for s	
to subr	Indicate by check mark whether the registrant has submitted electronically every mit such files). Yes ⊠ No □	Interactive Data File required to be submitted pursuant to Rule 405 of Regulation S-T (§ 232.405 of this chapter	r) during the preceding 12 months (or for such shorter period that the registrant was required
to suoi		erated filer, a non-accelerated filer, or an emerging growth company. See the definition of "large accelerated file	er", "accelerated filer" and "emerging growth company" in Rule 12b-2 of the Exchange

If an emerging growth company that prepares its financial statements in accordance with U.S. GAAP, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards† provided pursuant to Section 13(a) of the Exchange Act. 

Indicate by check mark whether the registrant has filed a report on and attestation to its management's assessment of the effectiveness of its internal control over financial reporting under Section 404(b) of the Sarbanes-Oxley Act (15 U.S.C. 7262(b)) by the registered public accounting firm that prepared or issued its audit report. 

† The term "new or revised financial accounting standard" refers to any update issued by the Financial Accounting Standards Board to its Accounting Standards Codification after April 5, 2012.

Accelerated filer

Emerging growth company

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#### PRESENTATION OF FINANCIAL AND OTHER INFORMATION

In this annual report on Form 20-F (the "Form 20-F"), references to "we", "us" and "Company" are to STMicroelectronics N.V. together with its consolidated subsidiaries, references to "EU" are to the European Union, references to " $\in$ " and the "Euro" are to the Euro currency of the EU, references to the "United States" and the "U.S." are to the United States of America and references to "S" and to "U.S. dollars" are to United States dollars. References to "mm" are to millimeters and references to "mm" are to nanometers.

We have compiled market size and our market share data in this Form 20-F using statistics and other information obtained from several third-party sources. Except as otherwise disclosed herein, all references to trade association data are references to World Semiconductor Trade Statistics ("WSTS"). Certain terms used in this Form 20-F are defined in "Certain Terms".

We report our financial statements in U.S. dollars and prepare our Consolidated Financial Statements in accordance with generally accepted accounting principles in the United States ("U.S. GAAP"). We also report certain non-U.S. GAAP financial measures (free cash flow and net financial position), which are derived from the amounts presented in the financial statements prepared under U.S. GAAP. Furthermore, we are required by Dutch law to report our Statutory and Consolidated Financial Statements, in accordance with International Financial Reporting Standards ("IFRS"), as issued by the International Accounting Standards Board ("IASB") and adopted by the European Union. The IFRS financial statements are reported separately and can differ materially from the statements reported in U.S. GAAP

Various amounts and percentages used in this Form 20-F have been rounded and, accordingly, they may not total 100%.

We and our affiliates own or otherwise have rights to the trademarks and trade names, including those mentioned in this Form 20-F, used in conjunction with the marketing and sale of our products.

## CAUTIONARY NOTE REGARDING FORWARD-LOOKING STATEMENTS

Some of the statements contained in this Form 20-F that are not historical facts, particularly in "Item 3. Key Information — Risk Factors", "Item 4. Information on the Company" and "Item 5. Operating and Financial Review and Prospects" and "— Business Outlook" are statements of future expectations and other forward-looking statements (within the meaning of Section 27A of the Securities Act of 1933 or Section 21E of the Securities Exchange Act of 1934, each as amended) that are based on management's current views and assumptions, and are conditioned upon and also involve known and unknown risks and uncertainties that could cause actual results, performance or events to differ materially from those anticipated by such statements due to, among other factors:

- changes in global trade policies, including the adoption and expansion of tariffs and trade barriers, that could affect the macro-economic environment and adversely impact the demand for our products;
- uncertain macro-economic and industry trends, which may impact end-market demand for our products;
- customer demand that differs from projections;
- the ability to design, manufacture and sell innovative products in a rapidly changing technological environment;
- changes in economic, social, public health, labor, political, or infrastructure conditions in the locations where we, our customers, or our suppliers operate, including as a result of macroeconomic or regional events, military conflicts, social unrest, labor actions, or terrorist activities;
- unanticipated events or circumstances, which may impact our ability to execute our plans and/or meet the objectives of our R&D and manufacturing programs, which benefit from public funding;
- legal, political and economic uncertainty surrounding Brexit may be a continued source of instability in international markets and currency exchange rate volatility and may adversely affect business activity, political stability and economic conditions, and while we do not have material operations in the U.K. and have not experienced any material impact from Brexit on our underlying business to date, we cannot predict its future implications;

- · financial difficulties with any of our major distributors or significant curtailment of purchases by key customers;
- the loading, product mix, and manufacturing performance of our production facilities and/or our required volume to fulfill capacity reserved with suppliers or third party manufacturing providers;
- availability and costs of equipment, raw materials, utilities, third-party manufacturing services and technology, or other supplies required by our operations;
- the functionalities and performance of our IT systems, which are subject to cybersecurity threats and which support our critical operational activities including manufacturing, finance and sales, and any breaches of our IT systems or those of our customers or suppliers;
- theft, loss, or misuse of personal data about our employees, customers, or other third parties, and breaches of global and local privacy legislation, including the EU's General Data Protection Regulation ("GDPR");
- the impact of intellectual property ("IP") claims by our competitors or other third parties, and our ability to obtain required licenses on reasonable terms and conditions;
- changes in our overall tax position as a result of changes in tax rules, new or revised legislation, the outcome of tax audits or changes in international tax treaties which may impact our results of operations as well as our ability to accurately estimate tax credits, benefits, deductions and provisions and to realize deferred tax assets;
- variations in the foreign exchange markets and, more particularly, the U.S. dollar exchange rate as compared to the Euro and the other major currencies we use for our operations;
- the outcome of ongoing litigation as well as the impact of any new litigation to which we may become a defendant;
- · product liability or warranty claims, claims based on epidemic or delivery failure, or other claims relating to our products, or recalls by our customers for products containing our parts;
- natural events such as severe weather, earthquakes, tsunamis, volcano eruptions or other acts of nature, the effects of climate change, health risks and epidemics and pandemics such as COVID-19 in locations where we, our customers or our suppliers operate:
- the duration and the severity of the global outbreak of COVID-19 may continue to negatively impact the global economy in a significant manner for an extended period of time, and also could materially adversely affect our business and operating results;
- industry changes resulting from vertical and horizontal consolidation among our suppliers, competitors, and customers; and
- the ability to successfully ramp up new programs that could be impacted by factors beyond our control, including the availability of critical third party components and performance of subcontractors in line with our expectations.

Such forward-looking statements are subject to various risks and uncertainties, which may cause actual results and performance of our business to differ materially and adversely from the forward-looking statements. Certain forward-looking statements can be identified by the use of forward-looking terminology, such as "believes", "expects", "may", "are expected to", "should", "would be", "seeks" or "anticipates" or similar expressions or the negative thereof or other variations thereof or comparable terminology, or by discussions of strategy, plans or intentions. Some of these risk factors are set forth and are discussed in more detail in "Item 3. Key Information — Risk Factors". Should one or more of these risks or uncertainties materialize, or should underlying assumptions prove incorrect, actual results may vary materially from those described in this Form 20-F as anticipated, believed or expected. We do not intend, and do not assume any obligation, to update any industry information or forward-looking statements set forth in this Form 20-F to reflect subsequent events or circumstances.

Unfavorable changes in the above or other factors listed under "Item 3. Key Information — Risk Factors" from time to time in our Securities and Exchange Commission ("SEC") filings, could have a material adverse effect on our business and/or financial condition.

## PART I

## Item 1. Identity of Directors, Senior Management and Advisers

Not applicable.

## Item 2. Offer Statistics and Expected Timetable

Not applicable.

## Item 3. Key Information

## Selected Financial Data

The table below sets forth our selected consolidated financial data for each of the years in the five-year period ended December 31, 2020. Such data have been derived from our audited Consolidated Financial Statements. Audited Consolidated Financial Statements for each of the years in the three-year period ended December 31, 2020, including the Notes thereto (collectively, the "Consolidated Financial Statements"), are included elsewhere in this Form 20-F, while data for prior periods have been derived from our audited Consolidated Financial Statements used in such periods.

The following information should be read in conjunction with "Item 5. Operating and Financial Review and Prospects" and the audited Consolidated Financial Statements and the related Notes thereto included in "Item 18. Financial Statements" in this Form 20-F.

					Year Ended December 31,		
	<u> </u>	2020		2019	2018	2017	2016
C. Plates and D.				(In millio	ons except per share and r	atio data)	
Consolidated Statements of Income Data: Net sales	s	10.181	S	9.529	\$ 9.612	\$ 8,308	\$ 6.944
Other revenues	3	38	3	9,329	5 9,012	39	29
Net revenues		10.219		9.556	9.664	8.347	6.973
Cost of sales(1)		(6,430)		(5,860)	(5,803)	(5,075)	(4,514)
Gross profit(1)		3.789		3,696	3.861	3.272	2.459
Operating expenses:		3,707		3,070	5,001	3,272	2,437
Selling, general and administrative(1)		(1,109)		(1,093)	(1,095)	(981)	(907)
Research and development(1)		(1,548)		(1,498)	(1,398)	(1,296)	(1,331)
Other income and expenses, net		202		103	53	55	99
Impairment, restructuring charges and other related closure costs		(11)			(21)	(45)	(93)
		1,323		1,203	(21)	1,005	227
Operating income (1) Interest income (expense), net		(20)		1,203	1,400	1,005	(20)
Other components of pension benefit costs(1)		(12)		(16)	(11)	(12)	
Income (loss) on equity-method investments		(12)		(16)	(11)	(12)	(13)
Loss on financial instruments, net		(26)		1	(1)	(16)	/
Income before income taxes and noncontrolling interest		1,267		1,189	1,389	953	201
		(159)		(156)	(96)	(143)	(31)
Income tax expense		1,108		1,033	1,293	810	170
Net income Net income attributable to noncontrolling interest							
		1,106		1,032	(6) 1,287	(8) 802	(5)
Net income attributable to parent company Earnings per share (basic) attributable to parent company		1,106		1,032	1,287	802	165
stockholders		1.24		1.15	1.43	0.91	0.19
Earnings per share (diluted) attributable to parent company stockholders		1.20		1.14	1.41	0.89	0.19
Number of shares used in calculating earnings per share (basic)		894.6		894.3	899.4	884.7	881.2
Number of shares used in calculating earnings per share (diluted)		919.7		903.6	911.0	906.1	886.3
Consolidated Balance Sheets Data (end of period):		,,,,,		703.0	711.0	700.1	000.5
Cash and cash equivalents		3,006		2,597	2,266	1,759	1,629
Restricted cash				10		_	_
Short-term deposits		581		4	_	_	_
Marketable securities		133		133	330	431	335
Total assets		14,454		11,868	10,867	9,681	8,004
Net assets		8,506		7,111	6,424	5,467	4,596
Short-term debt		795		173	146	118	117
Long-term debt		1,826		1,899	1,764	1,583	1,334
Total parent company stockholders' equity	·	8,448	_	7,043	6,359	5,404	4,535
Common stock and Additional Paid-in Capital		4.219		4.149	4,000	3.875	3,975
Other Data:		7,217		7,177	4,000	3,073	3,713
Dividend per share		0.168		0.240	0.240	0.240	0.240
Capital expenditures, net of proceeds from sales		(1,279)		(1,174)	(1,262)	(1,298)	(607)
Net cash from operating activities		2,093		1,869	1,845	1,677	1,043
Depreciation and amortization		923		854	791	650	696
Debt-to-equity ratio(2)		0.31		0.29	0.30	0.31	0.32

The comparative amounts as at December 31, 2017 and December 31, 2016 were restated to reflect the new guidance adopted on January 1, 2018 on the presentation of net periodic benefit cost in the consolidated statements of income. Debt-to-equity ratio is the ratio between our total financial debt (short-term debt and long-term debt) and our total parent company stockholder's equity.

## Risks Related to the Semiconductor Industry which Impact Us

We, and the semiconductor industry as a whole, may be impacted by changes in, or uncertainty about, global, regional and local economic, political, legal, regulatory and social environments as well as climate change

Changes in, and uncertainty about, economic, political, legal, regulatory and social conditions pose a risk as consumers and businesses may postpone spending in response to factors such as curtailment of trade and other business restrictions, financial market volatility, interest rate fluctuations, shifts in inflationary and deflationary expectations, lower capital and productivity growth, unemployment, negative news, declines in income or asset values and/or other factors. Such global, regional and local conditions could have a material adverse effect on customer and end-market demand for our products, thus materially adversely affecting our business and financial condition.

The institution of trade tariffs globally, as well as the threat thereof, could negatively impact economic conditions, which could have negative repercussions for our business. In particular, trade protection and national security policies of the U.S. and Chinese governments, including tariffs, trade restrictions, export restrictions and the placing of companies on restricted entity lists, have and may continue to limit or prevent us from transacting business with certain of our Chinese customers or suppliers; limit, prevent or discourage certain of our Chinese customers or suppliers from transacting business with us; or make it more expensive to do so. In addition, we could face increased competition as a result of China's programs to promote a domestic semiconductor industry and supply chains (including the *Made in China 2025* campaign).

Trade policy changes could trigger retaliatory actions by affected countries, which could have a negative impact on our ability to do business in affected countries or lead to reduced purchases of our products by foreign customers, leading to increased costs of components contained in our products, increased manufacturing costs of our products, currency exchange rate volatility, and higher prices for our products in foreign markets. Further, protectionist measures, laws or governmental policies may encourage our customers to relocate their manufacturing capacity or supply chain to their own respective countries or require their respective contractors, subcontractors and relevant agents to do so, which could impair our ability to sustain our current level of productivity and manufacturing efficiency.

We, and the semiconductor industry as a whole, face greater risks due to the international nature of the semiconductor business, including in the countries where we, our customers or our suppliers operate, such as:

- · instability of foreign governments, including the threat of war, military conflict, civil unrest, regime changes, mass migration and terrorist attacks;
- natural events such as severe weather, earthquakes and tsunamis, or the effects of climate change;
- epidemics and pandemics such as disease outbreaks or more recently COVID-19 and other health related issues;
- changes in, or uncertainty about, laws, regulations (including executive orders) and policies affecting trade and investment, including following Brexit and including through the
  imposition of trade and travel restrictions, government sanctions, local practices which favor local companies and constraints on investment;
- complex and varying government regulations and legal standards, particularly with respect to export control regulations and restrictions, customs and tax requirements, data privacy, intellectual property and anti-corruption; and
- · differing practices of regulatory, tax, judicial and administrative bodies, including with regards to the interpretation of laws, governmental approvals, permits and licenses.

## The semiconductor industry is cyclical and downturns in the semiconductor industry can negatively affect our results of operations and financial condition.

The semiconductor industry is cyclical and has been subject to significant downturns from time to time, as a result of global economic conditions, as well as industry-specific factors, such as built-in excess capacity, fluctuations in product supply, product obsolescence and changes in end-customer preferences. The COVID-19 pandemic has caused a significant contraction in the global economy, and there is considerable uncertainty as to its severity and duration. See Item 3. "Key Information — Risk Factors —Risks Related to the Semiconductor Industry which Impact Us — We, and the semiconductor industry as a whole, may be impacted by changes in,

or uncertainty about, global, regional and local economic, political, legal, regulatory and social environments as well as climate change."

Downturns are typically characterized by reduction in overall demand, accelerated erosion of selling prices, reduced revenues and high inventory levels, any of which could result in a significant deterioration of our results of operations. Such macroeconomic trends typically relate to the semiconductor industry as a whole rather than to the individual semiconductor markets to which we sell our products. To the extent that industry downturns are concurrent with the timing of new increases in production capacity or introduction of new advanced technologies in our industry, the negative effects on our business from such industry downturns may also be more severe. We have experienced revenue volatility and market downturns in the past and expect to experience them in the future, which could have a material adverse impact on our results of operations and financial condition.

The duration and the severity of the global outbreak of COVID-19 has impacted and may continue to impact the global economy and also could adversely affect our business, financial condition and results of operations.

The COVID-19 pandemic has resulted in authorities imposing, and businesses and individuals implementing, numerous measures to try to contain the virus, including travel bans and restrictions, shelter-in-place and stay-at-home orders, quarantines and social distancing guidelines. While to date we have not seen a significant impact on our manufacturing facilities or our supply chain – the ability of our suppliers to deliver on their commitments to us, our ability to ship our products to our customers and general consumer demand for our products may be negatively impacted by the pandemic and/or government responses thereto.

Many of our products and services are considered to be essential under national and local guidelines. As such, we have generally continued to operate in each of the jurisdictions where we are present. However, certain of our facilities have not been able to operate at optimal capacity and any future restrictive measures may have negative impact on our operations, supply chain and transportation networks. In addition, our customers and suppliers have experienced, and may in the future experience, disruptions in their operations and supply chains, which can result in delayed, reduced, or cancelled orders, or collection risks, and which may adversely affect our results of operations.

The COVID-19 pandemic has adversely affected and may continue to adversely affect the economies and financial markets of many countries, and may result in a further prolonged period of regional, national, and global economic slowdown. In response to the COVID-19 pandemic, governments across the world have and are expected to spend significant amounts to fund disease control measures, support healthcare infrastructure, support businesses and revive their economies. Governments could look to re-direct resources and implement austerity measures in the future to balance public finances, which could result in reduced economic activity. Any further economic downturn could reduce overall demand for our products, accelerate the erosion of selling prices, lead to reduced revenues and higher inventory levels, any of which could result in a significant deterioration of our results of operations.

The COVID-19 pandemic has caused us to modify our business practices, including with respect to work-from home policies, employee travel, the cancellation of physical participation in meetings, events, and conferences, and social distancing measures. Although these changes have not led to a significant impact on our business or results of operations, we could be negatively affected in the future if government policies further restrict the ability of our employees to perform their functions or if our employees contract or are exposed to COVID-19. In addition, work-from-home and other measures introduce additional operational risks, including cybersecurity risks. There is no certainty that such measures will be sufficient to mitigate the risks posed by the virus, and illness and workforce disruptions could lead to unavailability of key personnel and harm our ability to perform critical functions.

The pandemic has led to increased disruption and volatility in capital markets and credit markets. Unanticipated consequences of the pandemic and resulting economic uncertainty could adversely affect our liquidity and capital resources in the future. Due to uncertainty surrounding the COVID-19 pandemic, we suspended our stock repurchases during a portion of 2020.

The degree to which COVID-19 impacts our results will depend on future developments, which are highly uncertain and cannot be predicted, including, but not limited to, the duration and severity of the pandemic, the

actions taken to contain the virus or treat its impact, other actions taken by governments, businesses, and individuals in response to the virus and resulting economic disruption, and how quickly and to what extent normal economic and operating conditions can resume. We are unable to predict the extent of the impact of the pandemic on our customers, suppliers, vendors, and other partners, and their financial conditions, but a material effect on these parties could also materially adversely affect us.

Given the continued and substantial economic uncertainty and volatility created by the pandemic, it is difficult to predict the nature and extent of impacts on demand for our products. For example, the increased demand for certain of our products that benefited as a result of work- and learn-from-home dynamics may not continue as the pandemic progresses or subsides. Similarly, even as the pandemic progresses or subsides, products for which sales have declined or where costs have increased could continue to experience lower sales or higher costs.

The impact of COVID-19 can also exacerbate other risks discussed herein, which could in turn have a material adverse effect on us. Developments related to COVID-19 have been unpredictable, and additional impacts and risks may arise that we are not aware of or able to respond to appropriately.

#### We may not be able to match our production capacity to demand.

As a result of the cyclicality and volatility of the semiconductor industry, it is difficult to predict future developments in the markets we serve, and, in turn, to estimate requirements for production capacity. If our markets, major customers or certain product designs or technologies do not perform as well as we have anticipated, or if demand is impacted by factors outside of our or our customers' control, such as the COVID-19 pandemic, we risk unused capacity charges, write-offs of inventories and losses on products, and we could be required to undertake restructuring and transformation measures that may involve significant charges to our earnings. Furthermore, during certain periods, we have also experienced increased demand in certain market segments and product technologies, which has led to a shortage of capacity, an increase in the lead times of our delivery to customers and, in certain instances, being required to enter into agreements with our suppliers with onerous terms, such as take-or-pay arrangements. See "Item 5. Operating and Financial Review and Prospects — Results of Operations — Impairment, restructuring charges and other related closure costs".

Competition in the semiconductor industry is intense, and we may not be able to compete successfully if our product design technologies, process technologies and products do not meet market requirements. Furthermore, the competitive environment of the industry has resulted, and is expected to continue to result, in vertical and horizontal consolidation among our suppliers, competitors and customers, which may lead to erosion of our market share, impact our ability to compete and require us to restructure our operations.

We compete in different product lines to various degrees on certain characteristics, for example, price, technical performance, product features, product design, product availability, process technology, manufacturing capabilities and sales and technical support. Given the intense competition in the semiconductor industry, if our products do not meet market requirements based on any of these characteristics, our business, financial condition and results of operations could be materially adversely affected. Our competitors may have a stronger presence in key markets and geographic regions, greater name recognition, larger customer bases, greater government support and greater financial, research and development, sales and marketing, manufacturing, distribution, technical and other resources than we do. These competitors may be able to adapt more quickly to changes in the business environment, to new or emerging technologies and to changes in customer requirements.

The semiconductor industry is intensely competitive and characterized by the high costs associated with developing marketable products and manufacturing technologies as well as high levels of investment in production capabilities. As a result, the semiconductor industry has experienced, and is expected to continue to experience, significant vertical and horizontal consolidation among our suppliers, competitors and customers. Consolidation in the semiconductor industry could erode our market share, negatively impact our ability to compete and require us to increase our R&D effort, engage in mergers and acquisitions and/or restructure our operations.

## Risks Related to Our Operations

#### Our high fixed costs could adversely impact our results.

Our operations are characterized by high fixed or other costs which are difficult to reduce, including costs related to manufacturing, particularly as we operate our own manufacturing facilities, and the employment of our highly skilled workforce. When demand for our products decreases, competition increases or we fail to forecast demand accurately, we are driven to reduce prices and we are not always able to decrease our total costs in line with resulting revenue declines. As a result, the costs associated with our operations may not be fully absorbed, leading to unused capacity charges, higher average unit costs and lower gross margins, adversely impacting our results.

Our capital needs are high compared to those competitors who do not manufacture their own products and we may need additional funding in the coming years to finance our investments, to purchase other companies or technologies developed by third parties or to refinance our maturing indebtedness.

As a result of our choice to maintain control of a large portion of our manufacturing technologies and capabilities, we may require significant capital expenditure to maintain or upgrade our facilities in the event that our facilities become inadequate in terms of capacity, flexibility and location. We monitor our capital expenditures taking into consideration factors such as trends in the semiconductor market, customer requirements and capacity utilization. These capital expenditures may increase in the future if we decide to upgrade or expand the capacity of our manufacturing facilities, purchase or build new facilities or increase investments supporting key strategic initiatives. For instance, we may be unable to successfully maintain and operate large infrastructure projects. Such increased capital expenditures associated with large infrastructure projects and strategic initiatives might not achieve profitability or we may be unable to utilize infrastructure projects to full capacity. There can also be no assurance that future market demand and products required by our customers will meet our expectations. We also may need to invest in other companies, in IP and/or in technology developed either by us or by third parties to maintain or improve our position in the market or to reinforce our existing business. Failure to invest appropriately and in a timely manner or to successfully integrate any recent or future business acquisitions may prevent us from achieving the anticipated benefits and could have a material adverse effect on our business and results of operations.

The foregoing may require us to secure additional financing, including through the issuance of debt, equity or both. The timing and the size of any new share or bond offering would depend upon market conditions as well as a variety of other factors. In addition, the capital markets may from time to time offer terms of financing that are particularly favorable. We cannot exclude that we may access the capital markets opportunistically to take advantage of market conditions. Any such transaction or any announcement concerning such a transaction could materially impact the market price of our common shares. If we are unable to access capital on acceptable terms, this may adversely affect our business and results of operations.

Our operating results depend on our ability to obtain quality supplies on commercially reasonable terms. As we depend on a limited number of suppliers for materials, equipment and technology, we may experience supply disruptions if suppliers interrupt supply, increase prices or experience material adverse changes in their financial condition.

Our ability to meet our customers' demand to manufacture our products depends upon obtaining adequate supplies of quality materials on a timely basis and on commercially reasonable terms. Certain materials are available from a limited number of suppliers or only from a limited number of suppliers in a particular region. We purchase certain materials whose prices on the world markets have fluctuated significantly in the past and may fluctuate significantly in the future. Although supplies for most of the materials we currently use are adequate, shortages could occur in various essential materials due to interruption of supply or increased demand in the industry. For instance, the COVID-19 outbreak could cause disruptions from the temporary closure of suppliers' facilities or delays and reduced export or shipment of various materials. In addition, the costs of certain materials may increase due to market pressures and we may not be able to pass on such cost increases to our customers.

We also purchase semiconductor manufacturing equipment and third party licensed technology from a limited number of suppliers and providers and, because such equipment and technology are complex, it is difficult to replace one supplier or provider with another or to substitute one piece of equipment or type of technology for another. In addition, suppliers and providers may extend lead times, limit our supply, increase prices or change contractual terms related to certain manufacturing equipment and third party licensed

technology, any of which could adversely affect our results. Furthermore, suppliers and technology providers tend to focus their investments on providing the most technologically advanced equipment, materials and technology and may not be in a position to address our requirements for equipment, materials or technology of older generations. Although we work closely with our suppliers and providers to avoid such shortages, there can be no assurance that we will not encounter these problems in the future.

Consolidation among our suppliers or vertical integration among our competitors may limit our ability to obtain sufficient quantities of materials, equipment and/or technology on commercially reasonable terms and engage in mergers and acquisitions. In certain instances, we may be required to enter into agreements with our suppliers with onerous terms, such as take-or-pay arrangements. If we are unable to obtain supplies of materials, equipment or technology in a timely manner or at all, or if such materials, equipment or technology prove inadequate or too costly, our results of operations could be adversely affected.

## Our financial results can be affected by fluctuations in exchange rates, principally in the value of the U.S. dollar.

Currency exchange rate fluctuations affect our results of operations because our reporting currency is the U.S. dollar, in which we receive the major portion of our revenues, while, more importantly, we incur a limited portion of our revenue and a significantly higher portion of our costs in currencies other than the U.S. dollar. A significant variation of the value of the U.S. dollar against the principal currencies that have a material impact on us (primarily the Euro, but also certain other currencies of countries where we have operations, such as the Singapore dollar) could result in a favorable impact, net of hedging, on our net income in the case of an appreciation of the U.S. dollar, or a negative impact, net of hedging, on our net income if the U.S. dollar depreciates relative to these currencies, in particular with respect to the Euro.

In order to reduce the exposure of our financial results to the fluctuations in exchange rates, our principal strategy has been to balance as much as possible the proportion of sales to our customers denominated in U.S. dollars with the amount of purchases from our suppliers denominated in U.S. dollars and to reduce the weight of the other costs, including depreciation, denominated in Euros and in other currencies. In order to further reduce our exposure to U.S. dollar exchange rate fluctuations, we have hedged certain line items on our Consolidated Statements of Income, in particular with respect to a portion of the cost of sales, the majority of the R&D expenses and certain SG&A expenses located in the Euro zone. We also hedge certain manufacturing costs, included within the cost of sales, denominated in Singapore dollars. There can be no assurance that our hedging transactions will prevent us from incurring higher Euro-denominated manufacturing costs and/or operating expenses when translated into our U.S. dollar-based accounts. See "Item 5. Operating and Financial Review and Prospects — Impact of Changes in Exchange Rates" and "Item 11. Quantitative and Qualitative Disclosures About Market Risk".

## Our operating results may vary significantly from quarter to quarter and annually and may also differ significantly from our expectations or guidance.

Our operating results are affected by a wide variety of factors that could materially and adversely affect revenues and profitability or lead to significant variability of our operating results from one period to the next. These factors include changes in demand from our key customers, capital requirements, inventory management, availability of funding, competition, new product developments, start of adoption of our new products by customers, technological changes, manufacturing or supplier issues and effective tax rates. In addition, in periods of industry overcapacity or when our key customers encounter difficulties in their end-markets or product ramps, orders are more exposed to cancellations, reductions, price renegotiation or postponements, which in turn reduce our ability to forecast the next quarter or full year production levels, revenues and margins. As a result, we may not meet our financial targets, which could in turn have an impact on our reputation or brand. For these reasons and others that we may not yet have identified, our revenues and operating results may differ materially from our expectations or guidance as visibility is reduced. See "Item 4. Information on the Company — Backlog".

#### If our external silicon foundries or back-end subcontractors fail to perform, this could adversely affect our business prospects.

We currently use external silicon foundries and back-end subcontractors for a portion of our manufacturing activities. If our external silicon foundries or back-end subcontractors are unable to satisfy our demand, or experience manufacturing difficulties, delays or reduced yields, our results of operations and ability

to satisfy customer demand could suffer. Likewise, if we are unable to meet our commitments to silicon foundries and back-end subcontractors, our results of operations could suffer. Prices for these services also vary depending on capacity utilization rates at our external silicon foundries and back-end subcontractors, quantities demanded and product and process technology. Such outsourcing costs can vary materially and, in cases of industry shortages, they can increase significantly, negatively impacting our business prospects.

Our manufacturing processes are highly complex, costly and potentially vulnerable to impurities, disruptions or inefficient implementation of production changes or interruptions that can significantly increase our costs and delay product shipments to our customers.

Our manufacturing processes are highly complex, require advanced and increasingly costly equipment and are continuously modified or maintained in an effort to improve yields and product performance and lower the cost of production.

Furthermore, impurities or other difficulties in the manufacturing process can lower yields, interrupt production or result in scrap. As system complexity and production changes have increased and sub-micron technology has become more advanced, manufacturing tolerances have been reduced and requirements for precision have become even more demanding. We have from time to time experienced bottlenecks and production difficulties that have caused delivery delays and quality control problems. There can be no assurance that we will not experience bottlenecks or production, transition or other difficulties in the future.

In addition, we are exposed to risks related to interruptions of our manufacturing processes. If any of our property or equipment is damaged or otherwise rendered unusable or inoperable due to accident, cyberattack or otherwise this could result in interruptions which could have a material adverse effect on our business, financial condition and results of operations.

## We may experience quality problems from time to time that can result in decreased sales and operating margin and product liability or warranty claims.

We sell complex products that may not in each case comply with specifications or customer requirements, or may contain design or manufacturing defects, that could cause personal injury, property damage or security risks that could be exploited by unauthorized third parties hacking, corrupting or otherwise obtaining access to our products, including the software loaded thereon by us, our suppliers or our customers. Although our general practice is to contractually limit our liability to the repair, replacement or refund of defective products, we occasionally agree to contractual terms with key customers in which we provide extended warranties and accordingly we may face product liability, warranty, delivery failure, and/or other claims relating to our products that could result in significant expenses relating to compensation payments, product recalls or other actions related to such extended warranties and/or to maintain good customer relationships, which could result in decreased sales and operating margin and other material adverse effects on our business. Costs or payments we may make in connection with warranty and other claims or product recalls may adversely affect our results of operations. There can be no assurance that we will be successful in maintaining our relationships with customers with whom we incur quality problems. Furthermore, if litigation occurs we could incur significant costs and liabilities to defend ourselves against such claims and, if damages are awarded against us, there can be no assurance that our insurance policies will be available or adequate to protect us against such claims.

Disruptions in our relationships with any one of our key customers or distributors, and/or material changes in their strategy or financial condition or business prospects, could adversely affect our results of operations.

A substantial portion of our sales is derived from a limited number of customers and distributors. There can be no assurance that our customers or distributors will continue to book the same level of sales with us that they have in the past, will continue to succeed in the markets they serve and will not purchase competing products over our products. Many of our key customers and distributors operate in cyclical businesses that are also highly competitive, and their own market positions may vary considerably. In recent years, some of our customers have vertically integrated their businesses. Such vertical integrations may impact our business. Our relationships with the newly formed entities could be either reinforced or jeopardized by the integration. If we are unable to maintain or increase our market share with our key customers or distributors, or if they were to increase product returns or fail to meet payment obligations, our results of operations could be materially adversely affected. Certain of our products are customized to our customers' specifications. If customers do not purchase products made specifically for them, we may not be able to recover a cancellation fee from our customers or resell such products to other customers. In addition, the occurrence of epidemic or pandemic

outbreaks such as COVID-19 could affect our customers. While the geographic spread of COVID-19 cannot be predicted and its future developments are uncertain, if its severity increases, the adverse public health impact on our customers could negatively affect our results.

#### We may experience delays in delivering our product and technology roadmaps as well as transformation initiatives.

Our industry adapts to technological advancements and it is likely that new products, equipment, processes and service methods, including transformation initiatives related to digitalization, are in the process of being implemented. Any failure by us to react to changes or advances in existing technologies and processes as we develop and invest in our product, technology and transformation roadmaps could materially delay the introduction of new solutions. If we are not able to execute on these roadmaps on a timely basis or at an acceptable cost this could result in loss of competitiveness of our solutions, decreased revenue and a loss of market share.

# Our computer systems, including hardware, software, information and cloud-based initiatives, are subject to attempted security breaches and other cybersecurity threats, which, if successful, could adversely impact our business.

We have, from time to time, detected and experienced attempts by others to gain unauthorized access to our computer systems and networks. The reliability and security of our information technology infrastructure and software, and our ability to expand and continually update technologies, including to transition to cloud-based technologies, in response to our changing needs is critical to our business. In the current environment, there are numerous and evolving risks to cybersecurity, including criminal hackers, state-sponsored intrusions, terrorism, industrial espionage, employee malfeasance, vandalism and human or technological error. Computer hackers and others routinely attempt to breach the security of technology products, services, and systems, and those of our customers, suppliers and providers of third party licensed technology, and some of those attempts may be successful. Such breaches could result in, for example, unauthorized access to, disclosure, modification, misuse, loss, or destruction of our, our customer, or other third party data or systems, theft of our trade secrets and other sensitive or confidential data, including personal information and intellectual property, system disruptions, and denial of service.

The attempts to breach our systems, including cloud-based systems, and gain unauthorized access to our information technology systems are becoming increasingly more sophisticated. These attempts may include covertly introducing malware to our computers, including those in our manufacturing operations, and impersonating unauthorized users, among others. For instance, employees and former employees, in particular former employees who become employees of our competitors or customers, may misappropriate, use, publish or provide to our competitors or customers our intellectual property and/or proprietary or confidential business information. Also, third parties may attempt to register domain names similar to our brands or website, which could cause confusion and divert online customers away from our products. In the event of such breaches, we, our customers or other third parties could be exposed to potential liability, litigation, and regulatory action, as well as the loss of existing or potential customers, damage to our reputation, and other financial loss and such breaches could also result in losing existing or potential customers in connection with any actual or perceived security vulnerabilities in our systems. In addition, the cost and operational consequences of responding to breaches and implementing remediation measures could be significant. As these threats continue to develop and grow, we have been adapting and strengthening our security measures.

As a result of the social distancing measures and regulations enforced by governments in connection with the COVID-19 pandemic, and the resulting work-from-home policies that we have undertaken, there has been additional reliance placed on our IT systems and resources. The resulting reliance on these resources, and the added need to communicate by electronic means, could increase our risk of cybersecurity incidents.

We continue to increase the resources we allocate to implementing, maintaining and/or updating security systems to protect data and infrastructure and to raising security awareness among those having access to our systems. However, these security measures cannot provide absolute security and there can be no assurance that our employee training, operational, and other technical security measures or other controls will detect, prevent or remediate security or data breaches in a timely manner or otherwise prevent unauthorized access to, damage to, or interruption of our systems and operations.

We regularly evaluate our IT systems and business continuity plan to make enhancements and periodically implement new or upgraded systems, as for instance the transition and migration of our data systems to cloud-based platforms and critical system migration. Any delay in the implementation of, or

disruption in the transition to different systems could adversely affect our ability to record and report financial and management information on a timely and accurate basis and could impact our operations and financial position. In addition, a miscalculation of the level of investment needed to ensure our technology solutions are current and up-to-date as technology advances and evolves could result in disruptions in our business should the software, hardware or maintenance of such items become out-of-date or obsolete and the costs of upgrading our cybersecurity systems and remediating damages could be substantial

We may also be adversely affected by security breaches related to our equipment providers and providers of third party licensed technology. As a global enterprise, we could also be impacted by existing and proposed laws and regulations, as well as government policies and practices related to cybersecurity, privacy and data protection. Additionally, cyberattacks or other catastrophic events resulting in disruptions to or failures in power, information technology, communication systems or other critical infrastructure could result in interruptions or delays to us, our customers, or other third party operations or services, financial loss, potential liability, and damage our reputation and affect our relationships with our customers and suppliers.

We may be subject to theft, loss, or misuse of personal data about our employees, customers, or other third parties, which could increase our expenses, damage our reputation, or result in legal or regulatory proceedings.

The theft, loss, or misuse of personal data collected, used, stored, or transferred by us to run our business could result in significantly increased security costs or costs related to defending legal claims. Global privacy legislation, including various EU regulations and directives regulating data privacy and security, such as the General Data Protection Regulation ("GDPR") and the transmission of content using the Internet involving residents of the EU, enforcement, and policy activity in this area are rapidly expanding and creating a complex compliance regulatory environment.

In particular, the requirements of the GDPR impose a higher compliance burden on us and materially increase the maximum level of fines for compliance failures from their current levels relating to, among other things, consent to process personal data of individuals, the information provided to individuals regarding the processing of their personal data, the security and confidentiality of personal data, and notifications in the event of data breaches and use of third party processors. Costs to comply with and implement these privacy-related and data protection measures may increase and may necessitate changes to our business. In addition, our failure to comply with local and international privacy or data protection laws and regulations could result in proceedings against us by governmental entities or others. Failure to comply with the GDPR or other data privacy regimes could subject us to significant fines and reputational harm.

Further, privacy-related legislation is rapidly evolving which may have a negative impact on our business if interpreted or implemented in a manner that is inconsistent from country to country and inconsistent with the current policies and practices of our customers or business partners. We may also have to change the manner in which we contract with our business partners, store and transfer information and otherwise conduct our business, which could increase our costs and reduce our revenues. In particular, the requirements of the GDPR will impose a higher compliance burden on us and materially increase the maximum level of fines for compliance failures from their current levels. Costs to comply with and implement these privacy-related and data protection measures could be significant. In addition, our failure to comply with local and international privacy or data protection laws and regulations could result in proceedings against us by governmental entities or others.

Our business is dependent in large part on continued growth in the industries and segments into which our products are sold and on our ability to retain existing customers and attract new ones. A market decline in any of these industries, our inability to retain and attract customers, or customer demand for our products which differs from our projections, could have a material adverse effect on our results of operations.

The demand for our products depends significantly on the demand for our customers' end products. Growth of demand in the industries and segments into which our products are sold fluctuates significantly and is driven by a variety of factors, including consumer spending, consumer preferences, the development and acceptance of new technologies and prevailing economic conditions. Changes in our customers' markets and in our customers' respective shares in such markets could result in slower growth and a decline in demand for our products. In addition, if projected industry growth rates do not materialize as forecasted, our spending on process and product development ahead of market acceptance could have a material adverse effect on our business, financial condition and results of operations.

Our business is dependent upon our ability to retain existing customers. In 2020 our largest customer, Apple, accounted for 23.9% of our revenues. While we do not believe to be dependent on any one customer or group of customers, the loss of key customers or important sockets at key customers could have an adverse effect on our results of operations.

Our existing customers' product strategy may change from time to time and/or product specifications may change on short-time product life cycles and we have no certainty that our business, financial position and results of operations will not be affected. Our business is also dependent upon our ability to attract new customers. There can be no assurance that we will be successful in attracting and retaining new customers, or in adequately projecting customer demand for our products. Our failure to do so could materially adversely affect our business, financial position and results of operations.

#### Market dynamics have driven, and continue to drive us, to a strategic repositioning.

In recent years, we have undertaken several initiatives to reposition our business. Our strategies to improve our results of operations and financial condition have led us, and may in the future lead us, to acquire businesses that we believe to be complementary to our own, or to divest ourselves of or wind down activities that we believe do not serve our longer term business plans. Our potential acquisition strategies depend in part on our ability to identify suitable acquisition targets, finance their acquisition, obtain approval by our shareholders and obtain required regulatory and other approvals. Our potential divestiture strategies depend in part on our ability to compete and to identify the activities in which we should no longer engage, obtain the relevant approvals pursuant to our governance process and then determine and execute appropriate methods to divest of them.

We are constantly monitoring our product portfolio and cannot exclude that additional steps in this repositioning process may be required. Furthermore, we cannot assure that any strategic repositioning of our business, including executed and possible future acquisitions or dispositions, will be successful and will not result in impairment, restructuring charges and other related closure costs.

Acquisitions and divestitures involve a number of risks that could adversely affect our operating results and financial condition, including: we may be unable to successfully integrate businesses or teams we acquire with our culture and strategies on a timely basis or at all; and we may be required to record charges related to the goodwill or other long-term assets associated with the acquired businesses. There can be no assurance that we will be able to achieve the full scope of the benefits we expect from a particular acquisition, divestiture or investment. Our business, financial condition and results of operations may suffer if we fail to coordinate our resources effectively to manage both our existing businesses and any acquired businesses. In addition, the financing of future acquisitions or divestitures may negatively impact our financial position, including our ability to pay a dividend and/or repurchase our shares, and credit rating and we could be required to raise additional funding.

Other risks associated with acquisitions include: assumption of potential liabilities, disclosed or undisclosed, associated with the business acquired, which liabilities may exceed the amount of indemnification available from the seller; potential inaccuracies in the financials of the business acquired; and our ability to retain customers of an acquired entity, its business or industrialize an acquired process or technology. Identified risks associated with divestitures include: loss of activities and technologies that may have complemented our remaining businesses or operations; and loss of important services provided by key employees that are assigned to divested activities.

We depend on collaboration with other semiconductor industry companies, research organizations, universities, customers and suppliers to further our R&D efforts, and our business and prospects could be materially adversely affected by the failure or termination of such alliances.

Our success depends on our ability to introduce innovative new products and technologies to the marketplace on a timely basis. In light of the high levels of investment required for R&D activities, we depend in certain instances on collaborations with other semiconductor industry companies, research organizations, universities, customers and suppliers to develop or access new technologies.

Such collaboration provides us with a number of important benefits, including the sharing of costs, reductions in our own capital requirements, acquisitions of technical know-how and access to additional production capacities. However, there can be no assurance that our collaboration efforts will be successful and allow us to develop and access new technologies in due time, in a cost-effective manner and/or to meet customer demands. If a particular collaboration terminates before our intended goals are accomplished we may incur additional unforeseen costs, and our business and prospects could be adversely affected. Furthermore, if we are unable to develop or otherwise access new technologies, whether independently or in collaboration with another industry participant, we may fail to keep pace with the rapid technology advances in the semiconductor industry, our participation in the overall semiconductor industry may decrease and we may also lose market share.

## We depend on patents to protect our rights to our technology and may face claims of infringing the IP rights of others.

We depend on patents and other IP rights to protect our products and our manufacturing processes against misappropriation by others. The process of seeking patent protection can be long and expensive, and there can be no assurance that that we will receive patents from currently pending or future applications. Even if patents are issued, they may not be of sufficient scope or strength to provide meaningful protection or any commercial advantage. In addition, effective IP protection may be unavailable or limited in some countries. Our ability to enforce one or more of our patents could be adversely affected by changes in patent laws, laws in certain foreign jurisdictions that may not effectively protect our intellectual property rights or by ineffective enforcement of laws in such jurisdictions. Competitors may also develop technologies that are protected by patents and other IP and therefore either be unavailable to us or be made available to us subject to adverse terms and conditions. We have in the past used our patent portfolio to negotiate broad patent cross-licenses with many of our competitors enabling us to design, manufacture and sell semiconductor products, without concern of infringing patents held by such competitors. We may not in the future be able to obtain such licenses or other rights to protect necessary IP on favorable terms for the conduct of our business, and such failure may adversely impact our results of operations. Such cross-license agreements expire from time to time and there is no assurance that we can or we will extend them.

We have from time to time received, and may in the future receive, communications alleging possible infringement of third party patents and other IP rights. Some of those claims are made by so-called non-practicing entities against which we are unable to assert our own patent portfolio to lever licensing terms and conditions. Competitors with whom we do not have patent cross-license agreements may also develop technologies that are protected by patents and other IP rights and which may be unavailable to us or only made available on unfavorable terms and conditions. We may therefore become involved in costly litigation brought against us regarding patents and other IP rights. See Note 27 to our Consolidated Financial Statements. IP litigation may also involve our customers who in turn may seek indemnification from us should we not prevail and/or who may decide to curtail their orders for those of our products over which claims have been asserted. Such lawsuits may therefore have a material adverse effect on our business. We may be forced to stop producing substantially all or some of our products or to license the underlying technology upon economically unfavorable terms and conditions or we may be required to pay damages for the prior use of third party IP and/or face an injunction.

The outcome of IP litigation is inherently uncertain and may divert the efforts and attention of our management and other specialized technical personnel. Such litigation can result in significant costs and, if not resolved in our favor, could materially and adversely affect our business, financial condition and results of operations.

We operate in many jurisdictions with highly complex and varied tax regimes. Changes in tax rules, new or revised legislation or the outcome of tax assessments and audits could cause a material adverse effect on our results.

We operate in many jurisdictions with highly complex and varied tax regimes. Changes in tax rules, new or revised legislation or the outcome of tax assessments and audits could have a material adverse effect on our results. Our tax rate is variable and depends on changes in the level of operating results within various local jurisdictions and on changes in the applicable taxation rates of these jurisdictions, as well as changes in estimated tax provisions due to new events. We currently receive certain tax benefits or benefit from net operating losses cumulated in prior years in some countries, and these benefits may not be available in the future due to changes in the local jurisdictions or credits on net operating losses being no longer available due to either full utilization or expiration of the statute of limitations in such jurisdictions. As a result, our effective tax rate

could increase and/or our benefits from carrying forward net operating losses could affect our deferred tax assets in certain countries in the coming years. In addition, the acquisition or divestiture of businesses in certain jurisdictions could materially affect our effective tax rate.

We evaluate our deferred tax asset position and the need for a valuation allowance on a regular basis. The ultimate realization of deferred tax assets is dependent upon, among other things, our ability to generate future taxable income that is sufficient to utilize in certain jurisdictions loss carry-forwards or tax credits before their expiration or our ability to implement prudent and feasible tax optimization strategies. The recorded amount of total deferred tax assets could be reduced, which could have a material adverse effect on our results of operations and financial position, if our estimates of projected future taxable income and benefits from available tax strategies are reduced as a result of a change in business condition or in management's plans or due to other factors, such as changes in tax laws and regulations.

We are subject to the possibility of loss contingencies arising out of tax claims, assessment of uncertain tax positions and provisions for specifically identified income tax exposures. We are also subject to tax audits in certain jurisdictions. There can be no assurance that we will be successful in resolving potential tax claims that result from these audits, which could result in material adjustments in our tax positions. We record provisions on the basis of the best current understanding; however, we could be required to record additional provisions in future periods for amounts that cannot currently be assessed. Our failure to do so and/or the need to increase our provisions for such claims could have a material adverse effect on our results of operations and our financial position.

Our operating results can also vary significantly due to impairment of goodwill and other intangible assets incurred in the course of acquisitions and equity investments, as well as to impairment of tangible assets due to changes in the business environment.

Our operating results can vary significantly due to impairment of goodwill, other intangible assets and equity investments booked pursuant to acquisitions, joint venture agreements and the purchase of technologies and licenses from third parties, as well as to impairment of tangible assets due to changes in the business environment. Because the market for our products is characterized by rapidly changing technologies, significant changes in the semiconductor industry, and the potential failure of our business initiatives, our future cash flows may not support the value of goodwill, tangible assets and other intangibles registered in our Consolidated Balance Sheets. See "Item 5. Operating and Financial Review and Prospects — Overview — Critical Accounting Policies Using Significant Estimates — Impairment of goodwill", "— Intangible assets subject to amortization", "— Tangible assets" and "— Income (loss) on Equity-method Investments".

### We receive public funding, and a reduction in the amount available to us or demands for repayment could increase our costs and impact our results of operations.

To support our proprietary R&D for technology investments and investments in cooperative R&D ventures, we have in the past obtained public funding and expect to obtain public funding in the future, mainly from French, Italian and EU governmental entities. The public funding we receive is subject to periodic review by the relevant authorities and there can be no assurance that we will continue to benefit from such programs at current levels or that sufficient alternative funding will be available if we lose such support. If any of the public funding programs we participate in are curtailed or discontinued and we do not reduce the relevant R&D costs, this could have a material adverse effect on our business. Furthermore, to receive public funding, we enter into agreements which require compliance with extensive regulatory requirements and set forth certain conditions relating to the funded programs. If we fail to meet the regulatory requirements or applicable conditions, we may, under certain circumstances, be required to refund previously received amounts, which could have a material adverse effect on our results of operations. If there are changes in the public funding we receive this could increase the net costs for us to continue investing in R&D at current levels and could result in a material adverse effect on our results of operations.

Some of our production processes and materials are environmentally sensitive, which could expose us to liability and increase our costs due to environmental, health and safety laws and regulations or because of damage to the environment.

We are subject to environmental, health and safety laws and regulations that govern various aspects, including the use, storage, discharge and disposal of chemicals, gases and other hazardous substances used in our operations. Compliance with such laws and regulations could adversely affect our manufacturing costs or

product sales by requiring us to acquire costly equipment, materials or greenhouse gas allowances, or to incur other significant expenses in adapting our manufacturing processes or waste and emission disposal processes. Furthermore, environmental claims or our failure to comply with present or future regulations could result in the assessment of damages or imposition of fines against us, suspension of production or a cessation of operations. Failure by us to control the use of, or adequately restrict the discharge of, chemicals or hazardous substances could subject us to future liabilities.

## Climate change and related sustainability initiatives, including our commitment to be carbon neutral by 2027, could place additional burden on us and our operations.

As climate change issues become more pronounced, we may correspondingly face increased expectations from our stakeholders to take actions beyond existing regulatory requirements to minimize our impact on the environment and mitigate climate change related effects. On December 9, 2020, we announced our goal to become carbon neutral by 2027. Our comprehensive roadmap to carbon neutrality includes two specific targets: compliance with the 1.5°C scenario defined at the Paris COP21 by 2025, which implies a 50% reduction of direct and indirect emissions compared to 2018, and the sourcing of 100% renewable energy by 2027.

To meet these additional requirements, we will need to continue to deploy additional equipment, introduce process changes, utilize alternative suppliers and materials, and take other similar actions, some or all of which may require us to incur additional costs which could result in a material adverse effect on our results of operations and our financial position. In addition, if we fail to meet these expectations, or foster additional sustainability initiatives, we may experience reputational risk which could impact our ability to attract and retain customers, employees, and investors.

## Loss of key employees and the inability to continuously recruit and retain qualified employees could hurt our competitive position.

Our success depends to a significant extent upon our key executives and R&D, engineering, marketing, sales, manufacturing, support and other personnel. Our success also depends upon our ability to continue to identify, attract, retain and motivate highly trained and skilled engineering, technical and professional personnel in a competitive recruitment environment, as well our ability to ensure the smooth succession and continuity of business with newly hired and promoted personnel. For instance, in highly specialized areas, it may become more difficult to retain employees.

Our employee hiring and retention also depend on our ability to build and maintain a diverse and inclusive workplace culture and be viewed as an employer of choice. We intend to continue to devote significant resources to recruit, train and retain qualified employees, however, we may not be able to attract, obtain and retain these employees, which may affect our growth in future years and the loss of the services of any of these key personnel without adequate replacement or the inability to attract new qualified personnel could have a material adverse effect on us.

The interests of our controlling shareholder, which is in turn indirectly controlled by the French and Italian governments, may conflict with other investors' interests. In addition, our controlling shareholder may sell our existing common shares or issue financial instruments exchangeable into our common shares at any time.

We have been informed that as at December 31, 2020, STMicroelectronics Holding N.V. ("ST Holding"), owned 250,704,754 shares, or approximately 27.5%, of our issued common shares. ST Holding may therefore be in a position to effectively control the outcome of decisions submitted to the vote at our shareholders' meetings, including but not limited to the appointment of the members of our Managing and Supervisory Boards.

We have been informed that ST Holding's shareholders, each of which is ultimately controlled by the French or Italian government, are party to a shareholders agreement (the "STH Shareholders Agreement"), which governs relations between them. We are not a party to the STH Shareholders Agreement. See "Item 7. Major Shareholders and Related Party Transactions — Major Shareholders". The STH Shareholders Agreement includes provisions requiring the unanimous approval by the shareholders of ST Holding before ST Holding can vote its shares in our share capital, which may give rise to a conflict of interest between our interests and investors' interests, on the one hand, and the (political) interests of ST Holding's shareholders, on the other hand. Our ability to issue new shares or other securities giving access to our shares may be limited by ST Holding's desire to maintain its shareholding at a certain level and our ability to buy back shares may be limited

by ST Holding due to a Dutch law requiring one or more shareholders acquiring 30% or more of our voting rights to launch a tender offer for our outstanding shares

The STH Shareholders Agreement also permits our respective French and Italian indirect shareholders to cause ST Holding to dispose of its stake in us at any time, thereby reducing the current level of their respective indirect interests in our common shares. Sales of our common shares or the issuance of financial instruments exchangeable into our common shares or any announcements concerning a potential sale by ST Holding could materially impact the market price of our common shares depending on the timing and size of such sale, market conditions as well as a variety of other factors.

#### Our shareholder structure and our preference shares may deter a change of control.

We have an option agreement in place with an independent foundation, whereby the foundation can acquire preference shares in the event of actions which the board of the independent foundation determines would be contrary to our interests, our shareholders and our other stakeholders and which in the event of a creeping acquisition or offer for our common shares are not supported by our Managing Board and Supervisory Board. In addition, our shareholders have authorized us to issue additional capital within the limits of the authorization by our General Meeting of Shareholders ("AGM"), subject to the requirements of our Articles of Association, without the need to seek a specific shareholder resolution for each capital increase. Accordingly, an issue of preference shares or new shares may make it more difficult for a shareholder to obtain control over our General Meeting of Shareholders. These anti-takeover provisions could substantially impede the ability of our shareholders to benefit from a change in control and, as a result, may materially adversely affect the market price of our ordinary shares and our investors' ability to realize any potential change of control premium. See "Item 7. Major Shareholders—Preference Shares".

#### Any decision to reduce or discontinue paying cash dividends to our shareholders could adversely impact the market price of our common shares.

On an annual basis, our Supervisory Board, upon the proposal of the Managing Board, may propose the distribution of a cash dividend to the General Meeting of Shareholders. See "Item 8. Dividend Policy". Any reduction or discontinuance by us of the payment of cash dividends at historical levels could cause the market price of our common shares to decline.

# We are required to prepare financial statements under IFRS and we also prepare Consolidated Financial Statements under U.S. GAAP, and such dual reporting may impair the clarity of our financial reporting.

We use U.S. GAAP as our primary set of reporting standards. Applying U.S. GAAP in our financial reporting is designed to ensure the comparability of our results to those of our competitors, as well as the continuity of our reporting, thereby providing our stakeholders and potential investors with a clear understanding of our financial performance. As we are incorporated in The Netherlands and our shares are listed on Euronext Paris and on the Borsa Italiana, we are subject to EU regulations requiring us to also report our results of operations and financial statements using IFRS.

As a result of the obligation to report our financial statements under IFRS, we prepare our results of operations using both U.S. GAAP and IFRS, which are currently not consistent. Such dual reporting can materially increase the complexity of our financial communications. Our financial condition and results of operations reported in accordance with IFRS will differ from our financial condition and results of operations reported in accordance with U.S. GAAP, which could give rise to confusion in the marketplace.

## There are inherent limitations on the effectiveness of our controls.

There can be no assurance that a system of internal control over financial reporting, including one determined to be effective, will prevent or detect all misstatements. A control system, no matter how well designed and operated, can provide only reasonable, not absolute, assurance regarding financial statement preparation and presentation. Projections of the results of any evaluation of the effectiveness of internal control over financial reporting into future periods are subject to inherent risk. The relevant controls may become inadequate due to changes in circumstances or the degree of compliance with the underlying policies or procedures may deteriorate.

## Because we are subject to the corporate law of The Netherlands, U.S. investors might have more difficulty protecting their interests in a court of law or otherwise than if we were a U.S. company.

Our corporate affairs are governed by our Articles of Association and by the laws governing corporations incorporated in The Netherlands. The rights of our investors and the responsibilities of members of our Managing and Supervisory Boards under Dutch law are not as clearly established as under the rules of some U.S. jurisdictions. Therefore, U.S. investors may have more difficulty in protecting their interests in the face of actions by our management, members of our Managing and Supervisory Boards or our controlling shareholders than U.S. investors would have if we were incorporated in the United States

Our executive offices and a substantial portion of our assets are located outside the United States. In addition, ST Holding and most members of our Managing and Supervisory Boards are residents of jurisdictions other than the United States. As a result, it may be difficult or impossible for shareholders to effect service within the United States upon us, ST Holding, or members of our Managing or Supervisory Boards. It may also be difficult or impossible for shareholders to enforce outside the United States judgments obtained against such persons in U.S. courts, or to enforce in U.S. courts judgments obtained against such persons in courts in jurisdictions outside the United States. This could be true in any legal action, including actions predicated upon the civil liability provisions of U.S. securities laws. In addition, it may be difficult or impossible for shareholders to enforce, in original actions brought in courts in jurisdictions located outside the United States, rights predicated upon U.S. securities laws

We have been advised by Dutch counsel that the United States and The Netherlands do not currently have a treaty providing for reciprocal recognition and enforcement of judgments (other than arbitration awards) in civil and commercial matters. With respect to choice of court agreements in civil or commercial matters, it is noted that the Hague Convention on Choice of Court Agreements entered into force in the Netherlands, but has not entered into force in the United States. As a consequence, a final judgment for the payment of money rendered by any federal or state court in the United States based on civil liability, whether or not predicated solely upon the federal securities laws of the United States, will not be enforceable in The Netherlands. However, if the party in whose favor such final judgment is rendered brings a new suit in a competent court in The Netherlands, such party may submit to The Netherlands court the final judgment that has been rendered in the United States. If The Netherlands court finds that the jurisdiction of the federal or state court in the United States has been based on grounds that are internationally acceptable and that proper legal procedures that are in accordance with the Dutch standards of proper administration of justice including sufficient safeguards (behoorlijke rechtspleging) have been observed, the court in The Netherlands would, under current practice, in principle give binding effect to the final judgment that has been rendered in the United States unless such judgment contradicts The Netherlands' public policy and provided that the judgment by the foreign court is not incompatible with a decision rendered between the same parties by a foreign court in a dispute that concerns the same subject and is based on the same cause, provided that the previous decision qualifies for acknowledgment in the Netherlands. Even if such a foreign judgment is given binding effect, a claim based thereon may, however, still be rejected if the foreign judgment is not or no longer formally

## Item 4. Information on the Company

## History and Development of the Company

STMicroelectronics N.V. was formed and incorporated in 1987 as a result of the combination of the semiconductor business of SGS Microelettronica (then owned by Società Finanziaria Telefonica (S.T.E.T.), an Italian corporation) and the non-military business of Thomson Semiconducteurs (then owned by the former Thomson-CSF, now Thales, a French corporation). We completed our initial public offering in December 1994 with simultaneous listings on the Bourse de Paris (now known as "Euronext Paris") and the New York Stock Exchange ("NYSE"). In 1998, we also listed our shares on the Borsa Italiana S.p.A. ("Borsa Italiana").

We operated as SGS-Thomson Microelectronics N.V. until May 1998, when we changed our name to STMicroelectronics N.V. We are organized under the laws of The Netherlands, with our corporate legal seat in Amsterdam, The Netherlands, and our head offices at WTC Schiphol Airport, Schiphol Boulevard 265, 1118 BH Schiphol, The Netherlands. Our telephone number there is +31-20-654-3210. Our headquarters and operational offices are managed through our wholly owned subsidiary, STMicroelectronics International N.V., and are located at 39 Chemin du Champ des Filles, 1228 Plan-Les-Ouates, Geneva, Switzerland. Our main telephone number there is +41-22-929-2929. Our agent for service of process in the United States related to our registration under the U.S. Securities Exchange Act of 1934, as amended, is Corporation Service Company

(CSC), 80 State Street, Albany, New York, 12207. Our operations are also conducted through our various subsidiaries, which are organized and operated according to the laws of their country of incorporation, and consolidated by STMicroelectronics N.V.

#### **Business Overview**

We are a global independent semiconductor company that designs, develops, manufactures and markets a broad range of products, including discrete and general purpose components, application-specific integrated circuits ("ASICs"), full-custom devices and semi-custom devices and application-specific standard products ("ASSPs") for analog, digital and mixed-signal applications.

Our diverse product portfolio benefits from a unique, strong foundation of proprietary and differentiated leading-edge technologies. We use all of the prevalent function-oriented process technologies, including complementary metal-on silicon oxide semiconductors ("CMOS"), bipolar and non-volatile memory technologies. In addition, by combining basic processes, we have developed advanced systems-oriented technologies that enable us to produce differentiated and application-specific products, including our pioneering fully depleted silicon-on-insulator ("FD-SOI") technology offering superior performance and power efficiency compared to bulk CMOS, bipolar CMOS technologies ("Bi-CMOS") and radio frequency silicon-on-insulator ("RF-SOI") for mixed-signal and high-frequency applications, as well as a combination of Bipolar, CMOS and DMOS ("BCD") and vertically integrated power ("VIPower") technologies for smart power applications, silicon carbide ("SiC") and gallium-nitride ("GaN") for high-efficiency systems, Micro-Electro-Mechanical Systems ("MEMS") technologies for sensors and actuators, embedded memory technologies for our microcontrollers and differentiated optical sensing technologies for our optical sensing solutions. For our 2020 Results of Operations, see "Item 5. Operating and Financial Review and Prospects — Results of Operations — Segment Information".

#### Strategy

At ST, we are 46,000 creators and makers of semiconductor technologies mastering the semiconductor supply chain with state-of-the-art manufacturing facilities. An independent device manufacturer, we work with more than 100,000 customers and thousands of partners to design and build products, solutions, and ecosystems that address their challenges and opportunities, and the need to support a more sustainable world. We develop industry-leading technologies that allow us to provide products and solutions that meet and exceed the needs and expectations of our customers now and into the future

Our strategy focuses on long-term value creation for the Company and its affiliated enterprises and takes into account the short-, medium- and longer-term evolution of the markets we serve and the environment and opportunities we see. It stems from key long-term enablers: Smart Mobility, where we provide innovative solutions to help our customers make driving safer, greener and more connected for everyone; Power & Energy: our technology and solutions enable customers to increase energy efficiency everywhere and support the use of renewable energy sources; Internet of Things ("IoT") & 5G: we provide sensors, embedded processing solutions, connectivity, security, optical sensing and power management, as well as tools and ecosystems to make development fast and easy for our customers.

We are focused on application areas which are expected to experience solid growth rates driven by broad, long-term trends in electronic systems. These trends require enablers such as autonomous systems, robotics, securely connected machines and personal devices, digitalization and electrification of automobiles and infrastructure, advanced communications equipment and networks and more power efficient systems. These enablers drive in turn the demand for the electronic components we develop and manufacture.

Our products are used in a wide variety of applications for the four end-markets we address: automotive, industrial, personal electronics and communications equipment, computers and peripherals. For the automotive and industrial markets we address a wide customer base, particularly in industrial, with a broad and deep product portfolio. In personal electronics and communications equipment, computers and peripherals we have a selective approach both in terms of the customers we serve, as well as in the technologies and products we offer.

#### **Product Information**

Semiconductors are electronic components that serve as the building blocks inside electronic systems and equipment. Semiconductors, generally known as "chips," combine multiple transistors on a single piece of

material to form a complete electronic circuit. With our portfolio of semiconductor products, we serve customers across the spectrum of electronics applications with innovative solutions.

We have a portfolio of power products and analog products, including sensors, signal channel devices and output power stages - discrete and/or integrated - as well as complete power management blocks. Our analog products, including both general purpose and application specific, can fulfill the needs of a wide range of designs and systems.

We also have digital products that are at the heart of electronics systems, including microcontrollers, ASICs and optical sensing solutions. Our full set of microcontrollers includes one of the industry's broadest ranges of general-purpose devices serving all market segments, secure microcontrollers for mobile devices, wearables, banking, identification, industrial, automotive and IoT markets and a series of embedded processing solutions for our strategic end-markets (automotive, industrial, personal electronics and communications equipment, computers and peripherals).

We have historically been one of the leading suppliers and innovators in the domain of semiconductor devices dedicated to automotive applications. We have a portfolio spanning complex power train, audio and infotainment devices and body and convenience dedicated and standard functions as well as a broad offering of components for advanced driver assistance systems ("ADAS"), dedicated automotive microcontrollers, MEMS automotive sensors and power drivers, including SiC devices for hybrid and electric cars. The products designed and manufactured specifically for automotive applications are complemented by a large range of "automotive grade" standard products, both tested and guaranteed to perform under stringent automotive environmental conditions.

On top of the product design R&D spending, our principal investment and resource allocation decisions in the semiconductor business area are for expenditures on technology R&D as well as capital investments in front-end and back-end manufacturing facilities, which are planned at the corporate level; therefore, our product groups share common R&D for process technology and manufacturing capacity for some of their products.

Our reportable segments are as follows:

- Automotive and Discrete Group (ADG), comprised of dedicated automotive integrated circuits ("ICs"), and discrete and power transistor products.
- · Analog, MEMS and Sensors Group (AMS), comprised of analog, smart power, low power RF, MEMS sensors and actuators, and optical sensing solutions.
- Microcontrollers and Digital ICs Group (MDG), comprised of microcontrollers (general purpose and secure), memories (RF and EEPROM), and RF communications.

"Others" includes revenues from sales assembly services and other revenue. Operating income (loss) of Others includes items such as unused capacity charges, including reduced manufacturing activity due to COVID-19, impairment, restructuring charges and other related closure costs, management reorganization costs, phase out and start-up costs, and other unallocated expenses such as: strategic or special research and development programs, certain corporate-level operating expenses, patent claims and litigations, and other costs that are not allocated to product groups, as well as operating earnings of other products.

Below is a description of our main categories of products.

#### Automotive and Discrete Group (ADG)

Dedicated Automotive ICs

We are a top automotive semiconductor vendor supplying solutions to leading suppliers of carmakers worldwide. We combine an unparalleled platform of advanced technologies with an unswerving commitment to quality, and a thorough understanding of the automotive market gained through close collaboration with leading customers. Our automotive-solutions portfolio covers all key application areas in the car: Powertrain, Chassis, Safety and Security, including ADAS, Body Electronics, Infotainment and Connectivity.

For Powertrain, we provide silicon solutions for the full range of engine-management systems: from motorbikes and scooters to the most advanced drive-by-wire solutions. Developments in engine management

are driven by both government emission regulations and energy concerns. We continue to work closely with major automotive OEMs, as we have for decades, to reduce fuel consumption and CO<sub>2</sub> emission via advanced technologies such as Variable Valve Timing and Gasoline Direct Injection and Battery Management for hybrid and full electric cars. Due to the cooperation with certain leading car makers, our microcontrollers are currently in the electrical engines of leading hybrid and electric cars. The first automotive microcontrollers to feature multiple Arm® Cortex®-R52 cores with on-chip non-volatile memory for safe, real-time performance, our Stellar microcontrollers provide advanced connectivity and security features to support the transition to service-oriented automotive system architectures.

With regards to Chassis, we provide a broad range of solutions to increase vehicle-occupant safety, including devices for airbags, anti-lock brakes, traction control, electric power steering and active suspension systems. We are a leading supplier of chips for automotive airbags and anti-lock braking systems, which currently represent the largest portion of automotive safety electronics.

We are a leading player in ADAS that help avoid or minimize the severity of traffic accidents. We manufacture leading-edge products for vision and radar (both short range 24GHz and long range 77GHz) based systems that assist the driver with capabilities such as lane-departure warning, forward-collision warning, vision/radar fusion and pedestrian detection including specific modular solutions for the mass market. We are also working on our first-generation modular offering for V2X (vehicle-to-vehicle and vehicle-to-infrastructure) as society progresses toward semi- and fully-autonomous vehicles.

Today's car body electronics involve a myriad of inter-networked electronic systems, from dome and door-zone controls, HVAC (heating, ventilation, and air-conditioning) systems, and seat controls to wiper and lighting controls. The penetration of electronics in the car is increasing all the time, as are the requirements for improved reliability and diagnostic capabilities. We address the concept of the "smart" junction box, which is an intelligent power and switching center for the vehicle that integrates functions and features from exterior and cabin lighting to wipers, with a comprehensive architecture that consists of upgradable hardware and software modules. With our proprietary VIPower silicon technology and thorough application knowledge, we have become a market leader in automotive lighting electronics, offering solutions for both exterior and interior lighting, from incandescent bulbs to LED- or HID-based systems.

Our car infotainment and navigation portfolio includes complete turnkey solutions for digital radio, navigation and telematics, and wireless connectivity in the car. We have leveraged our experience of more than 30 years, at the forefront of AM/FM radio technology to lead in digital radio. We produce all of the semiconductor components for car radios — from the tuner through the baseband to multimedia processing and playback. Our car-radio systems are optimized for harsh reception environments and minimized power consumption. Our portfolio of products for navigation also includes a family of System-on-Chip solutions capable of receiving signals from multiple satellite navigation systems, including BeiDou, GPS, GALILEO, GLONASS, QZSS and NavIC, to improve user position accuracy and navigation in poor satellite visibility conditions, such as in urban canyons.

#### Discrete and Power Transistor

Discrete and power transistors families include both power products and protection devices serving our strategic end markets (automotive, industrial, personal electronics and communications equipment computers and peripherals)

Leading-edge power technologies for both high-voltage and low-voltage applications combined with a full package range and innovative die bonding technologies exemplify our innovation in power transistors. Our portfolio includes MOSFETs ranging from 35V to 1800 V, SiC MOSFETs featuring the industry's highest temperature rating of 200 °C, IGBTs with breakdown voltages ranging from 350 V to 1300 V and a wide range of power bipolar transistors. Following our acquisition of a majority stake in GaN innovator Exagan in 2020, we expect to accelerate our offer to include a full range of GaN-based power device solutions for all markets. Our portfolio of protection devices supports all industry requirements for electrical overstress and electrostatic surge protection, lightning surge protection and automotive protection. Our protection devices have passed all certifications, meeting or exceeding international protection standards for electrical hazards on electronics boards found in the demanding automotive, industrial, personal electronics and communications equipment, computers and peripherals.

## Analog, MEMS and Sensors Group (AMS)

Analog, Smart Power, Low Power RF, Touch Screen Controllers

We develop a broad range of innovative power, smart power and analog ICs, to serve markets such as those relating to smart grid, cloud computing, automation, personal electronics and power conversion. These product families include: Industrial ASICs and ASSPs, covering motion control, power and energy management and automation; General Purpose Analog Products, which includes high end analog front-end products as well as RF ICs; and Custom Analog ICs, mainly power management ICs ("PMIC") for data storage, servers and portable power management devices. In 2020, we further deployed wireless charging solutions and enlarged our offering to cover low to high power products and across personal electronics applications from smartphones to wearables. We also expanded our presence in the automotive and industrial markets with our Galvanic Isolated Gate Drivers (also known as STGAP Family).

We also develop a comprehensive range of operational amplifiers (both low-voltage and high-voltage), comparators and current-sense amplifiers. In addition to our portfolio of mainstream operational amplifiers and comparators, we offer specific products for healthcare, industrial, and automotive applications, as well as a range of high-performance products specifically designed to meet the strict requirements of the wearable market.

In 2020, we introduced our MasterGaN® innovative solution, integrating a silicon driver and GaN power transistors in a single package. Our connectivity ICs range from wireline to wireless solutions. We optimize our products for reliability of the communication channel and low power consumption. For wireline communication, we offer a complete family of transceivers compatible with different protocol standards used in the industry (PRIME, Meters and More, IEC 61334-5-1, CAN and others). Our ultra-low power wireless solutions include Sub-1GHz RF chips (aka SPIRIT Family), latest generation Bluetooth Low Energy (aka BlueNRG Family). We sell to OEMs and Mass Market both Standard and Dedicated RF solutions, either chips or certified modules.

Our FingerTip family of Touch Screen Controllers provides true multi-touch capability, supporting unlimited simultaneous touches, and it is optimized for the extreme low power consumption. FingerTip also enhances multi-touch actions such as pinch-to-zoom, supports stylus operations and is compatible with both flat and curved display panel.

#### MEMS Sensors and Actuators

Our MEMS portfolio includes both Sensors and Actuators. We sell our MEMS products in a broad range of application fields, including mobile, gaming, computer, automotive, industrial, healthcare and IoT.

MEMS Sensors include Motion MEMS (accelerometers, gyroscopes, magnetic sensors), Environmental Sensors (pressure, humidity and temperature) and Microphones. We offer a unique sensor portfolio, from discrete to fully-integrated solutions, high performance sensor fusion to improve the accuracy of multi-axis sensor systems in order to enable highly-demanding applications, such as indoor navigation and location-based services, optical image stabilization and high-level quality products.

MEMS Actuators include: (i) Thermal and Piezoelectric Actuators for 2D and 3D Printing in Consumer, Commercial and Industrial market applications; (ii) Piezoelectric Actuators for applications such as smartphone camera Auto Focus and MEMS loudspeakers; and (iii) Piezoelectric, Electrostatic and Electromagnetic Actuators for emerging VR/AR applications, ultra-low power depth cameras and LIDAR Systems for assisted Smart Driving.

## Optical Sensing Solutions

We also have a broad portfolio of optical sensing solutions based on ST proprietary differentiated technologies such as FlightSense<sup>TM</sup>, addressing various markets, and in particular the fast growing 3D sensing consumer and automotive applications. Our optical sensing solutions are composed of both specialized components developed for dedicated customers' systems; and full optical sense and illumination system solutions targeting multiple customers.

## Microcontrollers and Digital ICs Group (MDG)

Microcontrollers, Memories & Secure MCUs

Our general purpose microcontroller (MCU) product portfolio largely contains families of products based on 32-bit ARM®-based Cortex®-M0, -M0+, -M3, -M4 and -M7 cores. In 2020, we introduced our STM32L5 series for the Mass Market. STM32L5 is based on the Cortex®-M33 with the ARM® TrustZone® enabling a more secure IoT, and obtained PSA-level-2 (Platform Security Architecture) security certification. For each product family, a broad selection of features is available with respect to MCU performance, ultra-low-power, memory size, peripherals, and packaging. Numerous dedicated features such as our TouchGFX® advanced 3D graphics, dedicated peripherals for industrial motor controls, security features, and low-power wireless connectivity. Our microprocessors (MPU) product line targeting the industrial market is based on 32-bit ARM®-based® Cortex®-A7 Core, complemented by an integrated Cortex®-M4 and a dedicated Linux distribution. In 2020, we introduced an 800MHz MPU addressing high-end industrial applications. We continue to offer a well-established family of 8-bit microcontrollers, using ST proprietary core architecture targeting consumer, automotive and ultra-low power simpler applications.

In 2020, we significantly strengthened our STM32 Wireless MCU portfolio, introducing several new products, including our STM32WB Bluetooth products with BLE 5.2 support and our STM32WL, the only SoC ICs featured to connect devices to LoRa® (long range)-based Low-Power Wide-Area Networks ("LPWANs"), targeting metering and asset tracking applications. In addition, we acquired three companies in the Wireless IoT space, namely (i) Riot Micro for their advanced low-power Cellular IoT Modem and RF Front-End; (ii) BeSpoon for their low-power industrial UWB Modem and RF Front-End; and (iii) SOMOS Semiconductor ("SOMOS") for their Cellular IoT RF Front-End-Module expertise. We expect these acquisitions to uniquely position us to offer a complete wireless MCU portfolio for many IoT and industrial applications.

The STM32 family based on the ARM® Cortex®-M and -A processors are designed to offer significant degrees of freedom to microcontroller and microprocessors users. The product range combines very high performance, real-time capabilities, digital signal processing, and low-power, low-voltage operation, while maintaining full integration and ease of development.

We offer an unparalleled range of STM32 devices, accompanied by a vast choice of tools and software including support for Industrial Safety Standard IEC 61508 SIL2/3, Human Machine Interface ("HMI"). We have extended HMI to Alexa voice-command with an Amazon-qualified reference design. Our dedicated Cube-AI toolbox for Artificial Intelligence includes Machine learning and Neural Networks. This comprehensive portfolio makes our STM32 an ideal choice for enabling ever smarter objects for an increasingly broad range of applications.

We offer leading products for secure applications in traditional smartcard applications and embedded security applications. Throughout our 20+ year presence in the smartcard security industry, we have supplied the market's most advanced technologies and solutions, with a continuous focus on innovation and the highest levels of security certification. Our expertise in security is key to our leadership in the mobile communications, banking, digital identity, IoT security, pay-TV and transport fields. We are the leading supplier for the new Embedded SIM market and we are scaling-up in secure mobile transactions using Near Field Communication ("NFC") for mobile phones, trusted computing, brand protection and security for IoT devices. Our secure microcontroller product portfolio offers compliance with the latest security standards up to Common Criteria EAL6+, ICAO, and TCG1.2. Our secure microcontrollers cover a complete range of interfaces for both contact and contactless communication, including ISO 7816, ISO 14443 Type A & B, NFC, USB, SPI and I<sup>2</sup>C.

Our secure-microcontroller platforms rely on a highly secure architecture combined with leading-edge CPUs, such as ARM®'s SC300 and SC000, and ST proprietary advanced embedded non-volatile memory technologies such as 40 nm embedded Flash and 80 nm embedded EEPROM technologies.

Our wide range of small density serial non-volatile memories has among the highest industry performance. The serial EEPROM family ranges from 1 Kbit to 4 Mbits and offers the most common serial interfaces to facilitate adoption: I<sup>2</sup>C, SPI and Microwire. Our wide range of products are also automotive compliant. Very small packages options are available for applications where space is critical, such as in camera modules for consumer and mobile devices.

We offer RF memory and transceiver products that are key for logistic and retail applications and are based on the largest industry standard for short range High-Frequency RFID ISO 14443 and 15693. The

products are compatible with all NFC technology standards, as defined by the NFC Forum, where ST plays a key role, including the latest NFC type 5. We offer one of the most comprehensive portfolios, which includes NFC/RFID readers, Dynamic NFC/RFID tags, also known as Dual Interface NFC/RFID tags, and Standalone NFC/RFID tags. We also offer RFID Readers operating in the UHF bands for longer range logistics operation.

#### RF Communications

We offer RF, digital and mixed-signal ASICs, which are based on our proprietary FD-SOI, RF-SOI, and SiGe technologies, as well as foundry-based FinFET technologies, for 4G-5G and Satellite wireless communications RF Front-End Modules, and wired communications infrastructure and Satellite terminals.

We also use our proprietary FD-SOI, RF-SOI, and SiGe technologies to provide RF and mmWave components, based on our know-how in analog and digital beamforming design techniques, to address Massive MIMO Antenna Architectures

Our unique combination of differentiated Silicon technologies and design expertise is particularly pertinent to address the markets for satellite constellations and user terminals, 5G infrastructure RF Front-End, and transceivers for very-short-range ultra-low-power 60GHz multi-Gigabit/second links.

## Alliances with Customers and Industry Partnerships

We believe that alliances with customers and industry partnerships are critical to our success in the semiconductor industry. Customer alliances provide us with valuable systems and application know-how and access to markets for key products, while allowing our customers to gain access to our process technologies and manufacturing infrastructure. We are actively working to expand the number of our customer alliances, targeting key global OEMs as well as innovative customers and partners around the globe.

From time to time we collaborate with other semiconductor industry companies, research organizations, universities, and suppliers to further our R&D efforts. Such collaboration provides us with a number of important benefits, including the sharing of costs, reductions in our own capital requirements, acquisitions of technical know-how and access to additional production capacities.

## **Customers and Applications**

We design, develop, manufacture and market thousands of products that we sell to over 100,000 customers. We emphasize balance in our product portfolio, in the applications we serve and in the regional markets we address. Our major customers include Apple, Robert Bosch, Continental, Hewlett-Packard, Huawei, Intel-Mobileye, Nintendo, Samsung, Seagate and Tesla. In addition, our broad portfolio helps foster close relationships with customers, which provides opportunities to enable application solutions and to supply such customers' requirements for multiple products, including analog, digital, and power products applications. We also sell our products through distributors and retailers.

## Sales, Marketing and Distribution

Our sales and marketing is organized by a combination of country/area coverage and key accounts coverage with the primary objective of accelerating sales growth and gaining market share, particularly with regards to: strengthening the effectiveness of the development of our global and major local accounts; boosting demand creation through an enhanced focus on geographical coverage with strong technical expertise, supported in the mass market by our distribution channel and local initiatives; and establishing regional sales and marketing teams that are fully aligned with our strategic end-markets: automotive, industrial, personal electronics and communications equipment, computers and peripherals.

We have three regional sales organizations reporting to a global head of Sales & Marketing: Americas; Asia Pacific; and EMEA. Our regional sales organizations have a similar structure to enhance coordination in global strategy alignment and go-to-market activities. The sales and marketing teams are strongly focused on profitable revenue growth and business performance as well as on fostering demand, expanding the customer base, maximizing market share, developing new product-roadmaps and providing the best technical and application support in the field for our customers. The sales and marketing activities are supported by sales engineers, system marketing, product marketing, application labs, field application engineers and quality engineers.

We engage distributors and sales representatives to distribute and promote our products around the world. Typically, distributors handle a wide variety of products, including those that compete with ours. Our distributors have a dual role, in that they assist in fulfilling the demand of our customers by servicing their orders, while also supporting the creation of product demand and business development. Most of our sales to distributors are made under specific agreements allowing for price protection and stock rotation for unsold merchandise. Sales representatives, on the other hand, generally do not offer products that compete directly with our products, but may carry complementary items manufactured by others. Sales representatives do not maintain a product inventory and their customers place large quantity orders directly with us and are referred to distributors for smaller orders.

At the request of certain customers, we also sell and deliver our products to electronics manufacturing services ("EMS") companies, which, on a contractual basis with our customers, incorporate our products into the application specific products they manufacture for our customers. We also sell products to original design manufacturers ("ODM"). ODMs manufacture products for our customers much like EMS companies do, but they also design applications for our customers, and in doing so themselves select the products and suppliers that they wish to purchase from.

In furtherance of our strong commitment to quality, our sales organizations include personnel dedicated to close monitoring and resolution of quality related issues.

For a breakdown of net revenues by segment and geographic region for the last three fiscal years, see "Item 5. Operating and Financial Review and Prospects".

#### Research and Development

Since our formation, we have maintained a solid commitment to innovation. About one-fifth of our employees work in R&D on product design/development and technology and, in 2020, we spent approximately 15.1% of our net revenues on R&D. Our innovations in semiconductor technology as well as in hardware and software contribute to the creation of successful products that generate value for us and our customers. Our complete design platforms, including a large selection of IP and silicon-proven models and design rules, enable the fast development of products designed to meet customer expectations in terms of reliability, quality, competitiveness in price and time-to-market. Through our R&D efforts, we contribute to making our customers' products more efficient, more appealing, more reliable and safer. Our technology R&D strategy is based on the development of differentiated technologies, allowing for a unique offer in terms of new products and enabling new applications opportunities.

We draw on a rich pool of chip fabrication technologies, including advanced CMOS, FD-SOI, RF-SOI, optical sensing, embedded non-volatile memories, mixed-signal, analog, MEMS, smart power, SiC and GaN processes. This is well embedded in our strong packaging technologies portfolio such as high pin count BGA, Wafer level packaging, highly integrated sensor packages and leadframe package power products. We combine both front-end and back-end manufacturing and technology R&D under the same organization to ensure a smooth flow of information between our R&D and manufacturing organizations. We leverage significant synergies and shared activities between our product groups to cross-fertilize them. We also use silicon foundries, especially for advanced CMOS beyond the 28 nm node that we do not plan to manufacture nor develop internally.

We have advanced R&D centers which offer us a significant advantage in quickly and cost effectively introducing products. Furthermore, we have established a strong culture of partnerships and through the years have created a network of strategic collaborations with key customers, suppliers, competitors, and leading universities and research institutes around the world. See "Item 4. Information on the Company — Alliances with Customers and Industry Partnerships". We also play leadership roles in numerous projects running under the European Union's IST (Information Society Technologies) programs. We also participate in certain R&D programs established by the EU, individual countries and local authorities in Europe (primarily in France and Italy). See "Item 4. Information on the Company — Public Funding".

We believe that market driven R&D based on leading-edge products and technologies is critical to our success. We devote significant effort to R&D because we believe such investment can be leveraged into competitive advantages. New developments in semiconductor technology can make end products significantly cheaper, smaller, faster, more reliable and embedded than their predecessors, with differentiated functionalities. They can enable significant value creation opportunities with their timely appearance on the market. The total

amount of our R&D expenses in the past three fiscal years was \$1,548 million, \$1,498 million and \$1,398 million in 2020, 2019 and 2018, respectively. For more information on our R&D expenses, see "Item 5. Operating and Financial Review and Prospects — Results of Operations — Research and Development Expenses".

## Property, Plants and Equipment

We currently operate 13 main manufacturing sites around the world. The table below sets forth certain information with respect to our current manufacturing facilities, products and technologies. Front-end manufacturing facilities are fabs and back-end facilities are assembly, packaging and final testing plants.

Location	Products	Technologies
Front-end facilities(1) Agrate, Italy(2)	Smart Power and analog ICs and application-specific products, MEMS	Fab 1: 200 mm, BCD, research and development and manufacturing on MEMS Fab 2: 200 mm, research and development and manufacturing on Advanced BCD
Ang Mo Kio, Singapore	Analog, microcontrollers, power transistors, commodity products, non-volatile memories, and application-specific products	Fab 1: 150 mm, Bipolar, Power metal-on silicon oxide semiconductor process technology ("MOS") and BCD, EEPROM, Smartcard, CMOS logic, Microfluidics, MEMS, Bi-CMOS Fab 2: 200 mm, BCD, Advanced BCD, VIPpowerTM and Power MOS; EEPROM, embedded non-volatile memories
Catania, Italy	Power transistors, Smart Power and analog ICs and application-specific products, MEMS	Fab 1: 150 mm, research and development and manufacturing of SiC power devices and RF GaN Fab 2: 200 mm, advanced BCD, research and development and manufacturing on Power MOS, VIPpowerTM
Crolles, France(3)	Application-specific products and leading edge logic products; non-volatile memories and microcontrollers; image sensors	Fab 1: 200 mm, research and development and manufacturing on CMOS and Bi- CMOS, Analog/RF and Optical Sensing Fab 2: 300 mm, research and development and manufacturing on advanced CMOS Bulk, Bi-CMOS and FD-SOI, Optical Sensing, Analog/RF, embedded non- volatile memories
Rousset, France	Standard and secure microcontrollers, application-specific products	Fab: 200 mm, manufacturing on CMOS, embedded non-volatile memories, EEPROM and Analog/RF
Tours, France	Protection thyristors, diodes and ASDTM power transistors, IPADTM	Fab 1: 150 mm Triacs, Power Schottky diodes and Fab 2: 200 mm research and development and manufacturing on IPD, rectifiers; research and development and manufacturing on Power GaN
Back-end facilities Bouskoura, Morocco	Discrete and standard products, micro modules, RF and subsystems	Power, Power Automotive, SOIC, Micromodules
Calamba, Philippines	Application-specific products and standard products, MEMS	Ball and Land Grid Array, OFN, Micromodules, Optical Sensors Module
Kirkop, Malta	Application-specific products, MEMS, microcontrollers	Ball and Land Grid Array, QFP, FC Ball Grid Array
**		21.2
Muar, Malaysia	Application-specific and standard products, microcontrollers	Ball Grid Array, Power Automotive, SOIC, QFP
	27	

Location	Products	Technologies
Rennes	Application specific products	Various technologies
Shenzhen, China(4)	Non-volatile memories, optical packages, discrete, application-specific and standard products	SOIC, Power, Power Automotive, Power Modules, Optical Sensors
Toa Pavoh, Singapore	Packaging research and development, EWS	

- In addition to the main facilities included in this table, SiC substrates are starting to be manufactured at STMicroelectronics Silicon Carbide A.B., in Sweden (formerly Norstel A.B.). We expect additional small scale production to occur in 2021.
- Our new 300 mm fab to support next generation mixed signal, IGBT and power technologies is under construction. The building and clean room are expected to be completed in 2021. Our 300 mm fab is expanding capacity to support production ramp up on our main runner technologies. Jointly owned with SHIC, a subsidiary of Shenzhen Electronics Group.

At December 31, 2020, our front-end facilities had a total maximum capacity of approximately 123,137 200 mm equivalent wafer starts per week. The number of wafer starts per week varies from facility to facility and from period to period as a result of changes in product mix.

We own all of our manufacturing facilities, but certain facilities (Muar, Malaysia; Shenzhen, China; and Toa Payoh and Ang Mo Kio, Singapore) are built on land subject to long-term leases.

We have historically subcontracted a portion of total manufacturing volumes to external suppliers. In 2020, we subcontracted approximately 24% of the value of our total silicon production to external foundries. Our plan is to continue sourcing silicon from external foundries to give us flexibility in supporting our growth.

At December 31, 2020, we had approximately \$916 million in outstanding commitments for purchases of equipment and other assets for delivery in 2021. In 2020, our capital spending, net of proceeds, was \$1,279 million compared to \$1,174 million in 2019. In the 2018-2020 period the ratio of capital investment spending to net revenues was about 12.7%. For more information, see "Item 5. Operating and Financial Review and Prospects — Financial Outlook: Capital Investment".

## Intellectual Property (IP)

Our success depends in part on our ability to obtain patents, licenses and other IP rights to protect our proprietary technologies and processes. IP rights that apply to our various products include patents, copyrights, trade secrets, trademarks and mask work rights. We currently own approximately 18,000 patents and pending patent applications, corresponding to approximately 9,600 patent families (each patent family containing all patents originating from the same invention), including 557 original new patent applications filed in 2020.

We believe that our IP represents valuable assets. We rely on various intellectual property laws, confidentiality procedures and contractual provisions to protect our IP assets and enforce our IP rights. To optimize the value of our IP assets, we have engaged in licensing our design technology and other IP, including patents, when consistent with our competitive position and our customers interests. We have also entered into broad-scope cross-licenses and other agreements which enable us to design, manufacture and sell semiconductor products using the IP rights of third parties and/or operating within the scope of IP rights owned by third parties.

From time to time, we are involved in IP litigation and infringement claims. See Note 27 to our Consolidated Financial Statements and Item 3. "Key Information — Risk Factors". Regardless of the validity or the successful assertion of such claims, we may incur significant costs with respect to the defense thereof, which could have a material adverse effect on our results of operations, cash flow or financial condition

## Backlog

Our sales are made primarily pursuant to standard purchase orders that are generally booked from one to twelve months in advance of delivery. Quantities actually purchased by customers, as well as prices, are subject to variations between booking and delivery and, in some cases, to cancellation due to changes in customer needs or industry conditions. During periods of economic slowdown and/or industry overcapacity and/or declining selling prices, customer orders are not generally made far in advance of the scheduled shipment date. Such reduced lead time can diminish management's ability to forecast production levels and revenues. When the

economy rebounds, our customers may strongly increase their demands, which can result in capacity constraints due to a time lag when matching manufacturing capacity with such demand.

In addition, our sales are affected by seasonality, with the first quarter generally showing lowest revenue levels in the year, and the third or fourth quarter historically generating higher amounts of revenues partly as a result of the seasonal dynamics for smartphone applications dynamics

We also sell certain products to key customers pursuant to frame contracts. Frame contracts are annual contracts with customers setting forth quantities and prices on specific products that may be ordered in the future. These contracts allow us to schedule production capacity in advance and allow customers to manage their inventory levels consistent with just-in-time principles while shortening the cycle times required to produce ordered products. Orders under frame contracts are also subject to a high degree of volatility, because they reflect expected market conditions which may or may not materialize. Thus, they are subject to risks of price reduction, order cancellation and modifications as to quantities actually ordered resulting in inventory build-ups.

Furthermore, developing industry trends, including customers' use of outsourcing and their deployment of new and revised supply chain models, may reduce our ability to forecast changes in customer demand and may increase our financial requirements in terms of capital expenditures and inventory levels.

We entered 2020 with a backlog higher than we had entering 2019. For 2021, we entered the year with a backlog higher than what we had entering 2020.

## Competition

Markets for our products are intensely competitive. We compete with major international semiconductor companies and while only a few companies compete with us in all of our product lines, we face significant competition from each of them. Smaller niche companies are also increasing their participation in the semiconductor market, and semiconductor foundry companies have expanded significantly, particularly in Asia. Competitors include manufacturers of standard semiconductors, ASICs and fully customized ICs, including both chip and board-level products, as well as customers who develop their own IC products and foundry operations. Some of our competitors are also our customers or suppliers. We compete in different product lines to various degrees on the basis of price, technical performance, product features, product system compatibility, customized design, availability, quality and sales and technical support. In particular, standard products may involve greater risk of competitive pricing, inventory imbalances and severe market fluctuations than differentiated products. Our ability to compete successfully depends on factors both within and outside our control, including successful and timely development of new products and manufacturing processes, product performance and quality, manufacturing yields and product availability, customer service, pricing, industry trends and general economic trends.

The semiconductor industry is characterized by the high costs associated with developing marketable products and manufacturing technologies as well as high levels of investment in production capabilities. As a result, the semiconductor industry has experienced, and is expected to continue to experience, significant vertical and horizontal consolidation among our suppliers, competitors and customers, which could lead to erosion of our market share, impact our capacity to compete and require us to restructure our operations. See Item 3. "Key Information — Risk Factors".

#### Organizational Structure and History

We are organized in a matrix structure with geographic regions interacting with product lines, both supported by shared technology and manufacturing operations and by central functions, designed to enable us to be closer to our customers and to facilitate communication among the R&D, production, marketing and sales organizations.

While STMicroelectronics N.V. is the parent company, we conduct our global business through STMicroelectronics International N.V. and also conduct our operations through service activities from our subsidiaries. We provide certain administrative, human resources, legal, treasury, strategy, manufacturing, marketing and other overhead services to our consolidated subsidiaries pursuant to service agreements for which we recover the cost.

The following table lists our consolidated subsidiaries and our percentage of ownership as at December 31, 2020:

Legal Seat	Name	Percentage of Ownership (Direct or Indirect)
Australia, Sydney	STMicroelectronics PTY Ltd	100
Austria, Vienna	STMicroelectronics Austria GmbH	100
Belgium, Diegem	Proton World International N.V.	100
Brazil, Sao Paulo	South America Comércio de Cartões Inteligentes Ltda	100
Brazil, Sao Paulo	STMicroelectronics Ltda	100
Canada, Ottawa	STMicroelectronics (Canada), Inc.	100
China, Beijing	STMicroelectronics (Canada), Inc.  STMicroelectronics (Beijing) R&D Co. Ltd	100
China, Shanghai	STMicroelectronics (Shanghai) Co. Ltd	100
China, Shanghai	STMicroelectronics (China) Investment Co. Ltd	100
China, Shenzhen	Shenzhen STS Microelectronics Co. Ltd	60
China, Shenzhen	STMicroelectronics (Shenzhen) R&D Co. Ltd	100
Czech Republic, Prague		100
	STMicroelectronics Design and Application s.r.o. STMicroelectronics A/S	100
Denmark, Aarhus	STMicroelectronics A/S STMicroelectronics Egypt SSC	100
Egypt, Cairo	271	
Finland, Nummela	STMicroelectronics Finland OY STMicroelectronics (Crolles 2) SAS	100 100
France, Cronship		
France, Grenoble	STMicroelectronics (Alps) SAS	100
France, Grenoble	Exagan SAS	80
France, Grenoble	STMicroelectronics (Grenoble 2) SAS	100
France, Le Mans	STMicroelectronics (Grand Ouest) SAS	100
France, Montrouge	STMicroelectronics S.A.	100
France, Le Bourget-du-Lac	BeSpoon SAS	100
France, Rousset	STMicroelectronics (Rousset) SAS	100
France, Tours	STMicroelectronics (Tours) SAS	100
Germany, Aschheim-Dornach	STMicroelectronics GmbH	100
Germany, Aschheim-Dornach	STMicroelectronics Application GmbH	100
Hong Kong	STMicroelectronics Ltd	100
India, New Delhi	ST-Ericsson India Pvt Ltd	100
India, Noida	STMicroelectronics Pvt Ltd	100
Israel, Netanya	STMicroelectronics Limited	100
Italy, Agrate Brianza	STMicroelectronics S.r.l.	100
Italy, Naples	STMicroelectronics Services S.r.l.	100
Japan, Tokyo	STMicroelectronics KK	100
Malaysia, Kuala Lumpur	STMicroelectronics Marketing SDN BHD	100
Malaysia, Muar	STMicroelectronics SDN BHD	100
Malta, Kirkop	STMicroelectronics (Malta) Ltd	100
Mexico, Guadalajara	STMicroelectronics Marketing, S. de R.L. de C.V.	100
Morocco, Casablanca	Electronic Holding S.A.	100
Morocco, Casablanca	STMicroelectronics S.A.S. (Maroc)	100
The Netherlands, Amsterdam	STMicroelectronics Finance B.V.	100
The Netherlands, Amsterdam	STMicroelectronics Finance II N.V.	100
The Netherlands, Amsterdam	STMicroelectronics International N.V.	100
Philippines, Calamba	STMicroelectronics, Inc.	100
Philippines, Calamba	Mountain Drive Property, Inc.	40
Singapore, Ang Mo Kio	STMicroelectronics Asia Pacific Pte Ltd	100
Singapore, Ang Mo Kio	STMicroelectronics Pte Ltd	100
Slovenia, Ljubljana	STMicroelectronics d.o.o	100
Spain, Barcelona	STMicroelectronics Iberia S.A.	100
Sweden, Jönköping	STMicroelectronics Software A.B.	100
Sweden, Kista	STMicroelectronics A.B.	100
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		Percentage of Ownership
Legal Seat	Name	(Direct or Indirect)
Sweden, Norrkoping	STMicroelectronics Silicon Carbide A.B.	100
Switzerland, Geneva	STMicroelectronics S.A.	100
Switzerland, Geneva	INCARD S.A., en liquidation	100
Taiwan, Taipei City	Exagan Taiwan Ltd.	80
Thailand, Bangkok	STMicroelectronics (Thailand) Ltd	100
United Kingdom, Bristol	STMicroelectronics (Research & Development) Limited	100
United Kingdom, Marlow	STMicroelectronics Limited	100
United Kingdom, Marlow	Synad Technologies Limited	100
United States, Coppell	STMicroelectronics Software Inc.	100
United States, Coppell	STMicroelectronics Inc.	100
United States, Coppell	Faroudja Laboratories Inc.	100
United States, Coppell	STMicroelectronics (North America) Holding, Inc.	100

#### **Public Funding**

We receive public funding mainly from French, Italian and EU governmental entities. Such funding is generally provided to encourage R&D activities, industrialization and local economic development. Public funding in France, Italy and Europe generally is open to all companies, regardless of their ownership structure or country of incorporation. The conditions for the receipt of government funding may include eligibility restrictions, approval by EU authorities, annual budget appropriations, compliance with EU regulations, royalties or contingent return provisions as well as specifications regarding objectives and results. The approval process for such funding may be quite long, up to several years. Certain specific contracts require compliance with extensive regulatory requirements and set forth certain conditions relating to the funded programs. There could be penalties if these objectives are not fulfilled. Other contracts contain penalties for late deliveries or for breach of contract, which may result in repayment obligations. Our funding programs are classified under three general categories: funding for research and development activities, capital investment for pilot lines and loans. We also benefit from tax credits for R&D activities in several countries which are generally available to all companies. See "Item 5. Operating and Financial Review and Prospects — Results of Operations" and the Notes to our Consolidated Financial Statements.

The main programs for R&D in which we are involved include: (i) Pan-European program on Nanoelectronics Technology and Applications (PENTA); (ii) EU R&D projects within Horizon 2020 (the European Union's research and innovation framework); (iii) Electronic Components and Systems for European Leadership (ECSEL) initiative, which combines all electronics related R&D activities and is operated by joint undertakings formed by the European Union, certain member states and industry; and (iv) national or regional programs for R&D and for industrialization in the electronics industries involving many companies and laboratories. The pan- European programs cover a period of several years, while national or regional programs in France and Italy are subject mostly to annual budget appropriation.

In our role as Coordinator and Project Leader of Nano2017, we had been allocated an overall funding budget of about &400 million for the period 2013-2018, which was subject to the conclusion of agreements every year with the public authorities and linked to the achievement of technical parameters and objectives. A portion of the Nano2017 program was subject to a payback clause ("financial return"), depending on the future accumulated sales for certain products within the scope of the funded program in the period from 2018 to 2023. The financial return corresponded to the payment in 2024 of the original funded amount (&37 million) multiplied by a rate from 0% to 250%, depending on the cumulative amount of future sales. As such, the criteria for recognizing the grant income are not met. As at December 31, 2020, an amount of \$42 million was reported as a liability in the consolidated balance sheet, of which \$37 million related to the Nano2017 program. We believe the Nano2017 R&D program, which expired in April 2018, has strengthened our leadership in key technologies such as FD-SOI (low-power, high-performance processing), RF-SOI, optical sensors and embedded non-volatile memories. These technologies are at the core of our digital portfolio which includes, among others, microcontrollers, optical sensing, analog and mixed signal, digital automotive and ASICs.

In December 2018, the European Commission announced the approval of Important Projects of Common European Interest ("IPCEI"), a Pan-European project initiated to foster research and innovation in microelectronics to be funded by Germany, France, Italy and the U.K. We are participating in IPCEI for the

period 2018 until 2022 in France and until 2024 in Italy. In 2020 we also recognized €187 million (including a catch up attributable to 2018, 2019 and 2020) of grants related to our participation in IPCEI in Italy and €67 million related to our participation in IPCEI in the national and Horizon 2020 program in France.

#### Supplier

We use three primary critical types of suppliers in our business: (i) equipment suppliers, (ii) material suppliers and (iii) external silicon foundries and back-end subcontractors. We also purchase third party licensed technology from a limited number of providers.

In the front-end process, we use steppers, scanners, tracking equipment, strippers, chemo-mechanical polishing equipment, cleaners, inspection equipment, etchers, physical and chemical vapor-deposition equipment, implanters, furnaces, testers, probers and other specialized equipment. The manufacturing tools that we use in the back-end process include bonders, burn-in ovens, testers and other specialized equipment. The quality and technology of equipment used in the IC manufacturing process defines the limits of our technology. Demand for increasingly smaller chip structures means that semiconductor producers must quickly incorporate the latest advances in process technology to remain competitive. Advances in process technology cannot occur without commensurate advances in equipment technology, and equipment toosts tend to increase as the equipment becomes more sophisticated.

Our manufacturing processes use many materials, including silicon and SiC wafers, lead frames, mold compound, ceramic packages and chemicals and gases. The prices of many of these materials are volatile due to the specificity of the market. We have therefore adopted a "multiple sourcing strategy" designed to protect us from the risk of price increases. The same strategy applies to supplies for the materials used by us to avoid potential material disruption of essential materials. Our "multiple sourcing strategy", our Financial Risk Monitoring as well as the robustness of our supply chain and strong partnership with suppliers are intended to mitigate these risks. See Item 3. "Key Information — Risk Factors".

Finally, we also use external subcontractors to outsource wafer manufacturing and assembly and testing of finished products. See "- Property, Plants and Equipment" above.

#### **Environmental Matters**

We are subject to a variety of environmental, health and safety laws and regulations in the jurisdictions where we operate. Such laws and regulations govern, among other things, the use, storage, discharge and disposal of chemicals and other hazardous substances, emissions and wastes, as well as the investigation and remediation of soil and ground water contamination. We are also required to obtain environmental permits, licenses and other forms of authorization, or give prior notification, in order to operate.

We adopt a rigorous approach to managing our business operations in an environmentally responsible way. Consistent with our sustainability strategy, we have established proactive environmental policies with respect to the handling of chemicals, emissions, waste disposals and other substances of concern from our manufacturing operations. We are certified to be in compliance with quality standard ISO 9001 on a Company-wide basis. We implement the highest standards across our manufacturing activities and supply chain. The majority of our sites are ISO 14001 certified and EMAS validated. Furthermore, all of our front-end manufacturing sites are ISO 50001 certified.

We believe that in 2020 our activities complied with then-applicable environmental regulations in all material respects. We have engaged outside consultants to audit all of our environmental activities and have created environmental management teams, information systems and training. We have also instituted environmental control procedures for processes used by us as well as our suppliers. In 2020, there were no material environmental claims made against us.

On December 9, 2020, we announced our goal to become carbon neutral by 2027. Our comprehensive roadmap to carbon neutrality includes two specific targets: compliance with the 1.5°C scenario defined at the Paris COP21 by 2025, which implies a 50% reduction of direct and indirect emissions compared to 2018, and the sourcing of 100% renewable energy by 2027.

## Item 5. Operating and Financial Review and Prospects

#### Overview

The following discussion should be read in conjunction with our Consolidated Financial Statements and Notes thereto included elsewhere in this Form 20-F. The following discussion contains statements of future expectations and other forward-looking statements within the meaning of Section 27A of the Securities Act of 1933, or Section 21E of the Securities Exchange Act of 1934, each as amended, particularly in the sections "— Critical Accounting Policies Using Significant Estimates", "— Business Outlook", "— Liquidity and Capital Resources" and "— Financial Outlook: Capital Investment". Our actual results may differ significantly from those projected in the forward-looking statements. For a discussion of factors that might cause future actual results to differ materially from our recent results or those projected in the forward-looking statements in addition to the factors set forth below, see "Cautionary Note Regarding Forward-Looking Statements" and Item 3. "Key Information — Risk Factors". We assume no obligation to update the forward-looking statements or such risk factors.

## **Critical Accounting Policies Using Significant Estimates**

The preparation of our Consolidated Financial Statements in accordance with U.S. GAAP requires us to make estimates and assumptions. The primary areas that require significant estimates and judgments by us include, but are not limited to:

- sales returns and allowances;
- inventory obsolescence reserves and normal manufacturing capacity thresholds to determine costs capitalized in inventory;
- recognition and measurement of loss contingencies;
- valuation at fair value of assets acquired, including intangibles, goodwill, investments and tangible assets, and liabilities assumed, including deferred and contingent consideration on business acquisitions;
- · annual and trigger-based impairment review of goodwill and intangible assets, as well as the assessment of events, which could trigger impairment testing on long-lived assets;
- assumptions used in measuring expected credit losses and impairment charges on financial assets;
- recognition and measurement of restructuring charges and other exit costs;
- assumptions used in assessing the number of awards expected to vest on stock-based compensation plans;
- assumptions used in calculating pension obligations and other long-term employee benefits;
- allocation between debt and equity of the various components of an issued, or settled, hybrid instrument and measurement at fair value of the liability component based on the income
  approach; and
- determination of the amount of tax expected to be paid and tax benefit expected to be received, including deferred income tax assets, valuation allowance and provisions for uncertain tax positions and claims.

We base the estimates and assumptions on historical experience and on various other factors such as market trends, market information used by market participants and the latest available business plans that we believe to be reasonable under the circumstances, the results of which form the basis for making judgments about the carrying values of assets and liabilities. The COVID-19 pandemic did not result in significant impacts on these estimates. While we regularly evaluate our estimates and assumptions, the actual results we experience could differ materially and adversely from our estimates.

We believe the following critical accounting policies require us to make significant judgments and estimates in the preparation of our Consolidated Financial Statements:

Revenue recognition. Arrangements with customers are considered contracts if all the following criteria are met: (a) parties have approved the contract and are committed to perform their respective obligations; (b) each party's rights regarding the goods or services to be transferred can be identified; (c) payment terms for the goods or services to be transferred can be identified; (d) the contract has commercial substance and (e) collectability of substantially all of the consideration is probable. We recognize revenue from products sold to a customer, including distributors, when we satisfy a performance obligation by transferring control over a product to the customer. In certain circumstances, we may enter into agreements that concern principally revenues from services, where the performance obligation is satisfied over time. The objective when allocating the transaction price is to allocate the transaction price to each performance obligation (or distinct good or service) in an amount that depicts the amount of consideration to which we expect to be entitled in exchange for transferring the promised goods or services to the customer. The payment terms typically range between 30 and 90 days. Certain of our customers require us to hold inventory as consignment in their hubs and only purchase inventory when they require it. Revenue for sales of such inventory is recognized when, at the customer's option, the products are withdrawn from the consignment and we satisfy a performance obligation by transferring control over a product to the customer.

Consistent with standard business practice in the semiconductor industry, price protection is granted to distribution customers on their existing inventory of our products to compensate them for declines in market prices. We accrue a provision for price protection based on a rolling historical price trend computed monthly as a percentage of gross distributor sales. This historical price trend represents differences in recent months between the invoiced price and the final price to the distributor, adjusted to accommodate a significant change in the selling price. The short outstanding inventory time, visibility into the inventory product pricing and long distributor pricing history have enabled us to reliably estimate price protection provisions at period-end. We record the accrued amounts as a deduction of "Net sales" in the consolidated statements of income at the time of the sale.

Our customers occasionally return our products for technical reasons. Our standard terms and conditions of sale provide that if we determine that products do not conform, we will repair or replace the non-conforming products, or issue a credit note or rebate of the purchase price. Quality returns are identified shortly after sale in customer quality control testing. Quality returns are usually associated with end-user customers, not with distribution channels. We record the accrued amounts as a deduction of "Net sales" in the consolidated statements of income, using historical and current conditions to form a reasonable estimate of future returns.

Our insurance policy relating to product liability covers third party physical damages and bodily injury, indirect financial damages as well as immaterial non-consequential damages caused by defective products. We record a provision for warranty costs as a charge against "Cost of sales" in the consolidated statements of income, based on historical trends of warranty costs incurred as a percentage of sales, which management had determined to be a reasonable estimate of the probable losses to be incurred for warranty claims in a period. Any potential warranty claims are subject to our determination that we are at fault for damages, and that such claims usually must be submitted within a short period of time following the date of sale. This warranty is given in lieu of all other warranties, conditions or terms expressed or implied by statute or common law. Our contractual terms and conditions typically limit our liability to the sales value of the products that gave rise to the claims.

In addition to product sales, we enter into arrangements with customers consisting in transferring licenses or related to license services. The revenue generated from these arrangements is reported on the line "Other revenues" of the consolidated statements of income. Other revenues also include patent royalty income, sale of scrap materials and manufacturing by-products.

Trade accounts receivable. With the adoption of ASC 326 new guidance starting January 1, 2020, we use a lifetime expected credit losses allowance for all trade receivables. The allowance includes reasonable assumptions about future credit trends. The historical loss rates are adjusted to reflect current and forward-looking information on macroeconomic factors affecting the ability of our customers to settle the receivables. Adjustments to the expected credit losses allowance are reported in the line "Selling, general and administrative" in the consolidated statements of income.

Business combinations and goodwill. The acquisition method of accounting applied to business combinations requires extensive use of estimates and judgments to allocate the purchase price to the fair value of acquired assets less assumed liabilities, net of related deferred tax impacts. If the assumptions and estimates used to allocate the purchase price are not correct or if business conditions change, purchase price adjustments or future asset impairment charges could be required. At December 31, 2020, the value of goodwill in our Consolidated Balance Sheet amounted to \$330 million.

Impairment of goodwill. Goodwill recognized in business combinations is not amortized but is tested for impairment annually as of the end of the third quarter, or more frequently if a triggering event indicating a possible impairment exists. Goodwill subject to potential impairment is tested at the reporting unit level. This impairment test determines whether the fair value of each reporting unit under which goodwill is allocated is lower than the total carrying amount of relevant net assets allocated to such reporting unit, including its allocated goodwill. With the adoption of the new guidance on goodwill impairment testing starting January 1, 2020, a goodwill impairment charge, if any, is recorded for the amount by which a reporting unit's carrying value exceeds its fair value. Significant management judgments and estimates are used in forecasting the future discounted cash flows associated with the reporting unit, including: the applicable industry's sales volume forecast and selling price evolution, the reporting unit's market penetration and its revenues evolution, the market acceptance of certain new technologies and products, the relevant cost structure, the discount rates applied using a weighted average cost of capital and the perpetuity rates used in calculating cash flow terminal values. Our evaluations are based on financial plans updated with the latest available projections of the semiconductor market, our sales expectations and our costs evolution, and are consistent with the plans and estimates that we use to manage our business. It is possible, however, that the plans and estimates used may prove to be incorrect, and future adverse changes in market conditions, changes in strategies, lack of performance of major customers or operating results of acquired businesses that are not in line with our estimates may require impairments.

We performed our annual impairment test of goodwill as of the end of the third quarters of 2020, 2019 and 2018 and concluded that there was no goodwill impairment loss. Impairment charges could result from new valuations triggered by changes in our product portfolio or strategic alternatives, particularly in the event of a downward shift in future revenues or operating cash flows in relation to our current plans or in case of capital injections by, or equity transfers to, third parties at a value lower than the current carrying value.

Intangible assets subject to amortization. Intangible assets subject to amortization include intangible assets purchased from third parties recorded at cost and intangible assets acquired in business combinations initially recorded at fair value, comprised mainly of technologies and licenses, and capitalized computer software. Intangible assets with finite useful lives are reflected net of any impairment losses and are amortized over their estimated useful lives. Amortization begins when the intangible asset is available for its intended use. Amortization reflects the pattern in which the asset's economic benefits are consumed, which usually consists in applying the straight-line method to allocate the cost of the intangible assets over the estimated useful lives. The carrying value of intangible assets with finite useful lives is evaluated whenever changes in circumstances indicate that the carrying amount may not be recoverable. An impairment loss is recognized in the consolidated statements of income on the line "Impairment, restructuring charges and other related closure costs" for the amount by which the asset's carrying amount exceeds its fair value. We evaluate the remaining useful life of an intangible asset at each reporting date to determine whether events and circumstances warrant a revision to the remaining period of amortization. Our evaluations are based on financial plans updated with the latest available projections of growth in the semiconductor market and our sales expectations. They are consistent with the plans and estimates that we use to manage our business. It is possible, however, that the plans and estimates used may be incorrect and that future adverse changes in market conditions or operating results of businesses acquired may not be in line with our estimates and may therefore require us to recognize impairment charges on certain intangible assets.

In 2020, 2019 and 2018, respectively, we recorded a \$4 million, \$4 million and \$2 million impairment charge on acquired licenses and technologies for which it was determined that they had no future alternative use.

We will continue to monitor the carrying value of our assets. If market conditions deteriorate, this could result in future non-cash impairment losses. Further impairment charges could also result from new valuations triggered by changes in our product portfolio or by strategic transactions, particularly in the event of a downward shift in future revenues or operating cash flows in relation to our current plans or in case of capital injections by, or equity transfers to, third parties at a value lower than the one underlying the carrying amount.

At December 31, 2020, the value of intangible assets subject to amortization in our Consolidated Balance Sheet amounted to \$445 million.

Property, plant and equipment. Our business requires substantial investments in technologically advanced manufacturing facilities, which may become significantly underutilized or obsolete as a result of rapid changes in demand and ongoing technological evolution. The largest component of our long-lived assets is our manufacturing equipment primarily in our front-end activities. On this equipment, the useful life is estimated to be six years, except for our 300 mm manufacturing equipment whose useful life is estimated to be ten years. This estimate is based on our experience using the equipment over time. Depreciation expense is an important element of our manufacturing cost structure. We begin to depreciate property, plant and equipment when it is ready for its intended use.

We evaluate each period whether there is reason to suspect that tangible assets or groups of assets held and used might not be recoverable. Several impairment indicators exist for making this assessment, such as: restructuring plans, significant changes in the technology, market, economic or legal environment in which we operate, available evidence of obsolescence of the asset, or indication that its economic performance is, or will be, worse than expected. In determining the recoverability of assets to be held and used, we initially assess whether the carrying value of the tangible assets or group of assets exceeds the undiscounted cash flows associated with these assets. If exceeded, we then evaluate whether an impairment charge is required by determining if the asset's carrying value also exceeds its fair value. We normally estimate this fair value based on independent market appraisals or the sum of discounted future cash flows, using market assumptions such as the utilization of our fabrication facilities and the ability to upgrade such facilities, change in the selling price and the adoption of new technologies. We also evaluate and adjust, if appropriate, the assets' useful lives at each reporting date or when impairment indicators are identified. In 2020 and 2018, no impairment charge was recorded on property, plant and equipment. In 2019, we impaired \$3 million of long-lived assets.

Our evaluations are based on financial plans updated with the latest projections of growth in the semiconductor market and our sales expectations, from which we derive the future production needs and loading of our manufacturing facilities, and which are consistent with the plans and estimates that we use to manage our business. These plans are highly variable due to the high volatility of the semiconductor business and therefore are subject to continuous modifications. If future growth differs from the estimates used in our plans, in terms of both market growth and production allocation to our manufacturing plants, this could require a further review of the carrying amount of our tangible assets and result in a potential impairment loss.

Inventory. Inventory is stated at the lower of cost or net realizable value. Cost is based on the weighted average cost by adjusting the standard cost to approximate actual manufacturing costs on a quarterly basis; therefore, the cost is dependent on our manufacturing performance. In the case of underutilization of our manufacturing facilities, we estimate the costs associated with the unused capacity. These costs are not included in the valuation of inventory but are charged directly to cost of sales in the consolidated statements of income. Net realizable value is the estimated selling price in the ordinary course of business, less reasonably predictable costs of completion, disposal and transportation.

We perform, on a continuous basis, write-offs of finished products, which have the characteristics of slow-moving, old production dates and technical obsolescence. We evaluate inventory to identify obsolete or slow-selling items, as well as inventory that is not of saleable quality and we record a specific reserve if we estimate the inventory will eventually become obsolete. Reserve for obsolescence is estimated for excess uncommitted inventories based on the previous quarters sales, order backlog and production plans. To the extent that future negative market conditions generate order backlog cancellations and declining sales, or if future conditions are less favorable than the projected revenue assumptions, we could record additional inventory reserve, which would have a negative impact on our gross margin.

Share-based compensation. Our share-based service awards are granted to senior executives and selected employees. We measure the cost of share-based service awards based on the fair value of the awards as of the grant date reflecting the market price of the underlying shares at the date of the grant, reduced by the present value of the dividends expected to be paid on the shares during the requisite service period. While the awards granted to selected employees are subject to a three-year service period, the awards granted to the senior executives are subject to both a three-year service period and the fulfillment of certain performance conditions, including our financial results when compared to industry performance. The expense is recognized over the requisite service period. In 2020, approximately one-half of the total amount of shares awarded were granted to senior executives and consequently were contingent on the achievement of performance conditions. In order to determine share-based compensation to be recorded for the period, we use significant estimates on the number of awards expected to vest, including the probability of achieving the fixed performance conditions including those relating to our financial results compared to industry performance, and our best estimates of award forfeitures and employees' service periods. Our assumptions related to industry performance are generally taken with a one quarter lag in line with the availability of market information. In 2020, 2019 and 2018, we recorded a total charge of approximately \$155 million, \$145 million and \$125 million relating to our outstanding stock award plans, respectively.

Financial assets. The financial assets held at reporting date are primarily receivables, equity securities and debt securities. Receivables are measured at amortized cost less any currently expected credit loss allowance. Investments in equity securities that have readily determinable fair values and for which we do not have the ability to exercise significant influence are classified as financial assets measured at fair value through earnings. For investments in equity securities without readily determinable fair values and for which we do not have the ability to exercise significant influence, we have elected to apply the cost-method as a measurement alternative. Debt securities are classified as available-for-sale. We determine the classification of our financial assets at initial recognition.

The fair values of quoted debt and equity securities are based on current market prices. If the market for a financial asset is not active and if no observable market price is obtainable, we measure fair value by using assumptions and estimates. In measuring fair value, we make maximum use of market inputs and minimize the use of unobservable inputs.

Income taxes. We make estimates and judgments in determining income tax for the period, comprising current and deferred income tax. We assess the income tax expected to be paid or the tax benefit expected to be received related to the current year taxable profit and loss in each individual tax jurisdiction and recognize deferred income tax for all temporary differences arising between the tax bases of assets and liabilities and their carrying amount in the Consolidated Financial Statements. Furthermore, at each reporting date, we assess all material uncertain tax positions to determine the amount of income tax benefits that we do not expect to reasonably sustain. As at December 31, 2020, we had \$48 million of estimated liabilities on uncertain tax positions.

We also assess the likelihood of realization of our deferred tax assets. Their ultimate realization is dependent upon, among other things, our ability to generate future taxable profit available, or tax credits before their expiration, or our ability to implement prudent and feasible tax planning, or the possibility to settle uncertain tax positions against available net operating loss carry forwards, or similar tax losses and credits. We record a valuation allowance against the deferred tax assets when we consider it is more likely than not that the deferred tax assets will not be realized.

As at December 31, 2020, we had non-current deferred tax assets of \$739 million, net of valuation allowances.

We could be required to record further valuation allowances thereby reducing the amount of total deferred tax assets, resulting in an increase of our income tax charge, if our estimates of projected future taxable income and benefits from available tax strategies are reduced as a result of a change in business conditions or in management's plans or due to other factors, or if changes in current tax regulations are enacted that impose restrictions on the timing or extent of our ability to utilize net operating losses and tax credit carry-forwards in the future. Likewise, a change in the tax rates applicable in the various jurisdictions or unfavorable outcomes of any ongoing tax audits could have a material impact on our future tax provisions in the periods in which these changes could occur.

Pension and Post-Employment Benefits. Our consolidated statements of income and our consolidated balance sheets include amounts for pension obligations and post-employment benefits that are measured using actuarial valuations. At December 31, 2020, our pension and post-employment benefit obligations net of plan assets amounted to \$511 million. These valuations are based on key assumptions, including discount rates, expected long-term rates of return on funds, turnover rates and salary increase rates. These assumptions used in the determination of the net periodic benefit cost are updated on an annual basis at the beginning of each fiscal year or more frequently upon the occurrence of significant events. Any changes in the pension schemes or in the above assumptions can have an impact on our valuations. The measurement date we use for our plans is December 31.

Patent and other Intellectual Property ("IP") litigation or claims. We record a provision when we believe that it is probable that a liability has been incurred at the date of the Consolidated Financial Statements and the amount of the loss can be reasonably estimated. We regularly evaluate losses and claims to determine whether they need to be adjusted based on current information available to us. Such estimates are difficult to the extent that they are largely dependent on the status of ongoing litigation that may vary based on positions taken by the court with respect to issues submitted, demands of opposing parties, changing laws, discovery of new facts or other matters of fact or law. As at December 31, 2020, based on our current evaluation of ongoing litigation and claims we face, we have not estimated any amounts that could have a material impact on our results of operations and financial condition with respect to either probable or possible risks. In the event of litigation that is adversely determined with respect to our interests, or in the event that we need to change our evaluation of a potential third-party claim based on new evidence, facts or communications, unexpected rulings or changes in the law, this could have a material adverse effect on our results of operations or financial condition at the time it were to materialize. We are in discussion with several parties with respect to claims against us relating to possible infringement of IP rights. We are also involved in certain legal proceedings concerning such issues. See "Item 8. Financial Information — Legal Proceedings" and Note 27 to our Consolidated Financial Statements.

Other claims. We are subject to the possibility of loss contingencies arising in the ordinary course of business. These include but are not limited to: warranty costs on our products not covered by insurance, breach of contract claims, tax claims beyond assessed uncertain tax positions as well as claims for environmental damages. We are also exposed to numerous legal risks which until now have not resulted in legal disputes and proceedings. These include risks related to product recalls, environment, anti-trust, anti-corruption and competition as well as other compliance regulations. We may also face claims in the event of breaches of law committed by individual employees or third parties. In determining loss contingencies, we consider the likelihood of a loss of an asset or the occurrence of a liability, as well as our ability to reasonably estimate the amount of such loss or liability. An estimated loss is recorded when we believe that it is probable that a liability has been incurred and the amount of the loss can be reasonably estimated. We regularly re-evaluate any losses and claims and determine whether our provisions need to be adjusted based on the current information available to us. As at December 31, 2020, based on our current evaluation of ongoing litigation and claims we face, we have not estimated any amounts that could have a material impact on our results of operations and financial condition with respect to either probable or possible risks. In the event we are unable to accurately estimate the amount of such loss in a correct and timely manner, this could have a material adverse effect on our results of operations or financial condition at the time such loss was to materialize. For further details of our legal proceedings refer to "Item 8. Financial Information — Legal Proceedings" and Note 27 to our Consolidated Financial Statements

## Fiscal Year 2020

Under Article 35 of our Articles of Association, our financial year extends from January 1 to December 31, which is the period end of each fiscal year. In 2020, the first quarter ended on March 28, the second quarter ended on June 27, the third quarter ended on September 26 and the fourth quarter ended on December 31. In 2021, the first quarter will end on April 3, the second quarter will end on July 3, the third quarter will end on October 2 and the fourth quarter will end on December 31. Based on our fiscal calendar, the distribution of our revenues and expenses by quarter may be unbalanced due to a different number of days in the various quarters of the fiscal year and can also differ from equivalent prior years' periods, as illustrated in the below table for the years 2019, 2020 and 2021.

	Q1	1	Q2	Q3	Q4
			Days		
2019		89	91	91	94
2020		88	91	91	96
2021		93	91	91	90

## 2020 Business Overview

Our results of operations for each period were as follows:

	Year ended December 31,				Three Months Ended						
		2020		2019		December 31, 2020	;	September 26, 2020	D	ecember 31, 2019	
		(In millions share ar			(Unaudited, in millions, except per share amounts)						
Net revenues	\$	10,219	\$	9,556	\$	3,235	\$	2,666	\$	2,754	
Gross profit		3,789		3,696		1,254		959		1,081	
Gross margin as percentage of net											
revenues		37.1%		38.7%		38.8%		36.0%		39.3%	
Operating income		1,323		1,203		657		329		460	
Operating margin		12.9%		12.6%		20.3%		12.3%		16.7%	
Net income attributable to parent											
company		1,106		1,032		582		242		392	
Diluted earnings per share	\$	1.20	\$	1.14	\$	0.63	\$	0.26	\$	0.43	

The total available market is defined as the "TAM", while the serviceable available market, the "SAM", is defined as the market for products sold by us (which consists of the TAM and excludes major devices such as Microprocessors ("MPUs"), Dynamic random-access memories ("DRAMs"), optoelectronics devices, Flash Memories and the Wireless Application Specific market products such as Baseband and Application Processor).

Based on industry data published by WSTS, semiconductor industry revenues in 2020 increased on a year-over-year basis by approximately 7% for the TAM and by approximately 4% for the SAM, to reach approximately \$440 billion and \$202 billion, respectively. In the fourth quarter of 2020, on a year-over-year basis, the TAM increased by approximately 10% and the SAM increased by approximately 11%. Sequentially, the TAM increased by approximately 5% and the SAM increased by approximately 6%.

Based upon a stronger than expected second half of 2020, our net revenues for the full year increased 6.9% to \$10.2 billion; gross margin was 37.1% and operating margin was 12.9%.

In the fourth quarter, net revenues increased 17.5% year-over-year, gross margin was 38.8%, and operating margin was 20.3%. On a sequential basis, fourth quarter revenues grew by 21.3%, with all product groups contributing to the growth, except the RF Communications (formerly "Digital") sub-group, and 580 basis points above the high end of our guidance. Our engaged customer programs in Personal Electronics, as well as continuous acceleration in demand, especially of Automotive products and Microcontrollers, were the main factors that contributed to this result.

Our quarterly performance was above the SAM both sequentially and on a year-over-year basis.

Our effective average exchange rate was \$1.13 for  $\in$ 1.00 for the full year 2020, as compared to \$1.14 for  $\in$ 1.00 for the full year 2019. Our effective average exchange rate for the fourth quarter of 2020 was \$1.16 for  $\in$ 1.00, compared to \$1.13 for  $\in$ 1.00 for the third quarter of 2020 and \$1.12 for  $\in$ 1.00 in the fourth quarter of 2019. For a more detailed discussion of our hedging arrangements and the impact of fluctuations in exchange rates, see "Impact of Changes in Exchange Rates".

Our 2020 gross margin decreased 160 basis points to 37.1% from 38.7% in 2019, mainly due to normal price pressure and increased unsaturation charges, partially offset by a better product mix.

Our fourth quarter 2020 gross margin was 38.8%, 30 basis points above the mid-point of our guidance, improving sequentially by 280 basis points, mainly driven by improved product mix, lower unloading charges and better manufacturing efficiencies. Our gross margin decreased 50 basis points year-over-year, mainly impacted by normal price pressure and unfavorable currency effects, net of hedging, partially offset by improved product mix and lower unloading charges.

Our operating expenses, comprised of SG&A and R&D expenses, amounted to \$2,657 million in 2020, increasing by about 2.6% from \$2,591 million in the prior year, mainly due to salary dynamic, higher share-based compensation cost and increased spending on certain R&D programs, partially offset by lower discretionary spending and favorable currency effects, net of hedging. Combined R&D and SG&A expenses were \$729 million for the fourth quarter of 2020, compared to \$652 million and \$672 million in the prior and year-ago quarters, respectively. The sequential increase was mainly due to seasonality and salary dynamic. The year-over-year increase of operating expenses was mainly due to salary dynamic and unfavorable currency effects, net of hedging, partially offset by lower discretionary spending.

Other income and expenses, net, were \$202 million in 2020 compared to \$103 million in 2019, increasing mainly due to a non-recurrent favorable impact associated with the Important Projects of Common European Interest (IPCEI) grants catch-up and lower level of start-up costs, partially offset by incremental expenses associated with the COVID-19 pandemic. Fourth quarter other income and expenses, net, were \$131 million compared to \$24 million in the prior quarter and \$54 million in the year-ago quarter, mainly reflecting IPCEI grants catch-up.

In 2020, impairment and restructuring charges were \$11 million compared to \$5 million in 2019.

Operating income in 2020 was \$1,323 million, increasing by \$120 million compared to 2019, mainly driven by higher revenues and increased level of grants associated with the IPCEI catch-up, partially offset by increased unsaturation charges and salary dynamic.

Operating income in the fourth quarter grew on a sequential and year-over-year basis to \$657 million compared to \$329 million and \$460 million in the prior quarter and year-ago quarter, respectively. The sequential increase is mainly driven by higher revenues, higher level of grants associated with the IPCEI catch-up, improved product mix and lower unloading charges, partially offset by seasonality and salary dynamic. The year-over-year increase is mainly due to higher revenues and higher level of grants associated with the IPCEI catch-up, partially offset by normal price pressure and salary dynamic.

Full year 2020 net income was \$1,106 million, or \$1.20 diluted earnings per share, compared to net income of \$1,032 million, or \$1.14 diluted earnings per share for the full year 2019. Fourth quarter net income increased on a sequential and year-over-year basis to \$582 million, or \$0.63 diluted earnings per share, compared to net income of \$242 million, or \$0.26 diluted earnings per share, in the prior quarter, and a net income of \$392 million, or \$0.43 diluted earnings per share, in the year-ago quarter.

Capital expenditure payments, net of proceeds from sales, were \$381 million and \$1.28 billion during the fourth quarter and full year 2020, respectively. Full year 2019 capital expenditures, net of proceeds from sales, were \$1.17 billion.

During 2020, our net cash increased by \$399 million, with net cash from operating activities of \$2,093 million. During 2020, we received \$1.57 billion net proceeds from the issuance of the senior unsecured convertible bonds issued on August 4, 2020 (the "2020 Senior Unsecured Convertible Bonds") and used \$750 million to settle Tranche A of the senior unsecured convertible bonds issued on July 3, 2017 (the "2017 Senior Unsecured Convertible Bonds"). In addition, we paid \$113 million for business acquisitions, \$168 million of

cash dividends to our shareholders, \$184 million for long-term debt repayment and \$125 million for the repurchase of common stock. Finally, we invested \$577 million of our net cash in short-term deposits.

Our free cash flow, a non-U.S. GAAP measure, amounted to \$627 million in 2020 compared to \$497 million in 2019. Refer to "Liquidity and Capital Resources" for the reconciliation of the free cash flow, a non-U.S. GAAP measure, to our consolidated statement of cash flows.

#### **Business Outlook**

Our first quarter 2021 outlook reflects revenues of approximately \$2.93 billion at the mid-point, increasing year-over-year by about 31.2%. Sequentially, this represents a decrease of approximately 9.5%, plus or minus 350 basis points. Gross margin is expected to be at approximately 38.5%, plus or minus 200 basis points. For 2021, we plan to invest about \$1.8 billion to \$2.0 billion in capital expenditures to support the strong market demand and our strategic initiatives.

This outlook is based on an assumed effective currency exchange rate of approximately \$1.20 = €1.00 for the 2021 first quarter and includes the impact of existing hedging contracts. The first quarter will close on April 3, 2021.

These are forward-looking statements that are subject to known and unknown risks and uncertainties that could cause actual results to differ materially; in particular, refer to those known risks and uncertainties described in "Cautionary Note Regarding Forward-Looking Statements" and "Item 3. Key Information — Risk Factors" herein.

#### Other Developments

On January 28, 2021, our Supervisory Board has announced that it will propose at our 2021 Annual General Meeting of Shareholders the reappointment of Jean-Marc Chery as the sole member of our Managing Board and the Company's President and Chief Executive Officer.

On January 11, 2021, we announced the appointment of Rajita D'Souza as President, Human Resources and Corporate Social Responsibility. Ms. D'Souza reports directly to the President and CEO and is a member of the Company's Executive Committee.

On December 14, 2020, we announced a strategic partnership with Schneider Electric to support our goal to reach carbon neutrality by 2027. We intend to collaborate on the overall reduction of energy consumption of our manufacturing and design sites, the renewable energy sourcing strategy across all of our locations, and the identification and implementation of credible and relevant carbon avoidance and sequestration programs.

On December 9, 2020, we announced our goal to become carbon neutral by 2027. Our comprehensive roadmap to carbon neutrality includes two specific targets: compliance with the 1.5°C scenario defined at the Paris COP21 by 2025, which implies a 50% reduction of direct and indirect emissions compared to 2018, and the sourcing of 100% renewable energy by 2027.

On December 8, 2020, we were recognized for leadership in corporate sustainability by global environmental non-profit CDP, securing a place on its prestigious 'A List' for tackling climate change.

On October 15, 2020, we announced the acquisition and integration of the assets of SOMOS, a fabless semiconductor company specialized in silicon-based power amplifiers and in RF Front-End Modules ("FEM") products. With this acquisition, we reinforced our specialist staff, IP and roadmaps of Front-End Modules for the IoT and 5G markets.

On September 23, 2020, our Supervisory Board decided to maintain the distribution of a cash dividend of \$0.168 per outstanding share of our common stock, as approved by the Annual General Meeting of Shareholders on June 17, 2020.

On August 19, 2020, we published our IFRS 2020 Semi Annual Accounts for the six-month period ended June 27, 2020 on our website and filed them with the Netherlands Authority for the Financial Markets (Autoriteit Financiële Markten).

On July 28, 2020, we launched and priced a \$1.5 billion dual-tranche offering of the 2020 Senior Unsecured Convertible Bonds. The 2020 Senior Unsecured Convertible Bonds were launched in two \$750 million tranches, one with a maturity of 5 years (47.5% conversion premium, negative 1.12% yield to maturity, 0% coupon) and the other with a maturity of 7 years (52.5% conversion premium, negative 0.63% yield to maturity, 0% coupon). Under the terms of the 2020 Senior Unsecured Convertible Bonds, we can satisfy the conversion rights either in cash or shares, or a combination of the two, at our selection. Proceeds from the issuance of the 2020 Senior Unsecured Convertible Bonds will be used for general corporate purposes, including the early redemption of the outstanding \$750 million of Tranche A of our 2017 Senior Unsecured Convertible Bonds. The issuance of the 2020 Senior Unsecured Convertible Bonds occurred on August 4, 2020.

On July 28, 2020, we announced the issuance of a redemption notice to inform bondholders that we would be redeeming all of the Tranche A of our 2017 Senior Unsecured Convertible Bonds at their principal amount on August 27, 2020. We settled the Tranche A of our 2017 Senior Unsecured Convertible Bonds through the payment of cash for the principal amount and the residual consideration through the delivery of shares.

On July 28, 2020, we announced that we will utilize a certain number of shares repurchased under the buy-back program for delivery of shares in connection with the early redemption of our outstanding \$750 million Tranche A of our 2017 Senior Unsecured Convertible Bonds.

On July 16, 2020, we announced the signing of two M&A agreements related to the acquisitions of the entire share capital of Ultra Wide Band specialist BeSpoon and of the cellular IoT connectivity assets of Riot Micro, further strengthening our offer for wireless connectivity and, in particular, the roadmap for our STM32 microcontrollers and secure MCUs.

On June 17, 2020, we held our Annual General Meeting of Shareholders (AGM) in Schiphol, the Netherlands. The main resolutions approved by the Shareholders were:

- The adoption of the Company's statutory annual accounts for the year ended December 31, 2019, prepared in accordance with IFRS and filed with the Dutch Authority for the Financial Markets ("AFM") on March 25, 2020, which are posted on the Company's website (www.st.com) and on the AFM's website (www.afm.nl);
- The distribution of a cash dividend of \$0.168 per outstanding share of the Company's common stock, to be distributed in quarterly instalments of \$0.042 in each of the second, third and fourth quarters of 2020 and first quarter of 2021;
- The authorization to the Supervisory Board to consider during September 2020 to increase such authorized dividend up to a maximum of \$0.24 per outstanding share of the Company's common stock:
- The appointment of Ms. Ana de Pro Gonzalo as member of the Supervisory Board, for a three-year term expiring at the 2023 AGM, in replacement of Ms. Martine Verluyten whose mandate expired at the end of the 2020 AGM;
- The appointment of Mr. Yann Delabrière as member of the Supervisory Board, for a three-year term expiring at the 2023 AGM, in replacement of Mr. Jean-Georges Malcor whose mandate expired at the end of the 2020 AGM;
- The reappointment, for a three-year term expiring at the 2023 AGM, of the following members of the Supervisory Board: Ms. Heleen Kersten and Messrs. Alessandro Rivera, Frédéric Sanchez and Maurizio Tamagnini;
- The adoption of the Company's remuneration policy for the members of the Supervisory Board, in line with recent changes in Dutch corporate law and the EU's shareholder rights directive:
- The re-appointment of EY as external auditor for the 2020, 2021, 2022 and 2023 financial years; and

the following resolutions were not approved by the Shareholders:

- The updated remuneration policy for the Managing Board which required under Dutch law a super- majority of votes cast of 75%; and
- The authorization for regular delegation to issue new common and preference shares up to 10% of our outstanding shares.

Following the conclusion of the AGM, the members of the Supervisory Board appointed Mr. Maurizio Tamagnini as the Chairman and Mr. Nicolas Dufourcq as the Vice-Chairman of the Supervisory Board, respectively, for a 3-year term to expire at the end of the 2023 AGM.

On May 12, 2020, we announced the publication of our 2020 Sustainability Report.

On April 7, 2020, we closed the acquisition of a majority stake in French Gallium Nitride ("GaN") innovator Exagan. The transaction was funded with available cash.

On March 25, 2020 we announced the main resolutions to be submitted for adoption at our AGM held in Schiphol, the Netherlands, on June 17, 2020.

On February 20, 2020 we announced a collaboration with TSMC to accelerate the development of GaN process technology and the supply of both discrete and integrated GaN devices to market. Through this collaboration, our innovative and strategic GaN products will be manufactured using TSMC's leading GaN process technology.

On January 15, 2020, we announced the signing of a multi-year silicon carbide wafers supply agreement with SiCrystal, a ROHM group company. The agreement governs the supply of over \$120 million of advanced 150 mm silicon carbide wafers by SiCrystal to us during this period of demand ramp-up for silicon carbide power devices.

# Results of Operations Segment Information

We design, develop, manufacture and market a broad range of products, including discrete and standard commodity components, application-specific integrated circuits ("ASICs"), full-custom devices and semi-custom devices and application-specific standard products ("ASSPs") for analog, digital and mixed-signal applications. In addition, we further participate in the manufacturing value chain of smartcard products, which includes the production and sale of both silicon chips and smartcards.

Our reportable segments are as follows:

- Automotive and Discrete Group (ADG), comprised of dedicated automotive ICs, and discrete and power transistor products.
- Analog, MEMS and Sensors Group (AMS), comprised of analog, smart power, low power RF, MEMS sensors and actuators, and optical sensing solutions.
- Microcontrollers and Digital ICs Group (MDG), comprised of microcontrollers (general purpose and secure), memories (RF and EEPROM), and RF communications.

For the computation of the segments' internal financial measurements, we use certain internal rules of allocation for the costs not directly chargeable to the segments, including cost of sales, selling, general and administrative expenses and a part of research and development expenses. In compliance with our internal policies, certain costs are not allocated to the segments, but reported in "Others". Those comprise unused capacity charges, including reduced manufacturing activity due to COVID-19, impairment, restructuring charges and other related closure costs, management reorganization expenses, phase-out and start-up costs of certain manufacturing facilities and other unallocated expenses such as: strategic or special research and development programs, certain corporate-level operating expenses, patent claims and litigations and other costs that are not allocated to product groups, as well as operating earnings of other products. In addition, depreciation and amortization expense is part of the manufacturing costs allocated to the segments and is neither identified as part of the inventory variation nor as part of the unused capacity charges; therefore, it cannot be isolated in the costs of goods sold. Finally, R&D grants are allocated to our segments proportionally to the incurred R&D expenses on the sponsored projects.

Wafer costs are allocated to the segments based on actual cost. From time to time, with respect to specific technologies, wafer costs are allocated to segments based on market price.

# **Annual Results of Operations**

The following table sets forth certain financial data from our Consolidated Statements of Income:

	_	2020		2019		2018	
		\$ million	% of net revenues	S million	% of net revenues	\$ million	% of net revenues
Net sales	\$	10,181	99.6%	\$ 9,529	99.7% \$		99.5%
Other revenues		38	0.4	27	0.3	52	0.5
Net revenues		10,219	100.0	9,556	100.0	9,664	100.0
Cost of sales		(6,430)	(62.9)	(5,860)	(61.3)	(5,803)	(60.0)
Gross profit		3,789	37.1	3,696	38.7	3,861	40.0
Selling, general and administrative		(1,109)	(10.9)	(1,093)	(11.4)	(1,095)	(11.3)
Research and development		(1,548)	(15.1)	(1,498)	(15.7)	(1,398)	(14.5)
Other income and expenses, net		202	1.9	103	1.1	53	0.5
Impairment, restructuring charges and other							
related closure costs		(11)	(0.1)	(5)	(0.1)	(21)	(0.2)
Operating income		1,323	12.9	1,203	12.6	1,400	14.5
Interest income (expense), net		(20)	(0.1)	1	_	(7)	(0.1)
Other components of pension benefit costs		(12)	(0.1)	(16)	(0.2)	(11)	(0.1)
Income (loss) on equity-method investments		2	_	1	_	8	0.1
Loss on financial instruments, net		(26)	(0.3)	_	_	(1)	_
Income before income taxes and							
noncontrolling interest		1,267	12.4	1,189	12.4	1,389	14.4
Income tax expense		(159)	(1.6)	(156)	(1.6)	(96)	(1.0)
Net income		1,108	10.8	1,033	10.8	1,293	13.4
Net income attributable to noncontrolling							
interest		(2)	_	(1)	_	(6)	(0.1)
Net income attributable to parent							
company	\$	1,106	10.8%	\$ 1,032	10.8% \$	1,287	13.3%

# Net revenues

	 Year Ended December 31,					% Variation		
	 2020		2019		2018	2020 vs 2019	2019 vs 2018	
			(in millions)					
Net sales	\$ 10,181	\$	9,529	\$	9,612	6.8%	(0.9)%	
Other revenues	38		27		52	43.4	(49.0)	
Net revenues	\$ 10,219	\$	9,556	\$	9,664	6.9%	(1.1)%	

Our 2020 net revenues increased 6.9% compared to the prior year, due to both higher volumes of approximately 4% and higher average selling prices of approximately 3%. The increase in the average selling prices was driven by a favorable product mix of approximately 6%, partially offset by a negative pricing effect of approximately 3%.

Our 2019 net revenues decreased 1.1% compared to the prior year, primarily due to a decrease in volumes of approximately 8%, partially compensated by an increase in average selling prices of approximately 7%. The increase in the average selling prices was driven by favorable product mix of approximately 10%, partially offset by a negative pricing effect of approximately 3%.

In 2020, 2019 and 2018, our largest customer, Apple, accounted for 23.9%, 17.6% and 13.1% of our net revenues, respectively, reported within our three product groups.

# Net revenues by product group

	Year Ended				% Variation		
	2020		2019		2018	2020 vs 2019	2019 vs 2018
		(I	n millions)				_
Automotive and Discrete Group (ADG)	\$ 3,284	\$	3,606	\$	3,556	(8.9)%	1.4%
Analog MEMS and Sensors Group (AMS)	3,892		3,299		3,154	18.0	4.6
Microcontrollers and Digital ICs Group (MDG)	3,030		2,638		2,940	14.9	(10.3)
Others	13		13		14	_	_
Total consolidated net revenues	\$ 10,219	\$	9,556	\$	9,664	6.9%	(1.1)%

For the full year 2020, our ADG revenues decreased 8.9% compared to the previous period. The decrease was primarily due to lower average selling prices of approximately 8%, negatively impacted by both product mix and lower selling prices, and lower volumes of approximately 1%. AMS revenues increased 18.0%, mainly driven by Imaging. The increase was due to higher average selling prices of approximately 16% and higher volumes of approximately 2%. The increase in average selling prices was due to a better product mix, partially offset by lower selling prices. MDG revenues increased 14.9%, due to higher volumes of approximately 17%, partially offset by lower average selling prices of approximately 2%, driven by lower selling prices.

For the full year 2019, our ADG revenues increased 1.4% compared to the previous period. The increase was primarily due to improved average selling prices of approximately 9%, which was entirely due to a better product mix, and partially offset by a decrease in volumes by approximately 8%. AMS revenues grew 4.6%, mainly due to the double-digits growth in Imaging. The increase was due to higher average selling prices of approximately 12%, as a result of a better product mix, and was partially offset by lower volumes of approximately 7%. MDG revenues were down by 10.3%, mainly due to Microcontrollers. The decrease was due to lower volumes of approximately 10% while average selling prices remained substantially flat.

## Net revenues by Market Channel(1)

		Y	ear Ended December 31,					
	2020		2019	2018				
		(As percentage of net revenues)						
DEM		73%	70%	65%				
Distribution		27	30	35				
Total		100%	100%	100%				

Original Equipment Manufacturers ("OEM") are the end-customers to which we provide direct marketing application engineering support, while Distribution customers refers to the distributors and representatives that we engage to distribute our products around the world.

Our revenues weight in Distribution registered a decrease of 3 percentage points compared to 2019, reaching a 27% share of total revenues in 2020. In 2019 as compared to 2018, our revenues weight in Distribution registered a decrease of 5 percentage points.

## Net Revenues by Location of Shipment(1)

	 Year Ended December 31,				% Variation		
	2020		2019		2018	2020 vs 2019	2019 vs 2018
		(Ir	n millions)				
EMEA	\$ 1,966	\$	2,265	\$	2,478	(13.2)%	(8.6)%
Americas	1,165		1,351		1,264	(13.7)	6.8
Asia Pacific	7,088		5,940		5,922	19.3	0.3
Total	\$ 10,219	\$	9,556	\$	9,664	6.9%	(1.1)%

(1) Net revenues by location of shipment are classified by location of customer invoiced or reclassified by shipment destination in line with customer demand. For example, products ordered by U.S.-based companies to be invoiced to Asia Pacific affiliates are classified as Asia Pacific revenues.

By location of shipment, in 2020, EMEA and Americas revenues decreased 13.2% and 13.7%, respectively, mainly due to lower sales in Automotive and Power Discrete. Asia Pacific revenues increased by 19.3% mainly supported by Microcontrollers, Imaging and Analog. In 2019, revenues grew 6.8% in Americas, driven by Power Discrete, remained substantially flat in Asia and decreased 8.6% in EMEA, mainly due to lower sales of Microcontrollers and Power Discrete.

# Gross profit

	 Year Ended December 31,				Variation		
	 2020		2019		2018	2020 vs 2019	2019 vs 2018
			(In millions)				
Cost of sales	\$ (6,430)	\$	(5,860)	\$	(5,803)	(9.7)%	(1.0)%
Gross profit	\$ 3,789	\$	3,696	\$	3,861	2.5%	(4.3)%
Gross margin (as percentage of net revenues)	37.1%		38.7%		40.0%	-160 bps	-130 bps

In 2020, gross margin decreased by 160 basis points to 37.1% from 38.7% in the full year 2019 mainly due to normal price pressure and increased unsaturation charges, partially offset by a better product mix. Unused capacity charges in 2020 were \$153 million, impacting full year gross margin by 150 basis points.

In 2019, gross margin decreased by 130 basis points to 38.7% from 40.0% in the full year 2018 mainly due to normal price pressure and increased unsaturation charges, partially offset by improved manufacturing efficiencies, better product mix, and favorable currency effects, net of hedging. Unused capacity charges in 2019 were \$65 million, impacting full year gross margin by 70 basis points.

## Operating expenses

Operating expenses							
	Y	ear Ended December 31,		Variation			
	2020	2019	2018	2020 vs 2019	2019 vs 2018		
		(In millions)					
Selling, general and administrative expenses	\$(1,109)	\$(1,093)	\$(1,095)	(1.6)%	0.3%		
Research and development expenses	\$(1,548)	\$(1,498)	\$(1,398)	(3.3)	(7.1)		
Total operating expenses	\$(2,657)	\$(2,591)	\$(2,493)	(2.6)%	(3.9)%		
As percentage of net revenues	26.0%	27.1%	25.8%	-110 bps	+130 bps		

The 2020 operating expenses increased 2.6% compared to the prior year, mainly due to salary dynamic, higher share-based compensation cost and increased spending on certain R&D programs, partially offset by lower discretionary spending and favorable currency effects, net of hedging.

The 2019 operating expenses increased 3.9% compared to the prior year, mainly due to salary dynamic, increased spending in certain R&D programs and higher share-based compensation cost, partially offset by favorable currency effects, net of hedging.

The R&D expenses were net of research tax credits, which amounted to \$131 million in 2020, \$126 million in 2019 and \$138 million in 2018.

## Other income and expenses, net

	Year Ended December 31,					
	2020			2019		2018
				(In millions)		
Research and development funding	\$	231	\$	132	\$	52
Phase-out and start-up costs		(8)		(38)		(1)
Exchange gains and losses, net		8		_		4
Patent costs		(11)		(1)		(8)
Gain on sale of non-current assets		14		7		8
COVID-19 incremental costs		(32)		_		_
Other, net		_		3		(2)
Other income and expenses, net	\$	202	\$	103	\$	53
As percentage of net revenues		1.9%		1.1%		0.5%

In 2020 we recognized other income, net of expenses, of \$202 million compared to \$103 million in 2019, increasing mainly due to a non-recurrent favorable impact associated with the Important Projects of Common European Interest (IPCEI) grants catch-up and lower level of start-up costs, partially offset by incremental expenses associated with the COVID-19 pandemic.

In 2019 we recognized other income, net of expenses, of \$103 million, increasing compared to \$53 million in 2018, mainly benefitting from the grants associated with the programs part of the IPCEI in Italy and in France, partially offset by a higher level of start-up costs associated with the production ramp up of the 200 mm fab acquired from Micron Technology Inc. in Singapore.

# Impairment, restructuring charges and other related closure costs

		Year Ended December 31,					
	2	2020 2019					
			(In millions)				
Impairment, restructuring charges and other related closure costs	\$	(11) \$	(5)	\$	(21)		

In 2020 we recorded \$11 million of impairment, restructuring charges and other related closure costs, mainly composed of \$8 million restructuring charges in association with the restructuring plan in Bouskoura, Morocco and \$4 million consisting of impairment of licenses with no alternative future use.

In 2019 we recorded \$5 million of impairment, restructuring charges and other related closure costs, mainly consisting of impairment of equipment and licenses dedicated exclusively to certain development projects that were cancelled, while no alternative future use was identified internally.

In 2018 we recorded \$21 million of impairment, restructuring charges and other related closure costs, consisting of \$19 million related to the set-top box restructuring plan and \$2 million of impairment of acquired technologies, for which it was determined that they had no future alternative use.

## Operating income

	 Year Ended December 31,							
	 2020		2019		2018			
			(In millions)					
Operating income	\$ 1,323	\$	1,203	\$	1,400			
As percentage of net revenues	12.9%		12.6%		14.5%			

Operating income in 2020 was \$1,323 million, increasing by \$120 million compared to 2019, mainly driven by higher revenues and increased level of grants associated with the IPCEI catch-up, partially offset by increased unsaturation charges and salary dynamic.

Operating income in 2019 was \$1,203 million, decreasing by \$197 million compared to 2018, reflecting normal price pressure, increased unsaturation charges and higher R&D spending, partially offset by higher level of grants and favorable currency effects, net of hedging.

# Operating income by product group

	Year Ended December 31,										
	2020				2019		2018				
		\$ million	% of net revenues		\$ million	% of net revenues	\$ million	% of net revenues			
Automotive and Discrete Group (ADG)	\$	182	5.5%	\$	357	9.9%	\$ 431	12.1%			
Analog, MEMS and Sensors Group											
(AMS)		810	20.8		596	18.1	488	15.5			
Microcontrollers and Digital ICs Group											
(MDG)		504	16.6		354	13.4	547	18.6			
Total operating income of product											
segments		1,496	14.6		1,307	13.7	1,466	15.2			
Others(1)		(173)			(104)		(66)				
Total operating income	\$	1,323	12.9%	\$	1,203	12.6%	\$ 1,400	14.5%			

Operating income (loss) of Others includes items such as unused capacity charges, including reduced manufacturing activity due to COVID-19, impairment, restructuring charges and other related closure costs, management reorganization costs, phase-out and start-up costs on certain manufacturing facilities, and other unallocated expenses such as: strategic or special research and development programs, certain corporate-level operating expenses, patent claims and litigations, and other costs that are not allocated to product groups, as well as operating earnings of other products.

In 2020, ADG operating income was \$182 million compared to \$357 million in 2019, with lower profitability in both Automotive and Power Discrete. AMS operating income increased by \$214 million to \$810 million, mainly driven by Imaging, with all sub-groups improving. MDG operating income increased to \$504 million from \$354 million in 2019, due to Microcontrollers.

In 2019, ADG operating income was \$357 million compared to \$431 million in 2018, with both Automotive and Power Discrete decreasing. AMS operating income increased by \$108 million to \$596 million, mainly driven by Imaging increased revenues. MDG operating income decreased to \$354 million from \$547 million in 2018, mainly due to Microcontrollers lower level of revenues.

# Reconciliation to consolidated operating income

	Year Ended December 31,						
	 2020	2019 (In millions)			2018		
Total operating income of product segments	\$ 1,496	\$	1,307	\$	1,466		
Impairment, restructuring charges and other							
related closure costs	(11)		(5)		(21)		
Unused capacity charges	(153)		(65)		(1)		
Other unallocated manufacturing results	(8)		(25)		2		
Gain on sale of non-current assets	11		6		1		
Strategic and other research and development							
programs and other non-allocated provisions(1)	(12)		(15)		(47)		
Total operating loss Others	 (173)		(104)		(66)		
Total consolidated operating income	\$ 1,323	\$	1,203	\$	1,400		

<sup>(1)</sup> Includes unallocated income and expenses such as certain corporate-level operating expenses and other income (costs) that are not allocated to the product segments.

# Interest income (expense), net

	Year Ended December 31,						
	2020		2019		- 2	2018	
			(In millions)				
Interest income (expense), net	\$	(20)	5	1	\$	(7)	

In 2020, interest expense and fees on our borrowings and our committed credit facilities amounted to \$54 million, of which \$42 million was a non-cash interest expense resulting from the accretion of the discount on the liability component of our dual tranche 2017 Senior Unsecured Convertible Bonds and our 2020 Senior Unsecured Convertible Bonds. In 2020, the interest expense was partially offset by \$34 million of interest income on cash and cash equivalents, short-term deposits and marketable securities.

In 2019, interest expense and fees on our borrowings and our committed credit facilities amounted to \$54 million, of which \$37 million was a non-cash interest expense resulting from the accretion of the discount on the liability component of our dual tranche 2017 Senior Unsecured Convertible Bonds. In 2019, the interest expense was more than offset by \$55 million of interest income on cash and cash equivalents and marketable securities.

In 2018, interest expense and fees on our borrowings and our committed credit facilities amounted to \$54 million, of which \$36 million was a non-cash interest expense resulting from the accretion of the discount on the liability component of our dual tranche 2017 Senior Unsecured Convertible Bonds. In 2018, the interest expense was partially offset by \$47 million of interest income on cash and cash equivalents and marketable securities.

# Income (loss) on equity-method investments

	Year Ended December 31,						
	2020		2019		2018		
			(In millions)				
Income (loss) on equity-method investments	\$	2 \$	1	\$		8	

In 2020, we registered income of \$2 million on our equity-method investments, mainly related to a gain on sale of one of our non-strategic investments.

In 2019, we registered income of \$1 million on our equity-method investments, mainly related to our investment in ST-Ericsson. On December 20, 2019, we agreed with Ericsson to complete the wind-down of ST-Ericsson. As part of the transaction, we acquired from ST-Ericsson SA 100% of the share capital of ST-Ericsson India Pvt Ltd, a wholly owned subsidiary of ST-Ericsson SA, and simultaneously sold our ST-Ericsson SA shares to Ericsson.

In 2018, we registered income of \$8 million on our equity-method investments, related to our investment in ST-Ericsson and a complete reversal of a reserve associated with our indemnity obligation undertaken when selling Numonyx (an equity investment divested in 2010). In addition, there was better than anticipated actual outcome of certain tax items, partially offset by a loss of \$2 million on our equity investment in Incard do Brazil.

## Loss on financial instruments, net

	 Ye	ear Ended December 31	,	
	020	2019	201	8
Loss on financial instruments, net	\$ (26)	s —	\$	(1)

In 2020, we recorded a \$26 million loss on financial instruments, of which \$25 million was generated on the settlement of Tranche A 2017 Senior Unsecured Convertible Bonds. This loss was associated with the fair value measurement before settlement of the liability component of Tranche A 2017 Senior Unsecured Convertible Bonds and the write-off of the unamortized portion of issuance costs.

In 2019 we did not recognize any income or loss on financial instruments.

In 2018 we recognized a \$1 million loss on financial instruments corresponding to a loss on one of our investments.

## Income tax expense

		Year Ended Decembe	r 31,		
	2020	2019		2018	_
		(In millions)			_
\$	(159)	\$ (1	56) \$	(9	96)

In 2020, we registered an income tax expense of \$159 million, while we registered an income tax expense of \$156 million in 2019 and \$96 million in 2018. These amounts reflect the actual taxes calculated on our income before income taxes in each of our jurisdictions and tax benefits, net of valuation allowances, associated with our estimates of the net operating loss realization, in certain jurisdictions, against future taxable profits, one-time tax benefits related to previous year positions and our best estimate of additional tax charges related to potential uncertain tax positions and claims.

In 2020, the effective tax rate was 13%, including \$31 million of tax benefit from discrete items, mainly due to adjustments from previous years tax returns.

In 2019, the effective tax rate was 13%, including \$24 million of tax benefit, mainly due to the revaluation of deferred tax assets and following the enactment of the Swiss tax reform which cancelled all favorable tax regimes and introduced a single tax rate for all companies.

In 2018, the effective tax rate was 7%, including \$12 million of tax benefit from discrete items, mainly due to settlement of local tax assessment.

Our tax rate is variable and depends on changes in the level of operating results within various local jurisdictions and on changes in the applicable taxation rates applicable in these jurisdictions, as well as changes in estimations of our tax provisions. Our income tax amounts and rates depend also on our loss carry-forwards and their relevant valuation allowances, which are based on estimated projected plans and available tax planning; in the case of material changes in these plans, the valuation allowances could be adjusted accordingly with an impact on our tax charges. We currently enjoy certain tax benefits in some countries. Such benefits may not be available in the future due to changes in the local jurisdictions; our effective tax rate could be different in future periods and may increase in the coming years. In addition, our yearly income tax charges include the estimated impact of provisions related to tax positions which have been considered uncertain.

#### Net income attributable to noncontrolling interest

	Year Ended December 31,					
	 2020	2019	2018			
	 (In r	nillions)				
Net income attributable to noncontrolling interest	\$ (2) \$	(1) \$	(6)			

In 2020, 2019 and 2018, respectively, we recorded \$2 million, \$1 million and \$6 million of net income attributable to noncontrolling interest.

#### Net income attributable to parent company

	 Year Ended December 31,							
	2020		2019		2018			
			(In millions)					
Net income attributable to parent company	\$ 1,106	\$	1,032	\$	1,287			
As percentage of net revenues	10.8%		10.8%		13.3%			

For 2020, we reported a net income attributable to parent company of \$1,106 million, compared to a net income of \$1,032 million and \$1,287 million for 2019 and 2018, respectively.

The 2020 net income attributable to parent company represented diluted earnings per share of \$1.20 compared to \$1.14 and \$1.41 for 2019 and 2018, respectively.

## **Quarterly Results of Operations**

Certain quarterly financial information for the years 2020 and 2019 are set forth below. Such information is derived from our unaudited Consolidated Financial Statements, prepared on a basis consistent with the Consolidated Financial Statements that include, in our opinion, all normal adjustments necessary for a fair statement of the interim information set forth therein. Operating results for any quarter are not necessarily indicative of results for any future period. In addition, in view of the significant volatility we have experienced in recent years, the increasingly competitive nature of the markets in which we operate, the changes in products mix and the currency effects of changes in the composition of sales and production among different geographic regions, we believe that period-to-period comparisons of our operating results should not be relied upon as an indication of future performance.

Our quarterly and annual operating results are also affected by a wide variety of other factors that could materially and adversely affect revenues and profitability or lead to significant variability of operating results, please see "Item 3. Key Information — Risk Factors — Risks Related to Our Operations". As only a portion of our expenses varies with our revenues, there can be no assurance that we will be able to reduce costs promptly or adequately in relation to revenue declines to compensate for the effect of any such factors. As a result, unfavorable changes in the above or other factors have in the past and may in the future adversely affect our operating results. Quarterly results have also been and may be expected to continue to be substantially affected by the cyclical nature of the semiconductor and electronic systems industries, the speed of some process and manufacturing technology developments, market demand for existing products, the timing and success of new product introductions and the levels of provisions and other unusual charges incurred. Certain additions of our quarterly results will not total our annual results due to rounding.

#### Net revenues

		Three Months Ended					% Variation		
		December 31, 2020	September 26, 2020		December 31, 2019		Sequential	Year- Over- Year	
	_		(Unaudit	ted, in millions)					
Net sales	\$	3,206	\$	2,663	\$	2,750	20.4%	16.6%	
Other revenues		29		3		4	866.7	778.8	
Net revenues	<b>S</b>	3,235	\$	2,666	\$	2,754	21.3%	17.5%	

Our fourth quarter 2020 net revenues amounted to \$3,235 million, registering a sequential increase of 21.3%, 580 basis points above the high end of our guidance, with all product groups contributing to the growth except the RF Communications (formerly "Digital") sub-group. The sequential increase resulted from higher volumes of approximately 18% and an increase of approximately 3% in average selling prices, as a result of better product mix.

On a year-over-year basis, our net revenues increased by 17.5%. This increase was mainly due to higher volumes of approximately 9% and higher average selling prices of approximately 9%. The average selling prices increase was driven by more favorable product mix, partially offset by lower selling prices.

# Net revenues by product group

	Three Months Ended						% Variation		
		December 31, 2020		September 26, 2020		December 31, 2019	Sequential	Year- Over- Year	
			(Unaudite	ed, in millions)					
Automotive and Discrete Group (ADG)	\$	953	\$	851	\$	924	12.1%	3.2%	
Analog, MEMS and Sensors Group (AMS)		1,419		997		1,085	42.4	30.8	
Microcontrollers and Digital ICs Group (MDG)		859		815		742	5.3	15.7	
Others		4		3		3	20.6	20.6	
Total consolidated net revenues	\$	3,235	\$	2,666	\$	2,754	21.3 %	17.5%	

On a sequential basis, ADG revenues were up 12.1%, driven by higher volumes of approximately 21%, partially offset by lower average selling prices of approximately 9%, mostly attributable to product mix. AMS revenues increased 42.4%, mainly driven by Imaging. AMS increase was due to higher average selling prices of approximately 25%, entirely due to product mix, and higher volumes of approximately 17%. MDG revenues increased 5.3%, driven by Microcontrollers, due to higher volumes of approximately 12%, partially offset by lower average selling prices of approximately 7%, mainly impacted by product mix.

On a year-over-year basis, fourth quarter net revenues increased 17.5%. ADG revenues increased 3.2% compared to the year-ago quarter due to an increase of approximately 2% in average selling prices, mainly due to product mix partially offset by lower selling prices, and higher volumes of approximately 1%. AMS fourth quarter revenues grew 30.8% year-over-year. The increase was mainly due to higher average selling prices of approximately 19%, as a result of a better product mix, and to an increase of approximately 12% in volumes. MDG fourth quarter revenues increased 15.7%, driven by higher volumes of approximately 26%, partially offset by lower average selling prices of approximately 10%, mainly impacted by product mix.

## Net Revenues by Market Channel(1)

		Three Months Ended						
	December 31, 2020	September 26, 2020	December 31, 2019					
		(Unaudited, in %)						
OEM	74%	74%	72%					
Distribution	26	26	28					
Total	100%	100%	100%					

Original Equipment Manufacturers ("OEM") are the end-customers to which we provide direct marketing application engineering support, while Distribution customers refers to the distributors and representatives that we engage to distribute our products around the world.

By market channel, our fourth quarter revenues in Distribution amounted to 26% of our total revenues, stable compared to the previous quarter and decreasing on a year-over-year basis.

# Net Revenues by Location of Shipment(1)

		Three M	onths Ended		% Variation		
	December 31, 2020		September 26, 2020 (Unaudited, in millions)		ecember 31, 2019	Sequential	Year- Over- Year
EMEA	\$ 586	\$	495	\$	538	18.4%	9.0%
Americas	346		289		360	19.8	(3.9)
Asia Pacific	2,303		1,882		1,856	22.3	24.1
Total	\$ 3,235	\$	2,666	\$	2,754	21.3%	17.5%

Net revenues by location of shipment are classified by location of customer invoiced or reclassified by shipment destination in line with customer demand. For example, products ordered by U.S.-based companies to be invoiced to Asia Pacific affiliates are classified as Asia Pacific revenues.

By region of shipment, in the 2020 fourth quarter, Asia Pacific revenues grew sequentially by 22.3%, principally in Imaging, Americas was up by 19.8%, with all groups contributing to the increase, and EMEA grew by 18.4% mainly driven by Automotive.

On a year-over-year basis, revenues grew 24.1% in Asia Pacific, mainly due to Imaging, and to a lower extent by Microcontrollers, and grew 9.0% in EMEA, mainly due to Analog and Microcontrollers, while it decreased by 3.9% in Americas, mainly impacted by RF Communications (formerly "Digital") lower sales.

# **Gross Profit**

		Thi	ee Months Ended		Variation		
	 December 31, 2020		September 26, 2020	December 31, 2019		Sequential	Year- Over- Year
		(Una	udited, in millions)				
Cost of sales	\$ (1,981)	\$	(1,707)	\$	(1,673)	(16.0)%	(18.4)%
Gross profit	\$ 1,254	\$	959	\$	1,081	30.8%	16.0%
Gross margin							
(as percentage of net revenues)	38.8%		36.0%		39.3%	+280 bps	-50 bps

Fourth quarter gross profit was \$1,254 million and gross margin was 38.8%. On a sequential basis, gross margin increased 280 basis points, mainly driven by improved product mix, lower unloading charges and better manufacturing efficiencies.

Gross margin decreased 50 basis points year-over-year, mainly impacted by normal price pressure and unfavorable currency effects, net of hedging, partially offset by improved product mix and lower unloading charges.

# Operating expenses

		Three Months Ended					% Variation			
			ember 26, 2020			Sequential	Year- Over- Year			
			(Unaudite	ed, in millions)				_		
Selling, general and administrative										
expenses	\$	(308)	\$	(273)	\$	(285)	(12.6)%	(8.2)%		
Research and development expenses		(421)		(379)		(387)	(11.3)	(8.8)		
Total operating expenses	\$	(729)	\$	(652)	\$	(672)	(11.9)%	(8.6)%		
As percentage of net revenues		22.5%		24.4%		24.4%	-190 bps	-190 bps		

The amount of our operating expenses increased by \$77 million on a sequential basis, mainly driven by seasonality and salary dynamic.

On a year-over-year basis, our operating expenses increased by \$57 million, mainly due to salary dynamic and unfavorable currency effects, net of hedging, partially offset by lower discretionary spending.

Fourth quarter 2020 R&D expenses were net of research tax credits, which amounted to \$42 million, compared to \$31 million in the third quarter of 2020 and \$37 million in the fourth quarter of 2019.

# Other income and expenses, net

	Three Months Ended							
	December 31, 2020		September 26, 2020			December 31, 2019		
			(Unaudi	ted, in millions)				
Research and development funding	\$	143	\$	28	\$	68		
Phase-out and start-up costs		_		_		(16)		
Exchange gains and losses, net		3		2		1		
Patent costs		(6)		(2)		(1)		
Gain on sale of non-current assets		_		2		1		
COVID-19 incremental costs		(9)		(5)		_		
Other, net		_		(1)		1		
Other income and expenses, net	\$	131	\$	24	\$	54		
As percentage of net revenues		4.0%		0.9%		2.0%		

In the fourth quarter of 2020, we recognized other income, net of expenses, of \$131 million, increasing from \$24 million in the prior quarter and from \$54 million in the year-ago quarter, mainly benefitting from a non-recurrent favorable impact associated with the Important Projects of Common European Interest (IPCEI) grants catch-up.

# Impairment, restructuring charges and other related closure costs

		Three Months Ended				
		December 31, 2020	September 26, 2020			December 31, 2019
	· ·		(U	naudited, in millions)		<u> </u>
Impairment, restructuring charges and other related closure costs	\$	1	\$	(2)	\$	(3)

In the fourth quarter of 2020, we recorded a \$1 million income as an adjustment to accrued restructuring charges when compared to actual amounts paid.

In the third quarter of 2020, we recorded \$2 million of impairment, restructuring charges and other related closure costs, mainly consisting of restructuring charges in association with the restructuring plan in Bouskoura, Morocco.

In the fourth quarter of 2019, we recorded \$3 million of impairment, restructuring charges and other related closure costs, primarily consisting of impairment of licenses dedicated exclusively to certain development projects that were cancelled, while no alternative future use.

## Operating income

		Three M	Ionths Ended		
_	December 31, 2020		September 26, 2020		cember 31, 2019
		(Unaudit	ed, in millions)		
\$	657	\$	329	\$	460
	20.3%		12.3%		16.7%

Operating income in the fourth quarter grew on a sequential and year-over-year basis to \$657 million compared to \$329 million and \$460 million in the prior and year-ago quarters, respectively.

The sequential increase is mainly driven by higher revenues, higher level of grants associated with the IPCEI catch-up, improved product mix and lower unloading charges, partially offset by seasonality and salary dynamic.

The year-over-year increase is mainly due to higher revenues and higher level of grants associated with the IPCEI catch-up, partially offset by normal price pressure and salary dynamic.

# Operating income by product group

				Three Months	Ended		
		December 3	1, 2020	September 26,	2020	December :	31, 2019
	\$ r	nillion	% of net revenues	\$ \$ million	% of net revenues	\$ million	% of net revenues
				(Unaudited	i)		
Automotive and Discrete Group (ADG)	\$	94	9.9%	\$ 49	5.8%	\$ 113	12.2%
Analog, MEMS and Sensors Group (AMS)		402	28.3	175	17.5%	281	25.9
Microcontrollers and Digital ICs Group (MDG)		174	20.3	142	17.4%	119	16.0
Total operating income of product	· · · · · · · · · · · · · · · · · · ·		<u>.</u>	 			
segments		670	20.7	366	13.7	513	18.6
Others(1)		(13)		(37)		(53)	
Total operating income	\$	657	20.3 %	\$ 329	12.3%	\$ 460	16.7%

Operating income (loss) of Others includes items such as unused capacity charges, impairment, restructuring charges and other related closure costs, management reorganization costs, phase-out and start-up costs on certain manufacturing facilities, and other unallocated expenses such as: strategic or special research and development programs, certain corporate-level operating expenses, patent claims and litigations, and other costs that are not allocated to product groups, as well as operating earnings of other products.

On a sequential basis, ADG fourth quarter operating income improved by \$45 million, driven by both Automotive and Power Discrete. AMS operating income increased by \$227 million mainly driven by Imaging, with all sub-groups improving, and MDG operating income increased by \$32 million due to Microcontrollers.

On a year-over-year basis, ADG operating income declined by \$19 million, mainly due to Automotive. AMS operating income increased by \$121 million, with all sub-groups contributing to the increase, and MDG operating income increased by \$55 million driven by Microcontrollers.

# Reconciliation to consolidated operating income

	Three Months Ended						
	December 31, 2020		September 26, 2020	]	December 31, 2019		
			(Unaudited, in millions)				
Total operating income of product segments	\$	670	\$ 366	\$	513		
Impairment, restructuring charges and other	-						
related closure costs		1	(2)		(3)		
Unused capacity charges		(17)	(38)		(29)		
Other unallocated manufacturing results		4	3		(13)		
Gain on sale of non-current assets		1	_		_		
Strategic and other research and development							
programs and other non-allocated provisions		(2)			(8)		
Total operating loss Others		(13)	(37)		(53)		
Total consolidated operating income	\$	657	\$ 329	\$	460		

# Interest income (expense), net

_	Three Months Ended				
	December 31, 2020	September 26, 2020	December 31, 2019	,	
		(Unaudited, in millions)			
Interest income (expense), net	(8)	\$ (9)	\$	(1)	

In the fourth quarter of 2020, we recorded a net interest expense of \$8 million, compared to \$9 million in the prior quarter and \$1 million in the year-ago quarter. The fourth quarter net interest expense was composed of \$13 million of interest expense on our borrowings and banking fees, partially offset by \$5 million of interest income.

Net interest expense recorded in the fourth quarter of 2020 included a \$12 million charge related to our senior unsecured convertible bonds, mainly non-cash, compared to a \$14 million charge in the third quarter of 2020 and a \$10 million charge in the fourth quarter of 2019, respectively. The increase compared to the fourth quarter of 2019 was due to the effective interest expense related to the 2020 Senior Unsecured Convertible Bonds.

## Income (loss) on equity-method investments

		Three Months Ended	i		
	December 31, 2020	September 26, 2020 (Unaudited, in millions)	<del>-</del> -	December 31, 2019	
loss) on equity-method investments	\$ —		1 \$	_	

In the fourth quarters of 2020 and 2019, there was no income (loss) on equity-method investments, compared to \$1 million income in the third quarter in 2020.

# Loss on financial instruments, net

		Three Months Ended					
	•	December 31,	September 26,	December 31,			
		2020	2020	2019			
	·		(Unaudited, in millions				
Loss on financial instruments, net	5	· —	\$ (26	) \$	_		

In the fourth quarters of 2020 and 2019, there was no income (loss) recognized on financial instruments. In the third quarter of 2020, we recorded a \$26 million loss on financial instruments, of which \$25 million were generated on the settlement of Tranche A 2017 Senior Unsecured Convertible Bonds.

# Income tax expense

		Three Months Ended		
_	December 31, 2020	September 26, 2020	I	December 31, 2019
		(Unaudited, in millions)		
§	(63)	\$ (50)	\$	(62)

During the fourth and third quarters of 2020 and the fourth quarter of 2019, we recorded an income tax expense of \$63 million, \$50 million and \$62 million, respectively, reflecting (i) in the third quarter of 2020 the estimated annual effective tax rate based on expected taxes to be paid or received in each of our jurisdictions, as applied to the consolidated income before income taxes and (ii) in both fourth quarters, the actual income tax expense or benefit in each jurisdiction as well as the true-up of tax provisions based upon the most updated visibility on open tax positions.

# Net income attributable to parent company

			Three M	Months Ended		
	December 2020	31,	September 26, 2020		D	December 31, 2019
			(Unaudit	ed, in millions)		
Net income attributable to parent company	\$	582	\$	242	\$	392
As percentage of net revenues		18.0%		9.1%		14.2%

For the fourth quarter of 2020, we reported a net income of \$582 million, compared to a net income of \$242 million and \$392 million in the prior and year-ago quarters, respectively. The fourth quarter 2020 net income represented diluted earnings per share of \$0.63 compared to \$0.26 in the prior quarter and \$0.43 in the prior-year quarter.

## Impact of Changes in Exchange Rates

Our results of operations and financial condition can be significantly affected by material changes in the exchange rates between the U.S. dollar and other currencies, particularly the Euro.

As a market practice, the reference currency for the semiconductor industry is the U.S. dollar and the market prices of semiconductor products are mainly denominated in U.S. dollars. However, revenues for some of our products are quoted in currencies other than the U.S. dollar and as such are directly affected by fluctuations in the value of the U.S. dollar. As a result of currency variations, the appreciation of the Euro compared to the U.S. dollar could increase our level of revenues when reported in U.S. dollars or the depreciation of the Euro compared to the U.S. dollar could decrease our level of revenues when reported in U.S. dollars. Over time and depending on market conditions, the prices in the industry could align to the equivalent amount in U.S. dollars, except that there is a lag between the changes in the currency rate and the adjustment in the price paid in local currency, which is proportional to the amplitude of the currency swing, and such adjustment could be only partial and/or delayed, depending on market demand. Furthermore, certain significant costs incurred by us, such as manufacturing costs, SG&A expenses, and R&D expenses, are largely incurred in the currency of the jurisdictions in which our operations are located. Given that most of our operations are located in the Euro zone and other non-U.S. dollar currency areas, including Singapore, our costs tend to increase when translated into U.S. dollars when the U.S. dollar weakens or to decrease when the U.S. dollar strengthens

Our principal strategy to reduce the risks associated with exchange rate fluctuations is to balance as much as possible the proportion of sales to our customers denominated in U.S. dollars with the amount of materials, purchases and services from our suppliers denominated in U.S. dollars, thereby reducing the potential exchange rate impact of certain variable costs relative to revenues. Moreover, in order to further reduce the exposure to U.S. dollar exchange fluctuations, we hedge certain line items on our Consolidated Statements of Income, in particular with respect to a portion of costs of sales, most of R&D expenses and certain SG&A expenses, located in the Euro zone, which we designate as cash flow hedge transactions. We use two different types of hedging instruments: forward contracts and currency options (including collars).

Our Consolidated Statements of Income included income and expense items translated at the average U.S. dollar exchange rate for the period, plus the impact of the hedging contracts expiring during the period. Our effective average exchange rate was \$1.13 for  $\epsilon$ 1.00 for the full year 2020 and \$1.14 for  $\epsilon$ 1.00 for the full year 2019. Our effective exchange rate was \$1.16 for  $\epsilon$ 1.00 for the fourth quarter of 2020, \$1.13 for  $\epsilon$ 1.00 for the third quarter of 2020 and \$1.12 for  $\epsilon$ 1.00 for the fourth quarter of 2019. These effective exchange rates reflect the actual exchange rates combined with the impact of cash flow hedge transactions impacting earnings in the period.

The time horizon of our cash flow hedging on manufacturing costs and operating expenses may run up to 24 months, for a limited percentage of our exposure to the Euro, depending on currency market circumstances. As at December 31, 2020, the outstanding hedged amounts were 675 million to cover manufacturing costs and 6452 million to cover operating expenses, both at an average exchange rate of approximately \$1.19 for 61.00 (considering the collars at upper strike), maturing from January 6, 2021 to December 1, 2021. As at December 31, 2020, measured in respect to the exchange rate at period closing of about \$1.23 to 61.00, these outstanding hedging contracts and certain expiring contracts covering manufacturing expenses capitalized in inventory resulted in a deferred gain of approximately \$57 million before tax, recorded in "Accumulated other comprehensive income (loss)" in the Consolidated Statement of Equity, compared to a deferred loss of approximately \$4 million before tax at December 31, 2019.

We also hedge certain manufacturing costs denominated in Singapore dollars (SGD); as at December 31, 2020, the outstanding hedged amounts were SGD 157 million at an average exchange rate of about SGD 1.37 to \$1.00 maturing over the period from January 6, 2021 to December 2, 2021. As at December 31, 2020, these outstanding hedging contracts resulted in \$4 million deferred gain, recorded in "Accumulated other comprehensive income (loss)" in the Consolidated Statement of Equity, compared to a deferred gain of approximately \$1 million before tax at December 31, 2019.

Our cash flow hedge policy is not intended to cover our full exposure and is based on hedging a declining portion of our exposure in the next four quarters. In 2020, as a result of our cash flow hedging, we recycled a gain in earnings of less than \$1 million, of which approximately a \$3 million loss impacting costs of goods sold,

fully offset by \$2 million gain impacting research and development and \$1 million gain impacting selling, general and administrative expenses. In 2019, we recorded a net loss of \$79 million.

In addition to our cash flow hedging, in order to mitigate potential exchange rate risks on our commercial transactions, we purchase and enter into foreign exchange forward contracts and currency options to cover foreign currency exposure in payables and receivables at our affiliates, which we do not designate for hedge accounting. We may in the future purchase or sell similar types of instruments. See "Item 11. Quantitative Disclosures About Market Risk" in our Form 20-F. Furthermore, we may not predict on a timely basis the amount of future transactions in the volatile industry environment. No assurance may be given that our hedging activities will sufficiently protect us against fluctuations in the value of the U.S. dollar. Consequently, our results of operations have been and may continue to be impacted by fluctuations in exchange rates. The net effect of our consolidated foreign exchange exposure in payables and receivables at our affiliates resulted in a net gain of \$8 million recorded in "Other income and expenses, net" in our 2020 Consolidated Statements of Income compared to net gain of less than \$1 million in 2019 and net gain of \$4 million in 2018.

The assets and liabilities of subsidiaries which functional currency is different from the U.S. dollar reporting currency are, for consolidation purposes, translated into U.S. dollars at the period-end exchange rate. Income and expenses, as well as cash flows, are translated at the average exchange rate for the period. The balance sheet impact, as well as the income statement and cash flow impacts, of these currency translations have been, and may be expected to be, significant from period to period since a large part of our assets, liabilities and activities are accounted for in Euros as they are located in jurisdictions where the Euro is the functional currency. Adjustments resulting from the currency translation are recorded directly in equity and are reported as "Accumulated other comprehensive income (loss)" in the Consolidated Statements of Equity. At December 31, 2020, our outstanding indebtedness was denominated mainly in U.S. dollars and in Euros.

For a more detailed discussion, see "Item 3. Key Information — Risk Factors — Risks Related to Our Operations".

#### Impact of Changes in Interest Rates

Interest rates may fluctuate upon changes in financial market conditions and material changes can affect our results of operations and financial condition, since these changes can impact the total interest income received on our cash and cash equivalents, short-term deposits and marketable securities, as well as the total interest expense paid on our financial debt.

Our interest income (expense), net, as reported in our Consolidated Statements of Income, is the balance between interest income received from our cash and cash equivalents, short-term deposits and marketable securities and interest expense paid on our financial liabilities (including the sale without recourse of receivables, if any), non-cash interest expense on the senior unsecured convertible bonds and bank fees (including fees on committed credit lines). Our interest income is dependent upon fluctuations in interest rates, mainly in U.S. dollars and Euros, since we invest primarily on a short-term basis; any increase or decrease in the market interest rates would mean a proportional increase or decrease in our interest expenses are also dependent upon fluctuations in interest rates since our financial liabilities include European Investment Bank Floating Rate Loans at Libor and Euribor plus variable spreads.

At December 31, 2020, our total liquidity, including cash and cash equivalents, short-term deposits and marketable securities, generated an average interest income rate of 0.41%. At the same date, the average interest rate on our outstanding debt was 1.71% including the non-cash effective interest of the 2017 Senior Unsecured Convertible Bonds and the 2020 Senior Unsecured Convertible Bonds, while the average coupon interest rate was only 0.11%.

# Impact of Changes in Equity Prices

As at December 31, 2020, we did not hold any significant investments in equity securities with a material exposure to equity price risk. However, on these equity participations, carrying value could be reduced due to further losses or impairment charges. See Note 12 and Note 13 to our Consolidated Financial Statements.

# **Liquidity and Capital Resources**

Treasury activities are regulated by our policies, which define procedures, objectives and controls. Our policies focus on the management of our financial risk in terms of exposure to currency rates and interest rates. Most treasury activities are centralized, with any local treasury activities subject to oversight from our head treasury office. The majority of our cash and cash equivalents are held in U.S. dollars and Euros and are placed with financial institutions rated at least a single A long-term rating, meaning at least A3 from Moody's Investors Service ("Moody's") and A- from Standard & Poor's ("S&P") or Fitch Ratings ("Fitch"), or better. Marginal amounts are held in other currencies. See "Item 11. Quantitative and Qualitative Disclosures About Market Risk".

Our total liquidity was \$3,720 million as at December 31, 2020, increasing compared to \$2,744 million as at December 31, 2019. As at December 31, 2020, our total liquidity was comprised of \$3,006 million in cash and cash equivalents, \$581 million in short-term deposits and \$133 million in marketable securities, all considered as current assets.

As at December 31, 2020, marketable securities were \$133 million invested in U.S. Treasury Bonds, with a rating of Aaa/AA+/AAA from Moody's, S&P and Fitch, respectively, and a weighted average maturity of 0.5 years. The securities are classified as available-for-sale and reported at fair value. This fair value measurement corresponds to a Level 1 fair value hierarchy measurement. To optimize the return yield on our short-term investments, we also held \$581 million of available cash in short-term deposits as at December 31, 2020. These short-term deposits represent cash investments with original maturity beyond three months and no significant risk of changes in fair value.

#### Liquidity

We maintain a significant cash position and a low debt-to-equity ratio, which provides us with adequate financial flexibility. As in the past, our cash management policy is to finance our investment needs mainly with net cash from operating activities.

During 2020, our net cash increased by \$399 million. The components of the net cash increase for 2020 and the comparable periods are set forth below:

	_	Year Ended December 31,										
		2020		2019		2018						
				(In millions)								
Net cash from operating activities		2,093	\$	1,869	\$	1,845						
Net cash used in investing activities		(2,043)	)	(1,172)		(1,212)						
Net cash from (used in) financing activities		348		(343)		(122)						
Effect of changes in exchange rates		1		(13)		(4)						
Net cash increase		399	\$	341	\$	507						

Net cash from operating activities. Net cash from operating activities is the sum of (i) net income (loss) adjusted for non-cash items and (ii) changes in net working capital. The net cash from operating activities in 2020 was \$2,093 million compared to \$1,869 million in the prior year, increasing mainly due to higher net income and more favorable changes in net working capital.

Net cash used in investing activities. Investing activities used \$2,043 million of cash in 2020, increasing from \$1,172 million in the prior year, mainly as a result of net investments in short-term deposits of \$577 million. Payments for purchase of tangible assets, net of proceeds, totaled \$1,279 million, compared to \$1,174 million reported in the prior-year period. In 2020, we also paid \$113 million for business acquisitions compared to \$127 million in the prior-year period and \$75 million for intangible assets, compared to \$69 million in the prior-year period.

Net cash from (used in) financing activities. Net cash from financing activities was \$348 million in 2020, compared to \$343 million used in 2019, and consisted mainly of \$1.57 billion net proceeds from issuance of the 2020 Senior Unsecured Convertible Bonds, partially offset by \$709 million used to settle Tranche A 2017 Senior Unsecured Convertible Bonds, \$184 million of long-term debt repayment, \$125 million repurchase of common stock and \$168 million of dividends paid to our stockholders.

Free Cash Flow (non-U.S. GAAP measure). We also present Free Cash Flow, which is a non-U.S. GAAP measure, defined as (i) net cash from operating activities plus (ii) net cash used in investing activities, excluding payment for purchases of (and proceeds from matured) marketable securities, and net investment in short-term deposits, which are considered as temporary financial investments. The result of this definition is ultimately net cash from operating activities plus payment for purchase and proceeds from sale of tangible, intangible and financial assets, and net cash paid for business acquisitions. We believe Free Cash Flow, a non-U.S. GAAP measure, provides useful information for investors and management because it measures our capacity to generate cash from our operating and investing activities to sustain our operations. Free Cash Flow is not a U.S. GAAP measure and does not represent total cash flow since it does not include the cash flows generated by or used in financing activities. Free Cash Flow reconciles with the total cash flow and the net cash increase (decrease) by including the payment for purchases of (and proceeds from matured) marketable securities and net investment in short-term deposits, the net cash from (used in) financing activities and the effect of changes in exchange rates. In addition, our definition of Free Cash Flow may differ from definitions used by other companies. Free Cash Flow is determined from our Consolidated Statements of Cash Flows as follows:

	Year Ended December 31,							
	2020			2019		2018		
				(In millions)				
Net cash from operating activities	\$	2,093	\$	1,869	\$	1,845		
Net cash used in investing activities		(2,043)		(1,172)		(1,212)		
Excluding:								
Payment for purchase (and proceeds from matured)								
marketable securities and net investment in short-term deposits		577		(200)		(100)		
Payment for purchase and proceeds from sale of								
tangible and intangible assets, payment for								
business acquisitions(1)		(1,466)		(1,372)		(1,312)		
Free Cash Flow (non-U.S. GAAP measure)	\$	627	\$	497	\$	533		

Reflects the total of the following line items reconciled with our Consolidated Statements of Cash Flows relating to the investing activities: Payment for purchase of tangible assets, Proceeds from sale of tangible assets, Proceeds from sale of tangible assets, Payment for purchase of intangible assets, Payment for purchase of financial assets, Proceeds from sale of financial assets, Proceeds from sale of equity investments and Payment for business acquisitions, net of cash acquired.

Free Cash Flow was positive \$627 million in 2020, compared to positive \$497 million and positive \$533 million in 2019 and 2018, respectively.

## **Capital Resources**

Net Financial Position (non-U.S. GAAP measure). Our Net Financial Position represents the difference between our total liquidity and our total financial debt. Our total liquidity includes cash and cash equivalents, restricted cash, short-term deposits and marketable securities, and our total financial debt includes short-term debt and long-term debt, as represented in our Consolidated Balance Sheets. Net Financial Position is not a U.S. GAAP measure, but we believe it provides useful information for investors and management because it gives evidence of our global position either in terms of net indebtedness or net cash by measuring our capital resources based on cash and cash equivalents, restricted cash, short-term deposits and marketable securities and the total level of our financial indebtedness. Our definition of Net Financial Position may differ from definitions used by other companies and therefore comparability may be limited. Our Net Financial Position for each period has been determined from our Consolidated Balance Sheets as follows:

	Year Ended December 31,								
	2020			2019		2018			
				(In millions)					
Cash and cash equivalents	\$	3,006	\$	2,597	\$	2,266			
Restricted cash		_		10		_			
Short-term deposits		581		4		_			
Marketable securities		133		133		330			
Total liquidity		3,720		2,744		2,596			
Short-term debt		(795)		(173)		(146)			
Long-term debt		(1,826)		(1,899)		(1,764)			
Total financial debt		(2,621)		(2,072)		(1,910)			
Net Financial Position	\$	1,099	\$	672	\$	686			

Our Net Financial Position as at December 31, 2020 was a net cash position of \$1,099 million, increasing compared to the net cash position of \$672 million at December 31, 2019.

Cash and cash equivalents amounted to \$3,006 million as at December 31, 2020.

Short-term deposits amounted to \$581 million as at December 31, 2020 and consisted of available liquidity with original maturity over three months.

Marketable securities amounted to \$133 million as at December 31, 2020 and consisted of U.S. Treasury Bonds classified as available-for-sale.

At December 31, 2020, our financial debt was \$2,621 million, composed of (i) \$795 million of short-term debt and (ii) \$1,826 million of long-term debt. The breakdown of our total financial debt included (i) \$579 million in European Investment Bank ("EIB") loans, (ii) \$2,038 million in Senior unsecured convertible bonds, and (iii) \$4 million in loans from other funding programs and other long-term loans

The EIB Loans are comprised of two long-term amortizing credit facilities as part of our R&D funding programs. The first, signed in 2013, is a  $\epsilon$ 350 million multi-currency loan which also supports our R&D programs. It was drawn in U.S. dollars for an amount of \$471 million, of which \$59 million is outstanding as at December 31, 2020. The second, signed in August 2017, is a  $\epsilon$ 500 million loan, in relation to R&D and capital expenditure investments in the European Union. It was fully drawn in Euros corresponding to \$520 million outstanding as at December 31, 2020. Additionally, in February 2020, we entered into a new  $\epsilon$ 500 million facility agreement with the EIB to support research and development and capital expenditure programs in Italy and France, undrawn as at December 31, 2020. Out of the  $\epsilon$ 500 million undrawn as at December 31, 2020, an amount of  $\epsilon$ 335 million was drawn in February 2021.

On July 3, 2017, we issued a \$1.5 billion of 2017 Senior Unsecured Convertible Bonds convertible into new or existing ordinary shares of the Company, for net proceeds of \$1,502 million. The 2017 Senior Unsecured Convertible Bonds were issued in two \$750 million principal amount tranches, Tranche A with a maturity of 5 years (37.5% conversion premium, negative 0.25% yield to maturity, 0% coupon) and Tranche B with a maturity of 7 years (37.5% conversion premium, 0.25% yield to maturity, 0.25% coupon). The conversion price at issuance was \$20.54 on each tranche corresponding approximately to 36.5 million underlying shares per tranche. The 2017 Senior Unsecured Convertible Bonds are convertible by the bondholders or callable by us, following a given time schedule, if certain conditions are satisfied. Under the

terms of the 2017 Senior Unsecured Convertible Bonds, we can satisfy the conversion rights either in cash or shares, or a combination of the two, at our election. Upon initial recognition, the proceeds were allocated between debt and equity by determining first the fair value of the liability component using an income approach.

The call option available to us for the early redemption of Tranche A was exercised in July 2020. As a consequence, bondholders exercised their conversion rights on the full Tranche A. As we elected to net share settle the bonds, each conversion exercised by the bondholders followed the process defined in the original terms and conditions of the 2017 Senior Unsecured Convertible Bonds, which determined the actual number of shares to be transferred upon each conversion. We settled Tranche A of 2017 Senior Unsecured Convertible Bonds upon conversion by redeeming through cash the \$750 million principal amount, and by settling the residual consideration through the delivery of 11.4 million treasury shares. The net-share settlement was fully completed as at October 1, 2020.

On August 4, 2020, we issued a \$1.5 billion of 2020 Senior Unsecured Convertible Bonds convertible into new or existing ordinary shares of the Company. The 2020 Senior Unsecured Convertible Bonds were issued in two \$750 million principal amount tranches, Tranche A with a maturity of 5 years (47.5% conversion premium, negative 1.12% yield to maturity, 0% coupon) and Tranche B with a maturity of 7 years (52.5% conversion premium, negative 0.63% yield to maturity, 0% coupon). The conversion price at issuance is \$43.62 on Tranche A and \$45.10 on Tranche B. The 2020 Senior Unsecured Convertible Bonds are convertible by the bondholders if certain conditions are satisfied. Under the terms of the 2020 Senior Unsecured Convertible Bonds, we can satisfy the conversion rights either in cash or shares, or a combination of the two, at our election. Proceeds from the issuance of the bonds, net of \$10 million of transaction costs, amounted of \$1,567 million. In application of the treasury method implying that we intend to settle the bonds on a net-share basis, there was no dilutive effect of the 2020 Senior Unsecured Convertible Bonds on the diluted Earnings per Share since the conversion features were out-of-the-money.

Our long-term debt contains standard conditions but does not impose minimum financial ratios. Committed credit facilities amounted to approximately \$1.2 billion as at December 31, 2020, including a  $\epsilon$ 500 million long-term line signed with the EIB in the first quarter of 2020, undrawn as at December 31, 2020. Out of the  $\epsilon$ 500 million undrawn as at December 31, 2020, an amount of  $\epsilon$ 335 million was drawn in February 2021.

On November 5, 2018 we announced the launch of a share buy-back program of up to \$750 million to be executed within a three-year period. Shares repurchased under the buy-back program are disclosed on a weekly basis, including a summary of the transactions posted on our website (www.st.com), and are held as treasury shares. As at December 31, 2020, we held 5.8 million treasury shares. Our stock repurchase program may be suspended or terminated at any time.

As at December 31, 2020, debt payments at principal amount by period were as follows:

					Payments	<b>Due by Period</b>			
	Total	2021	2022			2023	2024	2025	Thereafter
					(In	millions)			
Long-term debt (including current portion)	\$ 2,834	\$ 121	\$	62	\$	62	\$ 812	\$ 812	\$ 965

In the table above, Tranche B of our 2017 Senior Unsecured Convertible Bonds are presented at their nominal value according to the original maturity date of July 2024. In line with the contractual terms of the convertible bonds, bondholders will have full conversion rights on Tranche B 2017 Senior Unsecured Convertible Bonds starting July 26, 2021. Therefore, the liability component of Tranche B 2017 Senior Unsecured Convertible Bonds was reclassified as short-term debt in the consolidated balance sheet as at December 31, 2020.

Our current ratings with the three major rating agencies that report on us on a solicited basis, are as follows: S&P: "BBB" with stable outlook; Moody's: "Baa3" with positive outlook; Fitch: "BBB" with stable outlook.

Contractual Obligations, Commercial Commitments and Contingencies

Our contractual obligations, commercial commitments and contingencies as at December 31, 2020, and for each of the five years to come and thereafter, were as follows:(1)

	Total	2021	2022	2023	2024	2025	Thereafter
Purchase obligations(2)	\$ 1,978	\$ 1,488	\$ 237	\$ 124	\$ 68	\$ 61	\$ —
of which:							
Equipment and other asset							
purchases	916	916	_	_	_	_	_
Foundry purchases	935	475	216	119	64	61	_
Software, design, technologies							
and licenses	127	97	21	5	4	_	_
Other obligations(2)	869	452	120	62	83	62	90
Lease obligations (including							
current portion)(3)	196	54	41	29	19	10	43
Long-term debt obligations							
(including current portion)(3)(4)	2,834	121	62	62	812	812	965
Pension obligations (including							
current portion)(3)	511	39	31	41	52	57	291
Other long-term liabilities(3)(5)	346		94	33	84	29	106
Total	\$ 6,734	\$ 2,154	\$ 585	\$ 351	\$ 1,118	\$ 1,031	\$ 1,495

Contingent liabilities which cannot be quantified are excluded from the table above. Items not reflected on the Consolidated Balance Sheet at December 31, 2020. Items reflected on the Consolidated Balance Sheet at December 31, 2020.

Purchase obligations are primarily comprised of purchase commitments for equipment, for outsourced foundry wafers and for software licenses

Other obligations primarily relate to firm contractual commitments with respect to partnership and cooperation agreements.

Long-term debt obligations mainly consist of bank loans and senior unsecured convertible bonds. In the table above, Tranche B of our 2017 Senior Unsecured Convertible Bonds are presented at their nominal value according to the original maturity date of July 2024. In line with the contractual terms of the convertible bonds, bondholders will have full conversion rights on Tranche B of our 2017 Senior Unsecured Convertible Bonds starting July 26, 2021. Therefore, the liability component of Tranche B of our 2017 Senior Unsecured Convertible Bonds was reclassified as short-term debt in the consolidated balance sheet as at December 31, 2020. In 2021 we expect to repay with available cash and cash equivalents a \$120 million loan received from the European Investment Bank as an annual installment. See "- Net financial position (non-U.S. GAAP measure)" above.

Pension obligations amounting to \$511 million consist of our best estimates of the amounts projected to be payable by us for the pension and post-employment plans. The final actual amount to be paid and related timing of such payments may vary significantly due to early retirements, terminations and changes in assumptions rates. See Note 16 to our Consolidated Financial Statements.

Other long-term liabilities mainly include future obligations related to other long-term employees benefits and miscellaneous contractual obligations. In accordance with the authoritative guidance for accounting for uncertainty in income taxes, as at December 31, 2020, we had \$48 million of estimated liabilities on uncertain tax positions.

nems reflected on the Consolidated Balance Sheet at December 31, 2020.

For long-term debt obligations the difference between the total obligations and the total carrying amount of long-term debt is due to the unamortized discount on the dual tranche senior unsecured convertible bonds. See Note 15 to our Consolidated Financial Statements at December 31, 2020 for additional information related to long-term debt.

For other long-term liabilities, the difference with the amount reported on the Consolidated Balance Sheet at December 31, 2020 is related to the long-term portion of the lease obligation of \$142 million reported in line "Lease obligations". See Note 11 and Note 17 to our Consolidated Financial Statements at December 31, 2020 for additional information related to leasing. (5)

Off-Balance Sheet Arrangements

We had no material off-balance sheet arrangements at December 31, 2020.

## Financial Outlook: Capital Investment

Our policy is to modulate our capital spending according to the evolution of the semiconductor market. To support the strong market demand and our strategic initiatives, we plan to invest in 2021 about \$1.8 billion to \$2.0 billion in capital expenditures. A portion of these capital expenditures will be devoted to support strategic initiatives: (i) in Agrate, Italy the progression of the new 300 mm fab to support next generation mixed signal, IGBT and power technologies; (ii) R&D for GaN power technologies in Tours 200 mm and prototyping for GaN RF devices in Catania 150 mm and (iii) investments for Silicon Carbide substrates activities following the Norstel acquisition. In addition to our strategic initiatives, our main capital investment in front-end is in (i) our 300 mm fab in Crolles, optimizing existing infrastructures to support production ramp up on our main runner technologies; (ii) increase capacity for SiC Power Mosfet in our Catania and Singapore facilities; and (iii) mix evolution, and a few selected programs of capacity growth and infrastructure preparation in some of our most advanced 200 mm fabs including the Singapore fab we acquired from Micron. The most important 2021 capital investments for our back-end facilities are expected to be: (i) capacity growth on certain package families, including the SiC technology and Automotive related packages, next generation optical sensing technologies and the new generation of Intelligent Power Modules for Automotive and Industrial applications; (ii) modernization and rationalization of package lines targeting cost savings benefits; and (iii) specific investments in the areas of factory automation, quality, environment and energy savings, in part to support our commitment to be carbon neutral in 2027. In addition, we will invest in overall capacity adjustment in final testing and wafers probing (EWS) to support demand and a changed product mix as well as invest in quality, safety, maintenance, productivity, cost savings and direct emission reduction plan in

We will continue to invest to support revenues growth and new products introduction, taking into consideration factors such as trends in the semiconductor industry and capacity utilization. We expect to need significant financial resources in the coming years for capital expenditures and for our investments in manufacturing and R&D. We plan to fund our capital requirements from cash provided by operating activities, available funds and support from third parties, and may have recourse to borrowings under available credit lines and, to the extent necessary or attractive based on market conditions prevailing at the time, the issuance of debt, convertible bonds or additional equity securities. A substantial deterioration of our economic results, and consequently of our profitability, could generate a deterioration of the cash generated by our operating activities. Therefore, there can be no assurance that, in future periods, we will generate the same level of cash as in prior years to fund our capital expenditure plans for expanding/upgrading our production facilities, our working capital requirements, our R&D and manufacturing costs.

We believe that we have the financial resources needed to meet our currently projected business requirements for the next twelve months, including capital expenditures for our manufacturing activities, working capital requirements, approved dividend payments and the repayment of our debts in line with their maturity dates.

## Impact of Recently Issued U.S. Accounting Standards

See Note 2 to our Consolidated Financial Statements.

## **Equity-method investments**

See Note 12 to our Consolidated Financial Statements.

## **Backlog and Customers**

See "Item 4. Information on the Company — Backlog".

# Item 6. Directors, Senior Management and Employees

#### **Directors and Senior Management**

The management of our Company is entrusted to the Managing Board under the supervision of the Supervisory Board.

## Supervisory Board

Our Supervisory Board advises our Managing Board and is responsible for supervising the policies pursued by our Managing Board, the manner in which the Managing Board implements the long-term value creation strategy and the general course of our affairs and business. Our Supervisory Board consists of such number of members as is resolved by our AGM upon a non-binding proposal of our Supervisory Board, with a minimum of six members. Decisions by our AGM concerning the number and the identity of our Supervisory Board members are taken by a simple majority of the votes cast at a meeting, provided quorum conditions are met.

Our Supervisory Board was composed of the following nine members as at December 31, 2020:

		Year First	Term	
Name	Position	Appointed	Expires	Age
Maurizio Tamagnini	Chairman	2014	2023	55
Nicolas Dufourcq	Vice Chairman	2015	2021	57
Janet Davidson	Member	2013	2022	64
Ana de Pro Gonzalo	Member	2020	2023	53
Yann Delabrière	Member	2020	2023	70
Heleen Kersten	Member	2014	2023	55
Lucia Morselli	Member	2019	2022	64
Alessandro Rivera	Member	2011	2023	50
Frédéric Sanchez	Member	2017	2023	60

Resolutions of our Supervisory Board require the approval of at least three-quarters of its members in office, with each member being entitled to one vote. Our Supervisory Board must meet upon request by two or more of its members or by our Managing Board. Our Supervisory Board meets at least five times a year, including once per quarter to approve our quarterly, semi-annual and annual accounts and their release. In 2020, the average attendance rate for the meetings of our Supervisory Board was 97%. Our Supervisory Board has adopted a Supervisory Board Charter, which is available on our website (www.st.com).

Our Supervisory Board may make a proposal to our AGM for the suspension or dismissal of one or more of its members. Each member of our Supervisory Board must resign no later than three years after appointment, as described in our Articles of Association, but may be reappointed following the expiration of his/her term of office. Pursuant to Dutch law, there is no mandatory retirement age for members of our Supervisory Board. Members of the Supervisory Board may be suspended or dismissed by our AGM. Certain of our Supervisory Board members are proposed by and may retain certain relationships with our direct or indirect shareholders represented through our major shareholder. See "Item 7. Major Shareholders and Related Party Transactions — Major Shareholders".

In accordance with the best practice provisions of the Dutch Corporate Governance Code, on an annual basis our Supervisory Board undertakes to perform an evaluation of the functioning of the Managing Board and the Supervisory Board (which also includes an evaluation of the functioning of the Supervisory Board's committees and its members). Once every three years, this evaluation is conducted by an independent external expert, whose mission is to assist the Supervisory Board in this evaluation through, *inter alia*, conducting interviews with individual members of the Supervisory Board and Managing Board and facilitating discussions within the Supervisory Board on the functioning of the boards, its committees and its members, including an evaluation of the involvement of each member, the culture within the Supervisory Board and the Supervisory Board and the Managing Board. The evaluation for the year ended December 31, 2020 was conducted by an independent external expert from November 2020 – January 2021 and was completed on January 27, 2021. The independent external expert and the Supervisory Board concluded that both our Supervisory Board and our Managing Board are functioning adequately and acknowledged material improvements from the recommendations made during the prior independent evaluation completed in 2017 and noted opportunities for further improvements including but not limited to the onboarding of new members, streamlining and simplifying meetings, diversity and succession planning, and strategic initiatives.

# Biographies of our Current Supervisory Board Members

Maurizio Tamagnini has been a member since June 2014 and has been the Chairman of our Supervisory Board since June 2020. He was the Supervisory Board's Chairman from June 2017 to June 2020. He also serves on our Supervisory Board's Nomination and Corporate Governance Committee and chairs its Compensation Committee and Strategic Committee. Mr. Tamagnini is currently chief executive officer of FSI Sgr Spa, an asset management company participated, with a significant stake (39%), among others, by Cassa depositi e prestiti Spa (CDP), which is 82.7% controlled by the Italian Government. FSI Sgr Spa manages "FSI I", a private equity closed-end fund with approximately €1.4 billion capital endowment, specialized on growth equity investments in Italian midmarket companies with development potential. He was, until April 2019, non-executive chairman of FSI Investimenti Spa, which is controlled 77% by CDP. Until March 2016, Mr. Tamagnini was chief executive officer and chairman of the Investment Committee of Fondo Strategico Italiano Spa (now CDP Equity Spa), an investment company controlled by CDP. Until April 2016, he was chairman of the joint venture between Fondo Strategico Italiano Spa and Qatar Holding (IQ Made in Italy Investment Company Spa) with capital endowment of up to €2 billion in total for investments in the food, brands, furniture & design and tourism sectors. He was previously Southern European Manager of the Corporate & Investments Banking division of Bank of America Merrill Lynch and a member of the Executive Committee of Bank of America Merrill Lynch for the EMEA region. Mr. Tamagnini has gained over 25 years of experience in the financial sector specializing in the areas of Corporate Finance, Private Equity, Debt and Equity. Mr. Tamagnini salso a member of the International Advisory Board of BIDMC Harvard Medical School. He holds a degree in International Monetary Economics from Bocconi University in Milan and has also studied at the Rensselaer Polytechnic Institute — Troy in New York, USA.

Nicolas Dufourcq has been a member of our Supervisory Board since May 2015, its Chairman from June 2017 to June 2020 and its Vice-Chairman since June 2020. He serves on our Supervisory Board's Nomination and Corporate Governance Committee, Compensation Committee and Strategic Committee. Mr. Dufourcq is a graduate of HEC (Hautes Etudes Commerciales) and ENA (Ecole Nationale d'Administration). He began his career at the French Ministry of Finance and Economics before joining the Ministry of Health and Social affairs in 1992. In 1994, he joined France Telecom, where he created the Multimedia division, before going on to chair Wanadoo, the firm's listed Internet and Yellow Pages subsidiary. After joining the Capgemini Group in 2003, he was made responsible for the Central and Southern Europe region, successfully leading their financial turnaround. He was appointed Chief Financial Officer of the Group and member of the Executive Committee in September 2004. In 2005, he was named deputy Chief Executive Officer in charge of finance, risk management, IT, delivery, purchases and LEAN program and, in 2007, also in charge of the follow-up of the group's major contracts. On February 7, 2013, Mr. Dufourcq was appointed Chief Executive Officer of Bpifrance (Banque Publique d'Investissement), which is indirectly controlled by the French Government and is one of the shareholders of ST Holding. Until January 2021, he was the permanent representative of Bpifrance Participations as a member of the board of directors of Orange. Mr. Dufourcq is also a member of the strategic advisory board of Euler Hermes, a member of the board of directors of Doctolib (since April 2020) and Stellantis (since January 2021).

Janet Davidson has been a member of our Supervisory Board since June 2013. She serves on our Supervisory Board's Audit Committee and Strategic Committee. She began her career in 1979 as a member of the Technical Staff of Bell Laboratories, Lucent Technologies (as of 2006 Alcatel Lucent), and served from 1979 through 2011 in several key positions, most recently as Chief Strategy Officer (2005 – 2006), Chief Compliance Officer (2006 – 2008) and EVP Quality & Customer Care (2008 – 2011). From 2005 through 2012, Ms. Davidson was a member of the Lehigh University Board of Trustees. In 2007 she served on the Riverside Symphonia Board of Trustees and in 2005 and 2006, Ms. Davidson was a member of the Liberty Science Center Board of Trustees. Ms. Davidson was a member of the board of the Alcatel Lucent Foundation from 2011 until 2014 and a member of the board of directors of Millicom from April 2016 until June 2020. Ms. Davidson is also a member of the board of the AES Corporation, since February 2019. Ms. Davidson is a graduate of the Georgia Institute of Technology (Georgia Tech), Atlanta, GA, USA, and Lehigh University, Bethlehem, PA, USA and holds a Master's degree in Electrical Engineering.

Ana de Pro Gonzalo has been a member of our Supervisory Board since June 2020. She chairs our Supervisory Board's Audit Committee. Since June 2019, Ms. de Pro Gonzalo is an independent member of the Global Steering Group for Impact Assessment (Consejo Asesor Nacional Español); since October 2019, she has been an independent non-executive director for National Express Group PLC and a member of its safety and security committee, audit committee and nominations committee; and since December 2020, she has also been an independent non-executive director for Indra Sistemas S.A. and member of its audit committee. She was until

December 2020 chief financial officer of Amadeus IT Holding (a world leading technology provider and transaction processor for the global travel and tourism industry), with global responsibility for financial management and control for the Amadeus group. She was appointed in this role in February 2010 and was also a member of the Amadeus executive management team. From 2002 to 2010, Ms. de Pro Gonzalo was corporate general manager at Sacyr Vallehermoso and was instrumental in leading the international expansion of one of the major construction groups in the world. From 1994 to 2002, Ms. de Pro Gonzalo was deputy general manager and finance director at Metrovacesa, and from 1990 to 1994 she was a senior auditor at Arthur Andersen. Ms. de Pro Gonzalo holds a BSc in Business Studies, specializing in Auditing, from Universidad Complutense de Madrid, and completed IESE Business School's general management executive program.

Yann Delabrière has been a member of our Supervisory Board since June 2020. He serves on our Supervisory Board's Audit Committee. Mr. Delabrière began his career with the French Court of Auditors before working in the French Foreign Trade Ministry from 1981 to 1983. He served as chief financial officer for COFACE, from 1983 to 1987, and for Printemps (a retail group, now Kering) as group CFO from 1987 to 1990. In 1990, he joined PSA Peugeot Citroën as chief finance officer and, in 1998, he joined the newly created executive committee of the group and, in parallel of his position as CFO, became chairman and chief executive officer of PSA's consumer finance unit, Banque PSA Finance. From February 2007 until July 2016, Mr Delabrière was the chief executive officer of Faurecia, and the chairman of its board of directors until May 2017. He was appointed in April 2017 advisor to the board and then in June 2017 chief executive officer of Zodiac Aerospace and oversaw the sale to Safran group in February 2018. Since July 2020, Mr. Delabrière has been the chairman of the board of Idemia, a global leader in augmented reality, where he previously served as president and CEO (between October 2018 and July 2020). He has been appointed as non-executive member of the board of directors of Leddar Tech in February 2021 and has been the lead independent director of Alstom since March 2017. Mr. Delabrière also served as non-executive director and chairman of the audit committee of Cap Gemini from 2004 to May 2018, and as non-executive director of Société Générale from 2012 to 2016. Mr. Delabrière holds a PhD in Mathematics having graduated from the École Normale Supérieure and the École Nationale d'Administration. He is also a Chevalier de la Légion d'Honneur (Knight of the Legion of Honor) and Officier de l'Ordre National du Mérite (Officer of the National Order of Merit).

Heleen Kersten has been a member of our Supervisory Board since June 2014. She serves on our Supervisory Board's Audit Committee and Compensation Committee and chairs its Nomination and Corporate Governance Committee. Ms. Kersten is a partner at Stibbe in Amsterdam, where she held the position of managing partner from 2008 to 2013. Stibbe is a Benelux law firm with offices in Amsterdam, Brussels, Luxembourg, London, New York, Dubai and Hong Kong. She began her career in 1989 with Stibbe before joining Davis Polk in New York and London (1992-1993). After her return to Stibbe Amsterdam, she rose through the ranks to become a partner in 1997. As a member of the Bar of Amsterdam since 1989, Ms. Kersten specializes in mergers and acquisitions, equity capital markets, corporate law and corporate governance. Ms. Kersten was a supervisory board member of the Dutch listed Bank Van Lanschot N.V. until May 2015 and the chairman of the supervisory board of Egeria Investment B.V. until April 2016. She is currently chairman of the board of the Dutch Red Cross (Vereniging Het Nederlandse Rode Kruis), since January 2020, and a supervisory board member of the Rijksmuseum (Stichting Het Rijksmuseum), since 2015. She is also a board member of the Foundation Concertgebouworkest since 2010. Ms. Kersten holds master's degrees in Dutch law and tax law, both from Leiden University in the Netherlands.

Lucia Morselli has been a member of our Supervisory Board since May 2019. She serves on our Supervisory Board's Audit Committee and Compensation Committee. Ms. Morselli is a member of the board of directors and President of the Related Party Committee and member of the Audit Committee of Telecom Italia. She is a member of the board of directors of EssilorLuxottica (Paris), of Sisal S.p.A., and member of the advisory board of Veneranda Fabbrica del Duomo di Milano. She is also in charge of the degree course in Economics of the Link Campus University (Rome). Ms. Morselli graduated with the highest grades in Mathematics at the University of Pisa. She completed a PhD in Mathematical Physics at the University of Rome and she holds two master degrees, the first one in Business Administration at the University of Turin and the second one in European Public Administration at the University of Milan. She started her career at Olivetti as an assistant to the CFO; from 1985 to 1990 she was senior manager Strategic and Manufacturing Service with Accenture; from 1990 to 1995 she was CFO of the Aircraft Division at Finmeccanica S.p.A. Subsequently she was CEO of Telepiù Group (1995-1998), of News Corporate Europe and Stream (Sky) S.p.A. (1998-2003), of Tecnosistemi S.p.A. (2004), of Mikado S.p.A. and Compagnia Finanziaria S.p.A. (2009), of Bioera S.p.A. (2010-2011), of Berco Group (2013-2014), of Acciai Speciali Terni (2014-2016) and of Acciaitalia spa (2016). She also served as chairman of the board and CEO of Magiste International SA (2006), and of Scorpio Shipping Group Ltd (2011-2013). She was a member of the board of directors of NDS (2004-2005) and IPI S.p.A. (2007-

2008). In 2003 she funded the consulting firm Franco Tatò & Partner. Since 2009 she has been a member of the advisory board (restructuring fund) of DGPA & TATO' Investment Fund. In October 2019 Ms. Morselli was appointed chairman of the board of directors and CEO of ArcelorMittal Italia.

Alessandro Rivera has been a member of our Supervisory Board since May 2011. Mr. Rivera serves on our Supervisory Board's Strategic Committee and Nominating and Corporate Governance Committee. He was appointed as the Director General of the Treasury in August 2018. He is the representative for Finance Deputies meetings of the G7, G20, and the IMF, and a member of the Economic and Financial Committee and the Euro Working Group of the European Union, and of the Board of Directors of the European Stability Mechanism. He chairs the EFC Sub-Committee on IMF related issues. Prior to his appointment as Director General of the Treasury, Mr. Rivera was the Head of Directorate IV "Financial Sector Policy and Regulation Legal Affairs" at the Department of the Treasury, Ministry of Economy and Finance from 2008 to 2018. He served as Head of Unit in the Department of the Treasury from 2000 to 2008 and was responsible for a variety of policy matters: financial services and markets, banking foundations, accounting, finance, corporate governance and auditing. Since 2013, he has been a member of the Board of Directors of Cassa Depositi e Prestiti. He was the Chairman of the Board of Directors of AMCO S.p.A. (formerly SGA S.p.A.) (2017-2020). He was a member of the Boards of Directors and Compensation Committees of: Poste Italiane S.p.A. (2011-2014); Italia Lavoro S.p.A. (2005-2008); Mediocredito del Friuli-Venezia Giulia S.p.A (2001-2003).

Frédéric Sanchez has been a member of our Supervisory Board since June 2017. He serves on our Supervisory Board's Compensation Committee, Strategic Committee and Nomination and Corporate Governance Committee. Mr. Sanchez is the chairman of the executive board of Fives, an industrial engineering group with heritage of over 200 years of engineering excellence and expertise. Fives designs and supplies machines, process equipment and production lines for the world's largest industrial groups in various sectors such as aluminum, steel, glass, automotive, logistics, aerospace, cement and energy, in both developing and developed countries. Mr. Sanchez started his career in 1985 with Renault in Mexico, then in the USA. In 1987 he became a mission manager at Ernst & Young. In 1990 he joined Fives-Lille group, in which he held various positions before being appointed chief financial officer in 1994 and becoming chief operating officer in 1997. In 2002, the "Compagnie de Fives-Lille" (renamed Fives in 2007) became a company with a management board and supervisory board chaired by Mr. Sanchez. In 2018, Fives became a French simplified joint stock company (société par actions simplifiéee) and Mr. Sanchez its chairman and CEO. Within MEDEF (French Business Confederation), Mr. Sanchez is President of MEDEF International, President of the Council of Entrepreneurs France-Saudi Arabia, France-United Arab Emirates and France-Barhein. Mr. Sanchez is an administrator of Primagaz, Orange, Thea and Bureau Veritas and he is honorary co-president of the Alliance Industrie du Futur. Mr. Sanchez graduated from HEC Business School (1983) and Sciences-Po Paris (1985) and he also holds a Master Degree in Economics from Université Paris-Dauphine (1984).

## Supervisory Board Committees

Membership and Attendance. As at December 31, 2020, the composition of the four standing committees of our Supervisory Board was as follows: (i) Ms. Ana de Pro Gonzalo is the Chair of the Audit Committee, and Ms. Janet Davidson, Mr. Yann Delabrière, Ms. Heleen Kersten and Ms. Lucia Morselli are members of the Audit Committee; (ii) Mr. Maurizio Tamagnini is the Chair of the Compensation Committee, and Mr. Nicolas Dufourcq, Ms. Heleen Kersten, Ms. Lucia Morselli and Mr. Frédéric Sanchez are members of the Compensation Committee; (iii) Ms. Heleen Kersten is the Chair of the Nomination and Corporate Governance Committee, and Messrs. Nicolas Dufourcq, Alessandro Rivera, Frédéric Sanchez and Maurizio Tamagnini are members of the Nomination and Corporate Governance Committee; and (iv) Mr. Maurizio Tamagnini is the Chair of the Strategic Committee, and Ms. Janet Davidson, and Messrs. Nicolas Dufourcq, Alessandro Rivera and Frédéric Sanchez are members of the Strategic Committee.

Detailed information on attendance at full Supervisory Board and Supervisory Board Committee meetings during 2020 is as follows:

	Supervisory	%	Audit	%	Compensation	%	Strategic	%	& Corporate Governance	%
Number of Meetings attended in 2020	Board	Attendance	Committee	Attendance	Committee	Attendance	Committee	Attendance	Committee	Attendance
Maurizio Tamagnini	12	100	_	_	2	100	3	100	2	100
Nicolas Dufourcq	12	100	_	_	2	100	3	100	2	100
Janet Davidson	11	92	9	90	_	_	3	100	_	_
Heleen Kersten	12	100	9	90	2	100	_	_	2	100
Yann Delabrière(1)	6	86	5	100	_	_	_	_	_	_
Jean-Georges Malcor(1)	5	100	5	100	_	_	_	_	_	_
Lucia Morselli	12	100	8	80	2	100	_	_	_	_
Alessandro Rivera	12	100	_	_	_	_	3	100	1	50
Frédéric Sanchez	12	100	_	_	2	100	3	100	2	100
Martine Verluyten(2)	5	100	4	80	_	_	_	_	_	_
Ana de Pro Gonzalo(2)	6	86	5	100	_	_	_	_	_	_

(1) The term of Mr. Jean-Georges Malcor ended on June 17, 2020 and Mr. Yann Delabrière was appointed on June 17, 2020 (2) The term of Ms. Martine Verluyten ended on June 17, 2020 and Ms. Ana de Pro Gonzalo was appointed on June 17, 2020

Audit Committee. Our Audit Committee assists the Supervisory Board in fulfilling its oversight responsibilities relating to corporate accounting, reporting practices, and the quality and integrity of our financial reports as well as our auditing practices, legal and regulatory related risks, execution of our auditors' recommendations regarding corporate auditing rules and the independence of our external auditors.

Our Audit Committee met 10 times during 2020. At many of the Audit Committee's meetings, the committee received presentations on current financial and accounting issues and had the opportunity to discuss with our CEO, CFO, Chief Accountant, Chief Audit and Risk Executive, President, Legal Counsel, Chief Compliance Officer and external auditors. Our Audit Committee also proceeded with its annual review of our internal audit function. Our Audit Committee reviewed our annual Consolidated Financial Statements in U.S. GAAP for the year ended December 31, 2020, and the results press release was published on January 28, 2021.

Our Audit Committee approved the compensation of our external auditors for 2020 and discussed the scope of their audit, audit related and non-audit related services for 2020.

At the end of each quarter, prior to each Supervisory Board meeting to approve our quarterly results, our Audit Committee reviewed our interim financial information and the proposed press release and had the opportunity to raise questions to management and the independent registered public accounting firm. In addition, our Audit Committee reviewed our quarterly "Operating and Financial Review and Prospects" and Consolidated Financial Statements (and notes thereto) before they were furnished to the SEC and voluntarily certified by the CEO and the CFO (pursuant to sections 302 and 906 of the Sarbanes Oxley Act). Our Audit Committee also reviewed Operating and Financial Review and Prospects and our Consolidated Financial Statements contained in this Form 20-F, prior to its approval by our Supervisory Board. Furthermore, our Audit Committee monitored our compliance with the European Directive and applicable provisions of Dutch law that require us to prepare a set of accounts pursuant to IFRS in advance of our AGM, which was held on June 17, 2020. See "Item 3. Key Information—Risk Factors—Risks Related to Our Operations".

Our Audit Committee regularly reviewed management's conclusions as to the effectiveness of internal control over financial reporting and supervised the implementation of our corporate Enterprise Risk Management ("ERM") process.

As part of each of its quarterly meetings, our Audit Committee also reviewed our financial results as presented by Management and whistleblowing reports, including independent investigative reports provided in relation thereto.

Compensation Committee. Our Compensation Committee advises our Supervisory Board in relation to the compensation of our President and Chief Executive Officer and sole member of our Managing Board, including the variable portion of such compensation based on performance criteria recommended by our Compensation Committee. Our Compensation Committee also reviews the stock based compensation plans for our senior managers and key employees. Our Compensation Committee met twice in 2020 as well as twice in January 2021 to discuss amendments to the remuneration structure

Among its main activities, in 2020 our Compensation Committee: (i) reviewed the objectives met as compared to the performance criteria relating to the bonus of our President and CEO, Mr. Jean-Marc Chery, for the fiscal year ended on December 31, 2019; (ii) defined the performance targets relating to the bonus of our President and CEO for the fiscal year ending on December 31, 2020 (which targets are based on, *inter alia*, two external criteria including the evolution of our market share and the share price evolution versus PHLX Semiconductor Sector Index<sup>SM</sup> (SOX<sup>SM</sup>), and three internal criteria including total company revenue, operating income and net operating cash flow and a list of special programs (as further detailed in "—Compensation")); (iii) reviewed, on behalf and with the approval of the entire Supervisory Board, the objectives met as compared to the performance criteria relating to the management and key employee unvested stock award plan for the fiscal year ended on, December 31, 2019; and (iv) established, on behalf and with the approval of the entire Supervisory Board, the applicable performance criteria, which must be met by senior managers and selected key employees participating in the employee stock award plans to benefit from such awards. For the 2020 unvested stock awards plan, these performance criteria are based on sales evolution and operating income evolution, both as compared against a panel of ten semiconductor companies, and the return on net assets targets.

Strategic Committee. Our Strategic Committee advises the Supervisory Board on and monitor key developments within the semiconductor industry and our overall strategy, and is, in particular, involved in supervising the execution of corporate strategies and in reviewing long-term planning and budgeting. Our Strategic Committee met three times in 2020. In addition, there were strategic discussions, many of which occurred at extended Supervisory Board meetings and involved all Supervisory Board members.

Nominating and Corporate Governance Committee. Our Nominating and Corporate Governance Committee advises the Supervisory Board on the selection criteria and procedures relating to the appointment of members to our Supervisory Board and Managing Board, and the review of principles relating to corporate governance. Our Nominating and Corporate Governance Committee met twice during 2020 to discuss succession planning for our Supervisory Board and Managing Board, best practices regarding corporate governance, and the update of our corporate governance documents.

Secretariat and Controllers. Our Supervisory Board appoints a Secretary and Vice Secretary. Furthermore, the Managing Board makes an Executive Secretary available to our Supervisory Board, who is also appointed by the Supervisory Board. The Secretary and Executive Secretary constitute the Secretariat of the Supervisory Board. The mission of the Secretariat is primarily to organize meetings, to ensure the continuing education and training of our Supervisory Board members and to maintain record keeping. Our Chief Compliance Officer, Philippe Dereeper, serves as Executive Secretary for our Supervisory Board, and for each of the four standing committees of our Supervisory Board. Mr. Gabriele Pagnotta serves as Secretary and Ms. Charlotte Fadlallah serves as Vice Secretary. Mr. Pagnotta and Ms. Fadlallah serve as a Managing Director of ST Holding.

Our Supervisory Board also appoints two financial experts ("Controllers"). The mission of the Controllers is primarily to assist our Supervisory Board in evaluating our operational and financial performance, business plan, strategic initiatives and the implementation of Supervisory Board decisions, as well as to review the operational reports provided under the responsibility of the Managing Board. The Controllers generally meet once a month with the management of the Company and report to our full Supervisory Board. The current Controllers are Messrs. Samuel Dalens and Marco Zizzo. Mr. Samuel Dalens serves as a member of the supervisory board of ST Holding. The STH Shareholders Agreement between our principal indirect shareholders contains provisions with respect to the appointment of the Secretary, Vice Secretary and Controllers. See "Item 7. Major Shareholders and Related Party Transactions".

#### Managing Board

In accordance with Dutch law, our management is entrusted to the Managing Board under the supervision of our Supervisory Board. Mr. Jean-Marc Chery who was appointed on May 31, 2018 for a three-year term expiring at the 2021 AGM, is currently the sole member of our Managing Board with the function of President and Chief Executive Officer. On January 28, 2021, our Supervisory Board announced that it will propose at our 2021 AGM the reappointment of Mr. Jean-Marc Chery for another three-year term. Under our Articles of Association, Managing Board members are appointed for a three-year term upon a non-binding proposal by our Supervisory Board at our AGM and adoption by a simple majority of the votes cast at the AGM, provided quorum conditions are met, which term may be renewed one or more times.

Our shareholders' meeting may suspend or dismiss one or more members of our Managing Board, in accordance with the procedures laid down in our Articles of Association. Under Dutch law, our Managing Board is entrusted with our general management and the representation of the Company. Our Managing Board must seek prior approval from our shareholders' meeting for decisions regarding a significant change in the identity or nature of the Company. Under our Articles of Association and our Supervisory Board Charter, our Managing Board must also seek prior approval from our Supervisory Board for certain other decisions with regard to the Company and our direct or indirect subsidiaries.

The sole member of our Managing Board may not serve on the board of a public company without the prior approval of our Supervisory Board. Pursuant to the Supervisory Board Charter, the sole member of our Managing Board must inform our Supervisory Board of any (potential) conflict of interest and pursuant to such charter and Dutch law, any Managing Board resolution regarding a transaction in relation to which the sole member of our Managing Board has a conflict of interest must be approved and adopted by our Supervisory Board. Should our entire Supervisory Board also have a conflict of interest, the resolution must be adopted by our shareholders' meeting pursuant to Dutch law. We are not aware of any potential conflicts of interests between the private interest or other duties of our sole Managing Board member and our senior managers and their duties to us.

Pursuant to our Articles of Association and the Supervisory Board Charter, the following decisions by our Managing Board with regard to the Company and any of our direct or indirect subsidiaries (an "ST Group Company") require prior approval from our Supervisory Board: (i) any modification of our or any ST Group Company's Articles of Association or other constitutional documents, other than those of wholly owned subsidiaries; (ii) other than for wholly owned subsidiaries, any change in our or any ST Group Company's authorized share capital or any issue, acquisition or disposal by us — with the exception of shares in our share capital acquired in order to transfer these shares under employee stock option or stock purchase plans — or any ST Group Company of own shares or change in share rights and any issue of instruments resulting in a share in the capital of any ST Group Company or its profits (iii) the liquidation or dissolution of the Company or any ST Group Company or the disposal of all or a substantial and material part of our business or assets, or those of any ST Group Company, or of any shares in any ST Group Company; (iv) any merger, acquisition or joint venture agreement (and, if substantial and material, any agreement relating to IP) to which we or any ST Group Company is, or is proposed to be, a party, as well as the formation of new companies by us or any ST Group Company (with the understanding that only acquisitions above \$25 million per transaction are subject to prior Supervisory Board approval); (v) our draft Consolidated Balance Sheets and Consolidated Financial Statements, as well as our and any ST Group Company's profit distribution policies; (vi) entering into any agreement that may qualify as a related party transaction, including any agreement between us or any ST Group Company and any of our major shareholders; (vii) the appointment of members of the Executive Committee; (viii) the key parameters of our pluri-annual plans and our consolidated annual budgets, as well as any significant modifications to said plans and budgets, or any one of the matters set forth in our Articles of Association and not included in the approved plans or budgets; (ix) operations which have to be submitted for Supervisory Board prior approval even if their financing was already provided for in the approved annual budget; (x) our quarterly, semi-annual and annual Consolidated Financial Statements prepared in accordance with U.S. GAAP and, as required, according to IFRS; (xi) the exercise of any shareholder right in a ST joint venture company, which is a company (a) with respect to which we hold directly or indirectly either a minority equity position in excess of 25% or a majority position without the voting power to adopt extraordinary resolutions, or (b) in which we directly or indirectly participate and such participation has a value of at least one-third of our total assets according to the Consolidated Balance Sheets and notes thereto in our most recently adopted (statutory) annual accounts, with the understanding, for the avoidance of doubt, that decisions of the Managing Board regarding the general management and/or operations of such ST joint venture company are not subject to Supervisory Board approval and that the Managing Board reports to the Supervisory Board on the operations of the ST joint venture companies as part of its regular reporting to the Supervisory Board and in principle at least every six months; (xii) the strategy of our company; (xiii) the annual internal audit plan and the appointment, replacement, reassignment and dismissal of our Chief Audit and Risk Executive; (xiv) all proposals to be submitted to a vote at the AGM; (xv) the formation of all companies, acquisition or sale of any participation and conclusion of any cooperation and participation agreement; (xvi) all our pluri-annual plans and the budget for the coming year (covering investment policy, policy regarding research and development, and commercial policy and objectives, general financial policy and policy regarding personnel); and (xvii) all acts, decisions or operations covered by the foregoing and constituting a significant change with respect to decisions already approved by the Supervisory Board or not provided for in the above list and as specifically laid down by a Supervisory Board resolution to that effect.

# Senior Management

On January 11, 2021, we announced the appointment of Rajita D'Souza as President, Human Resources and Corporate Social Responsibility (CHRO) and member of the Executive Committee.

# General management of our business

The sole member of our Managing Board, our President and Chief Executive Officer, is entrusted with our general management and is supported in his tasks by our Executive Committee and Executive Vice Presidents, who together constitute our Senior Management.

As a company committed to good governance, we hold corporate meetings on a regular basis. Such meetings, which involve the participation of several members of our Senior Management include:

Executive Committee, which meets once every month and oversees the general strategy and is responsible for the risk management of the Company.

Corporate Operations Review, which meets twice per quarter to review monthly results, short-term forecasts and monthly business results.

Corporate Staff Meeting, which meets once per quarter to review the business in its entirety and to plan and forecast for the next quarter and beyond.

### Executive Committee

The Executive Committee was established on May 31, 2018. The Executive Committee acts under the authority and responsibility of the Managing Board and in this respect manages the Company. The Managing Board remains legally responsible for the management of the Company. The responsibilities of the Executive Committee include overseeing the general strategy as well as the risk management in connection with the Company's activities, operational and financial objectives and financial reporting processes. The Executive Committee adopts resolutions based on consensus, or if no consensus can be reached, by a majority of the votes cast by the members of the Managing Board including the vote of the chairman of the Executive Committee.

The chairman of the Executive Committee is the President and Chief Executive Officer of the Company. Members of the Executive Committee are appointed by the Managing Board subject to the approval of the Supervisory Board. Members of the Executive Committee can be suspended and dismissed by the Managing Board without prior approval by the Supervisory Board.

The Executive Committee was composed of the following eight members as at December 31, 2020 as set forth in the table below:

Name(1)	Position	Years with Company	Years in Semi- Conductor Industry	Age
Jean-Marc Chery	President and Chief Executive Officer	36	36	60
Orio Bellezza	President, Technology, Manufacturing and Quality	37	37	61
Marco Cassis	President, Sales, Marketing, Communications & Strategy Development	33	33	57
Claude Dardanne	President, Microcontrollers and Digital ICs Group	38	41	68
Lorenzo Grandi	President, Finance, Infrastructure and Services, and Chief Financial Officer	33	33	59
Marco Monti	President, Automotive and Discrete Group	34	34	59
Steven Rose	President, Legal Counsel	29	29	58
Benedetto Vigna	President, Analog, MEMS and Sensors Group	26	26	51

<sup>(1)</sup> Rajita D'Souza has been as a member of the Executive Committee since January 1, 2021.

### Biographies of our Executive Committee Members

Jean-Marc Chery is STMicroelectronics' President and Chief Executive Officer, and has held this position since May 31st, 2018. He is the Sole Member of ST's Managing Board and chairs its Executive Committee. Mr. Chery began his career in the Quality organization of Matra, the French engineering group. In 1986, he joined Thomson Semiconducteurs, which subsequently became ST, and held various management positions in product planning and manufacturing, rising to lead ST's wafer fabs in Tours, France, and later in Rousset, France. In 2005, Mr. Chery led the company-wide 150 mm wafer-production restructuring program before taking charge of ST's Front-End Manufacturing operations in Asia Pacific. In 2008, he was promoted to Chief Technology Officer and assumed additional responsibilities for Manufacturing and Quality (2011) and the Digital Product Sector (2012). In 2014, Mr. Chery was appointed ST's Chief Operating Officer responsible for Technology and Manufacturing operations. In July 2017, Mr. Chery was appointed Deputy CEO with overall responsibility for Technology and Manufacturing, as well as for Sales and Marketing operations. Mr. Chery is President of the European Semiconductor Industry Association (ESIA), President of the European microelectronics R&D program AENEAS, and Chairman of the France – Malaysia Business Council at Medef International. In July 2019, he was promoted Knight of the Legion of Honor by the French Ministry of Economy and Finance. Mr. Chery was born in Orleans, France, in 1960, and graduated with a degree in Engineering from the ENSAM engineering school in Paris, France.

Orio Bellezza is STMicroelectronics' President, Technology, Manufacturing and Quality, and has held this position since May 31, 2018. He has been responsible for Front-End Manufacturing since 2008 and his mandate has been expanded to cover ST's technology, manufacturing operations, supply chain, and quality. Mr. Bellezza is a member of ST's Executive Committee since May 31, 2018. Mr. Bellezza joined SGS-ATES, a predecessor company to STMicroelectronics, in 1984 as a fab process engineer. He soon moved to ST's Central R&D organization and participated in several key projects, including the introduction of process technology modules for manufacturing sub-micron non-volatile memories. In 1996, Mr. Bellezza was appointed Director of ST's R&D facility in Agrate and led its upgrade and expansion into a manufacturing and development center for non-volatile memory and smart-power technologies. In 2002, he became Vice President of Central R&D, and in 2005, was appointed Vice President and Assistant General Manager of Front-End Technology and Manufacturing. Mr. Bellezza also serves as Managing Director of the ST Italy legal entity. Mr. Bellezza has published technical papers and earned several patents in non-volatile memories. Mr. Bellezza was born in Bergamo, Italy, in 1959, and graduated cum laude with a degree in Chemistry from the University of Milan, Italy.

Marco Cassis is STMicroelectronics' President, Sales, Marketing, Communications and Strategy Development and has held this position since May 31, 2018. He is a member of ST's Executive Committee since May 31, 2018. Mr. Cassis joined SGS-Thomson Microelectronics (now STMicroelectronics) as a car-radio chip designer in 1987. Six years later, he moved to Japan to help expand ST's audio business with major Japanese players and contributed to the establishment of ST's strategic alliance with Pioneer. In 2000, Mr. Cassis took charge of the Audio Business Unit and was subsequently promoted to Director of Audio and Automotive Group. In 2004, Mr. Cassis was named Vice President of Marketing for automotive, computer peripheral, and telecom products and in 2005, he advanced to Vice President of the Automotive Segment Group and joined the Board of STMicroelectronics K.K., ST's Japanese subsidiary. Mr. Cassis was promoted to lead ST's operations in Japan in 2005 and his mandate was expanded to include Korea in 2010 and Greater China and South Asia in 2016, when he was appointed President of ST's Asia Pacific Region. In 2017, Mr. Cassis was promoted President, Global Sales and Marketing and was part of the senior management before the establishment of the Executive Committee. Mr. Cassis was born in Treviso, Italy, in 1963, and graduated with a degree in Electronic Engineering from the Polytechnic of Milan, Italy.

Claude Dardanne is STMicroelectronics' President, Microcontrollers and Digital ICs Group, and has held this position since January 2016. He is a member of ST's Executive Committee since May 31, 2018. Mr. Dardanne started his career with Thomson Semiconducteurs, a predecessor company to ST. From 1982, he was responsible for microcontroller and microprocessor marketing. Between 1989 and 1994, Mr. Dardanne was Marketing Director at Apple Computer and Alcatel-Mietec. In 1994, he rejoined ST as Director of Central Marketing for the Memory Products Group, became Head of the EEPROM Division in 1998, and was later appointed Group Deputy General Manager and Head of the Smart Card Division. ST consolidated its Microcontroller, Memory, and Secure MCU (MMS) activities in 2007 and appointed Mr. Dardanne Corporate Vice President and the MMS General Manager. Under his leadership, MMS has become a key asset in revenue and market-share growth and profitability and a worldwide leader in the microcontroller market. Mr. Dardanne

was born near Limoges, France, in 1952, and graduated with a degree in Electronic Engineering from the Ecole Supérieure d'Ingénieurs en Génie Electrique in Rouen, France

Lorenzo Grandi is STMicroelectronics' President, Finance, Infrastructure and Services, and Chief Financial Officer (CFO), and has held this position since May 31, 2018. Mr. Grandi's overall responsibilities at ST encompass, in addition to Finance, Treasury and Business Control, Capital Investment Control and Planning, Global Procurement, Information and Communication Technology, and Investor Relations. He is a member of ST's Executive Committee since May 31, 2018. Mr. Grandi joined SGS-THOMSON Microelectronics (now STMicroelectronics) in 1987 as a R&D process engineer. In 1990, he moved to ST's Memory Product Group (MPG) as Financial Analyst. In 1995, Mr. Grandi was promoted to the position of Group Controller of the Memory Product Group contributing to the expansion of ST's flash memory business. In 2005, Mr. Grandi joined the ST's Corporate Finance organization taking responsibility for Budgeting and Reporting. In 2012, Mr. Grandi was promoted to Corporate Vice President in charge of Corporate Control. In December 2020, Mr. Grandi received a special award for his long-standing professional achievements from the French Association of Financial Directors and Management Controllers (DFCG). Mr. Grandi was born in Sondrio, Italy, in 1961. He graduated cum laude in Physics from the University of Modena, Italy, and holds a MBA from SDA Bocconi School of Management in Milan, Italy.

Marco Monti is STMicroelectronics' President, Automotive and Discrete Group. The head of ST's Automotive Product Group since 2012, his mandate was expanded to include discrete and power transistor products in January 2016. Mr. Monti is a member of ST's Executive Committee since May 31, 2018. Mr. Monti joined ST in Central R&D in 1986 and transferred to the Automotive Division in 1988, where he designed automotive ICs incorporating smart-power technologies. He moved to Japan in 1990 working on a co-development activity designing a noise-reduction system for audio applications. Subsequently, Mr. Monti transferred into marketing, contributing to the expansion of ST's automotive business in Japan. In 2000, he became the marketing manager for ST's Automotive Division and started the Company's automotive microprocessor business two years later. In 2004, Mr. Monti was promoted to Division General Manager for Powertrain, Safety, and Chassis products, and he took responsibility for the Automotive Electronics Division in 2009. Then, in 2012, Mr. Monti was appointed Executive Vice President, General Manager of ST's Automotive Product Group. Mr. Monti was born in Milan, Italy, in 1961. He graduated cum laude in Electronic Engineering from the Polytechnic of Milan and earned a PhD in Electronics from the University of Pavia, Italy.

Steven Rose is STMicroelectronics' President, Legal Counsel, and has held this position since May 31, 2018. He has been in charge of ST's legal affairs since 2013. Mr. Rose is a member of ST's Executive Committee was also part of the senior management. Mr. Rose started his career as a corporate attorney at the law firm Gardere & Wynne in Dallas, Texas, providing legal advice and services to public and private companies. He joined SGS-THOMSON Microelectronics (now STMicroelectronics) in 1991 as the Associate General Counsel for the U.S. subsidiary, STMicroelectronics, Inc. In 2006, Mr. Rose was appointed to serve as the Senior Associate General Counsel for the Americas, Greater China & South Asia, and Japan & Korea regions, in addition to serving as Vice President, Secretary & General Counsel and a Director of STMicroelectronics, Inc. Mr. Rose was born in Wichita, Kansas, United States of America, in 1962 and he obtained a degree in Accounting from Oklahoma State University and a Juris Doctor degree from the University of Oklahoma College of Law.

Benedetto Vigna is STMicroelectronics' President, Analog, MEMS and Sensors Group, and has held this position since January 2016. He has been a member of ST's Executive Committee since May 31, 2018. Mr. Vigna joined ST in 1995 and launched the Company's efforts in MEMS. Under his guidance, ST's MEMS sensors established the Company's leadership with large OEMs in motion-activated user interfaces. Mr. Vigna has piloted ST's successful moves into microphones, e-compasses, and touch-screen controllers, as well as environmental sensors, micro-actuators, industrial and automotive sensors, and low-power radios for IoT. Mr. Vigna's mandate was further expanded with analog ICs and RF products (2011) and smart-power devices for OEMs and mass market (2016). ST's Imaging division moved under his management in late 2017. Mr. Vigna has more than 200 patents on micromachining, authored numerous publications, and sits on the boards of several EU-funded programs. Mr. Vigna's contributions to the industry have been recognized with the MEMS Industry Group's Executive of the Year Award (2013), the European SEMI Award (2013), the IEEE Frederik Philips Award (2015), and Manager of the Year 2017 by German magazine Markt & Technik. He joined the MEMS & Sensor Industry Group board in June 2019. Since June 2020 he is also Member of the Board of Technical Advisors of Leonardo Company to support the deployment of the Leonardo 2030 R&D Masterplan. Mr. Vigna was born in Potenza, Italy, in 1969, and graduated cum laude with a degree in Subnuclear Physics from the University of Pisa, Italy.

# Executive Vice Presidents

The group of Executive Vice Presidents consisted of the following people as at December 31, 2020:

Name	Position	Years with Company	Years in Semi- Conductor Industry	Age
Michael Anfang	Executive Vice President Sales & Marketing, Europe, Middle East and Africa Region	22	30	52
Eric Aussedat	Executive Vice President Imaging Sub-Group General Manager Analog, MEMS and Sensors Group	40	40	66
Stefano Cantù	Executive Vice President Automotive Discrete Group Smart Power Solutions Macro-Division General Manager Automotive Business Deputy	26	26	52
Alberto Della Chiesa	Executive Vice President, Supply Chain	32	32	56
Paul Cihak	Executive Vice President, General Manager, Sales & Marketing, Americas Region	22	27	49
Fabio Gualandris	Executive Vice President, Head of Back-End Manufacturing & Technology	32	36	61
Joël Hartmann	Executive Vice President, Digital & Smart Power Technology and Digital Front-End Manufacturing	20	42	65
Michael Hummel	Executive Vice President, Front-End Manufacturing, Analog and Power	2	30	61
Claudia Levo	Executive Vice President, Integrated Marketing & Communications	9	11	55
Matteo Lo Presti	Executive Vice President, Analog, Sub-Group General Manager, Analog MEMS and Sensors Group	27	27	56
Giuseppe Notarnicola	Executive Vice President, Corporate Treasury, Insurance, M&A, IP BU, Real Estate, and Italy Public Affairs	15	15	59
Jerome Roux	Executive Vice President, Sales & Marketing, Asia Pacific Region	29	33	55
Thierry Tingaud	Executive Vice President Europe and France Public Affairs STMicroelectronics, President, STMicroelectronics France	36	36	61
Nicolas Yackowlew	Executive Vice President Product Quality & Reliability	25	26	51

# Biographies of our Executive Vice Presidents

Michael Anfang is Executive Vice President, Sales & Marketing for STMicroelectronics' Europe, Middle East and Africa Region (EMEA), and has held this position since November 2018. Mr. Anfang started his career with Siemens Semiconductor AG in 1990 in product engineering, followed by responsibilities in product design, automotive and strategic marketing. In 1999, he joined ST as an automotive business development manager. In 2002, Mr. Anfang was given responsibility for microcontroller product marketing at ST's Automotive Division in Agrate, Italy and was promoted to Director of Marketing & Applications in 2005. Four years later, he was appointed Digital Automotive Business Unit Director of the Automotive Product Group and became a member of the management team responsible for the MCU Joint Development Program between Freescale and STMicroelectronics. In 2013, Mr. Anfang joined the EMEA regional organization of STMicroelectronics as Automotive Marketing & Applications Vice President. Mr. Anfang was born in Kitzbühel, Austria, in 1968. He graduated with a degree in Electronic Engineering from the Higher Technical

School in Saalfelden, Austria, and a degree in Business Management and Marketing from the FU University in Hagen-Munich, Germany.

Eric Aussedat is Executive Vice President and General Manager of the Imaging sub-group of the Company's Analog, MEMS and Sensors Group and has held this position since October 2014. Mr. Aussedat joined Thomson Semiconducteurs, a predecessor company to ST, as Product Engineer in 1981. He held various positions in product engineering and planning and was promoted Planning Manager of the Video Products Group in 1986. Later on, he was appointed to manage the product and manufacturing planning operations of INMOS, a UK company acquired by ST. Subsequently, he supervised the Engineering and Test Strategy for the Programmable Product Group before his promotion to head ST's Microcontroller Division in 1995. In 2000-2004, Mr. Aussedat led the TV and Display Division and became General Manager of ST's Cellular Communication Division in 2005. Two years later, he was appointed General Manager of the Imaging Division. In 2012, Mr. Aussedat was appointed ST's Executive Vice President in charge of the Imaging, Bi-CMOS ASIC and Silicon Photonics Group. Mr. Aussedat was born in Montmorency near Paris, France, in 1954. He graduated with a degree in Electronic Engineering from the Institut National Polytechnique in Grenoble and earned a diploma from the Institut d'Administration des Entreprises of Grenoble.

Stefano Cantù is Executive Vice President, Smart Power Solutions Macro-Division General Manager within STMicroelectronics' Automotive and Discrete Group (ADG) and has held this position since September 2020. He has also been Automotive Business Deputy across all ADG organizations since April 2019. After experiences at Italtel and the Italian Ministry of Defense, Mr. Cantù joined the planning organization of STMicroelectronics' Dedicated Product Group in 1994. Five years later, he was appointed Central Planning Manager for the Telecom, Peripheral, and Automotive Group. From 2003-2004, Mr. Cantù managed production control at ST's manufacturing sites in Phoenix, Arizona and Carrollton, Texas and in 2005, he moved to become Planning Director in ST's Automotive Product Group. Mr. Cantù was promoted to Automotive Product Group Vice President responsible for Supply Chain in 2009 with Group Operations added to his mandate in 2012, before becoming Supply Chain General Manager in 2016. Stefano Cantù was born in Milan, Italy, in 1968, and he graduated with a degree in Electronic Engineering from the Polytechnic of Milan.

Alberto Della Chiesa is Executive Vice President in charge of Supply Chain and has held this role since May 2012. Mr. Chiesa joined STMicroelectronics as a New Product Planning Engineer in 1988. He was in charge of new product introductions in the Automotive and Hard Disk Drive market and pioneered a number of ST's successful collaborative programs with major key customers. In his tenure at STMicroelectronics, Mr. Chiesa has covered different positions in both Planning and Operations. In 2005, he was appointed Director, Planning & Service for the Computer Peripherals Group, where he actively contributed to the creation of ST's first operations and planning structure in Singapore. Over time, Mr. Chiesa rose to become Group Vice President of Supply Chain, followed by the nomination of General Manager and consequently Head of Operations and Supply Chain for ST's Computers and Communications Infrastructure Product Group. Mr. Chiesa was born in Varese, Italy, in 1964, and holds a Bachelor's degree in Statistics from the Catholic University of Milan, with a specialization in the manufacturing processes. He is also CPIM certified with the American Production and Inventory Control Society (APICS) in Paris, France.

Paul Cihak is Executive Vice President, Sales & Marketing for STMicroelectronics' Americas Region, and has held this position since November 2018. Mr. Cihak began his career with Hewlett Packard in 1994. He spent five years working in HP's Inkjet printing business before being hired into strategic account management by STMicroelectronics in 1999. In 2003, Mr. Cihak managed an industry-leading e-Business supply chain project cited as one of the first successful B2B RosettaNet programs in the world. Mr. Cihak rose through the ranks to become Director of Sales in 2004, Vice President of Sales in 2007, and Vice President of ST's Computer and Peripheral accounts in 2011. He was promoted in 2012 to lead ST's largest sales Business Unit managing three Global Key Accounts for the Company. In April 2014, Mr. Cihak was appointed Executive President, General Manager, Sales & Marketing for STMicroelectronics' Europe, Middle East and Africa Region. Mr. Cihak was born in San Diego, CA, in 1971. He graduated from the University of Oregon with a degree in History and Political Science and holds a MBA from Portland State University.

Fabio Gualandris is Executive Vice President, Head of ST's Back-End Manufacturing & Technology organization and has held this position since January 2016. Mr. Gualandris joined the R&D organization of SGS Microelettronica, a predecessor company to ST, in 1984. He was promoted to R&D Director of Operations in 1989 and became Automotive Business Unit Director in 1996. After two years in the US as President and CEO of Semitool, a semiconductor manufacturing equipment vendor, he rejoined ST in 2000 as Group VP responsible for the RAM/PSRAM Product Division and the Flash Automotive Business Unit. In 2005, Mr. Gualandris was appointed CEO of ST Incard, an ST smart-card subsidiary. In 2008-2010, he served as VP and Supply Chain General Manager at ST's memory joint venture with Intel. In 2011, Mr. Gualandris was appointed ST's Executive Vice President in charge of Product Quality Excellence. Mr. Gualandris has authored several technical and managerial papers and holds some international patents. He serves as Chairman of STS, ST's manufacturing joint venture in China, and previously sat on boards at Incard, Numonyx, and the Numonyx-Hynix joint venture. Mr. Gualandris was born in Bergamo, Italy, in 1959. He holds a Master's degree in Physics from the University of Milan.

Joël Hartmann is Executive Vice President of STMicroelectronics, Digital & Smart Power Technology and Digital Front-End Manufacturing, and has held this position since February 2012. He manages ST's manufacturing operations in Crolles and Rousset, France, Technology and Design Platforms for the Company's digital products. In December 2018, Mr. Hartmann's mandate was expanded with ST's Smart Power Technology R&D operations in Agrate, Italy. From 1979 to 2000, Mr. Hartmann worked at CEA-Leti, France-based applied-research center. In 2000, he joined STMicroelectronics as Director of the Crolles2 Alliance, the semiconductor manufacturing R&D initiative of STMicroelectronics, NXP, and Freescale Semiconductor. In 2008, Mr. Hartmann was promoted to Group Vice President and Director of Advanced CMOS Logic & Derivative Technologies. From 2010 to 2012, he had additional responsibilities as a co-leader of the Semiconductor Research and Development Center in Fishkill, NY, within the IBM ISDA Technology Alliance for advanced CMOS process development. Mr. Hartmann is a Member of the IEEE Electron Device Society. In 2017, he became a member of the French "Académie des Technologies" and received the European SEMI Award in 2019. Mr. Hartmann has filed 15 patents on semiconductor technology and devices and authored 10 publications in this field to date. Mr. Hartmann was born in Toulon, France, in 1955. He graduated from the Ecole Nationale Supérieure de Physique de Grenoble with a degree in Physics.

Michael Hummel is Executive Vice President of STMicroelectronics, Analog and Power Front-End Manufacturing, and has held this position since March 2019. In 1991, Mr. Hummel started his professional career with IBM Microelectronics as a Process Engineer at Europe's first 200 mm wafer fab in Böblingen, Germany. He held several managerial positions in Manufacturing and Engineering and became Director of Marketing & Supply Chain Management for the Philips-IBM JV in 1996. In the early 2000s, Mr. Hummel served as VP of Philips' Display Driver business – first in Zürich and later in Taipei. In 2005, he was promoted to VP and General Manager of Philips Semiconductors Germany and Head of the Wafer Fab Operation in Böblingen. In 2007, Mr. Hummel joined Texas Instruments as Operations Manager in Dallas and two years later became Fab Manager at the Freising, Germany wafer plant. Upon TI's acquisition of National Semiconductors in 2011, Mr. Hummel assumed additional responsibility for the Greenock, UK wafer fab and its integration into TI's Front-End Fab structure. Mr. Hummel sat on SEMI European Advisory Board in 2005-2017. Mr. Hummel was born in Heilbronn, Germany, in 1959. He studied Chemistry at the University of Tübingen and received his PhD degree in Organic & Physical Chemistry in 1991.

Claudia Levo is Executive Vice President at STMicroelectronics with responsibility, since June 2018, for integrated Marketing and Communications strategies and plans. Her responsibilities encompass corporate communications, including PR, media and industry analyst relations, marketing communications and digital marketing. Mrs. Levo began her career in 1993, with Marconi, a global telecommunications company, where she had responsibility for a number of management roles within the Communication function, including marketing communications and internal and external communications across wide geographies. In 2005, Mrs. Levo managed the communication activities related to the integration of Marconi with Ericsson, and was subsequently appointed Vice President for Communications at the newly formed Ericsson Multimedia Business Unit. In 2008, Mrs. Levo was appointed Vice President Communications at Italtel. In early 2009 she joined ST-Ericsson, the wireless joint venture between STMicroelectronics and Ericsson, as Senior Vice President and head of Global Communications. In this capacity, she has successfully built the Global Communication function covering marketing and portfolio communication, public and media relations, investor relations and internal communication. Mrs. Levo was born in Genoa, Italy, in 1965, and holds a language school dinloma (Liceo Linguistico) in English and Russian

Matteo Lo Presti is Executive Vice President, General Manager of the Analog sub-group within ST's Analog, MEMS and Sensors Group, and has held this position since January 2016. Mr. Lo Presti joined the Advanced Research Group of SGS-Thomson Microelectronics (now STMicroelectronics) in 1994 and was appointed Head of Fuzzy Logic R&D four years later. From 2002 to 2004, Mr. Lo Presti led the marketing and application labs for the Industrial and Automotive market segments in ST's Emerging Markets. He gained responsibility for the Company's Systems Lab in 2004 and the Subsystem Product Group and Technical Marketing for the Industrial & Multisegment Sector were added to his mandate in 2008 and 2009, respectively. In 2012, Mr. Lo Presti was promoted to Group Vice President, General Manager, Industrial and Power Conversion Division. From 1996 to 2004, Mr. Lo Presti served as a visiting professor at the University of Messina (Italy) and the University of Catania (Italy). He has authored more than 40 international publications and holds several industrial patents. Mr. Lo Presti was born in Misterbianco, Italy, in 1965, and graduated with a degree in Electronic Engineering from the University of Catania.

Giuseppe Notarnicola is STMicroelectronics' Executive Vice President responsible for managing Corporate Treasury, a position he has held since January 2006. His responsibilities were expanded in 2013 to include Insurance and in 2018 to include M&A, IP BU, Real Estate and Public Affairs for Italy. Mr. Notarnicola started his career with Banca Nazionale del Lavoro (BNL), one of Italy's largest banks, in 1987. At BNL, he managed financial operations in Singapore, the Financial Department of the London branch, the global Head Office, financial advisory arm for corporate and institutional customers, and in 2004, was promoted Head of Large Corporate clients. Mr. Notarnicola joined ST in 2006, when he initiated the Company's retail inship with the European Investment Bank and managed the financing aspects of ST's Flash memory business spin-out, as well as all the Company's strategic funding in the capital markets. Mr. Notarnicola is President of ST Italy and a board member of several other ST affiliates. Mr. Notarnicola was born in Codroipo near Udine, Italy, in 1961. He graduated cum laude in Business Administration from the LUISS Guido Carli University in Rome, Italy.

Jerome Roux is Executive Vice President, Sales and Marketing for the Company's Asia Pacific Region, and has held this position since July 2017. Mr. Roux began his career in the Planning department of SGS-THOMSON Microelectronics, a predecessor to STMicroelectronics, in 1988. He soon moved to the Company's packaging facility in Casablanca, Morocco as Material Manager. Afterwards, Mr. Roux moved to Singapore and then Shanghai as the Asia Pacific Marketing Director for ST's Discrete and Standard Product Group. He left ST briefly to join an ST supplier company as managing director and member of the board and returned to ST in 2006 as Group Vice President, Assembly & Testing Outsourcing Operations, based in Singapore. Global Purchasing responsibilities were added to his mandate in 2008. He was promoted to Corporate Vice President in 2012 and has managed Geographic and Distribution Sales in ST's Greater China & South Asia Region (since 2015) and Asia Pacific Region (since 2016). Mr. Roux serves as advisor to the French Government (CCEF) on Foreign Trade of the Singapore committee. Mr. Roux was born in Antibes, France, in 1965, and graduated from ISG Business School in Paris with a Master degree in Commerce (Management and Marketing).

Thierry Tingaud is Executive Vice President of Europe and France Public Affairs since July 2018. He also holds the position of President of STMicroelectronics France since 2012. In 1985, Mr. Tingaud joined Thomson Semiconductors, a predecessor company to STMicroelectronics in a telecom marketing role. Following several promotions, Mr. Tingaud was appointed Corporate Strategic Key Account Director in 1996, Vice President, Sales and Marketing for the European Telecommunications Business Unit in 1999, and then Corporate Vice President for Emerging Markets in 2006. He joined ST-Ericsson in 2009 as Vice President of Strategic Planning and Public Affairs and then was named Senior Vice President, General Manager of three Product Divisions. He rejoined ST in 2012 to lead West Europe Sales & Marketing and European Public Affairs. Mr. Tingaud is Vice-President of ESIA, Chairman of the Joint Steering Committee for the World Semiconductor Council, and the representative of the President and CEO of STMicroelectronics at the European Commission's High Level Group KET's, and at the Electronics Leaders Group. He was appointed President of the "filière électronique" in France in May 2018 and to the High Level Group of Experts on Al by the European Commission in June 2018. Born in Paris in 1959, Mr. Tingaud graduated with a degree in Electronic Engineering from INSA Lyon (1982) and with a Master of Business Administration from ESSEC (1985).

Nicolas Yackowlew is Executive Vice President, Product Quality & Reliability at STMicroelectronics and has held this position since August 2018. Mr. Yackowlew began his career in 1996 as Product Quality Engineer at ST. He has successfully driven Quality and Reliability departments for many years at both the Division and Group levels. Mr. Yackowlew was promoted Division Quality & Reliability Manager in 2006 leading quality for Serial Non Volatile Memory. Three years later, he was appointed Quality & Reliability Director in charge of the Quality for Memory, Microcontrollers and Secured MCUs. In 2016, Mr. Yackowlew took the responsibility of Quality & Reliability for the Microcontroller and Digital ICs Group (MDG). Mr. Yackowlew was born in Mulhouse (France) in 1969 and graduated with a degree in Chemistry from the University of Nice Sophia Antipolis, France.

### Compensation

On December 1, 2019, a Dutch act implementing the revised EU Shareholders' Rights Directive (2017/828/EU ("SRDII") took effect in The Netherlands. As we are incorporated under the laws of The Netherlands and our common shares are admitted to trading on regulated markets in the European Union, we are required, *inter alia*, to update the remuneration policy with respect to the compensation of the Supervisory Board members and the sole member of our Managing Board, President and Chief Executive Officer and to comply with the respective disclosure requirements introduced to the Dutch Civil Code. In connection therewith, we present in this section certain comparative information on our performance relative to the compensation of the Supervisory Board members and the sole member of our Managing Board, President and Chief Executive Officer. In addition, we provide information on the ratio of fixed to variable compensation of the sole member of our Managing Board, President and Chief Executive Officer.

Following the results of the 2020 AGM, where our proposed new remuneration policy for our Managing Board and remuneration report were rejected by the AGM and after review of the related comments received by proxy advisors, we conducted a thorough review of our current compensation structure with the support of an external consulting firm. We have also conducted a comprehensive qualitative and quantitative benchmark against our industry peers and best-in-class market practices - in particular, regarding the level of transparency and disclosure of compensation information as well as the inclusion of corporate social responsibility criteria into the senior management's set of performance criteria.

# Supervisory Board Compensation

Our Articles of Association provide that the compensation of our Supervisory Board members is determined by our General Meeting of Shareholders. Our proposal for adoption of a remuneration policy for the Supervisory Board members to ensure compliance with the new requirements under the Dutch Civil Code, following the implementation of SRDII, was approved by the AGM on June 17, 2020. The aggregate compensation for current and former members of our Supervisory Board with respect to service in 2020 was €891,500 before any applicable withholding taxes, as set forth in the following table

Supervisory Board Members		Directors' Fees(1)
Maurizio Tamagnini	€	156,500
Nicolas Dufourcq	€	0(2)
Janet Davidson	€	101,000
Ana de Pro Gonzalo(3)	€	140,500
Yann Delabrière(4)	€	88,000
Heleen Kersten	€	105,000
Jean-Georges Malcor(4)	€	7,000
Lucia Morselli	€	106,500
Alessandro Rivera	€	84,000
Frédéric Sanchez	€	96,500
Martine Verluyten(3)	€	6,500
Total	€	891,500

- (1) (2) (3)
- These amounts include a fixed annual compensation for the directors' mandate, together with attendance fees from January 1, 2020 until December 31, 2020.

  Mr. Dufourcq would have been entitled to receive €156,500 in 2020, but he waived his rights to receive any compensation from the Company in relation to his mandate as a member of the Supervisory Board. The term of Ms. Martine Verluyten ended on June 17, 2020 and Ms. Ana de Pro Gonzalo was appointed on June 17, 2020.
- (4) The term of Mr. Jean-Georges Malcor ended on June 17, 2020 and Mr. Yann Delabrière was appointed on June 17, 2020.

Set forth in the following table is the annual change over the last three years of (i) the average remuneration of our Supervisory Board Members, (ii) the performance of the Company and (iii) the average remuneration of our employees (i.e., all employees other than the members of the Senior Management, including the sole member of our Managing Board and President and Chief Executive Officer):

		2020	2019		2018
Directors' remuneration	· ·				
Average remuneration of Supervisory Board Members <sup>(1)</sup>	\$	99,431	\$	105,066	\$ 115,618
Company's performance					
Net revenues (amounts in millions)	\$	10,219	\$	9,556	\$ 9,664
Operating income (amounts in millions)	\$	1,323	\$	1,203	\$ 1,400
Average remuneration of all global indirect employees					
(FTE basis)(2)					
Employees	\$	98,500	\$	97,300	\$ 100,600

(1) Using the Euro per U.S. dollar exchange rate on December 31, 2020 of €1 = \$1.22685.

We do not have any service agreements with members of our Supervisory Board. We did not extend any loans or overdrafts to any of our Supervisory Board members. Furthermore, we have not guaranteed any debts or concluded any leases with any of our Supervisory Board members or their families.

# Senior Management Compensation

Our Senior Management, including the sole member of our Managing Board and our President and Chief Executive Officer, received a combination of fixed, short-term and long-term compensation, based on performance.

Due to the COVID-19 pandemic and related economic disruptions, the sole member of our Managing Board and our President and Chief Executive Officer voluntarily agreed to decrease his base salary by 25%, the Members of the Executive Committee voluntarily agreed to decrease their base salary by 15% and the Executive Vice Presidents voluntarily agreed to decrease their base salary by 10%, each for a period of six months in 2020. In addition, other senior managers of the Company voluntarily agreed to decrease their base salary by 5% for a period of six months in 2020.

The following table sets forth the total cash amount paid as compensation in 2020, 2019 and 2018 to the 22 members of our Senior Management (including the sole member of our Managing Board, our President and Chief Executive Officer) on duty on December 31st of each year, before applicable withholding taxes and social contributions (amounts in millions):

Total cash amount paid as compensation(1)	\$	21.4	\$ 21.3	\$	22.2	
Total cash amount paid as compensation comprises fixed salary, annual cash bonus incentive and other cash benefits. In a	ddition, non-cas	h amounts paid	, including	vested stoc	k awards and other non-	cash benefits, as

2020(2)

2019(3)

2018(4)

- (1) Total cash amount paid as compensation comprises fixed salary, annual cash bonus incentive and other cash benefits. In addition, non-cash amounts paid as compensation, including vested stock awards and other non-cash benefits, as well as all applicable withholding taxes, pension contributions and social contributions, were approximately \$36.9 million in 2019, and \$25.3 million in 2018. Despite a temporary decrease of the base salary voluntary agreed by the Senior Management, the non-cash amounts paid as compensation have significantly increased in 2020, mainly due an increase in the long-term compensation paid to the members of the Senior Management, which was in turn a result of an increase in the share price of the Unvested Stock Awards ("USAs").
- (2) Takes into consideration the voluntary decrease in base salary over a period of six months agreed by the Senior Management.
- (3) Including amounts paid in 2019 to our former President, Human Resources and Corporate Social Responsibility, Mr. Philippe Brun.
- (4) In 2019, we changed the classification of pension contributions and we determined that pension contributions are attributable to non-cash amounts paid as compensation. In addition, in 2019, we classified housing and meal allowances (as applicable) as other cash benefits. The reclassification of pension contributions and housing and meal allowances resulted in restatement of the total cash amount paid as compensation and non-cash amounts paid as compensation in 2018.

The annual cash bonus incentive, which we call Corporate Executive Incentive Program ("EIP"), entitles selected executives to a yearly bonus based upon the assessment of the achievement of individual, organizational and company objectives that are set on an annual basis and focused, inter alia, on return on net

<sup>(2)</sup> Global indirect employees are all employees other than those directly manufacturing our products, excluding Senior Management. "FTE" refers to full time equivalent

assets, customer service, profit, cash flow and market share. The maximum bonus awarded under the EIP is based upon a percentage of the executive's salary and the overall achievement of the above objectives on an annual basis

The 2020 EIP includes a sustainability index for Senior Management, as part of our effort to include corporate social responsibility into the performance framework of our Senior Management. The sustainability index has a weighting of 1/3 of personal objectives, and is divided into four criteria related to health and safety, environment, diversity & inclusion, and people engagement.

The amounts paid in 2020 to our Senior Management (including the sole member of our Managing Board, our President and Chief Executive Officer) pursuant to the EIP represented approximately 43.15% of the total compensation paid to our Senior Management.

	Bonus paid		Bonus paid	Bonus paid
	in 2020 (2019	ir	2019 (2018	in 2018 (2017
	performance)	per	formance) (1)	performance)
Bonus (cash) amount	\$ 8,708,142	\$	8,239,417	\$ 10,181,945
Ratio bonus / base salary + EIP	43.15%		41.12%	48.84%

(1) Including amounts paid in 2019 to our former President, Human Resources and Corporate Social Responsibility, Mr. Philippe Brun

Our Supervisory Board has approved the establishment of a complementary pension plan for certain members of our Senior Management, comprising the sole member of our Managing Board, President and Chief Executive Officer, and certain other key executives as selected by the sole member of our Managing Board, President and Chief Executive Officer, according to the general criteria of eligibility and service set up by the Supervisory Board upon the proposal of its Compensation Committee. With respect to such plan, we have set up an independent foundation under Swiss law which manages the plan and to which we make contributions. Pursuant to this plan, in 2020, we made a contribution of approximately \$0.5 million to the plan of the sole member of our Managing Board, President and Chief Executive Officer, and \$0.3 million to the plan for all other beneficiaries. The amount of pension plan payments made for other beneficiaries, such as former employees retired in 2020 and/or no longer salaried in 2020. was \$1.1 million.

We did not extend any loans or overdrafts to the sole member of our Managing Board, President and Chief Executive Officer, nor to any other member of our Senior Management. Furthermore, we have not guaranteed any debts or concluded any leases with the sole member of our Managing Board, President and Chief Executive Officer, nor with any other member of our Senior Management or their families.

The members of our Senior Management, including the sole member of our Managing Board, President and Chief Executive Officer, were covered in 2020 under certain group life and medical insurance programs provided by us. The aggregate additional amount set aside by us in 2020 to provide pension, retirement or similar benefits for our Senior Management, including the sole member of our Managing Board, President and Chief Executive Officer, as a group is, including the amounts allocated to the complementary pension plan described above and is estimated to have been approximately \$5.5 million, which includes statutory employer contributions for state run retirement, similar benefit programs and other miscellaneous allowances.

For the year 2020, the Senior Management pay ratio is 27.5 (2019: 19.9). The increase of the 2020 pay ratio compared to the 2019 pay ratio was primarily due to an increase in non-cash amounts paid as compensation, resulting from an increase in the share price of the USAs. This ratio is based on:

(i) the average remuneration of our Senior Management (for 2019: including the compensation of Mr. Philippe Brun);

compared to

(ii) the average remuneration of our global indirect employees (i.e., all employees other than those directly manufacturing our products), excluding the compensation of our Senior Management and the sole member of our Managing Board, President and Chief Executive Officer. See "—Managing Board Compensation" below.

Sole Member of the Managing Board, President and Chief Executive Officer Compensation

The remuneration of the sole member of our Managing Board, President and Chief Executive Officer, is determined by our Supervisory Board on the advice of the Compensation Committee and within the scope of the remuneration policy as adopted by our 2005 AGM.

Following the results of our 2020 AGM, where our proposed new remuneration policy for our Managing Board and remuneration report to ensure compliance with the new requirements under the Dutch Civil Code following the implementation of the new Shareholder Rights Directive II (SRDII) were rejected (leaving the remuneration policy as adopted by our 2005 AGM intact), and after review of the related comments received by proxy advisors, we have conducted a thorough review of our current compensation structure, with the involvement of members of the Company and the Supervisory Board (directly and through an ad-hoc committee and the Compensation Committee), each with the support of their own independent external consulting firm. We have also conducted a comprehensive qualitative and quantitative benchmark against our industry peers and best-in-class market practices – in particular, regarding the level of transparency and disclosure of compensation information of the sole member of our Managing Board, President and Chief Executive Officer.

Following this process, we started preparing an amended proposal for a remuneration policy for the Managing Board, which we expect to submit to the AGM in 2021. Furthermore, we have increased the level of disclosure and transparency in relation to the remuneration of the sole member of our Managing Board, President and Chief Executive Officer herein to address the 2020 AGM results and provide our stakeholders with an increased level of insight in our remuneration practices.

The key principles that are considered to determine the remuneration of the sole member of our Managing Board, President and Chief Executive Officer as well as the other members of Senior Management are as follows:

- Alignment with the Company's strategy: the compensation package should be strongly linked to the achievement of targets that are indicators of the execution of the Company's business strategy.
- Improving the performance of the Company: most of the compensation (excluding benefits and pensions) should be linked directly to the Company's performance through variable pay instruments
- Enhancing long-term creation of shareholder value: to strengthen the alignment to the interests of the shareholders and to enhance the long-term value creation of the Company, the compensation structure includes short- and long-term variable remuneration in the form of shares.
- Retaining and motivating key employees: the compensation package should be highly competitive, ensuring remuneration levels are determined by reference internally against the Company's Senior Management and externally against companies of comparable size, complexity and global scope.

To determine the remuneration structure, the Supervisory Board considers, among others, the main principles outlined above.

In accordance with the main principles of the Company's remuneration structure, the total remuneration of the sole member of our Managing Board, President and Chief Executive Officer takes into consideration factors such as the size and complexity of our Company, our global presence and that of our customers, the pace of change in our industry, our strategy and goal of long-term value creation, and the need to recruit and retain key personnel.

The remuneration structure is reflective of the level of responsibility of the Company's sole member of the Managing Board, President and Chief Executive Officer. The remuneration structure is further adapted to the Company's context while remaining competitive and providing an incentive to promote the Company's performance over the medium to long-term, in compliance with the corporate interest and the interests of all the stakeholders.

The Compensation Committee advises the Supervisory Board in reviewing the remuneration package of the sole member of our Managing Board, President and Chief Executive Officer both in the context of the Company performance and against a range of semiconductor peer companies and relevant market index. Before

setting targets for the sole member of our Managing Board, President and Chief Executive Officer, the Compensation Committee carries out scenario analyses of the possible financial outcomes of meeting target levels. Finally, the Compensation Committee determines the remuneration structure and remuneration amounts for our sole member of the Managing Board, President and Chief Executive Officer based on the analysis of the theoretical maximum total direct remuneration (i.e., sum of base salary, maximum annual bonus opportunity, and maximum long-term incentives ("LTI")).

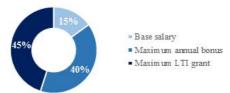
The elements considered for the determination of the sole member of our Managing Board, President and Chief Executive Officer's remuneration package are as follows:

- A base salary that amounted to \$856,837 paid in 2020, which included a voluntary 25% decrease over a six-month period in 2020, in connection with the COVID-19 pandemic;
- An annual bonus of up to 210% of base salary and which is composed of a portion payable in cash (up to a maximum of 150% of the base salary) and a portion payable in shares (up to a maximum of 60% of the base salary);
- A long-term incentive through the grant of stock awards, up to a maximum of 100,000 shares (based on the 2017-2020 long term incentives plan ("LTIP")), that is subject to the achievement of performance conditions and calculated over a pre-determined performance period.

The sum of these three elements represents the maximum total direct remuneration for the sole member of our Managing Board, President and Chief Executive Officer.

(i) Breakdown of the maximum total direct remuneration structure of the sole member of our Managing Board, President and Chief Executive Officer:

The following provides a breakdown of the maximum total direct remuneration structure of the sole member of our Managing Board, President and Chief Executive Officer:



(ii) Remuneration of the sole member of our Managing Board, President and Chief Executive Officer paid in 2020

The sole member of our Managing Board, President and Chief Executive Officer, received compensation in the form of a fixed salary, annual bonus, stock awards, employer social contributions, company car allowance, pension contributions and miscellaneous allowances.

Set forth in the following table is the maximum total direct remuneration structure of the sole member of our Managing Board, President and Chief Executive Officer:

	2020	Comments
Base Salary	\$ 981,480(1)	Corresponds to the theoretical gross amount that should have been paid in 2020 without the implementation of a voluntary 25% decrease in pay over a six-month period, in connection with the impact of COVID-19
Maximum Annual Bonus	\$ 2,061,108(2)	Corresponds to a gross maximum of 210% of base salary (with 150% of this amount paid in cash and 60% paid in shares)
Maximum Long-Term Incentive (LTI) Grant	\$ 2,997,000(2)	100,000 shares granted in 2020 as part of the 2017-2020 LTIP, subject to performance criteria. Each share is valued at \$29.97 as of the grant date
Maximum Total Direct Remuneration	\$ 6,039,588(2)	Corresponds to the maximum amount that can be paid to the sole member of our Managing Board, President and Chief Executive Officer and is the sum of base salary, maximum annual bonus, and LTI

Using the Euro per U.S. dollar exchange rate on December 31, 2020 of £1 = \$1.22685. This exchange rate is different than that which is used to calculate the paid base salary (i.e., intragroup exchange rate), hence the difference between the actual paid base salary in 2020 (\$856,837) and the theoretical base salary of \$981,480 reduced by a 25% rate over six months (\$858,795).

# (iii) Evolution of the sole member of our Managing Board, President and Chief Executive Officer's paid remuneration in 2020, 2019, and 2018

Set forth in the following table is the total compensation of the sole member of our Managing Board, President and Chief Executive Officer, in 2020, 2019 and 2018. The total compensation of the sole member of our Managing Board, President and Chief Executive Officer, comprises (i) with relation to 2020 of the total compensation of Mr. Jean-Marc Chery and takes into consideration the voluntary decrease of the base salary during six months, (ii) with relation to 2019 (y) the total compensation of Mr. Jean-Marc Chery and (z) contractually obligated deferred compensation relating to Mr. Carlo Bozotti's retirement in 2018; and (iii) with relation to 2018 (x) the total compensation of Mr. Bozotti until May 31, 2018 (excluding any accelerated compensation), (y) the total compensation of Mr. Chery from June 1, 2018 and (z) accelerated compensation relating to Mr. Bozotti's retirement:

	 2020	2019		2018	
Salary	\$ 856,837	\$	896,297	\$	927,820
Bonus(1)	\$ 1,285,378	\$	1,280,173	\$	3,214,578
Other(2)	\$ 3,597,032	\$	5,618,382	\$	6,971,946
Total(2)	\$ 5,739,247	\$	7,794,852	\$	11,114,344

<sup>(1)</sup> In 2020, the bonus paid in cash (based on 2019 performance) amounted to \$1,022,659, whereas the bonus paid in shares amounted to \$262,719 considering a global achievement rate of 170% (110% in cash and 60% in shares). The bonus paid in 2020, 2019 and 2018 was approved by the Compensation Committee and Supervisory Board with respect to the 2019, 2018 and 2017 financial year, respectively, based on the evaluation and assessment of the actual fulfillment of a number of predefined objectives for such year.

<sup>(2)</sup> Subject to pre-defined performance criteria, to be assessed by the Compensation Committee of our Supervisory Board within the first quarter of 2021.

defined objectives for such year.

(2) Including stock awards, employer social contributions, company car allowance, pension contributions, complementary pension contributions, miscellaneous allowances as well as one-off contractually obligated deferred compensation paid to Mr. Bozotti in 2019. In accordance with the resolutions adopted at our AGM held on May 30, 2012, the bonus of our former sole member of our Managing Board, President and Chief Executive Officer, Mr. Bozotti, in 2018 included a portion of a bonus payable in stock awards and corresponding to 86,782 vested shares based on fulfillment of a number of pre-defined objectives. In addition, our sole member of our Managing Board, President and Chief Executive Officer, Mr. Chery, was granted, in accordance with the compensation policy adopted by our General Meeting of Harsholders and subsequent shareholder authorizations, up to 100,000 USAs, subject to performance criteria. The vesting of such stock awards is conditional upon the sole member of our Managing Board, President and Chief Executive Officer's, continued service with us.

- (3) In 2020, the paid total compensation of the sole member of our Managing Board, President and Chief Executive Officer was 39% fixed (i.e., salary) to 61% variable (i.e., bonus and USAs), compared to 46% fixed to 54% variable in 2019 and 12% fixed to 88% variable in 2018.
  - (iv) Overview of the total compensation paid to the sole member of our Managing Board, President and Chief Executive Officer in 2020

Set forth in the following table is the total compensation of the sole member of our Managing Board, President and Chief Executive Officer, Mr. Jean-Marc Chery, in 2020:

Salary	\$ 856,837
Bonus(1)	\$ 1,285,378
Other(2)	\$ 3,597,032
Total	\$ 5,739,247

(1) Bonus includes both the amount paid in cash and the amount paid in shares in 2020 (based on 2019 performance). The achievement rate for 2020, based on 2019 performance, was 170% (110% in cash and 60% in shares)

The sole member of our Managing Board, President and Chief Executive Officer, was appointed on May 31, 2018 for a three-year term expiring at the 2021 AGM. He has employment agreements with us, the first with our Dutch parent company, which relates to his activities as sole member of our Managing Board and representative of the Dutch legal entity, and the second with one of our entities in Switzerland, which relates to his activities as President and Chief Executive Officer, the EIP, Pension and other items covered by the compensation policy adopted by our General Meeting of Shareholders. While the relationship between a member of the managing board and a listed Dutch company will be treated as a mandate agreement, not an employment agreement, existing employment agreements, including the employment agreement between us and our sole member of the Managing Board, will remain in effect.

(v) Detailed breakdown of the remuneration structure of the sole member of our Managing Board, President and Chief Executive Officer

### a. Salary

The purpose of the base salary is to provide a fixed level of earnings and to attract and retain the sole member of our Managing Board, President and Chief Executive Officer. It is a key component of overall remuneration, particularly as the annual bonus is expressed as a percentage of base salary. The Company seeks to determine a fair and competitive fixed salary as compared to industry and index peers. The determination of salary is based on several factors including, but not limited to, market pay levels among international industry peers of comparable size.

The amount of base salary paid in 2020 is \$856,837. This amount considers the temporary, voluntary decrease in base salary for a six-month period due to the COVID-19 pandemic.

#### b. Annual Bonus

The purpose of the annual bonus is to motivate the sole member of our Managing Board, President and Chief Executive Officer to achieve financial and commercial objectives consistent with and supportive of the Company's strategy and to create a tangible link between annual performance and individual pay opportunity.

In accordance with the resolutions adopted at our AGM held on May 23, 2019, the annual bonus of the sole member of our Managing Board and President and Chief Executive Officer is composed of a portion payable in cash (up to a maximum of 150% of the base salary for the relevant year) and a portion payable in shares (up to a maximum of 60% of the base salary for the relevant year), all subject to the assessment and fulfillment of a number of pre-defined conditions which are set annually by the Compensation Committee of our Supervisory Board.

Including stock awards, employer social contributions, company car allowance, pension contributions, complementary pension contributions and miscellaneous allowances. Our sole member of our Managing Board, President and Chief Executive Officer was granted, in accordance with the compensation policy adopted by our General Meeting of Shareholders and subsequent shareholder authorizations, up to 100,000 USAs, subject to performance criteria. The vesting of such stock awards is conditional upon the sole member of our Managing Board, President and Chief Executive Officer's, continued service with us.

Performance measures and weightings were reviewed by the Compensation Committee. The calculation of the annual bonus opportunity is based on the sum of the target weight of each performance criterion.

The Supervisory Board, upon the recommendation of its Compensation Committee, set the conditions and performance criteria that must be met by Mr. Chery for the attribution of his 2019 bonus (paid in 2020).

Set forth in the following table are the performance criteria and weight set for 2019 that have been assessed for the attribution of the 2019 bonus (paid in 2020).

	Target Weighting
Annual Bonus Performance criteria FY 2019 (paid in 2020)	(in % of base salary)
Portion of annual bonus paid in <u>cash</u>	
o Market share evolution	20%
o Share price evolution	40%
o Revenue	20%
o Operating income	40%
o Net operating cash flow	30%
The total score on above items cannot exceed 150%.	
Portion of annual bonus paid in shares	
o Execute projects and grow revenues	24%
o Execute strategy implementation	18%
o Execute transformation	18%
The total score on above items cannot exceed 60%.	

The maximum amount of annual bonus is 210% of base salary, including up to a maximum of 150% which may be paid in cash and up to a maximum of 60% which may be paid in shares. The amount of the portion paid in shares is determined based on a number of strategic special programs (usually three to four), with the completion of each program adding to the overall achievement of the share-based annual bonus. Similarly, the amount of the portion in cash is based on five criteria (financial, operational, market-based criteria, revenue-based criteria and activity-based criteria) in order to conduct a holistic and comprehensive assessment of the sole member of our Managing Board, President and Chief Executive Officer's annual performance.

We believe that the five criteria set out for the cash component of the annual bonus plan are also well balanced in terms of external and internal criteria and reflect the challenging objectives set by the Compensation Committee in line with the Company's ambitious long-term vision and business strategy.

The two external criteria include share price evolution and market share evolution. Share price evolution is measured on a year-over-year basis compared to the PHLX Semiconductor Sector IndexSM (SOXSM) evolution, which provides a market-based metric which evaluates how the Company's share price is evolving against a set group of industry peers. Market share evolution is measured by assessing the Company's relative positioning and competitiveness in relation to its market and its industry peers and how fast the Company grows its revenues compared to its competitors.

The three internal criteria include total company revenue, operating income and net operating cash flow. Total company revenue represents the total amount of income generated by the Company's operations. Operating income is an important yardstick of profit measurement and reflects the operating performance of the business which does not take into consideration non-operating gains or losses suffered by business, the impact of financial leverage and tax factors. Net operating cash flow is a liquidity metric that evaluates whether the Company has enough liquidity to meet its debt obligations. This metric helps assess the financial soundness of the company in terms of liquidity risk, financial risk, credit risk and business risk. We believe the three above criterion be a crucial in determining the financial strength of the company

The Compensation Committee sets scorecard targets and weightings, which support the delivery of the strategy. However, annual bonus scorecard targets are not disclosed prospectively as they would require the disclosure of commercially sensitive information. The Compensation Committee retains the ability to adjust performance measure targets and weightings year-by-year within the overall target and maximum payouts approved in the remuneration policy.

The evaluation and assessment of the fulfillment of conditions and performance criteria were completed by the Compensation Committee of our Supervisory Board in March 2020 in order to determine the actual amount of the sole member of our Managing Board, President and Chief Executive Officer's bonus paid in 2020. The Compensation Committee of our Supervisory Board determined that based on the 2019 performance of Mr. Jean-Marc Chery and the fulfillment of relevant conditions and performance criteria, the portion of the sole member of our Managing Board, President and Chief Executive Officer's 2019 bonus (paid in 2020) payable in cash is an amount of \$1,022,659 (gross), which is 110% of his base salary and the portion of the sole member of our Managing Board, President and Chief Executive Officer's 2019 bonus (paid in 2020) payable in shares amounts to 34,960 shares, representing 60% of his base salary, representing a global achievement rate of 170% (out of the maximum of 210%).

### c. Stock Awards Grant

The purpose of stock awards is to motivate the sole member of our Managing Board, President and Chief Executive Officer to deliver sustainable long-term shareholder value through long-term profitability and share price growth.

Award levels are determined annually by the Compensation Committee within the maximum approved by the AGM each year. In accordance with the resolution adopted by our General Meeting of Shareholders, the maximum annual grant allowed in relation to the sole member of our Managing Board, President and Chief Executive Officer's stock award for 2017, 2018, 2019, and 2020 was 100,000 unvested stocks awards subject to performance criteria.

Performance metrics and targets are set by the Compensation Committee at the beginning of the relevant performance period. When setting performance targets, the Compensation Committee allocates weightings to each metric as it considers appropriate considering strategic priorities.

Set forth in the following table are the performance criteria, weight, and achievement rate for the periods indicated below set for the LTIP plan.

	Target Weighting (as % of maximum			
LTIP Performance Criteria	achievement score)	2019	2018	2017
Evolution of Sales	33.33%	Criteria met	Criteria met	Criteria met
Evolution of Operating Income	33.33%	Criteria met	Criteria met	Criteria met
Return On Net Assets (RONA)	33.33%	Criteria not met	Criteria met	Criteria met
Maximum achievement score	100%	67%	100%	100%
	which correspond to a	Performance	Performance	Performance
	maximum of 100,000 USAs	Achieved	Achieved	Achieved

In accordance with the 2017-2020 Long Term Incentives Plan as approved by the 2017 AGM, the stock awards vest over a three year horizon from the date of the grant, with 32% vesting after one year, a further 32% after two years and the remaining 36%, provided that the eligible employee is still an employee at such time (subject to the acceleration provisions in the event of a change in control).

The Supervisory Board, upon recommendation of the Compensation Committee, determines whether the performance criteria, as described below, will be met and conclude whether and to which extent all eligible employees, including the sole member of our Managing Board, President and Chief Executive Officer, are entitled to any stock awards under the stock award plan. Scorecard targets are not disclosed prospectively as it would require the disclosure of commercially sensitive information. Scorecard targets will be disclosed only when they are no longer deemed to be commercially sensitive.

Set forth in the following table is an overview of the outstanding awards that has been granted to our sole member of our Managing Board, President and Chief Executive Officer:

Plan	Grant date	Final vesting date	Max. number of shares that can be granted	Number of shares awarded based on performance conditions achievement	Share price at grant (in \$)	2019 vesting	2020 vesting	2021 vesting	2022 vesting	2023 vesting	Unvested shares as of end of 2020
2020 USAs Allocation	July 23, 2020	June 17, 2023	100,000	To be assessed	\$29.97			32,000	32,000	36,000	100,000(1)
2019 USAs Allocation	July 24, 2019	May 23, 2022	100,000	66,672	\$19.45		21,335	21,335	24,002		45,337
2018 USAs Allocation	July 24, 2018	May 31, 2021	100,000	100,000	\$23.64	32,000	32,000	36,000			36,000
						22,000	52 225	90 225	5( 002	26,000	191 227

1) As at December 31, 2020, a final determination of the achievement of the performance conditions had not yet been made by the Compensation Committee of the Supervisory Board.

### d. Termination provisions for LTIP

In cases of resignation or dismissal for cause, variable remuneration elements (including annual bonus and LTI) will generally lapse and the sole member of our Managing Board, President and Chief Executive Officer will not be eligible for compensation for loss of office.

# Termination not in connection with a change-in-control

If our sole member of our Managing Board, President and Chief Executive Officer is not employed by the Company at the time of vesting, the award will lapse, except in certain circumstances as determined by the Supervisory Board including death, disability, retirement and any other circumstance as decided by the Board. The portion of any award which vests will be determined solely by the Supervisory Board based on several factors including performance against targets.

In the case that employment is terminated by the Company without cause or termination but for a pre-defined good reason as detailed above, then the portion of any award which vests will be determined solely by the Supervisory Board based on several factors including performance against targets.

# Termination in connection with a change-in-control

In the event of a change in control of the Company, any award will be rolled over into an award in the new entity, subject to performance, with the balance rolled over.

In the case that employment is terminated by the Company without cause, or termination by the sole member of our Managing Board, President and Chief Executive Officer for a pre-defined good reason detailed above in connection with a change in control, then outstanding awards will vest immediately without time proration.

During 2020, our sole member of our Managing Board, President and Chief Executive Officer, Mr. Chery, did not have any stock options, and did not purchase any shares in the Company. During 2020, our sole member of our Managing Board, President and Chief Executive Officer, Mr. Chery, sold 122,000 shares.

For further information regarding stock options and other stock based compensation granted to members of our Supervisory Board, the Managing Board, President and Chief Executive Officer and our Senior Management, please refer to Note 18 to our Consolidated Financial Statements.

# Comparative information on the change of remuneration and Company's performance

Set forth in the following table is the annual change over the last three years of (i) the remuneration of the sole member of our Managing Board, President and Chief Executive Officer, (ii) the performance of the Company and (iii) the average remuneration of our employees (i.e., all employees other than the members of the Senior Management including the sole member of our Managing Board and President and Chief Executive Officer):

	2020	2019	2018
Managing Board remuneration			
Total remuneration of the sole member of our Managing Board, President and Chief Executive Officer	\$ 5,739,247 \$	7,794,852(1)	\$ 11,114,344(2)
Company's performance			
Net revenues (amounts in millions)	\$ 10,219	\$ 9,556	\$ 9,664
Operating income (amounts in millions)	\$ 1,323	\$ 1,203	\$ 1,400
Average remuneration of all global indirect employees			
(FTE basis) <sup>(3)</sup>			
Employees	\$ 98,500	\$ 97,300	\$ 100,600

- (1) Total Managing Board remuneration for 2019 includes one-off contractually obligated deferred compensation paid to Mr. Bozotti
- (2) Total Managing Board remuneration for 2018 includes the accelerated remuneration to Mr. Bozotti.
- (3) Global indirect employees are all employees other than those directly manufacturing our products, excluding the members of the Senior Management. "FTE" refers to full time equivalent.

### Share Ownership

None of the members of our Supervisory Board, Managing Board or Senior Management holds shares or options to acquire shares representing more than 1% of our issued share capital.

# Stock Awards and Options

Our stock-based compensation plans are designed to incentivize, attract and retain our executives and key employees by aligning compensation with our performance and the evolution of our share price. We have adopted stock based compensation plans comprising either stock options or unvested stock awards for our Senior Management as well as key employees. Furthermore, until 2012, the Compensation Committee (on behalf of the Supervisory Board and with its approval) granted stock-based awards (the options to acquire common shares in the share capital of the Company) to the members and professionals of the Supervisory Board. For a description of our stock option plans and unvested share award plans, please see Note 18 to our Consolidated Financial Statements, which is incorporated herein by reference.

Pursuant to the shareholders' resolutions adopted by our General Meetings of Shareholders, our Supervisory Board, upon the proposal of the Managing Board and the recommendation of the Compensation Committee, took the following actions:

- approved, for a four-year period, our 2017 Unvested Stock Award Plan for Executives and Key Employees, under which directors, managers and selected employees may be granted stock awards upon the fulfillment of restricted criteria, such as those linked to our performance (for selected employees) and continued service with us; and
- approved conditions relating to our 2018 unvested stock award allocation under the 2017 Unvested Stock Award Plan, including restriction criteria linked to our performance (for selected employees).
- approved conditions relating to our 2019 unvested stock award allocation under the 2017 Unvested Stock Award Plan, including restriction criteria linked to our performance (for selected employees).
- approved conditions relating to our 2020 unvested stock award allocation under the 2017 Unvested Stock Award Plan, including restriction criteria linked to our performance (for selected employees).

The exercise of stock options and the sale or purchase of shares of our stock by the members or professionals of our Supervisory Board, the sole member of our Managing Board, President and Chief Executive Officer, and all our employees are subject to an internal policy which involves, *inter alia*, certain blackout periods.

# **Employees**

The tables below set forth the breakdown of employees by geographic area and main category of activity for the past three years.

		At December 31,					
	2020	2019	2018				
France	10,840	10,131	10,314				
Italy	10,765	10,551	10,266				
Rest of Europe	991	970	904				
Americas	766	761	744				
Mediterranean (Malta, Morocco, Tunisia)	4,378	4,743	4,897				
Asia	18,276	18,398	18,828				
Total	46,016	45,554	45,953				
		At December 31,					
	2020	2019	2018				
Research and Development	8,145	7,796	7,387				
Marketing and Sales	2,311	2,261	2,211				
Manufacturing	30,134	30,351	31,317				
Administration and General Services	2,464	2,290	2,190				
Divisional Functions	2,962	2,856	2,848				
Total	46,016	45,554	45,953				

Our future success will partly depend on our ability to continue to attract, retain and motivate highly qualified technical, marketing, engineering and management personnel, as well as on our ability to timely adapt the size and/or profile of our personnel to changing industry needs. Unions are represented at almost all of our manufacturing facilities and at several of our R&D sites. We use temporarily employees if required during production spikes and, in Europe, during summer vacation. We have not experienced any significant strikes or work stoppages in recent years.

### Item 7. Major Shareholders and Related Party Transactions

### Major Shareholders

The following table sets forth certain information with respect to the ownership of our issued common shares as at December 31, 2020 based on information available to us:

	Common Shares Owned	
Shareholders	Number	%
STMicroelectronics Holding N.V. ("ST Holding")	250,704,754	27.5
Public(1)	654,710,248	71.9
Treasury shares	5,824,318	0.6
Total	911,239,420	100.0

<sup>(1)</sup> According to the report available on Schedule 13G filed with the SEC on February 5, 2021, we understand that as of December 31, 2020 BlackRock, Inc. is the beneficial owner of 60,720,144 of our common shares (representing approximately 6.7% of our outstanding common shares). We understand from reports available on Schedule 13G filed with the SEC on February 10, 2020 and on February 6, 2019 that BlackRock, Inc. was the beneficial owner of approximately 5.7% of our outstanding common shares as of December 31, 2018. BlackRock, Inc. does not have any different voting rights from those of our other shareholders.

We are not aware of any significant change over the past three years in the percentage ownership of our shares by ST Holding, our major shareholder. ST Holding does not have any different voting rights from those of our other shareholders.

# Shareholders Agreement

According to the report on Schedule 13G ("ST Holding 13G") jointly filed with the SEC on February 11, 2020 by ST Holding, the Italian Ministry of the Economy and Finance (the "MEF"), Bpifrance Participations S.A., a successor to its former wholly-owned subsidiary FTICI, ("Bpifrance" and together with the MEF, the "STH Shareholders") and the Italian Government and the French Government, each indirectly through the MEF and Bpifrance, respectively, held 14.1% of our share capital as at December 31, 2019. The ownership percentages of each the MEF and Bpifrance are based on 891,434,489 shares outstanding as at December 31, 2019. As of the date of this Form 20-F, no report on 13G in respect of the STH Shareholders was filed subsequent to the ST Holding 13G. On November 17, 2016, \*Commissariat à l'Energie Atomique et aux Énergies Alternatives ("CEA") and Bpifrance, which were, at the time, the shareholders of FTICI, entered into a share purchase agreement pursuant to which CEA transferred 721,513 shares of FT1CI to Bpifrance. As a result of the transaction, Bpifrance increased its shareholding in FT1CI from 79.2% to 95.1%, with CEA retaining the remaining 4.9% in FT1CI. On November 16, 2018, CEA and Bpifrance entered into a second purchase agreement, pursuant to which CEA transferred 222,265 shares, representing its remaining ownership interest in FT1CI, to Bpifrance. As a result of this transaction, Bpifrance became the sole shareholder of FT1CI. On June 21, 2019, FT1CI merged with and into Bpifrance and ceased to exist. The filers of the ST Holding 13G have entered into a shareholders agreement which governs relations between them, including for certain matters relating to the ownership of our shares and the actions of our management to the extent shareholder approval is required (the "STH Shareholders Agreement"). Below is a brief summary of certain details from the ST Holding 13G.

# Corporate Governance

Managing Board and Supervisory Board members can only be appointed by the General Meeting of Shareholders upon a proposal by the Supervisory Board. The Supervisory Board passes resolutions, including on such a proposal, by at least three quarters of the votes of the members in office. The STH Shareholders Agreement, to which STM is not a party, furthermore provides that: (i) each of the STH Shareholders, Bpifrance, on the one hand, and the MEF, on the other hand, may propose the same number of members for election to the Supervisory Board by our shareholders, and ST Holding shall vote in favor of such members; and (ii) any decision relating to the voting rights of ST Holding shall require the unanimous approval of the STH Shareholders. ST Holding may therefore be in a position to effectively control actions that require shareholder approval, including, as discussed above, the proposal of six out of nine members for election to our Supervisory Board (three members by each STH Shareholder) and the appointment of our Managing Board, as well as corporate actions, and the issuance of new shares or other securities. As a result of the STH Shareholders Agreement, the Chairman of our Supervisory Board is proposed by an STH Shareholder for a three-year term,

and the Vice-Chairman of our Supervisory Board is proposed by the other STH Shareholder for the same period, and vice-versa for the following three-year term. The STH Shareholder proposing the appointment of the Chairman may furthermore propose the appointment of the Assistant Secretary of our Supervisory Board, and the STH Shareholder proposing the appointment of Vice-Chairman proposes the appointment of the Secretary of our Supervisory Board. Finally, each STH Shareholder also proposes the appointment of a Financial Controller to the Supervisory Board.

### Ownership of ST Shares

The STH Shareholders Agreement provides that each STH Shareholder retains the right to cause ST Holding to dispose of its stake in us at its sole discretion pursuant to the issuance of financial instruments, an equity swap, a structured finance deal or a straight sale; however, except in the case of a public offer, no sales by any party to the STH Shareholders Agreement may be made of any of our shares or any shares of Bpifrance or ST Holding to any of our top ten competitors or any company controlling such a competitor. The STH Shareholders Agreement also requires all of the parties to the STH Shareholders Agreement to hold their stakes in us at all time through the current holding structure of ST Holding, subject to certain limited exceptions, and precludes all such parties and their affiliates from acquiring any of our common shares other than through ST Holding.

# Change of Control Provision

The STH Shareholders Agreement provides for tag-along rights, pre-emptive rights, and provisions with respect to a change of control of any of the STH Shareholders or any controlling shareholder of Bpifrance, on the one hand, and the Italian Ministry of the Economy and Finance, on the other hand. The STH Shareholders may transfer shares of ST Holding and/or Bpifrance, as applicable, to any of their respective affiliates, which could include entities ultimately controlled by the Italian Government or the French Government.

## Preference Shares

We have an option agreement with an independent foundation, Stichting Continuiteït ST (the "Stichting"), whereby the Stichting can acquire a maximum of 540,000,000 preference shares in the event of actions which the board of the Stichting determines would be contrary to our interests, our shareholders and our other stakeholders and which in the event of a creeping acquisition or an unsolicited offer for our common shares are not supported by our Managing Board and Supervisory Board. If the Stichting exercises its call option and acquires preference shares, it must pay at least 25% of the par value of such preference shares. The preference shares may remain outstanding for no longer than two years.

No preference shares have been issued to date. The effect of the preference shares may be to deter potential acquirers from effecting an unsolicited acquisition resulting in a change of control as well as to create a level-playing field in the event actions which are considered hostile by our Managing Board and Supervisory Board, as described above, occur and which the board of the Stichting determines to be contrary to our interests and our shareholders and other stakeholders. In addition, any issuance of additional capital within the limits of our authorized share capital, as approved by our shareholders, is subject to approval by our Supervisory Board, other than pursuant to an exercise of the call option granted to the Stichting.

# **Related Party Transactions**

See Note 29 to our Consolidated Financial Statements, incorporated herein by reference, for transactions with significant shareholders, their affiliates and other related parties, which also include transactions between us and our equity method investments.

### Item 8. Financial Information

### Consolidated Statements and Other Financial Information

Please see "Item 18. Financial Statements" for a list of the financial statements filed with this Form 20-F.

# Legal Proceedings

For a description of our material pending legal proceedings, please see Note 27 "Contingencies, Claims and Legal Proceedings" to our Consolidated Financial Statements, which is incorporated herein by reference.

### **Dividend Policy**

Our dividend policy reads as follows: "STMicroelectronics seeks to use its available cash in order to develop and enhance its position in a competitive semiconductor market while at the same time managing its cash resources to reward its shareholders for their investment and trust in STMicroelectronics. Based on its results, projected capital requirements as well as business conditions and prospects, the Managing Board proposes on an annual basis to the Supervisory Board, whenever deemed possible and desirable in line with STMicroelectronics' objectives and financial situation, the distribution of a quarterly cash dividend, if any. The Supervisory Board, upon the proposal of the Managing Board, decides or proposes on an annual basis, in accordance with this policy, which portion of the profits or distributable reserves shall not be retained in reserves to fund future growth or for other purposes and makes a proposal concerning the amount, if any, of the quarterly cash dividend".

On June 17, 2020, our shareholders approved a cash dividend of US\$0.168 per outstanding share of our common stock, which was distributed in quarterly installments of US\$0.042 in each of the second, third and fourth quarters of 2020 and will also be distributed in the first quarter of 2021. Future dividends, if any, and their timing and amounts may be affected by our accumulated profits, our capacity to generate cash flow, our financial situation, the general economic situation and prospects and any other factors that the Supervisory Board, upon the recommendation of our Managing Board, shall deem important. For a history of dividends paid by us to our shareholders in the past three years, see Note 18 to our Consolidated Financial Statements "Shareholders' Equity – Dividends".

# Item 9. Listing

## **Market Information**

Our common shares are traded on the NYSE under the symbol "STM" and CUSIP #861012102, are listed on the compartment A (large capitalizations) of Euronext Paris under the ISIN Code NL0000226223 and are traded on the Borsa Italiana. In 2017, ST issued a \$1.5 billion dual-tranche offering of 2017 Senior Unsecured Convertible Bonds due 2022 and 2024 that trade on the Frankfurt Stock Exchange. On August 4, 2020, ST issued a \$1.5 billion dual-tranche offering of new 2020 Senior Unsecured Convertible Bonds due 2025 and 2027 that trade on the Borsa Italiana in Milan.

Effective September 18, 2017 our common shares were re-admitted by the independent Conseil Scientifique to the CAC 40, a free float market capitalization weighted index that reflects the performance of the 40 most capitalized and traded shares listed on Euronext Paris, and is the most widely used indicator of the Paris stock market. Our common shares are included in the FTSE MIB Index, which measures the performance of the 40 most liquid and capitalized shares listed on the Borsa Italiana and seeks to replicate the broad sector weights of the Italian stock market, and the FTSE MIB Dividend Index, the index which represents the cumulative value of ordinary gross dividends paid by the individual constituents of the underlying FTSE MIB Index, expressed in terms of index points.

Of the 905,415,002 common shares outstanding as at December 31, 2020, 63,238,654, or 7.0%, were registered in the common share registry maintained on our behalf in New York and 842,176,348 or 93.0%, of our common shares outstanding were listed on Euroclear France and traded on Euronext Paris and on the Borsa Italiana in Milan.

# Item 10. Additional Information

A. Share Capital

Not applicable.

# B. Memorandum and Articles of Association

We were incorporated under the laws of The Netherlands by deed of May 21, 1987 and are registered with the trade register (handelsregister) of the Dutch Chamber of Commerce (Kamer van Koophandel) under no. 33194537. Set forth below is a summary of certain provisions of our Articles of Association and relevant Dutch law. The summary below does not purport to be complete and is qualified in its entirety by reference to our Articles of Association, most recently amended on June 20, 2017, and relevant Dutch law.

#### Object and Purposes (Article 2)

The purpose of our company is to participate in or take, in any manner, any interests in other business enterprises; to manage such enterprises; to carry on business in semiconductors and electronic devices; to take and grant licenses and other industrial property interests; to assume commitments in the name of any enterprises with which we may be associated within a group of companies; to take financial interests in such enterprises and to take any other action, such as but not limited to the granting of securities or the undertaking of obligations on behalf of third parties, which in the broadest sense of the term, may be related or contribute to the aforementioned objects.

# Supervisory Board Members

Our Articles of Association do not include any provisions related to a Supervisory Board member's:

- power to vote on proposals, arrangements or contracts in which such member is materially interested;
- power, in the absence of an independent quorum, to vote on compensation to themselves or any members of the Supervisory Board;
- borrowing powers exercisable by the directors and how such borrowing powers can be varied;
- mandatory retirement age: or
- number of owned shares in our company required to qualify as a Supervisory Board member.

Our Supervisory Board Charter and Dutch law, however, explicitly prohibits members of our Supervisory Board from participating in discussions and voting on matters where they have a conflict of interest. If our entire Supervisory Board has a conflict of interest, our shareholders' meeting is the competent corporate body to adopt the relevant resolution. Our Articles of Association provide that our shareholders' meeting must adopt the compensation of our Supervisory Board members. Neither our Articles of Association nor our Supervisory Board Charter has a requirement or policy that Supervisory Board members hold a minimum number of our common shares.

We have balanced participation by men and women on our Supervisory Board and currently, our Supervisory Board comprises nine members of which 4 are female and 5 are male.

### Distribution of Profits (Articles 37, 38, 39 and 40)

Subject to certain exceptions, dividends may only be paid out of the profits as shown in our adopted annual accounts. Our profits must first be used to set up and maintain reserves required by Dutch law and our Articles of Association. Subsequently, if any of our preference shares are issued and outstanding, preference shareholders shall be paid a dividend, which will be a percentage of the paid up part of the par value of their preference shares. Our Supervisory Board may then, upon proposal of our Managing Board, also establish reserves out of our annual profits. The portion of our annual profits that remains after the establishment or maintenance of reserves and the payment of a dividend to our preference shareholders is at the disposal of our shareholders' meeting. No distribution may be made to our shareholders when the equity after such distribution is or becomes inferior to the fully-paid share capital, increased by the legal reserves. Our preference shares are cumulative by nature, which means that if in a financial year the dividend or the preference shares cannot be (fully) paid, the deficit must first be paid in the following financial year(s).

Our Supervisory Board independently as well as our shareholders' meeting, upon the proposal of our Supervisory Board, may each declare distributions out of our share premium reserve and other reserves available for shareholder distributions under Dutch law. Pursuant to a resolution of our Supervisory Board,

distributions adopted by the shareholders' meeting may be fully or partially made in the form of our new shares to be issued. Our Supervisory Board may, subject to certain statutory provisions, make one or more interim distributions in respect of any year before the accounts for such year have been adopted at a shareholders' meeting. Rights to cash dividends and distributions that have not been collected within five years after the date on which they became due and payable shall revert to us.

For the history of dividends paid by us to our shareholders in the past five years, see Note 18 to our Consolidated Financial Statements.

Notice Convening the Shareholders' Meeting (Articles 25, 26, 27, 28 and 29)

Our ordinary shareholders' meetings are held at least annually, within six months after the close of each financial year, in The Netherlands. Extraordinary shareholders' meetings may be held as often as our Supervisory Board deems necessary, and must be held upon the written request of registered shareholders or other persons entitled to attend shareholders' meetings of at least 10% of the total issued share capital to our Managing Board or our Supervisory Board specifying in detail the business to be dealt with. Such written requests may not be submitted electronically.

The notice convening the shareholders' meeting shall be given in such manner as shall be authorized or required by law with due observance of the statutory notice period, which is currently 42 days prior to the meeting.

One or more shareholders or other persons entitled to attend shareholders' meetings representing at least one-tenth of our issued share capital may, provided that the request was made at least five days prior to the date of convocation of the meeting, request proposals to be included on the agenda. Furthermore, a request that a proposal be included on the agenda can be made in writing to our Managing Board within sixty days of a meeting by persons who are entitled to attend our shareholders' meetings who, solely or jointly, represent at least 1% of our issued share capital or a market value of at least €50 million. The aforementioned requests may not be submitted electronically and must comply with conditions stipulated by our Managing Board, subject to the approval of our Supervisory Board, which shall be posted on our website. Pursuant to Dutch law a shareholder requesting discussion of an agenda item must disclose to us its entire beneficial interest (long and short position) and we are required to disclose this information on our website.

We are exempt from the proxy solicitation rules under the United States Securities Exchange Act of 1934. Euroclear France will provide notice of shareholders' meetings to, and compile voting instructions from, holders of shares held directly or indirectly through Euroclear France. The Depository Trust Company ("DTC") will provide notice of shareholders' meetings to holders of shares held directly to rindirectly through DTC and the New York Transfer Agent and Registrar will compile voting instructions. In order for holders of shares held directly or indirectly through Euroclear France to attend shareholders' meetings in person, such holders must withdraw their shares from Euroclear France and have such shares registered directly in their name or in the name of their nominee. In order for holders of shares held directly or indirectly through DTC to attend shareholders' meetings of shareholders in person, such holders need not withdraw such shares from DTC but must follow rules and procedures established by the New York Transfer Agent and Registrar.

Attendance at Shareholders' Meetings and Voting Rights (Articles 30, 31, 32, 33 and 34)

Each share is entitled to one vote.

All shareholders and other persons entitled to attend shareholders' meetings may attend in person or be represented by a person holding a written proxy. Shareholders and other persons entitled to vote, may do so pursuant to our Articles of Association. Subject to the approval of our Supervisory Board, our Managing Board may resolve to facilitate the use of electronic means of communication in relation to the participation and voting in shareholders' meetings. Dutch law prescribes a fixed registration date of 28 days prior to the shareholders' meeting, which means that shareholders and other persons entitled to attend shareholders' meetings are those persons who have such rights at the 28th day prior to the shareholders' meeting and, as such, are registered in a register designated by our Managing Board, regardless of who is a shareholder or otherwise a person entitled to attend shareholders' meeting at the time of the meeting if a registration date would not be applicable. In the notice convening the shareholders' meeting, the time of registration must be mentioned as well as the manner in which shareholders and other persons entitled to attend shareholders' meetings can register themselves and the manner in which they can exercise their rights.

All matters regarding admittance to the shareholders' meeting, the exercise of voting rights and the result of voting, as well as any other matters regarding the business of the shareholders' meeting, shall be decided upon by the chairman of that meeting, in accordance with the requirements of Section 2:13 of the Dutch Civil Code.

Our Articles of Association allow for separate meetings for holders of common shares and for holders of preference shares. At a meeting of holders of preference shares at which the entire issued capital of shares of such class is represented, valid resolutions may be adopted even if the requirements in respect of the place of the meeting and the giving of notice have not been observed, provided that such resolutions are adopted by unanimous vote. Also, valid resolutions of preference shareholder meetings may be adopted outside a meeting if all persons entitled to vote on our preference shares indicate in writing that they vote in favor of the proposed resolution, provided that no depositary receipts for preference shares have been issued with our cooperation.

Authority of our Shareholders' Meeting (Articles 12, 16, 19, 25, 28, 32 and 41)

Our AGM may decide upon (i) the discharge of the members of our Managing Board for their management during the past financial year and the discharge of the members of our Supervisory Board for their supervision during the past financial year; (ii) the adoption of our statutory annual accounts and the distribution of dividends; (iii) the appointment of the members of our Supervisory Board and our Managing Board; and (iv) any other resolutions listed on the agenda.

Furthermore, our shareholders' meeting has to approve resolutions of our Managing Board regarding a significant change in the identity or nature of us or our enterprise, including in any event (i) transferring our enterprise or practically our entire enterprise to a third party, (ii) entering into or canceling any long-term cooperation between us or a subsidiary of us and any other legal person or company or as a fully liable general partner of a limited partnership or a general partnership, provided that such cooperation or the cancellation thereof is of essential importance to us, and (iii) us or a subsidiary of us acquiring or disposing of a participating interest in the capital of a company with a value of at least one-third of our total assets according to our Consolidated Balance Sheets and notes thereto in our most recently adopted annual accounts.

Our Articles of Association may only be amended (and our liquidation can only be decided on) if amendments are proposed by our Supervisory Board and approved by a simple majority of the votes cast at a shareholders' meeting at which at least 15% of the issued and outstanding share capital is present or represented. The complete proposal for the amendment (or liquidation) must be made available for inspection by the shareholders and the other persons entitled to attend shareholders' meetings at our offices as from the day of the notice convening such meeting until the end of the meeting. Any amendment of our Articles of Association that negatively affects the rights of the holders of a certain class of shares requires the prior approval of the meeting of holders of such class of shares.

Quorum and Majority (Articles 4, 13 and 32)

Unless otherwise required by our Articles of Association or Dutch law, resolutions of shareholders' meetings require the approval of a majority of the votes cast at a meeting at which at least 15% of the issued and outstanding share capital is present or represented, subject to the provisions explained below. We may not vote our common shares held in treasury. Blank and invalid votes shall not be counted.

A quorum of shareholders, present or represented, holding at least half of our issued share capital, is required to dismiss a member of our Managing Board, unless the dismissal is proposed by our Supervisory Board. In the event of the lack of a quorum, a second shareholders' meeting must be held within four weeks, with no applicable quorum requirement. Any decision or authorization by the shareholders' meeting which has or could have the effect of excluding or limiting preferential subscription rights must be taken by a majority of at least two-thirds of the votes cast, if at the shareholders' meeting less than 50% of the issued and outstanding share capital is presented. Otherwise such a resolution can be taken by a simple majority at a meeting at which at least 15% of the issued and outstanding share capital is represented.

Disclosure of holdings and capital interest under Dutch Law

Holders of our shares (including certain comparable instruments, such as instruments with a value (partly) dependent on shares or distributions on shares, or contracts creating an economic position similar to shares) or voting rights (including potential interests, such as via options or convertible bonds) may have disclosure

obligations under Dutch law. Any person or entity whose direct or indirect interest in our share capital or voting rights (including potential interest) reaches, exceeds or falls below a certain threshold must make a disclosure to the AFM immediately. The threshold percentages are 3%, 5%, 10%, 15%, 20%, 25%, 30%, 40%, 50%, 60%, 75% and 95%. If a person's direct or indirect interest in the share capital or voting rights passively reaches, exceeds or falls below the abovementioned thresholds (e.g. as a result of a change in the capital of the company), the person in question must give notice to the AFM no later than the fourth trading day after the AFM has published the change in the share capital and/or voting rights in the public register. In addition, a notification requirement applies in respect of shares with special statutory rights (e.g. priority shares), regardless of the abovementioned percentages.

Furthermore, each person who is or ought to be aware that the substantial holding he holds in the Company, reaches, exceeds or falls below any of the abovementioned thresholds vis-à-vis his most recent notification to the AFM, which change relates to the composition of the notification as a result of certain acts (e.g. (i) the exchange of certain financial instruments for shares or depositary receipts for shares, (ii) the exchange of shares for depositary receipts for shares, or (iii) as a result of the exercise of rights pursuant to a contract for the acquisition of voting rights) must give notice to the AFM no later than the fourth trading day after he became or ought to be aware of this change.

For the purpose of calculating the percentage of capital interest or voting rights, among others, the following interests must be taken into account: (i) those directly held by him; (ii) those held by his controlled undertakings for purposes of the Dutch Financial Supervision Act; (iii) shares held by a third party for such person's account and the votes such third party may exercise; (iv) the votes held by a third party if such person has concluded an oral or written voting agreement with such party which provides for a lasting common policy on voting; (v) the votes held by a third party if such person has concluded an oral or written agreement with such party which provides for a temporary and paid transfer of the votes; and (vi) the votes which a person may exercise as a proxy but in his own discretion. A person who has a 3% or larger interest in the share capital or voting rights and who ceases to be a controlled undertaking must without delay notify the AFM. As of that moment, all notification obligations under the Dutch Financial Supervision Act will become applicable to the former controlled undertaking itself. The management company of a common fund (beleggingsfonds) shall be deemed to have the disposal of the shares held by the depositary and the related voting rights. The depositary of a common fund shall be deemed not to have the disposal of shares or voting rights. Furthermore, special rules apply to the attribution of the ordinary shares which are part of the property of a partnership or other community of property. A holder of a pledge or right of usufruct in respect of our shares can also be subject to a notification obligation if such person has, or can acquire, the right to vote on our shares. If a pledgor or usufructuary acquires such voting rights, this may also trigger a notification obligation for the holder of our shares. A person is also deemed to hold shares if he has a financial instrument (i) whose rise in value depends in part on the rise in value of the underlying shares or on divide

The holder of a financial instrument representing a short position in our shares is required to notify the AFM if such short position, expressed in a capital percentage, reaches or crosses a threshold percentage. The threshold percentages are the same as referred to above in this section. Short position refers to the gross short position (i.e., a long position held by the holder cannot be offset against the short position). There is also a requirement to notify the AFM of the net short position (i.e., long positions are offset against short positions) if such short position, expressed in a capital percentage, reaches or crosses a threshold percentage; The threshold percentages are 0.2% and each 0.1% above that. Notifications as of 0.5% and each 0.1% above that will be published by the AFM. The notification shall be made no later than 3:30 pm CET on the following trading day.

Under Dutch law, the sole member of our Managing Board and each of the members of our Supervisory Board must without delay notify the AFM of any changes in his interest or potential interest in our share capital or voting rights. Under the European Market Abuse Regulation, the sole member of our Managing Board, the members of the Executive Committee and each of the members of our Supervisory Board, as well as any other person who would have the power to take managerial decisions affecting the future developments and business prospects of the Company having regular access to inside information relating, directly or indirectly, to the Company, must notify the AFM of any transactions conducted for his or her own account relating to the shares

or in financial instruments the value of which is also based on the value of the shares. In addition, certain persons who are closely associated with members of the Managing Board, the Executive Committee and Supervisory Board or any of the other persons as described above, are required to notify the AFM of any transactions conducted for their own account relating to the shares or in financial instruments the value of which is also based on the value of the shares.

The AFM publishes all notifications on its public website (www.afm.nl). Non-compliance with the notification obligations under European or Dutch law can lead to imprisonment or criminal fines, or administrative fines or other administrative sanctions. In addition, non-compliance with these notification obligations may lead to civil sanctions, including, without limitation, suspension of the voting rights attaching to our shares held by the offender for a maximum of three years, (suspension and) nullification of a resolution adopted by our shareholders' meeting (if it is likely that such resolution would not have been adopted if the offender had not voted) and a prohibition for the offender to acquire our shares or votes for a period of no more than five years. Shareholders are advised to consult with their own legal advisers to determine whether notification obligations apply to them.

Share Capital (Articles 4, 5 and 6)

Our shares may not be issued at less than their par value. Our common shares must be fully paid up at the time of their issuance. Our preference shares must be paid up for at least 25% of their par value at the time of their issuance (and the remaining 75% if and when requested by our Managing Board). Our authorized share capital is not restricted by redemption provisions, sinking fund provisions or liability to further capital calls by us. Our Articles of Association allows for the acquisition of own shares and the cancellation of shares.

Type II shares are common shares in the form of an entry in our shareholders register with the issue of a share certificate consisting of a main part without a dividend coupon. In addition to type II shares, type I shares are available. Type I shares are common shares in the form of an entry in our shareholders register without the issue of a share certificate. Type II shares are only available should our Supervisory Board decide to offer them. Our preference shares are in the form of an entry in our shareholders register without issue of a share certificate.

Non-issued authorized share capital, which is different from issued share capital, allows us to proceed with capital increases excluding the preemptive rights, upon our Supervisory Board's decision. Other securities in circulation which give access to our share capital include (i) the options giving the right to subscribe to our shares granted to our employees, including the sole member of our Managing Board and our senior managers; (ii) the options giving the right to subscribe to our shares granted to the members of our Supervisory Board, its secretaries and controllers, as described in "Item 6. Directors, Senior Management and Employees"; (iii) our Bonds; and (iv) the option giving the right to subscribe to our preference shares to Stichting Continuïteit ST. See "Item 7. Major Shareholders and Related Party Transactions — Preference Shares". We do not have securities not representing our share capital.

Our shareholders' meeting, upon proposal and on the terms and conditions set by our Supervisory Board, has the power to issue shares and rights to subscribe for shares. The shareholders' meeting may authorize our Supervisory Board, for a period of no more than five years, to issue shares and rights to subscribe for shares and to determine the terms and conditions of such issuances.

Each holder of common shares has a pro rata preemptive right to subscribe to an offering of common shares issued for cash in proportion to the number of common shares which he owns. There is no preemptive right with respect to an offering of shares for non-cash consideration, with respect to an offering of shares to our employees or to the employees of one of our subsidiaries, or with respect to preference shares.

Our shareholders' meeting, upon proposal by our Supervisory Board, has the power to limit or exclude preemptive rights in connection with new issuances of shares. Such a resolution of the shareholders' meeting must be taken with a majority of at least two-thirds of the votes cast if at such shareholders' meeting less than 50% of the issued and outstanding share capital is present or represented. Otherwise such a resolution can be taken by a simple majority of the votes cast at a shareholders' meeting at which at least 15% of our issued and outstanding share capital is present or represented. Our shareholders' meeting may authorize our Supervisory Board, for a period of no more than five years, to limit or exclude preemptive rights.

Acquisition of Shares in Our Own Share Capital (Article 5)

We may acquire our own shares, subject to certain provisions of Dutch law and of our Articles of Association. Share acquisitions may be effected by our Managing Board, subject to the approval of our Supervisory Board, only if the shareholders' meeting has authorized our Managing Board to effect such repurchases, which authorization may apply for a maximum period of 18 months. We may not vote shares we hold in treasury. Our purchases of our own shares are subject to acquisition price conditions as authorized by our shareholders' meeting. Our Articles of Association provide that we shall be able to acquire shares in our own share capital in order to transfer these shares under employee stock option or stock purchase plans, without an authorization of our shareholders' meeting.

Upon the proposal of our Supervisory Board, our shareholders' meeting may, in accordance with the legal provisions, reduce our issued capital by canceling the shares that we hold in treasury, by reducing the par value of the shares or by canceling our preference shares.

Liquidation Rights (Articles 42 and 43)

In the event of our dissolution and liquidation, after payment of all debts and liquidation expenses, the holders of preference shares if issued, would receive the paid up portion of the par value of their preference shares. Any assets then remaining shall be distributed among the registered holders of common shares in proportion to the par value of their shareholdings.

Limitations on Right to Hold or Vote Shares

There are currently no limitations imposed by Dutch law or by our Articles of Association on the right of non-resident holders to hold or vote the shares.

# C. Material Contracts

None.

# D. Exchange Controls

None.

### E. Taxation

# Dutch Taxation

The following is a general summary and the tax consequences as described herein may not apply to all holders of common shares. Any potential investor should consult his tax adviser for more information about the tax consequences of acquiring, owning and disposing of common shares in his particular circumstances.

This summary solely addresses the principal Dutch tax consequences of the acquisition, ownership and disposal of common shares and does not purport to describe every aspect of taxation that may be relevant to a particular holder of common shares. In view of its general nature, this general summary should be treated with corresponding caution.

Tax matters are complex, and the tax consequences of the acquisition, ownership and disposal to a particular holder of common shares will depend in part on such holder's circumstances. Accordingly, you are urged to consult your own tax advisor for a full understanding of the tax consequences of the acquisition, ownership and disposal to you, including the applicability and effect of Dutch tax laws.

Where in this summary English terms and expressions are used to refer to Dutch concepts, the meaning to be attributed to such terms and expressions shall be the meaning to be attributed to the equivalent Dutch concepts under Dutch tax law. Where in this summary the terms "The Netherlands" and "Dutch" are used, these refer solely to the European part of the Kingdom of The Netherlands.

This summary assumes that we are organized, and that our business will be conducted, in the manner outlined in this Form 20-F. A change to such organizational structure or to the manner in which we conduct our business may invalidate the contents of this summary, which will not be updated to reflect any such change.

This summary is based on the tax law of The Netherlands (unpublished case law not included) as it stands at the date of this Form 20-F. The tax law upon which this summary is based, is subject to changes, possibly with retroactive effect. Any such change may invalidate the contents of this summary, which will not be updated to reflect such change.

The summary in this Dutch Taxation paragraph does not address your Dutch tax consequences if you are a holder of common shares who:

- (i) may be deemed an owner of common shares for Dutch tax purposes pursuant to specific statutory attribution rules in Dutch tax law;
- (ii) is, although in principle subject to Dutch corporation tax, in whole or in part, specifically exempt from that tax in connection with income from common shares including holders of common shares which shares qualify or qualified as a participation (deelneming) for purposes of the Dutch corporation tax;
- (iii) is an investment institution as defined in the Dutch Corporation Tax Act 1969;
- (iv) owns common shares in connection with a membership of a management board or a supervisory board, an employment relationship, a deemed employment relationship or management role; or
- (v) has a substantial interest in us or a deemed substantial interest in us for Dutch tax purposes. Generally, you hold a substantial interest in us if (a) you either alone or, in the case of an individual, together with your partner or any of your relatives by blood or by marriage in the direct line (including foster-children) or of those of your partner for Dutch tax purposes own or are deemed to own, directly or indirectly, five percent or more of our shares or profit participating certificates relating to five percent or more of our annual profits or to five percent or more of our liquidation proceeds, or (b) your shares, rights to acquire shares or profit participating certificates in us are held by you following the application of a non-recognition provision.

# Taxes on income and capital gains

### **Dutch Resident Entities**

Generally speaking, if you are an entity that is a resident or deemed to be a resident of The Netherlands for Dutch corporation tax purposes (a 'Dutch Resident Entity'), any payment under the common shares or any gain or loss realized on the disposal or deemed disposal of the common shares is subject to Dutch corporation tax at a rate of 15% with respect to taxable profits up to &245,000 and 25% with respect to taxable profits in excess of that amount (rates and brackets for 2021).

#### Dutch Resident Individuals

If you are an individual resident or deemed to be resident of The Netherlands for Dutch income tax purposes (a 'Dutch Resident Individual'), any payment under the common shares or any gain or loss realized on the disposal or deemed disposal of the common shares is taxable at the progressive Dutch income tax rates (with a maximum of 49.50% in 2021), if:

- (i) the common shares are attributable to an enterprise from which you derive a share of the profit, whether as an entrepreneur (*ondernemer*) or pursuant to a co-entitlement to the net value (*medegerechtigd tot het vermogen*) of such enterprise other than as a shareholder (as defined in the Dutch Income Tax Act 2001); or
- (ii) you are considered to perform activities with respect to the common shares that go beyond ordinary asset management (normaal, actief vermogensbeheer) or you derive benefits from the common shares that are taxable as benefits from other activities (resultaat uit overige werkzaamheden).

If the above-mentioned conditions (i) and (ii) do not apply to you, you will be taxed annually on a deemed return (with a maximum of 5.69% in 2021) on your net investment assets (rendementsgrondslag) for the year, insofar your net in-vestment assets for the year exceed a statutory threshold (heffingvrij vermogen). The deemed return on your net investment assets for the year is taxed at a rate of 31%. Actual income, gains or losses in respect of the common shares are as such not subject to Dutch income tax.

The net investment assets for the year are the fair market value of the investment assets less the allowable liabilities on January 1 of the relevant calendar year. The common shares are included as investment assets. For the net investment assets on January 1, 2021, the deemed return ranges from 1.90% up to 5.69% (depending on the aggregate amount of the net investment assets of the individual on January 1, 2021). The deemed return will be adjusted annually on the basis of historic market yields.

### Non-resident Individuals

If you are not a Dutch Resident Individual, you will not be subject to Dutch income tax in respect of any benefits derived or deemed to be derived from or in connection with your common shares, except if:

- (i) you derive a share of the profit from an enterprise, whether as an entrepreneur or pursuant to a co-entitlement to the net value of such enterprise, other than as a shareholder, and such enterprise is carried on, in whole or in part, through a permanent establishment or a permanent representative in The Netherlands, and your common shares are attributable to such permanent establishment or permanent representative; or
- (ii) you derive benefits or are deemed to derive benefits from or in connection with common shares that are taxable as benefits from miscellaneous activities performed in The Netherlands.

### Non-resident Entities

If you are not a Dutch Resident Entity, you will not be subject to Dutch corporation tax in respect of any benefits derived or deemed to be derived from or in connection with your common shares, except if:

- (i) you derive profits from an enterprise directly which is carried on in whole or in part, through a permanent establishment or a permanent representative which is taxable in The Netherlands, and to which permanent establishment or permanent representative your common shares are attributable; or
- (ii) you derive profits pursuant to a co-entitlement to the net value of an enterprise which is managed in The Netherlands, other than as a holder of securities, and to which enterprise your common shares are attributable.

### General

If you are neither a Dutch Resident Individual nor a Dutch Resident Entity, you will for Dutch tax purposes not carry on or be deemed to carry on an enterprise, in whole or in part, through a permanent establishment or a permanent representative in The Netherlands by reason only of acquisition or ownership of the common shares.

# Dividend withholding tax

# General

We are generally required to withhold Dutch dividend withholding tax at a rate of 15% from dividends distributed by us, subject to possible relief under Dutch domestic law, the Treaty on the Functioning of the European Union or an applicable Dutch income tax treaty depending on a particular holder of common shares' individual circumstances. The Dutch dividend withholding tax is for the account of the holder of common shares.

The concept "dividends distributed by us" as used in this Dutch Taxation paragraph includes, but is not limited to, the following:

- distributions in cash or in kind, deemed and constructive distributions and repayments of capital not recognized as paid-in for Dutch dividend withholding tax purposes;
- · liquidation proceeds and proceeds of repurchase or redemption of common shares in excess of the average capital recognized as paid-in for Dutch dividend withholding tax purposes;
- the par value of common shares issued by us to a holder of common shares or an increase of the par value of common shares, as the case may be, to the extent that it does not appear that a contribution, recognized for Dutch dividend withholding tax purposes, has been made or will be made; and

• partial repayment of capital, recognized as paid-in for Dutch dividend withholding tax purposes, if and to the extent that there are net profits, unless (a) the General Meeting of Shareholders has resolved in advance to make such repayment and (b) the par value of the common shares concerned has been reduced by an equal amount by way of an amendment to our articles of association

If we receive a profit distribution from a qualifying foreign entity, or a repatriation of qualifying foreign branch profit, that is exempt from Dutch corporation tax and that has been subject to a foreign withholding tax of at least 5%, we may be entitled to retain a portion of the Dutch dividend withholding tax imposed in respect of a dividend distributed by us, that ordinarily would be required to be remitted to the Dutch tax authorities. Such portion is the lesser of:

- 3% of the dividends paid by us in respect of which Dutch dividend withholding tax is withheld; and
- 3% of the qualifying profit distributions grossed up by the foreign tax withheld on such distributions received from foreign subsidiaries and branches prior to the distribution of the dividend by us during the current calendar year and the two preceding calendar years (to the extent such distributions have not been taken into account previously when applying this test).

Although this reduction reduces the amount of Dutch dividend withholding tax that we are required to remit to the Dutch tax authorities, it does not reduce the amount of tax that we are required to withhold on distributed dividends.

# Dividend stripping

Pursuant to legislation to counteract "dividend stripping", a reduction, exemption, credit or refund of Dutch dividend withholding tax is denied if the recipient of the dividend is not the beneficial owner as described in the Dutch Dividend Withholding Tax Act 1965 (Wet op de dividendbelasting 1965). This legislation generally targets situations in which a shareholder retains its economic interest in shares but reduces the withholding tax costs on dividends by a transaction with another party. It is not required for these rules to apply that the recipient of the dividends is aware that a dividend stripping transaction took place. The Dutch State Secretary for Finance takes the position that the definition of beneficial ownership introduced by this legislation will also be applied in the context of a double taxation convention.

#### Gift and inheritance taxes

#### Dutch Resident Individuals

Gift or inheritance taxes will arise in The Netherlands with respect to a transfer of common shares by way of a gift by, or on the death of, a holder of common shares who is a resident or deemed a resident of The Netherlands at the time of the gift or the holder's death.

#### Non-resident Individuals

No Dutch gift tax or Dutch inheritance tax will arise with respect to a transfer of common shares by way of gift by, or upon the death of, a holder of common shares who is neither a resident nor deemed to be a resident of The Netherlands for purposes of Dutch gift tax or Dutch inheritance tax except if, in the event of a gift whilst not being a resident nor being a deemed resident of The Netherlands for purposes of Dutch gift tax or Dutch inheritance tax, the holder of common shares becomes a resident or a deemed resident of The Netherlands and dies within 180 days after the date of the gift.

For purposes of Dutch gift tax and Dutch inheritance tax, a gift of common shares made under a condition precedent is deemed to be made at the time the condition precedent is satisfied.

### Value added tax (VAT)

No Dutch VAT will be payable by a holder of common shares in respect of any payment in consideration for the ownership or disposal of the common shares.

### Other taxes and duties

No Dutch registration tax, stamp duty or any other similar documentary tax or duty will be payable by a holder of common shares in respect of any payment in consideration for the ownership or disposal of the common shares.

### United States Federal Income Taxation

The following discussion is a general summary of the material U.S. federal income tax consequences to a U.S. holder (as defined below) of the ownership and disposition of our common shares. You are a U.S. holder only if you are a beneficial owner of common shares:

- that is, for U.S. federal income tax purposes, (a) a citizen or individual resident of the United States, (b) a U.S. domestic corporation or a U.S. domestic entity taxable as a corporation, (c) an estate, the income of which is subject to U.S. federal income taxation regardless of its source, or (d) a trust, if a court within the United States can exercise primary supervision over the administration of the trust and one or more U.S. persons are authorized to control all substantial decisions of the trust;
- that owns, directly, indirectly or by attribution, less than 10% of our voting power or outstanding share capital;
- that holds the common shares as capital assets;
- whose functional currency for U.S. federal income tax purposes is the U.S. dollar;
- that is a resident of the United States and not also a resident of The Netherlands for purposes of the United States The Netherlands Income Treaty (the "U.S./NL Income Tax Treaty"):
- that is entitled, under the "limitation on benefits" provisions contained in the U.S./NL Income Tax Treaty, to the benefits of the U.S./NL Income Tax Treaty; and
- that does not have a permanent establishment or fixed base in The Netherlands.

This summary does not discuss all of the tax consequences that may be relevant to you in light of your particular circumstances. Also, it does not address holders that may be subject to special rules including, but not limited to, U.S. expatriates, tax-exempt organizations, persons subject to the alternative minimum tax, banks, securities broker-dealers, financial institutions, regulated investment companies, insurance companies, traders in securities who elect to apply a mark-to-market method of accounting, persons holding our common shares as part of a straddle, hedging or conversion transaction, or persons who acquired common shares pursuant to the exercise of employee stock options or otherwise as compensation. Because this is a general summary, you are advised to consult your own tax advisor with respect to the U.S. federal, state, local and applicable foreign tax consequences of the ownership and disposition of our common shares. In addition, you are advised to consult your own tax advisor concerning whether you are entitled to benefits under the U.S./NL Income Tax Treaty.

If a partnership (including for this purpose any entity or arrangement treated as a partnership for U.S. federal income tax purposes) holds common shares, the tax treatment of a partner generally will depend upon the status of the partner and the activities of the partnership. If you are a partner in a partnership that holds common shares, you are urged to consult your own tax advisor regarding the specific tax consequences of the ownership and the disposition of common shares.

This summary is based on the Internal Revenue Code of 1986, as amended, the U.S./NL Income Tax Treaty, judicial decisions, administrative pronouncements and existing, temporary and proposed Treasury regulations as of the date of this Form 20-F, all of which are subject to change or changes in interpretation, possibly with retroactive effect.

### Dividends

In general, you must include the gross amount of distributions paid (including the amount of any Dutch taxes withheld from those distributions) to you by us with respect to the common shares in your gross income as foreign-source taxable dividend income. The amount of any distribution paid in foreign currency (including the amount of any Dutch withholding tax thereon) will be equal to the U.S. dollar value of the foreign currency on the date of actual or constructive receipt by you regardless of whether the payment is in fact converted into U.S. dollars at that time. Gain or loss, if any, realized on a subsequent sale or other disposition of such foreign

currency generally will be U.S.-source ordinary income or loss. Special rules govern and specific elections are available to accrual method taxpayers to determine the U.S. dollar amount includible in income in the case of taxes withheld in a foreign currency. Accrual basis taxpayers are urged to consult their own tax advisors regarding the requirements and elections applicable in this regard.

Subject to applicable limitations, Dutch taxes withheld from a distribution paid to you at a rate not exceeding the rate provided in the U.S./NL Income Tax Treaty will be eligible for credit against your U.S. federal income tax liability. As described in "— Taxation — Dutch Taxation" above, under limited circumstances we may be entitled to retain a portion of the Dutch withholding tax that otherwise would be required to be remitted to the taxing authorities in The Netherlands. If we withhold an amount from dividends paid to you that we then are not required to remit to any taxing authority in The Netherlands, the amount in all likelihood would not qualify as a creditable tax for U.S. federal income tax purposes. We will endeavor to provide you with information concerning the extent to which we have applied the reduction described above to dividends paid to you. The limitation on foreign taxes eligible for credit is calculated separately with respect to specific classes of income. For this purpose, dividends distributed by us with respect to the common shares generally will constitute "passive category income" or in the case of certain U.S. holders, "general category income". The use of foreign tax credits is subject to complex rules and limitations. In lieu of a credit, a U.S. holder who itemizes deductions may elect to deduct all of such holder's foreign taxes in the taxable year. A deduction does not reduce tax on a dollar-for-dollar basis like a credit, but the deduction for foreign taxes is not subject to the same limitations applicable to foreign tax credits. You should consult your own tax advisor to determine whether and to what extent a credit would be available to you.

Certain non-corporate U.S. holders (including individuals) are eligible for reduced rates of U.S. federal income tax in respect of "qualified dividend income". For this purpose, "qualified dividend income" generally includes dividends paid by a non-U.S. corporation if, among other things, the U.S. holders meet certain minimum holding period and other requirements and the non-U.S. corporation satisfies certain requirements, including either that (i) the shares of the non-U.S. corporation are readily tradable on an established securities market in the United States, or (ii) the non-U.S. corporation is eligible for the benefits of a comprehensive income tax treaty with the United States (such as the U.S./NL Income Tax Treaty) which provides for the exchange of information. We currently believe that dividends paid by us with respect to our common shares should constitute "qualified dividend income" for U.S. federal income tax purposes; however, this is a factual matter and subject to change. You are urged to consult your own tax advisor regarding the availability to you of a reduced dividend tax rate in light of your own particular situation. A dividends-received deduction will not be allowed with respect to dividends paid by us to corporate U.S. holders.

### Sale, Exchange or Other Disposition of Common Shares

Upon a sale, exchange or other disposition of common shares, you generally will recognize capital gain or loss in an amount equal to the difference between the amount realized and your tax basis in the common shares, as determined in U.S. dollars. This gain or loss generally will be U.S.-source gain or loss, and will be treated as long-term capital gain or loss if you have held the common shares for more than one year. If you are an individual, capital gains generally will be subject to U.S. federal income tax at preferential rates if specified minimum holding periods are met. The deductibility of capital losses is subject to significant limitations.

### Net Investment Income Tax

Certain U.S. holders that are individuals, estates or trusts and whose income exceeds certain thresholds generally will be subject to a 3.8% tax on "net investment income", including, among other things, dividends on, and gains from the sale or other taxable disposition of, our common shares, subject to certain limitations and exceptions. You should consult your own tax advisor regarding the effect, if any, of such tax on your ownership and disposition of our common shares.

# Passive Foreign Investment Company Status

We believe that we should not be classified as a passive foreign investment company (a "PFIC") for U.S. federal income tax purposes for the year ended December 31, 2020 and we do not expect to become a PFIC in the foreseeable future. This conclusion is a factual determination that must be made annually at the close of each taxable year and therefore we can provide no assurance that we will not be a PFIC in our current or any future taxable year. If we were to be characterized as a PFIC for any taxable year, the tax on certain distributions on our common shares and on any gains realized upon the disposition of common shares may be

materially less favorable than as described herein. In addition, if we were a PFIC in a taxable year in which we were to pay dividends or the prior taxable year, such dividends would not be "qualified dividend income" (as described above) and would be taxed at the higher rates applicable to other items of ordinary income. You should consult your own tax advisor regarding the application of the PFIC rules to your ownership of our common shares.

# U.S. Information Reporting and Backup Withholding

Dividend payments with respect to common shares and proceeds from the sale, exchange, retirement or other disposition of our common shares may be subject to information reporting to the U.S. Internal Revenue Service (the "IRS") and possible U.S. backup withholding. Backup withholding will not apply to you, however, if you furnish a correct taxpayer identification number and make any other required certification, or if you are otherwise exempt from backup withholding. U.S. persons required to establish their exempt status generally must provide certification on IRS Form W-9. Backup withholding is not an additional tax. Amounts withheld as backup withholding may be credited against your U.S. federal income tax liability, and you may obtain a refund of any excess amounts withheld under the backup withholding rules by timely filing the appropriate claim for refund with the IRS and furnishing any required information.

In addition, U.S. holders should be aware of annual reporting requirements with respect to the holding of certain foreign financial assets, including our common shares that are not held in an account maintained by certain types of financial institutions, if the aggregate value of all of such assets exceeds \$50,000 (or \$100,000 for married couples filing a joint return). You should consult your own tax advisor regarding the application of the information reporting and backup withholding rules to our common shares and the application of the annual reporting requirements to your particular situation.

# F. Dividends and Paying Agents

Not applicable.

# G. Statement by Experts

Not applicable.

### H. Documents on Display

Any statement in this Form 20-F about any of our contracts or other documents is not necessarily complete. If the contract or document is filed as an exhibit to this Form 20-F the contract or document is deemed to modify the description contained in this Form 20-F. You must review the exhibits themselves for a complete description of the contract or document.

Our Articles of Association, the minutes of our AGM, reports of the auditors and other corporate documentation may be consulted by the shareholders and any other individual authorized to attend the meetings at our head office at Schiphol Airport Amsterdam, The Netherlands, at the registered offices of the Managing Board in Geneva, Switzerland and at Crédit Agricole-Indosuez, 9, Quai du Président Paul-Doumer, 92400 Courbevoie, France.

You may review a copy of our filings with the U.S. Securities and Exchange Commission (the "SEC"), including exhibits and schedules filed with it, at the SEC's public reference facilities in Room 1024, Judiciary Plaza, 450 Fifth Street, N.W., Washington, D.C. 20549. Please call the SEC at 1-800-SEC-0330 for further information. In addition, the SEC maintains an internet site (www.sec.gov) that contains reports and other information regarding issuers that file electronically with the SEC. These SEC filings are also available to the public from commercial document retrieval services.

WE ARE REQUIRED TO FILE REPORTS AND OTHER INFORMATION WITH THE SEC UNDER THE SECURITIES EXCHANGE ACT OF 1934. REPORTS AND OTHER INFORMATION FILED BY U.S. WITH THE SEC MAY BE INSPECTED AND COPIED AT THE SEC'S PUBLIC REFERENCE FACILITIES DESCRIBED ABOVE OR THROUGH THE INTERNET (WWW.SEC.GOV). AS A FOREIGN PRIVATE ISSUER, WE ARE EXEMPT FROM THE RULES UNDER THE EXCHANGE ACT PRESCRIBING THE FURNISHING AND CONTENT OF PROXY STATEMENTS AND OUR OFFICERS, DIRECTORS AND MAJOR SHAREHOLDERS ARE EXEMPT FROM THE REPORTING AND SHORT-SWING PROFIT

RECOVERY PROVISIONS CONTAINED IN SECTION 16 OF THE EXCHANGE ACT. UNDER THE EXCHANGE ACT, AS A FOREIGN PRIVATE ISSUER, WE ARE NOT REQUIRED TO PUBLISH FINANCIAL STATEMENTS AS FREQUENTLY OR AS PROMPTLY AS UNITED STATES COMPANIES.

# I. Subsidiary Information

Not applicable.

## Item 11. Quantitative and Qualitative Disclosures About Market Risk

We are exposed to changes in financial market conditions in the normal course of business due to our operations in different foreign currencies and our ongoing investing and financing activities. Market risk is the uncertainty to which future earnings or asset/liability values are exposed due to operating cash flows denominated in foreign currencies and various financial instruments used in the normal course of operations. The major financial risks to which we are exposed are the foreign exchange risks related to the fluctuations of the U.S. dollar exchange rate compared to the Euro and the other major currencies in which costs are incurred, the variation of the interest rates and the risks associated to the investments of our available cash. We have established policies, procedures and internal processes governing our management of market risks and the use of financial instruments to manage our exposure to such risks.

Our interest income (expense), net, as reported in our Consolidated Statements of Income, is the balance between interest income received from our cash and cash equivalents, short-term deposits and marketable securities and interest expense on our financial liabilities and bank fees (including fees on committed credit lines). Our interest income is dependent upon fluctuations in interest rates, mainly in U.S. dollars and Euros, since we invest primarily on a short-term basis; any increase or decrease in the market interest rates would mean an equivalent increase or decrease in our interest income. See "Item 5. Operating and Financial Review and Prospects — Impact of Changes in Interest Rates".

We place our cash and cash equivalents, or a part of it, with financial institutions with at least a single "A" long-term rating from two of the major rating agencies, meaning at least A3 from Moody's and A- from S&P or Fitch, or better, invested as term deposits and Government securities and, as such, we are exposed to the fluctuations of the market interest rates on our placement and our cash, which can have an impact on our accounts. We manage the credit risks associated with financial instruments through credit approvals, investment limits and centralized monitoring procedures but do not normally require collateral or other security from the parties to the financial instruments. As at December 31, 2020, the marketable securities have a value of \$133 million. They are classified as available-for-sale and are reported at fair value. This fair value measurement corresponds to a Level 1 fair value hierarchy measurement. The estimated value of these securities could further decrease in the future as a result of credit market deterioration and/or other downgrading.

We do not anticipate any material adverse effect on our financial position, results of operations or cash flows resulting from the use of our instruments in the future. There can be no assurance that these strategies will be effective or that transaction losses can be minimized or forecasted accurately.

The information below summarizes our market risks associated with cash and cash equivalents, short-term deposits, marketable securities and debt obligations as at December 31, 2020. The information below should be read in conjunction with Note 28 to our Consolidated Financial Statements.

The table below presents principal amounts and related weighted-average interest rates by year of maturity for our investment portfolio and debt obligations (in millions of U.S. dollars, except percentages):

	_	Tota	al	 2021	2	022	 2023	2	024	 2025	Th	ereafter	Fair Value at cember 31, 2020
Assets:													
Cash and cash equivalents	\$	3	3,006										\$ 3,006
of which Cash at bank and on hand	\$		369										\$ 369
of which Deposits at call with banks	\$	2	2,637										\$ 2,637
Short-term deposits	\$		581										\$ 581
Current marketable securities	\$		133										\$ 133
Average yield to maturity			0.11%										
Long-term debt(1):	\$	- 2	2,834	\$ 121	\$	62	\$ 62	\$	812	\$ 812	\$	965	\$ 3,777
Average interest rate(2)			1.71%										

- (1) (2)
- Long-term debt is presented at redemption values The average rate of the cash interests on our total debt at redemption value is 0.11%.

	Amounts in millions of U.S. dollars
Long-term debt by currency as at December 31, 2020:	
U.S. dollar	2,310
Euro	524
Total in U.S. dollars	2,834
	Amounts in millions of U.S. dollars
Long-term debt by currency as at December 31, 2019:	
U.S. dollar	1,659
Euro	559
Total in U.S. dollars	2.218

The following table provides information about our FX forward contracts and FX currency options not designated as a hedge at December 31, 2020 (in millions of U.S. dollars):

## FORWARD CONTRACTS AND CURRENCY OPTIONS AT DECEMBER 31, 2020

				Notional		
				Amount	Average Rate	Fair Value
Buy	AUD	Sell	USD	1	0.74	
Buy	EUR	Sell	USD	6	1.22	_
Buy	USD	Sell	JPY	1	104.17	_
Buy	USD	Sell	MYR	1	4.06	_
Buy	USD	Sell	SGD	3	1.33	_
Buy	USD	Sell	CNY	2	6.86	_
Buy	USD	Sell	PHP	1	48.27	_
Buy	EUR	Sell	MAD	40	10.91	_
Buy	CHF	Sell	USD	45	0.88	_
Buy	USD	Sell	EUR	379	1.22	(2)
Buy	HKD	Sell	USD	1	7.75	_
Buy	JPY	Sell	EUR	24	126.58	_
Buy	JPY	Sell	USD	11	103.08	_
Buy	MYR	Sell	USD	27	4.04	_
Buy	SEK	Sell	USD	92	8.40	3
Buy	SGD	Sell	USD	124	1.36	4
Buy	TWD	Sell	USD	11	28.43	_
Buy	CNY	Sell	USD	67	6.71	2
Buy	PHP	Sell	USD	17	48.23	_
Buy	INR	Sell	USD	26	74.63	
Buy	KRW	Sell	USD	17	1,128.26	1
Buy	CNH	Sell	USD	1	6.51	_

The following table provides information about our FX forward contracts and FX currency options not designated as a hedge at December 31, 2019 (in millions of U.S. dollars):

## FORWARD CONTRACTS AND CURRENCY OPTIONS AT DECEMBER 31, 2019

				Notional		
Buy	AUD	Sell	USD	Amount	Average Rate 0.70	Fair Value
-	EUR	Sell	USD	4	1.12	_
Buy						
Buy	GBP	Sell	USD	3	1.32	_
Buy	EUR	Sell	JPY	9	121.92	_
Buy	USD	Sell	JPY	1	109.89	_
Buy	USD	Sell	MYR	1	4.14	
Buy	USD	Sell	CNY	2	7.10	_
Buy	USD	Sell	INR	2	71.64	_
Buy	CHF	Sell	USD	39	0.97	_
Buy	USD	Sell	EUR	179	1.12	_
Buy	HKD	Sell	USD	2	7.79	_
Buy	JPY	Sell	EUR	34	121.96	_
Buy	JPY	Sell	USD	12	108.90	_
Buy	MYR	Sell	USD	25	4.13	_
Buy	SEK	Sell	USD	2	9.62	_
Buy	SGD	Sell	USD	113	1.36	1
Buy	TWD	Sell	USD	9	30.35	_
Buy	CNY	Sell	USD	52	7.04	1
Buy	PHP	Sell	USD	13	50.94	_
Buy	MAD	Sell	EUR	4	10.73	_
Buy	INR	Sell	USD	47	7.81	_
Buy	KRW	Sell	USD	22	1,177.42	_
Buy	CNH	Sell	USD	_	6.98	_

Our FX forward contracts and FX currency options, including collars, designated as a hedge, are further described in Note 28 to our Consolidated Financial Statements.

## Item 12. Description of Securities Other than Equity Securities

We sell ordinary shares in the United States that are evidenced by American registered certificates ("New York Shares"). In connection therewith, a holder of our New York Shares may have to pay, either directly or indirectly, certain fees and charges, as described in Item 12D.3. In addition, we receive fees and other direct and indirect payments from our New York Agent that are related to our New York Shares, as described in Item 12D.4.

Fees and Charges that a holder of our New York Shares May Have to Pay

J.P. Morgan collects fees for the delivery and surrender of New York Shares directly from investors depositing or surrendering New York Shares for the purpose of withdrawal or from intermediaries acting for them.

Persons depositing or withdrawing our New York Shares must pay to J.P. Morgan:

- Up to \$5.00 per 100 New York Shares (or portion of 100 New York Shares) for the issuance of New York Shares, including issuances resulting from a distribution of shares or rights or other property, and cancellation of New York Shares for the purpose of withdrawal, including if the New York Share agreement terminates;
- Taxes (including applicable interest and penalties) and other governmental charges;
- Registration fees as may from time to time be in effect for the registration of New York Shares;
- Cable, telex, facsimile and electronic transmission and delivery expenses;

- · Expenses and charges incurred by J.P. Morgan in the conversion of foreign currency or the sale of any securities or property; and
- Any charges incurred by J.P. Morgan in connection with compliance with exchange control regulations and other regulatory requirements applicable to New York Shares.

 $Fees \ and \ Other \ Payments \ Made \ by \ the \ New \ York \ Agent \ to \ Us$ 

In 2019, J.P. Morgan paid a total of \$1.7 million to us under our New York Share program, \$850,000 of which was related to compensation for services to be rendered in 2020. Specifically, the following types of fees were paid: our NYSE annual listing fees; investor relations fees paid to third party vendors; J.P. Morgan custodian fees, standard out-of-pocket maintenance costs paid to vendors for the New York Shares (primarily consisting of expenses related to our AGM, such as those for the production and distribution of proxy materials, customization of voting cards and tabulation of shareholder votes) and other expenses related to Sarbanes-Oxley compliance.

#### PART II

Item 13. Defaults, Dividend Arrearages and Delinquencies

None

Item 14. Material Modifications to the Rights of Security Holders and Use of Proceeds

None

Item 15. Controls and Procedures

## **Disclosure Controls and Procedures**

Evaluation

Our management, including the CEO and CFO, performed an evaluation of the effectiveness of the design and operation of our disclosure controls and procedures as defined in Rules 13a-15(e) and 15d-15(e) under the Securities and Exchange Act of 1934 ("Disclosure Controls") as of the end of the period covered by this Form 20-F. Disclosure Controls are controls and procedures designed to reasonably assure that information required to be disclosed in our reports filed under the Securities and Exchange Act of 1934, such as this Form 20-F, is recorded, processed, summarized and reported within the time periods specified in the SEC's rules and forms. Disclosure Controls are also designed to reasonably assure that such information is accumulated and communicated to our management, including the CEO and CFO, as appropriate to allow timely decisions regarding required disclosure.

The evaluation of our Disclosure Controls included a review of the controls' objectives and design, our implementation of the controls and their effect on the information generated for use in this Form 20-F. The components of our Disclosure Controls are also evaluated on an ongoing basis by our Corporate Audit Department, which reports directly to our Audit Committee. The overall goals of these various evaluation activities are to monitor our Disclosure Controls, and to modify them as necessary. Our intent is to maintain the Disclosure Controls as dynamic systems that change as conditions warrant.

Based on their evaluation, our CEO and CFO have concluded that, as of the end of the period covered by this Form 20-F, our Disclosure Controls were effective.

## Changes in Internal Control over Financial Reporting

There were no changes to our internal control over financial reporting (as defined in Rule 13a-15(f) and 15d-15(f) under the Securities and Exchange Act of 1934) that occurred during the period covered by this form 20-F that have materially affected, or are reasonably likely to materially affect, our internal control over financial reporting.

### Limitations on Effectiveness of Controls

No system of internal control over financial reporting, including one determined to be effective, may prevent or detect all misstatements. It can provide only reasonable assurance regarding financial statement preparation and presentation. Also, projections of the results of any evaluation of the effectiveness of internal control over financial reporting into future periods are subject to inherent risk. The relevant controls may become inadequate due to changes in circumstances or the degree of compliance with the underlying policies or procedures may deteriorate.

#### Other Reviews

We have sent this Form 20-F to our Audit Committee and Supervisory Board, which had an opportunity to raise questions with our management and independent auditors before we filed it with the SEC.

## Management's Report on Internal Control over Financial Reporting

Our management is responsible for establishing and maintaining adequate internal control over financial reporting to provide reasonable assurance regarding the reliability of our financial reporting and the preparation of financial statements for external purposes in accordance with U.S. generally accepted accounting principles.

Internal control over financial reporting includes those policies and procedures that (i) pertain to the maintenance of records that in reasonable detail accurately and fairly reflect the transactions and dispositions of the assets of the company; (ii) provide reasonable assurance that transactions are recorded as necessary to permit preparation of financial statements in accordance with U.S. generally accepted accounting principles, and that receipts and expenditures of the company are being made only in accordance with authorizations of management and directors of the company; and (iii) provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use or disposition of the company's assets that could have a material effect on the financial statements. Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate. See Item 3. "Key Information — Risk Factors".

Management assessed the effectiveness of our internal control over financial reporting as of December 31, 2020, the end of our fiscal year. Management based its assessment on criteria established in Internal Control — Integrated Framework issued by the Committee of Sponsoring Organizations of the Treadway Commission ("COSO") in Internal Control-Integrated Framework (2013). Management's assessment included evaluation of such elements as the design and operating effectiveness of key financial reporting controls, process documentation, accounting policies and our overall control environment. The management assessment provided sufficient insight into any weaknesses in the effectiveness of the internal risk management and control systems which ensure that the financial reporting does not contain any material inaccuracies and identified the material risks and uncertainties that were relevant for the expectation of the company's continuity for the period of twelve months following the assessment. Based on this assessment the management concluded that, as of December 31, 2020 our internal control over financial reporting was effective and the financial reporting is prepared on a going concern basis.

The effectiveness of the Company's internal control over financial reporting as of December 31, 2020 has been audited by Ernst & Young AG, an independent registered public accounting firm, as stated in their report.

## Report of Independent Registered Public Accounting Firm

To the Supervisory Board and Stockholders of STMicroelectronics N.V.

## Opinion on Internal Control over Financial Reporting

We have audited STMicroelectronics N.V.'s internal control over financial reporting as of December 31, 2020, based on criteria established in Internal Control—Integrated Framework issued by the Committee of Sponsoring Organizations of the Treadway Commission (2013 framework) (the COSO criteria). In our opinion, STMicroelectronics N.V. (the Company) maintained, in all material respects, effective internal control over financial reporting as of December 31, 2020, based on the COSO criteria.

We also have audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States) (PCAOB), the consolidated balance sheets of STMicroelectronics N.V. as of December 31, 2020 and 2019, the related consolidated statements of income, comprehensive income, equity and cash flows for each of the three years in the period ended December 31, 2020, and the related notes and financial statements schedule on page S-1, and our report dated February 24, 2021 expressed an unqualified opinion thereon.

## **Basis for Opinion**

The Company's management is responsible for maintaining effective internal control over financial reporting and for its assessment of the effectiveness of internal control over financial reporting included in the accompanying Management's Report on Internal Control over Financial Reporting. Our responsibility is to express an opinion on the Company's internal control over financial reporting based on our audit. We are a public accounting firm registered with the PCAOB and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audit in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether effective internal control over financial reporting was maintained in all material respects.

Our audit included obtaining an understanding of internal control over financial reporting, assessing the risk that a material weakness exists, testing and evaluating the design and operating effectiveness of internal control based on the assessed risk, and performing such other procedures as we considered necessary in the circumstances. We believe that our audit provides a reasonable basis for our opinion.

## Definition and Limitations of Internal Control Over Financial Reporting

A company's internal control over financial reporting is a process designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles. A company's internal control over financial reporting includes those policies and procedures that (1) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of the assets of the company; (2) provide reasonable assurance that transactions are recorded as necessary to permit preparation of financial statements in accordance with generally accepted accounting principles, and that receipts and expenditures of the company are being made only in accordance with authorizations of management and directors of the company; and (3) provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use, or disposition of the company's assets that could have a material effect on the financial statements.

Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

/s/ Ernst & Young AG

Lancy - Geneva, Switzerland February 24, 2021

Item 16.

## Item 16A. Audit Committee Financial Expert

Our Supervisory Board has concluded that Ana de Pro Gonzalo, the Chair of our Audit Committee, qualifies as an "audit committee financial expert" as defined in Item 16A and is independent as defined in the listing standards applicable to us as a listed issuer as required by Item 16A(2) of Form 20-F.

#### Item 16B. Code of Ethics

We have adopted written standards of business conduct and ethics ("Code of Conduct") designed to promote honest and ethical business conduct, to deter wrongdoing and to provide principles to which our employees are expected to adhere and advocate. Our Code of Conduct is applicable to all of our employees and senior managers. We believe our Code of Conduct is effective in its mission and we believe our employees are in compliance with the Code of Conduct. We have adapted and will amend our Code of Conduct as appropriate to reflect regulatory or other changes. Our Code of Conduct provides that if any employee or senior manager to whom it applies acts in contravention of the principles set forth therein, we will take appropriate steps in terms of the procedures in place for fair disciplinary action. This action may, in cases of severe breaches, include dismissal. Our Code of Conduct is available on our website in the Corporate Governance section, at http://investors.st.com.

## Item 16C. Principal Accountant Fees and Services

Our independent external auditors are elected at the AGM. At our AGM held in May 2015, Ernst & Young was first appointed as our independent external auditor for the 2016-2019 fiscal years. At our AGM held on June 17, 2020, our shareholders re-appointed Ernst & Young as our independent external auditor for the 2020-2023 fiscal years. The following table presents the aggregate fees for professional audit services and other services rendered to us by Ernst & Young in 2020 and 2019.

	2020	Percentage of Total Fees	2019	Percentage of Total Fees
Audit Fees				
Audits of consolidated and statutory financial statements	4,980,123	96.8%	4,105,000	95.2%
Audit-Related Fees	164,578	3.2%	209,005	4.8%
Non-audit Fees				
Tax Fees	_	_	_	_
All Other Fees	_	_	_	_
Total	5,144,701	100.0 %	4,314,005	100.0 %

Audit Fees consist of fees billed for the annual audit of our Company's Consolidated Financial Statements, the statutory audit of the financial statements of the Company's subsidiaries and consultations on complex accounting issues relating to the annual audit. Audit Fees also include services that only our independent external auditor can reasonably provide, such as comfort letters and carve-out audits in connection with strategic transactions.

Audit-related services are assurance and related fees consisting of the audit of employee benefit plans, due diligence services related to acquisitions and certain agreed-upon procedures.

Tax Fees include fees billed for tax compliance services, including the preparation of original and amended tax returns and claims for refund; tax consultations, such as assistance in connection with tax audits and expatriate tax compliance.

### Audit Committee Pre-approval Policies and Procedures

Our Audit Committee is responsible for selecting the independent registered public accounting firm to be employed by us to audit our financial statements, subject to ratification by the Supervisory Board and approval by our shareholders for appointment. Our Audit Committee also assumes responsibility (in accordance with Dutch law) for the retention, compensation, oversight and termination of any independent external auditor employed by us. We adopted a policy (the "Policy"), which was approved in advance by our Audit Committee, for the pre-approval of audit and permissible non-audit services provided by our independent external auditors. The Policy defines those audit-related services eligible to be approved by our Audit Committee.

All engagements with our independent external auditors, regardless of amount, must be authorized in advance by our Audit Committee, pursuant to the Policy and its pre-approval authorization or otherwise

The independent external auditors submit a proposal for audit-related services to our Audit Committee on a quarterly basis in order to obtain prior authorization for the amount and scope of the services. The independent external auditors must state in the proposal that none of the proposed services affect their independence. The proposal must be endorsed by the office of our CFO with an explanation of why the service is needed and the reason for sourcing it to the audit firm and validation of the amount of fees requested.

We do not intend to retain our independent external auditors for permissible non-audit services other than by exception and within a limited amount of fees, and the Policy provides that such services must be explicitly authorized by our Audit Committee.

The Chief Audit and Risk Executive is responsible for monitoring that the actual fees are complying with the pre-approval amount and scope authorized by our Audit Committee. During 2020, all services provided to us by Ernst & Young were approved by our Audit Committee pursuant to paragraph (c)(7)(i) of Rule 2-01 of Regulation S-X.

## Item 16D. Exemptions from the Listing Standards for Audit Committees

Not applicable.

## Item 16E. Purchases of Equity Securities by the Issuer and Affiliated Purchasers

On November 5, 2018 we announced the launch of a share buy-back program of up to \$750 million or 47,000,000 shares at their November 5, 2018 share price, to be executed within a three-year period. Shares repurchased under the buy-back program are disclosed on a weekly basis and are held as treasury shares and will be used to meet our obligations in relation to our employee stock award plans.

On July 28, 2020, we announced that we will utilize a certain number of shares repurchased under the buy-back program for delivery of shares in connection with the early redemption of our outstanding \$750 million Tranche A of our 2017 Senior Unsecured Convertible Bonds.

As at December 31, 2020, we held 5.8 million treasury shares.

Period	Total Number of Securities Purchased	Average Price Paid per Security €	Total Number of Securities Purchased as Part of Publicly Announced Programs	Maximum Number of Securities that may be Purchased Under the Programs
2020-01-01 to 2020-01-31	1,559,961	25.56	19,818,099	47,000,000
2020-02-01 to 2020-02-29	625,457	25.56	20,443,556	47,000,000
2020-03-01 to 2020-03-31	393,548	19.44	20,837,104	47,000,000
2020-04-01 to 2020-04-30	1,951,937	20.23	22,789,041	47,000,000
2020-05-01 to 2020-05-31	-	-	22,789,041	47,000,000
2020-06-01 to 2020-06-30	221,082	23.29	23,010,123	47,000,000
2020-07-01 to 2020-07-31	_	-	23,010,123	47,000,000
2020-08-01 to 2020-08-31	_	_	23,010,123	47,000,000
2020-09-01 to 2020-09-30	_	-	23,010,123	47,000,000
2020-10-01 to 2020-10-31	_	_	23,010,123	47,000,000
2020-11-01 to 2020-11-30	-	-	23,010,123	47,000,000
2020-12-01 to 2020-12-31	_	_	23,010,123	47,000,000

As at December 31, 2020, we held 5,824,418 of our common shares in treasury pursuant to repurchases made in prior years, and as of January 31, 2021 we held 7,082,530 of such shares.

## Item 16F. Change in Registrant's Certifying Accountant.

Not applicable.

## Item 16G. Corporate Governance

As we have common shares listed on the NYSE, pursuant to SEC and NYSE rules, in this Item 16G we provide a concise summary of any significant ways in which our corporate governance practices differ from those followed by U.S. companies under NYSE listing standards.

As a Dutch company, we are subject to the Dutch Corporate Governance Code. We have summarized our policies and practices in the field of corporate governance in our Corporate Governance Charter, including our corporate organization, the remuneration principles which apply to our Managing and Supervisory Boards, our information policy and our corporate policies relating to business ethics and conflicts of interests. We are committed to informing our shareholders of any significant changes in our corporate governance policies and practices at our AGM. Along with our Supervisory Board Charter (which we last updated in October 2019 and which also includes the charters of our Supervisory Board Committees) and our Code of Conduct, the current version of our Corporate Governance Charter is posted on our website (www.st.com), and these documents are available in print to any shareholder who may request them.

NYSE

Below is a description of the significant ways our corporate governance practices as a Dutch company differ from those followed by U.S. companies listed on the NYSE:

- Because we are a Dutch company, the Audit Committee is an advisory committee to the Supervisory Board, which reports to the Supervisory Board, and our General Meeting of Shareholders appoints our statutory auditors. Our Audit Committee has established a charter outlining its duties and responsibilities with respect to, among others, the monitoring of our accounting, auditing, financial reporting and the appointment, retention and oversight of our external auditors. In addition, our Audit Committee has established procedures for the receipt, retention and treatment of complaints regarding accounting, internal accounting controls or auditing matters, and the confidential anonymous submission by our employees regarding questionable accounting or auditing matters.
- Pursuant to our Supervisory Board Charter, the Supervisory Board is responsible for handling and deciding on potential reported conflicts of interests between the Company and members of the Supervisory Board, as well as the Managing Board. See "Item 7. Major Shareholders and Related Party Transactions".
- Our Supervisory Board is carefully selected based upon the combined experience and expertise of its members. In fulfilling their duties under Dutch law, Supervisory Board members serve the best interests of all of our stakeholders and of our business and must act independently in their supervision of our management. Our Supervisory Board has adopted criteria to assess the independence of its members in accordance with corporate governance listing standards of the NYSE. Our Supervisory Board has on various occasions discussed Dutch corporate governance standards, the implementing rules and corporate governance standards of the NYSE, as well as other corporate governance standards. The Supervisory Board has determined, based on the evaluations by an ad hoc committee, the following independence criteria for its members: Supervisory Board members must not have any material relationship with STMicroelectronics N.V., or any of our consolidated subsidiaries, or our management. A "material relationship" can include commercial, industrial, banking, consulting, legal, accounting, charitable and familial relationships, among others, but does not include a relationship with direct or indirect shareholders.

We believe we are fully compliant with all material NYSE corporate governance standards, to the extent possible for a Dutch company listed on Euronext Paris, Borsa Italiana, as well as the

Our consistent commitment to good corporate governance principles is evidenced by:

- Our corporate organization under Dutch law that entrusts our management to a Managing Board acting under the supervision and control of a Supervisory Board totally independent from the Managing Board. Members of our Managing Board and of our Supervisory Board are appointed and dismissed by our shareholders;
- Our early adoption of policies on important issues such as business ethics and conflicts of interest and strict policies to comply with applicable regulatory requirements concerning financial reporting, insider trading and public disclosures;
- Our compliance with Dutch securities laws, because we are a company incorporated under the laws of The Netherlands, as well as our compliance with American, French and Italian securities laws, as applicable, because our shares are listed in these jurisdictions, in addition to our compliance with the corporate, social and financial laws applicable to our subsidiaries in the countries in which we do business;
- Our broad-based activities in the field of corporate social responsibility, encompassing environmental, social, health, safety, educational and other related issues including our corporate
  governance statement which evidences our policy objectives with respect to diversity as well as the results of implementing our diversity policy for the year ended December 31, 2020;

- Our implementation of a non-compliance reporting channel (managed by an independent third party). We encourage everyone, including external business partners, to express, in good faith, any concerns they might have regarding possible violations of our Code of Conduct, the Company's policies, or the law through, amongst other things, our Code of Conduct, dedicated intranet web pages and our ST Integrity App. Our misconduct reporting process is communicated to all employees and includes, in addition to internal local and corporate reporting channels, an independent multilingual misconduct reporting hotline;
- Our Corporate Ethics Committee and Local Ethics Committees, whose mandate is to provide support to our management in its efforts to foster a business ethics culture consistent across regions, functions and organizations;
- Our Chief Compliance Officer, who reports to our CEO, also acts as Executive Secretary to our Supervisory Board; and
- Our Chief Audit and Risk Executive, who reports directly to our Audit Committee for Internal Audit and directly to the CEO for Enterprise Risk Management and Resilience (business continuity and crisis management) is also responsible for our whistle-blowing hotline and related investigations.

No member of the Supervisory Board or Managing Board has been (i) subject to any convictions in relation to fraudulent offenses during the five years preceding the date of this Form 20-F, (ii) no member has been associated with any company in bankruptcy, receivership or liquidation in the capacity of member of the administrative, management or supervisory body, partner with unlimited liability, founder or senior manager in the five years preceding the date of this Form 20-F or (iii) subject to any official public incrimination and/or sanction by statutory or regulatory authorities (including professional bodies) or disqualified by a court from acting as a member of the affairs of any issuer during the five years preceding the date of this Form 20-F.

## PART III

#### **Financial Statements** Item 17.

Not applicable.

#### Item 18. **Financial Statements**

	ruge
Financial Statements:	
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Consolidated Statements of Comprehensive Income for the Years Ended December 31, 2020, 2019 and 2018	F-4
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For each of the three years in the period ended December 31, 2020, 2019 and 2018 Schedule II Valuation and Qualifying Accounts	S-1

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#### Item 19. **Exhibits**

- 2.3 Description of Securities Registered under Section 12 of the Securities Exchange Act of 1934 (the "Exchange Act")
- 8.1 Subsidiaries and Equity-method Investments of the Company.
- 12.1 Certification of Jean-Marc Chery, President and Chief Executive Officer and Sole Member of the Managing Board of STMicroelectronics N.V., pursuant to Section 302 of the Sarbanes-Oxley, Act of 2002.

  12.2 Certification of Lorenzo Grandi, President, Finance, Infrastructure and Services and Chief Financial Officer of STMicroelectronics N.V., pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.
- 13.1 Certification of Jean-Marc Chery, President and Chief Executive Officer and Sole Member of the Managing Board of STMicroelectronics N.V., and Lorenzo Grandi, President, Finance, Infrastructure and Services and Chief Financial Officer of STMicroelectronics N.V., pursuant to 18 U.S.C. §1350, as adopted by Section 906 of the Sarbanes-Oxley Act of 2.
- 15.1 Consent of Independent Registered Public Accounting Firm
- 101 Inline Interactive Data File
- 104 Cover Page Interactive Data File (embedded within the Inline XBRL document)

## CERTAIN TERMS

ASD application-specific discrete technology
ASIC application-specific integrated circuit
ASSP application-specific standard product
BCD bipolar, CMOS and DMOS process technology
Bi-CMOS bipolar and CMOS process technology

CMOS complementary metal-on silicon oxide semiconductor DMOS diffused metal-on silicon oxide semiconductor

DRAMs dynamic random access memory

EMAS Eco-Management and Audit Scheme, the voluntary European Community scheme for companies performing industrial activities for the evaluation and improvement of

environmental performance

EEPROM electrically erasable programmable read-only memory

EMS electronics manufacturing services

EWS electrical wafer sorting

FD-SOI fully depleted silicon-on-insulator

GaN gallium nitride GPS global positioning system

HID high-intensity discharge IC integrated circuit

IGBT insulated gate bipolar transistors

IP intellectual property

IPAD integrated passive and active devices
ISO International Organization for Standardization

LED light-emitting diode

LoRa long range low-power wide-area network modulation technique

LPWANs low-power wide-area networks
MASK WORK the two- or three-dimensional layout of an integrated circuit.

MEMS micro-electro-mechanical system
MOS metal-on silicon oxide semiconductor process technology
MOSFET metal-on silicon oxide semiconductor field effect transistor

NFC near field communication
OEM original equipment manufacturer
QFP quad-flat no-leads package
QFN quad-flat package
RAM random access memory
RF radio frequency
SAM serviceable available market

SAM serviceable available market
SiGe silicon germanium
SiC silicon carbide
SOI silicon on insulator
SOIC small-outline integrated circuit

TAM total available market VIPpower™ vertical integration power

## SIGNATURES

The registrant hereby certifies that it meets all of the requirements for filing on Form 20-F and that it has duly caused and authorized the undersigned to sign this annual report on its behalf.

STMICROELECTRONICS N.V.

Date: February 24, 2021

/s/ Jean-Marc Chery

Jean-Marc Chery

President and Chief Executive Officer and Sole Member of our Managing Board

### Report of Independent Registered Public Accounting Firm

## To the Supervisory Board and Stockholders of STMicroelectronics N.V.

### **Opinion on the Financial Statements**

We have audited the accompanying consolidated balance sheets of STMicroelectronics N.V. (the Company) as of December 31, 2020 and 2019, and the related consolidated statements of income, comprehensive income, equity and cash flows for each of the three years in the period ended December 31, 2020, and the related notes and financial statements schedule on page S-1 (collectively referred to as the "consolidated financial statements"). In our opinion, the consolidated financial statements present fairly, in all material respects, the financial position of the Company at December 31, 2020 and 2019, and the results of its operations and its cash flows for each of the three years in the period ended December 31, 2020, in conformity with U.S. generally accepted accounting principles.

We also have audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States) (PCAOB), the Company's internal control over financial reporting as of December 31, 2020, based on criteria established in Internal Control—Integrated Framework issued by the Committee of Sponsoring Organizations of the Treadway Commission (2013 framework) and our report dated February 24, 2021 expressed an unqualified opinion thereon.

## **Basis for Opinion**

These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on the Company's financial statements based on our audits. We are a public accounting firm registered with the PCAOB and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud. Our audits included performing procedures to assess the risks of material misstatement of the financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that our audits provide a reasonable basis for our opinion.

## Critical Audit Matter

The critical audit matter communicated below is a matter arising from the current period audit of the financial statements that was communicated or required to be communicated to the audit committee and that: (1) relates to accounts or disclosures that are material to the financial statements and (2) involved our especially challenging, subjective or complex judgments. The communication of the critical audit matter does not alter in any way our opinion on the consolidated financial statements, taken as a whole, and we are not, by communicating the critical audit matter below, providing a separate opinion on the critical audit matter or on the accounts or disclosures to which it relates.

Recoverability of deferred tax assets

 $Description\ of\ the\ Matter:$ 

How We Addressed the Matter

In Our Audit.

/s/ Ernst & Young AG

We have served as the Company's auditor since 2016.

Lancy - Geneva, Switzerland

February 24, 2021

At December 31, 2020 the Company reports deferred tax assets of \$739 million. As explained in note 2.7 to the consolidated financial statements, the Company performs an evaluation of the likelihood that future taxable income will be generated in an amount sufficient to utilize such deferred tax assets prior to their expiration, and, after having considered positive and negative available evidence, records a valuation allowance for any deferred tax assets not deemed recoverable.

Assessing the recoverability of deferred tax assets involves significant judgement and estimates in relation to the prospective financial information used by management in order to assess future taxable income, which are dependent on the outcome of future events.

We obtained an understanding, evaluated the design and tested the operating effectiveness of management's controls around, among others: the calculation of the gross amount of deferred tax assets recorded, the preparation of the prospective financial information used to determine the Company's future taxable income and the assessment of valuation allowance needed for deferred tax assets not deemed recoverable.

We involved tax professionals to assist with our procedures in evaluating management's assessment around the realizability of deferred tax assets by weighting available positive and negative evidence. Among other procedures, we evaluated the timing of the reversal of the temporary differences and management's prospective financial information used to determine future taxable income and its consistency with current transfer pricing policies. We compared the projections of future taxable income with the actual results of prior periods, as well as management's consideration of current and expected industry and economic trends. We also assessed the historical accuracy of management's projections.

# STMicroelectronics N.V.

## CONSOLIDATED STATEMENTS OF INCOME

	Twelve months ended						
In million of U.S. dollars except per share amounts	December 31, 2020	December 31, 2019	December 31, 2018				
Net sales	10,181	9,529	9,612				
Other revenues	38	27	52				
Net revenues	10,219	9,556	9,664				
Cost of sales	(6,430)	(5,860)	(5,803)				
Gross profit	3,789	3,696	3,861				
Selling, general and administrative	(1,109)	(1,093)	(1,095)				
Research and development	(1,548)	(1,498)	(1,398)				
Other income and expenses, net	202	103	53				
Impairment, restructuring charges and other related closure							
costs	(11)	(5)	(21)				
Operating income	1,323	1,203	1,400				
Interest income (expense), net	(20)	1	(7)				
Other components of pension benefit costs	(12)	(16)	(11)				
Income (loss) on equity-method investments	2	1	8				
Loss on financial instruments, net	(26)	<u> </u>	(1)				
Income before income taxes and noncontrolling interest	1,267	1,189	1,389				
Income tax expense	(159)	(156)	(96)				
Net income	1,108	1,033	1,293				
Net income attributable to noncontrolling interest	(2)	(1)	(6)				
Net income attributable to parent company stockholders	1,106	1,032	1,287				
Earnings per share (Basic) attributable to parent company stockholders	1.24	1.15	1.43				
Earnings per share (Diluted) attributable to parent company stockholders	1.20	1.14	1.41				

# STMicroelectronics N.V.

# CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOME

		Twelve months ended	
In million of U.S. dollars	December 31, 2020	December 31, 2019	December 31, 2018
Net income	1,108	1,033	1,293
Other comprehensive income (loss), net of tax:			
Currency translation adjustments arising during the period	203	(35)	(87)
Foreign currency translation adjustments	203	(35)	(87)
Net unrealized gains (losses) arising during the period	_	3	(2)
Net unrealized gains (losses) on securities		3	(2)
Net unrealized gains (losses) arising during the period	56	(37)	(79)
Less: reclassification adjustment for (gains) losses			
included in net income	<u> </u>	69	(1)
Net unrealized gains (losses) on derivatives	56	32	(80)
Net gains (losses) arising during the period	(12)	(35)	(11)
Less: amortization of prior service cost included in net			
periodic pension cost	1	1	1
Defined benefit pension plans	(11)	(34)	(10)
Other comprehensive income (loss), net of tax	248	(34)	(179)
Comprehensive income (loss)	1,356	999	1,114
Less: comprehensive income (loss) attributable to			
noncontrolling interest	2	1	6
Comprehensive income (loss) attributable to the company's	<u> </u>		·
stockholders	1,354	998	1,108

# STMicroelectronics N.V.

## CONSOLIDATED BALANCE SHEETS

	As at				
	December 31,	December 31,			
In million of U.S. dollars	2020	2019			
Assets					
Current assets:					
Cash and cash equivalents	3,006	2,597			
Restricted cash	_	10			
Short-term deposits	581	4			
Marketable securities	133	133			
Trade accounts receivable, net	1,465	1,380			
Inventories	1,841	1,691			
Other current assets	584	442			
Total current assets	7,610	6,257			
Goodwill	330	162			
Other intangible assets, net	445	299			
Property, plant and equipment, net	4,596	4,007			
Non-current deferred tax assets	739	695			
Long-term investments	10	11			
Other non-current assets	724	437			
Office from Current assets	6,844	5,611			
Total assets	14,454	11,868			
Liabilities and equity					
Current liabilities:					
Short-term debt	795	173			
Trade accounts payable	1,166	950			
Other payables and accrued liabilities	966	831			
Dividends payable to stockholders	42	58			
Accrued income tax	84	52			
Total current liabilities	3,053	2,064			
Long-term debt	1,826	1,899			
Post-employment benefit obligations	506	445			
Long-term deferred tax liabilities	75	19			
Other long-term liabilities	488	330			
outer tong term intomates	2,895	2,693			
Total liabilities	5,948	4,757			
	5,948	4,/5/			
Commitment and contingencies					
Equity					
Parent company stockholders' equity					
Common stock (preferred stock: 540,000,000 shares authorized, not issued;					
common stock: Euro 1.04 par value, 1,200,000,000 shares authorized,					
911,239,420 shares issued, 905,415,002 shares outstanding)	1,157	1,157			
Additional paid-in capital	3,062	2,992			
Retained earnings	3,599	2,747			
Accumulated other comprehensive income	723	475			
Treasury stock	(93)	(328)			
Total parent company stockholders' equity	8,448	7,043			
Noncontrolling interest	58	68			
Total equity	8,506	7,111			
Total liabilities and equity	14,454	11,868			

# STMicroelectronics N.V.

## CONSOLIDATED STATEMENTS OF EQUITY

					Accumulated Other		
	Common	Additional Paid- In	Treasury	Retained	Comprehensive	Noncontrolling	Total
In million of U.S. dollars, except per share amounts	Stock	Capital	Stock	Earnings	Income (Loss)	Interest	Equity
Balance as of December 31, 2017	1,157	2,718	(132)	973	688	63	5,467
Repurchase of common stock			(62)				(62)
Stock-based compensation expense		125	53	(53)			125
Comprehensive income (loss):							
Net income				1,287		6	1,293
Other comprehensive income (loss), net of tax					(179)		(179)
Comprehensive income (loss)							1,114
Dividends to noncontrolling interest						(4)	(4)
Dividends, \$0.24 per share				(216)			(216)
Balance as of December 31, 2018	1,157	2,843	(141)	1,991	509	65	6,424
Contribution of noncontrolling interest						8	8
Business combination						61	61
Repurchase of noncontrolling interest		4				(65)	(61)
Repurchase of common stock			(250)				(250)
Stock-based compensation expense		145	63	(63)			145
Comprehensive income (loss):							
Net income				1,032		1	1,033
Other comprehensive income (loss), net of tax					(34)		(34)
Comprehensive income (loss)							999
Dividends to noncontrolling interest						(2)	(2)
Dividends, \$0.24 per share				(213)			(213)
Balance as of December 31, 2019	1,157	2,992	(328)	2,747	475	68	7,111
Repurchase of common stock			(125)				(125)
Issuance of senior convertible bonds		184					184
Settlement of senior convertible bonds		(269)	258				(11)
Stock-based compensation expense		155	102	(102)			155
Comprehensive income (loss):							
Net income				1,106		2	1,108
Other comprehensive income (loss),							
net of tax					248		248
Comprehensive income (loss)							1,356
Dividends to noncontrolling interest						(12)	(12)
Dividends, \$0.168 per share				(152)			(152)
Balance as of December 31, 2020	1,157	3,062	(93)	3,599	723	58	8,506

# STMicroelectronics N.V.

## CONSOLIDATED STATEMENTS OF CASH FLOWS

	Twelve Months Ended						
In million of U.S. dollars	December 31, 2020	December 31, 2019	December 31, 2018				
Cash flows from operating activities:	2020	2017	2010				
Net income	1.108	1.033	1,293				
Items to reconcile net income and cash flows from	1,100	1,055	1,275				
operating activities:							
Depreciation and amortization	923	854	791				
Interest and amortization of issuance costs on convertible							
bonds	44	38	37				
Interest on settled convertible bonds	(41)	_	_				
Loss on financial instruments, net	26	_	_				
Non-cash stock-based compensation	155	145	125				
Other non-cash items	(130)	(110)	(116)				
Deferred income tax	(8)	25	20				
(Income) loss on equity-method investments	(2)	(1)	(8)				
Impairment, restructuring charges and other related closure							
costs, net of cash payments	(3)	(16)	(12)				
Changes in assets and liabilities:							
Trade receivables, net	(72)	(103)	(155)				
Inventories	(84)	(142)	(254)				
Trade payables	161	(14)	4				
Other assets and liabilities, net	16	160	120				
Net cash from operating activities	2,093	1,869	1,845				
Cash flows used in investing activities:							
Payment for purchase of tangible assets	(1,283)	(1,181)	(1,263)				
Proceeds from sale of tangible assets	4	7	1				
Proceeds from matured marketable securities	_	200	100				
Investment in short-term deposits, net	(577)	_	_				
Payment for purchase of intangible assets	(75)	(69)	(50)				
Payment for purchase of financial assets	_	(3)	<u>—</u>				
Proceeds from sale of equity investments	1	1	_				
Payment for business acquisitions, net of cash acquired	(113)	(127)	_				
Net cash used in investing activities	(2,043)	(1,172)	(1,212)				
Cash flows from (used in) financing activities:							
Proceeds from long-term debt	4	281	281				
Net proceeds from issuance of convertible bonds	1,567						
Repayment of issued convertible bonds	(709)	_	_				
Repayment of long-term debt	(184)	(144)	(103)				
Repurchase of common stock	(125)	(250)	(62)				
Dividends paid to stockholders	(168)	(214)	(216)				
Dividends paid to noncontrolling interest	(6)	(2)	(4)				
Proceeds from noncontrolling interest		3	<u> </u>				
Payment of withholding tax on vested shares	(31)	(17)	(18)				
Net cash from (used in) financing activities	348	(343)	(122)				
Effect of changes in exchange rates	1	(13)	(4)				
Net cash increase	399	341	507				
Cash, cash equivalents and restricted cash at beginning of the period	2,607	2,266	1,759				
Cash, cash equivalents and restricted cash at end of the period	3,006	2,607	2,266				
Supplemental cash information:							
Interest paid	7	13	12				
Income tax paid	138	130	60				

## NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

(In millions of U.S. dollars, except share and per-share amounts)

## 1. THE COMPANY

STMicroelectronics N.V. (the "Company") is registered in the Netherlands with its corporate legal seat in Amsterdam, the Netherlands, and its corporate headquarters located in Geneva, Switzerland.

The Company is a global independent semiconductor company that designs, develops, manufactures and markets a broad range of products, including discrete and standard commodity components, application-specific integrated circuits ("ASICs"), full custom devices and semi-custom devices and application-specific standard products ("ASSPs") for analog, digital and mixed-signal applications. In addition, the Company participates in the manufacturing value chain of smartcard products, which includes the production and sale of both silicon chips and smartcards.

## 2. ACCOUNTING POLICIES

The accounting policies of the Company conform to accounting principles generally accepted in the United States of America ("U.S. GAAP"). All balances and values in the current and prior periods are in millions of U.S. dollars, except share amounts. Under Article 35 of the Company's Articles of Association, the financial year extends from January 1 to December 31, which is the period-end of each fiscal year.

#### 2.1 - Principles of consolidation

The Company's consolidated financial statements include the assets, liabilities, results of operations and cash flows of its majority-owned subsidiaries. Subsidiaries are fully consolidated from the date on which control is transferred to the Company. They are deconsolidated from the date that control ceases. Intercompany balances and transactions have been eliminated in consolidation.

The Company assesses each investment in equity securities to determine whether the investee is a Variable Interest Entity ("VIE"). The Company consolidates the VIEs for which the Company is determined to be the primary beneficiary. The primary beneficiary of a VIE is the party that: (i) has the power to direct the most significant activities of the VIE and (ii) is obligated to absorb losses or has the rights to receive returns that would be considered significant to the VIE. Assets, liabilities, and the noncontrolling interest of newly consolidated VIEs are initially measured at fair value in the same manner as if the consolidation resulted from a business combination.

When the Company owns some, but not all, of the voting stock of a consolidated entity, the shares held by third parties represent a noncontrolling interest. The consolidated financial statements are prepared based on the total amount of assets and liabilities and income and expenses of the consolidated subsidiaries. However, the portion of these items that does not belong to the Company's shareholders is reported on the line "Noncontrolling interest" in the consolidated financial statements.

#### 2.2 - Use of estimates

The preparation of consolidated financial statements in accordance with U.S. GAAP requires management to make estimates and assumptions. The primary areas that require significant estimates and judgments by management include, but are not limited to:

- sales returns and allowances.
- · inventory obsolescence reserves and normal manufacturing capacity thresholds to determine costs capitalized in inventory,
- recognition and measurement of loss contingencies.
- valuation at fair value of assets acquired, including intangibles, goodwill, investments and tangible assets, and liabilities assumed, including deferred and contingent consideration on business acquisitions,

- annual and trigger-based impairment review of goodwill and intangible assets, as well as the assessment of events which could trigger impairment testing on long-lived assets,
- assumptions used in measuring expected credit losses and impairment charges on financial assets.
- recognition and measurement of restructuring charges and other exit costs;
- · assumptions used in assessing the number of awards expected to vest on stock-based compensation plans,
- assumptions used in calculating pension obligations and other long-term employee benefits,
- allocation between debt and equity of the various components of an issued, or settled, hybrid instrument and measurement at fair value of the liability component based on the income
  approach, and
- determination of the amount of tax expected to be paid and tax benefit expected to be received, including deferred income tax assets, valuation allowance and provisions for uncertain tax positions and claims.

The Company bases the estimates and assumptions on historical experience and on various other factors such as market trends, market information used by market participants and the latest available business plans that it believes to be reasonable under the circumstances, the results of which form the basis for making judgments about the carrying values of assets and liabilities. COVID-19 pandemic did not result in significant impacts on these estimates. While the Company regularly evaluates its estimates and assumptions, the actual results experienced by the Company could differ materially and adversely from those estimates

## 2.3 - Foreign currency

The U.S. dollar is the reporting currency of the Company. The U.S. dollar is the currency of the primary economic environment in which the Company operates, since the worldwide semiconductor industry uses the U.S. dollar as a currency of reference for actual pricing in the market. Furthermore, the majority of the Company's transactions are denominated in U.S. dollars, and revenues from external sales in U.S. dollars largely exceed revenues in any other currency. However, certain significant costs are incurred in the countries of the Eurozone and other non-U.S. dollar currency areas.

The functional currency of each subsidiary of the Company is either the local currency or the U.S. dollar, depending on the basis of the economic environment in which each subsidiary operates. Foreign currency transactions, including operations in local currency when the U.S. dollar is the functional currency, are measured into the functional currency using the prevailing exchange rate. Foreign exchange gains and losses resulting from the re-measurement at reporting date of monetary assets and liabilities denominated in currencies other than the functional currency are recognized in the consolidated statements of income on the line "Other income and expenses, net".

For consolidation purposes, the results and financial position of the subsidiaries whose functional currency is different from the U.S. dollar are translated into the reporting currency as follows:

- (a) assets and liabilities for each consolidated balance sheet presented are translated at the closing exchange rate as of the balance sheet date;
- (b) income and expenses for each consolidated statement of income presented are translated at the average monthly exchange rate;
- (c) the resulting exchange differences are reported as Currency Translation Adjustments ("CTA"), a component of "Other comprehensive income (loss)" in the consolidated statements of comprehensive income.

## 2.4 - Cash and cash equivalents

Cash and cash equivalents include cash on hand, deposits held at call with external financial institutions and other short-term highly liquid investments with original maturities of three months or less. They are both readily convertible to known amounts of cash and so near their maturity that they present insignificant risk of changes in value because of changes in interest rates.

### 2.5 - Trade accounts receivable

Trade accounts receivable are amounts due from customers for goods sold and services rendered to third parties in the ordinary course of business. Prior to the adoption of the new ASC 326 guidance on January 1, 2020, the Company reported trade accounts receivable net of allowance for doubtful accounts. The Company evaluated its customers' financial condition periodically and recorded an allowance for any specific account it considered as doubtful. Additionally, the Company maintained an allowance for doubtful accounts for estimated losses resulting from its customers' inability to make required payments. The carrying amount of the receivable was thus reduced by an allowance account, and the amount of the corresponding charge was recognized in the line "Selling, general and administrative" in the consolidated statements of income. Subsequent recoveries, if any, of amounts previously provided for were credited against the same line in the consolidated statements of income. When a trade receivable was uncollectible, it was written-off against the allowance account for trade accounts receivable. With the adoption of ASC 326 guidance starting January 1, 2020, the Company uses a lifetime expected losses allowance for all trade receivables. The allowance includes reasonable assumptions about future credit trends. The historical loss rates are adjusted to reflect current and forward-looking information on macroeconomic factors affecting the ability of the Company's customers to settle the receivables. Adjustments to the expected credit losses allowance are reported on the line "Selling, general and administrative" in the consolidated statements of income and write-offs, if any, are recorded against the expected credit losses allowance, consistent with prior guidance.

In the event of transfers of receivables such as factoring, the Company derecognizes the receivables only to the extent that the Company has surrendered control over the receivables in exchange for a consideration other than beneficial interest in the transferred receivables.

#### 2.6 - Inventories

Inventories are stated at the lower of cost and net realizable value. Cost is based on the weighted average cost by adjusting standard cost to approximate actual manufacturing costs on a quarterly basis; the cost is therefore dependent on the Company's manufacturing performance. In the case of underutilization of manufacturing facilities, the costs associated with unused capacity are not included in the valuation of inventories but charged directly to cost of sales. Net realizable value is the estimated selling price in the ordinary course of business, less reasonably predictable costs of completion, disposal and transportation.

The Company performs, on a continuous basis, write-offs of finished products, which have the characteristics of slow-moving, old production dates and technical obsolescence. The Company evaluates its inventory to identify obsolete or slow-selling items, as well as inventory that is not of saleable quality and records a specific reserve if the Company estimates the inventory will eventually become obsolete. Reserve for obsolescence is estimated for excess uncommitted inventory based on the previous quarters sales, order backlog and production plans.

#### 2.7 - Income taxes

Income tax for the period comprises current and deferred income tax. Current income tax represents the income tax expected to be paid or the tax benefit expected to be received related to the current year taxable profit and loss in each tax jurisdiction. Deferred income tax is recognized, using the liability method, for all temporary differences arising between the tax bases of assets and liabilities and their carrying amount in the consolidated financial statements. Deferred tax liabilities are not recognized on the initial recognition of goodwill as a result of a business combination. Deferred income tax is determined using tax rates and laws that are enacted at the balance sheet date and are expected to apply when the related deferred income tax asset is realized or the deferred income tax liability is settled. The effect on deferred tax assets and liabilities from changes in tax laws and tax rates is recognized on the line "Income tax benefit (expense)" in the consolidated statements of income in the period in which the law is enacted. Deferred income tax assets are recognized in full but the Company assesses whether future taxable profit will be available against which temporary differences can be utilized. A valuation allowance is provided for deferred tax assets when management considers it is more likely than not that they will not be realized.

The Company recognizes a deferred tax liability on undistributed earnings of subsidiaries when there is a presumption that taxable earnings will be remitted to the parent. A deferred tax asset is recognized on compensation for the grant of stock awards to the extent that such charge constitutes a temporary difference in the subsidiaries' local tax jurisdictions. Changes in the stock price do not result in any adjustments to the deferred tax asset prior to vesting.

At each reporting date, the Company assesses all significant income tax positions in all tax jurisdictions to determine any uncertain tax positions. The Company uses a two-step process for the evaluation of uncertain tax positions. The first step consists in assessing whether the tax benefit must be recognized. The second step consists in measuring the amount of tax benefit to be recognized on each uncertain tax position. In step 1 (recognition), the Company assesses whether a tax position, based solely on its technical merits, is more likely than not to be sustained upon examination. Only tax positions with a sustainability threshold higher than 50% are recognized. In Step 2 (measurement), the Company determines the amount of recognizable tax benefit. The measurement methodology is based on a "cumulative probability" approach, resulting in the recognition of the largest amount that is greater than 50% likely of being realized upon settlement with the taxing authority. The Company accrues for interest and penalties on uncertain tax liabilities reported on the consolidated balance sheets. Interests and penalties are classified as components of income tax expense in the consolidated statements of income.

#### 2.8 - Assets held for sale

Asset groups are classified as assets held for sale when their carrying amount is to be recovered principally through a sale transaction rather than through continuing use. The asset groups are classified as assets held for sale when the following main conditions have been met: management has approved the plan to sell; assets are available for immediate sale; assets are actively being marketed; sale is probable of occurring within one year; price is reasonable in the market and it is unlikely that there will be significant changes in the assets to be sold or a withdrawal to the plan to sell. Asset groups classified as held for sale are reported as current assets in the consolidated balance sheets at the lower of their carrying amount and fair value less costs to sell. Long-lived assets classified as held for sale are no longer depreciated. When the held-for-sale accounting treatment requires an impairment charge for the difference between the carrying amount and fair value, such impairment is reflected on the consolidated statements of income on the line "Impairment, restructuring charges and other related closure costs".

#### 2.9 - Business combinations and goodwill

The acquisition method of accounting is applied to all business combinations. The identifiable assets acquired, liabilities assumed, and equity instruments issued are measured at fair value on the acquisition date. Any contingent purchase price and acquired contingencies are recorded at fair value on the acquisition date and remeasured at each reporting date. Acquisition-related transaction costs and restructuring costs relating to the acquired business are expensed as incurred. Acquired in-process research and development ("IPR&D") is capitalized and recorded as an intangible asset on the acquisition date, subject to impairment testing until the research or development is completed or abandoned. The excess of the consideration transferred over the acquisition-date fair value of the identifiable assets acquired and liabilities assumed, net of related deferred tax impacts, is recorded as goodwill. In case of a bargain purchase, the Company reassesses whether it has correctly identified all of the assets acquired and all of the liabilities assumed, the noncontrolling interest in the acquiree, if any, the Company's previously held equity interest in the acquiree, if any, and the consideration transferred. If after this review, a bargain purchase is still indicated, it is recognized in earnings attributable to parent company stockholders. The purchase of additional interests in a partially owned subsidiary is treated as an equity transaction as well as all transactions concerning the sale of subsidiary stock or the issuance of stock by the partially owned subsidiary, as long as there is no change in control of the subsidiary. If as a consequence of selling subsidiary shares, the Company no longer controls the subsidiary, the Company recognizes a gain or loss in earnings.

Goodwill is carried at cost less accumulated impairment losses, if any. Goodwill is not amortized but is tested annually for impairment, or more frequently if indicators of impairment exist. Goodwill subject to potential impairment is tested at the reporting unit level. The impairment test determines whether the fair value of each reporting unit under which goodwill is allocated is lower than the total carrying amount of relevant net assets allocated to such reporting unit, including its allocated goodwill. Before the adoption on January 1, 2020 of the new guidance which simplifies the accounting for goodwill impairment, the implied fair value of the reporting unit goodwill was compared to the carrying value of the goodwill and an impairment charge was recognized for any excess in the consolidated statements of income on the line "Impairment, restructuring charges and other related closure costs". With the adoption of the new guidance effective on January 1, 2020, this hypothetical purchase price allocation is not required and a goodwill impairment charge, if any, is recorded for the amount by which a reporting unit's carrying value exceeds its fair value. Significant management judgments and estimates are used in forecasting the future discounted cash flows associated with the reporting unit, including: the applicable industry's sales volume forecast and selling price evolution, the reporting unit's market penetration and its revenues evolution, the market acceptance of certain new technologies and products, the relevant cost

structure, the discount rates applied using a weighted average cost of capital and the perpetuity rates used in calculating cash flow terminal values.

#### 2.10 - Intangible assets with definite useful lives

Intangible assets subject to amortization include the intangible assets purchased from third parties recorded at cost and intangible assets acquired in business combinations initially recorded at fair value. Amortization begins when the intangible asset is available for its intended use. Amortization reflects the pattern in which the asset's economic benefits are consumed, which usually consists in applying the straight-line method to allocate the cost of the intangible assets over the estimated useful life.

The carrying value of intangible assets with definite useful lives is evaluated whenever changes in circumstances indicate that the carrying amount may not be recoverable. An impairment loss is recognized in the consolidated statements of income on the line "Impairment, restructuring charges and other related closure costs" for the amount by which the asset's carrying amount exceeds its fair value. The Company evaluates the remaining useful life of an intangible asset at each reporting date to determine whether events and circumstances warrant a revision to the remaining period of amortization.

#### Technologies and licenses

Separately acquired technologies and licenses are recorded at historical cost. Technologies and licenses acquired in a business combination are initially recognized at fair value at the acquisition date. Technologies and licenses have a useful life which usually ranges from 3 to 8 years and are carried at cost less accumulated amortization and impairment losses, if any.

#### Computer software

Separately acquired computer software is recorded at historical cost. Costs associated with maintaining computer software programs are expensed as incurred and reported as "Cost of sales", "Selling, general and administrative", or "Research and development" in the consolidated statements of income according to their intended use. The capitalization of costs for internally generated software developed by the Company for its internal use begins when the preliminary project stage is completed and when the Company, implicitly or explicitly, authorizes and commits to funding a computer software project. It must be probable that the project will be completed and will be used to perform the function intended. Amortization of computer software begins when the software is available for its intended use and is calculated using the straight-line method over the estimated useful life, which does not exceed 4 years.

### 2.11 - Property, plant and equipment

Property, plant and equipment are stated at historical cost, net of accumulated depreciation and any impairment losses. Property, plant and equipment acquired in a business combination are initially recognized at fair value at the acquisition date. Major additions and improvements are capitalized, while minor replacements and repairs are expensed and reported as "Cost of sales", "Selling, general and administrative", or "Research and development" in the consolidated statements of income according to their intended use.

Land is not depreciated. Depreciation on fixed assets is computed using the straight-line method over their estimated useful lives, as follows:

Buildings	33 years
Facilities and leasehold improvements	5-10 years
Machinery and equipment	2-10 years
Computer and R&D equipment	3-6 years
Other	2-5 years

The Company evaluates each period whether there is reason to suspect that tangible assets or groups of assets held and used might not be recoverable. Several impairment indicators exist for making this assessment, such as: restructuring plans, significant changes in the technology, market, economic or legal environment in which the Company operates, available evidence of obsolescence of the asset, or indication that its economic performance is, or will be, worse than expected. In determining the recoverability of assets to be held and used, the Company initially assesses whether the carrying value of the tangible assets or group of assets exceeds the

undiscounted cash flows associated with these assets. If exceeded, the Company then evaluates whether an impairment charge is required by determining if the asset's carrying value also exceeds its fair value. This fair value is normally estimated by the Company based on independent market appraisals or the sum of discounted future cash flows, using market assumptions such as the utilization of the Company's fabrication facilities and the ability to upgrade such facilities, change in the selling price and the adoption of new technologies. At each reporting date or when impairment indicators are identified, the Company also evaluates, and adjusts if appropriate, the assets' useful lives.

When property, plant and equipment are retired or otherwise disposed of, the net book value of the assets is removed from the Company's books. Gains and losses on disposals are determined by comparing the proceeds with the carrying amount and are included in "Other income and expenses, net" in the consolidated statements of income.

#### 2.12 - Leases

The Company recognizes lease arrangements on the consolidated balance sheet as right-of-use assets as a category within "Property, plant and equipment, net". For income statement purposes, leases are classified as either operating or finance leases. Lease arrangements in which the Company has substantially all the risks and rewards of ownership are classified as finance leases. Operating lease expenses are recognized in the consolidated statements of income, on a straight-line basis over the lease period and reported as "Cost of sales", "Selling, general and administrative", or "Research and development", according to the intended use of the leased asset.

A lease contract is a contract, or part of a contract, that conveys the right to control the use of identified property, plant, or equipment (an identified asset) for a period of time in exchange for consideration. The Company determines if an arrangement is a lease at inception. Operating leases are included in operating lease right-of-use assets within the line "Property, plant and equipment, net" on the consolidated balance sheets. Current operating lease liabilities are included in the line "Other payables and accrued liabilities", while noncurrent operating lease liabilities are included in the line "Other long-term liabilities" on the Company's consolidated balance sheets. Finance leases are included in the line "Property, plant and equipment, net" and "Long-term debt" on the consolidated balance sheets.

Right-of-use assets represent the Company's right to use an underlying asset for the lease term and lease liabilities represent the Company's obligation to make lease payments arising from the lease. Right-of-use assets and liabilities are recognized at the lease commencement date based on the estimated present value of lease payments over the lease term.

The right-of-use asset is a nonmonetary asset while the lease liability is a monetary liability. When accounting for a lease that is denominated in a foreign currency, the lease liability is remeasured using the current exchange rate, while the right-of-use asset is measured using the historical exchange rate as of the commencement date. Certain lease contracts contain options to extend the lease. On these contracts, the Company estimates the lease term by including the extended duration when it is reasonably certain for the Company to exercise that option. In addition, the Company made an accounting policy election for all asset classes to not account for short-term leases. A short-term lease is defined as a lease that, at the commencement date, has a lease term of 12 months or less and does not include an option to purchase the underlying asset that the lessee is reasonably certain to exercise. The short-term lease election is made at the commencement date only. Additionally, lease contracts with a sum of lease payments not exceeding \$5,000 are excluded from the recognition on the consolidated balance sheet.

The Company does not separate lease and non-lease components and instead accounts for each separate lease component and the non-lease components associated with that lease component as a single lease component.

Variable lease payments that depend on an index or a rate are included in the lease payments and are measured using the prevailing index or rate at the measurement date. Changes to index and rate-based variable lease payments are recognized in earnings in the period of the change.

The rate implicit in the lease should be used whenever that rate is readily determinable. In most cases, this rate is not readily determinable and the Company uses its incremental borrowing rate, which is derived from information available at the lease commencement date, in determining the present value of lease payments. The

Company gives consideration to its recent debt issuances as well as publicly available data for instruments with similar characteristics when calculating its incremental borrowing rates.

## 2.13 - Loss contingencies

In determining loss contingencies, the Company considers the likelihood of the incurrence of a liability as well as the ability to reasonably estimate the amount of such loss or liability. An estimated loss from a loss contingency is accrued when information available indicates that it is probable that a liability has been incurred at the date of the consolidated financial statements and when the amount of the loss can be reasonably estimated.

### 2.14 - Long-term debt

## (a) Convertible debt

The Company evaluates, at initial recognition of a convertible debt, the different components and features of the hybrid instruments and determines whether certain elements are embedded derivative instruments which require bifurcation. Components of convertible debt instruments that may be settled in cash upon conversion based on a net-share settlement basis are accounted for separately as long-term debt and equity when the conversion feature of the convertible bonds constitute an embedded equity instrument. When an equity instrument is identified, proceeds from issuance are allocated between debt and equity by measuring first the liability component and then determining the equity component as a residual amount. The liability component is measured as the fair value of a similar nonconvertible debt, which results in the recognition of a debt discount. In subsequent periods, the Company amortizes the debt discount through earnings on the line "Interest income (expense), net" of the consolidated statements of income, using the effective interest method, based on the contractual maturity of the debt. The equity component, reported on the line "Additional Paid-in Capital" of the consolidated statement of equity, is not remeasured. Deferred taxes are recognized on the difference between the carrying amount of the liability component and its tax basis.

Debt issuance costs are reported as a deduction of debt. They are subsequently amortized through earnings on the line "Interest income (expense), net" of the consolidated statements of income, using the effective interest rate method.

In case of conversion from the bondholders, the fair value of the consideration transferred is allocated between the liability component and the equity component. The difference between the carrying amount of the debt at the settlement date and the fair value of the debt component is recorded in earnings as a loss on debt extinguishment and reported on the line "Loss on financial instruments, net" of the consolidated statements of income. The liability component is measured as the fair value of a similar nonconvertible debt prior to settlement. The reacquired equity component is recorded in equity and reported on the line "Additional Paid-in Capital" of the consolidated statement of equity.

### (b) Bank loans

Bank loans and non-convertible senior bonds are recognized at the amount of cash proceeds received, net of debt issuance costs incurred. They are subsequently reported at amortized cost; any difference between the proceeds (net of debt issuance costs) and the principal amount is recognized through earnings on the line "Interest income (expense), net" of the consolidated statements of income over the period of the borrowings using the effective interest method.

## 2.15- Employee benefits

#### (a) Pension obligations

The Company sponsors various pension schemes for its employees. These schemes conform to local regulations and practices in the countries in which the Company operates. Such plans include both defined benefit and defined contribution plans. For defined benefit pension plans, the liability recognized in the consolidated balance sheets is the present value of the defined benefit obligation at the balance sheet date less the fair value of plan assets. The overfunded or underfunded status of the defined benefit plans are calculated as the difference between plan assets and the projected benefit obligations. Estimates are used in determining the assumptions incorporated in the calculation of the pension obligations, which is supported by input from independent actuaries. Actuarial gains and losses arising from changes in actuarial assumptions are recognized in "Accumulated Other Comprehensive Income (Loss)" in the consolidated statements of equity and are charged or credited to earnings over the employees' expected average remaining working lives. Past service costs are

recognized in "Accumulated Other Comprehensive Income (Loss)" in the consolidated statements of equity and are amortized on a straight-line basis over the vesting period. The net periodic benefit cost of the year is determined based on the assumptions used at the end of the previous year. Past service costs are recognized in earnings on the line "Other components of pension benefit costs" of the consolidated statements of income if the changes to the pension scheme are not conditional on the employees remaining in service for a specified period (the vesting period).

For defined contribution pension plans, the Company pays contributions to publicly or privately administered pension insurance plans on a mandatory, contractual or voluntary basis. The Company has no further payment obligations once the contributions have been paid. The contributions are recognized as employee benefit expense when they are due. Prepaid contributions are recognized as an asset to the extent that a cash refund or a reduction in the future payments is available.

The service cost component of net periodic benefit costs is presented in the same income statement line as other employee compensation costs arising from services rendered during the period. The other components of the net periodic benefit cost are presented separately, outside operating income, on the line "Other components of pension benefit costs" of the consolidated statements of income. These elements include: interest cost; expected return on plan assets; amortization of transition (asset) obligation; amortization of prior service cost; amortization of net (gain) loss; (gain) loss recognized due to curtailment or settlement and; cost of special termination benefits.

### (b) Other post-employment obligations

The Company provides post-employment benefits to some of its retirees. The entitlement to these benefits is usually conditional on the employee remaining in service up to retirement age and on the completion of a minimum service period. The expected costs of these benefits are accrued over the period of employment using an accounting methodology similar to that for defined benefit pension plans. Actuarial gains and losses arising from changes in actuarial assumptions are charged or credited to earnings over the expected average remaining working lives of the related employees.

## (c) Termination benefits

Termination benefits are payable when an employee is involuntarily terminated, or whenever an employee accepts voluntary termination in exchange for termination benefits. For the accounting treatment and timing recognition of involuntary termination benefits, the Company distinguishes between one-time termination benefit arrangements and ongoing termination benefits arrangements. A one-time termination benefit arrangement is established by a termination plan and applies to a specified termination event. One-time involuntary termination benefits are recognized as a liability when the termination plan meets certain criteria and has been communicated to employees. If employees are required to render future service in order to receive these one-time termination benefits, the liability is recognized ratably over the future service period. Termination benefits other than one-time termination benefits are termination benefits for which the communication criterion is not met but that are committed to by management, or termination obligations that are not specifically determined in a new and single plan. These termination benefits are all legal, contractual and past practice termination obligations to be paid to employees in case of involuntary termination. These termination benefits are accrued for when commitment creates a present obligation to others for the benefits expected to be paid, when it is probable that employees will be entitled to the benefits and the amount can be reasonably estimated.

In case of special termination benefits related to voluntary redundancy programs, the Company recognizes a provision for voluntary termination benefits at the date on which the employee irrevocably accepts the offer and the amount can be reasonably estimated.

### (d) Profit-sharing and bonus plans

The Company recognizes a liability and an expense for bonuses and profit-sharing plans when a contractual obligation exists or where there is a past practice that has created a present obligation.

## (e) Other long-term employee benefits

The Company provides long-term employee benefits such as seniority awards in certain countries. The entitlement to these benefits is usually conditional on the employee completing a minimum service period. The expected costs of these benefits are accrued over the period of employment. Actuarial gains and losses arising from changes in actuarial assumptions are charged or credited to earnings in the period of the revised estimate. These obligations are valued annually with the assistance of independent qualified actuaries.

#### (f) Share-based compensation

The Company grants unvested stock awards to senior executives and selected employees. The awards granted to employees vest over a three-year service period. For certain employees, awards contingently vest upon the Company achieving certain performance conditions. The Company measures the cost of the awards based on the grant-date fair value of the awards, reflecting the market price of the underlying shares at the date of the grant, reduced by the present value of the dividends expected to be paid on the shares during the requisite service period. That cost is recognized using graded vesting over the period during which an employee is required to provide service in exchange for the award or the requisite service period. The compensation cost is recorded through earnings with the corresponding amount reported in equity, under "Additional Paid-in Capital" in the consolidated statements of equity. The compensation cost is calculated based on the number of awards expected to vest, which includes assumptions on the number of awards to be forfeited due to the employees failing to fulfill the service condition and forfeitures following the non-completion of one or more performance conditions. Compensation is recognized only for the awards that ultimately vest.

Liabilities for the Company's portion of payroll taxes are recognized at vesting, which is the event triggering the payment of the social contributions in most of the Company's local tax jurisdictions. Employee-related social charges are measured based on the intrinsic value of the share and recorded at vesting date.

### 2.16 - Share capital

Ordinary shares are classified as "Common stock" within equity on the consolidated balance sheets. Incremental costs directly attributable to the issuance of new shares or options are shown in equity as a deduction, net of tax, from the proceeds received.

Where the Company purchases its own equity share capital (treasury stock), the consideration paid, including any directly attributable incremental costs (net of income taxes), is deducted from parent company stockholders' equity until the shares are cancelled, reissued, or disposed of.

#### 2.17 - Comprehensive income (loss)

Comprehensive income (loss) is defined as the change in equity of a business during a period except those changes resulting from investment by and distributions to stockholders. In the consolidated financial statements, "Other comprehensive income (loss)" and "Accumulated other comprehensive income" primarily consists of foreign currency translation adjustments, unrealized gains (losses) on debt securities classified as available-for-sale, unrealized gains (losses) on derivatives designated as cash flow hedge and the accounting for defined benefit plans as described in Note 2.15, net of tax.

#### 2.18 - Revenue recognition

Arrangements with customers are considered contracts if all the following criteria are met: (a) parties have approved the contract and are committed to perform their respective obligations; (b) each party's rights regarding the goods or services to be transferred can be identified; (c) payment terms for the goods or services to be transferred can be identified; (d) the contract has commercial substance and (e) collectability of substantially all of the consideration is probable. The Company recognizes revenue from products sold to a customer, including distributors, when it satisfies a performance obligation by transferring control over a product to the customer. In certain circumstances, the Company may enter into agreements that concern principally revenues from services, where the performance obligation is satisfied over time. The objective when allocating the transaction price is to allocate the transaction price to each performance obligation (or distinct good or service) in an amount that depicts the amount of consideration to which the Company expects to be entitled in exchange for transferring the promised goods or services to the customer. The payment terms typically range between 30 and 90 days.

Consistent with standard business practice in the semiconductor industry, price protection is granted to distribution customers on their existing inventory of the Company's products to compensate them for declines in market prices. The Company accrues a provision for price protection based on a rolling historical price trend computed monthly as a percentage of gross distributor sales. This historical price trend represents differences in recent months between the invoiced price and the final price to the distributor, adjusted to accommodate a significant change in the selling price. The short outstanding inventory time, visibility into the inventory product pricing and long distributor pricing history have enabled the Company to reliably estimate price protection provisions at period-end. The Company records the accrued amounts as a deduction of "Net sales" in the consolidated statements of income at the time of the sale.

The Company's customers occasionally return the Company's products for technical reasons. The Company's standard terms and conditions of sale provide that if the Company determines that products do not conform, the Company will repair or replace the non-conforming products, or issue a credit note or rebate of the purchase price. Quality returns are identified shortly after sale in customer quality control testing. Quality returns are usually associated with end-user customers, not with distribution channels. The Company records the accrued amounts as a deduction of "Net sales" in the consolidated statements of income, using historical and current conditions to form a reasonable estimate of future returns.

The Company's insurance policy relating to product liability covers third party physical damages and bodily injury, indirect financial damages as well as immaterial non-consequential damages caused by defective products. The Company records a provision for warranty costs as a charge against "Cost of sales" in the consolidated statements of income, based on historical trends of warranty costs incurred as a percentage of sales, which management has determined to be a reasonable estimate of the probable losses to be incurred for warranty claims in a period. Any potential warranty claims are subject to the Company's determination that the Company is at fault for damages, and such claims usually must be submitted within a short period of time following the date of sale. This warranty is given in lieu of all other warranties, conditions or terms expressed or implied by statute or common law. The Company's contractual terms and conditions typically limit its liability to the sales value of the products which gave rise to the claims

In addition to product sales, the Company enters into arrangements with customers consisting in transferring licenses or related to license services. The revenue generated from these arrangements are reported on the line "Other revenues" of the consolidated statements of income. Other revenues also include patent royalty income, sale of scrap materials and manufacturing by-products.

## 2.19 - Public funding

The Company receives funding mainly from governmental agencies and income is recognized when all contractual conditions for receipt of these funds are fulfilled. The Company's primary sources for government funding are French, Italian and other country governmental entities. Such funding is generally provided to encourage research and development activities, industrialization and local economic development. The conditions for receipt of government funding may include eligibility restrictions, approval by EU authorities, annual budget appropriations, compliance with European Commission regulations, as well as specifications regarding objectives and results. Certain specific contracts contain obligations to maintain a minimum level of employment and investment during a certain period. There could be penalties if these objectives are not fulfilled. Other contracts contain penalties for late deliveries or for breach of contract, which may result in repayment obligations. Funding related to these contracts is recorded when the conditions required by the contracts are met. The Company's funding programs are classified under three general categories: funding for research, development and other innovative activities, capital investment, and loans.

Funding for research, development and innovative activities is the most common form of funding that the Company receives. This public funding is recorded as "Other income and expenses, net" in the Company's consolidated statements of income. The funding is recognized ratably as the related costs are incurred once the agreement with the respective governmental agency has been signed and all applicable conditions are met.

French research tax credits ("Credit Impôt Recherche") and Italian research tax credits ("Credito d'Imposta Ricerca & Sviluppo") are deemed to be grants in substance. The French research tax credits are to be paid in cash by the taxing authorities within three years in case they are not deducted from income tax payable during this period of time. The Italian tax credits are compensated against payroll-related social charges. French and Italian tax credits are reported as a reduction of "Research and development" in the consolidated statements of income.

Capital investment funding is recorded as a reduction of "Property, plant and equipment, net" and is recognized in the Company's consolidated statements of income by offsetting the depreciation charges of the funded assets during their useful lives. The Company also receives capital funding in Italy, which can be recovered through the reduction of various governmental liabilities, including income tax, value-added tax and employee-related social charges.

Funding receivables are reported as non-current assets unless cash settlement features of the receivables evidence that collection is expected within one year. Long-term receivables that do not present any tax attribute or legal restriction are reflected in the consolidated balance sheets at their net present value when the discounting effect is deemed to be significant.

The Company receives certain loans, mainly related to large capital investment projects, at preferential interest rates. The Company records these loans as "Long-term debt" in the consolidated balance sheets.

## 2.20 - Research and development

Research and development expenses include costs incurred by the Company, the Company's share of costs incurred by other research and development interest groups, and costs associated with co-development contracts. Research and development expenses do not include marketing design center costs, which are accounted for as "Selling, general and administrative" in the consolidated statements of income and process engineering, pre-production or process transfer costs which are recorded as "Cost of sales" in the consolidated statements of income. Research and development costs are expensed as incurred. The amortization expense recognized on technologies and licenses purchased by the Company from third parties to facilitate the Company's research is reported as "Research and development" in the consolidated statements of income.

#### 2.21 - Advertising costs

Advertising costs are expensed as incurred and are recorded as "Selling, general and administrative" in the consolidated statements of income. Advertising expenses for 2020, 2019 and 2018 were \$12 million. \$17 million and \$15 million, respectively.

## 2.22 - Start-up and phase-out costs

Start-up costs represent costs incurred in the start-up, testing and qualification of the Company's newly integrated manufacturing facilities. The costs of phase-outs are associated with the latest stages of facilities closure when the relevant production volumes become immaterial. Start-up costs and phase-out costs are included in "Other income and expenses, net" in the consolidated statements of income.

## 2.23- Equity-method investments

Equity-method investments are all entities over which the Company has the ability to exercise significant influence but not control, generally representing a shareholding of between 20% and 50% of the voting rights. These investments are valued under the equity-method and are initially recognized at cost. Goodwill on equity-method investments is included in the carrying value of the investment and is not individually tested for impairment. The Company's share in the result of operations of equity-method investments is recognized in the consolidated statements of income on the line "Income (loss) on equity-method investments" and in the consolidated balance sheets as an adjustment to the carrying amount of the investments. The financial statements of the equity-method investments are prepared for the same reporting period as the Company or with a time lag not exceeding three months if the investee cannot issue consolidated financial statements within the closing timeframe requirements of the Company. At each period-end, the Company assesses whether there is objective evidence that its interests in equity-method investments are impaired. Once a determination is made that an impairment exists, the Company writes down the carrying value of the equity-method investment to its fair value at the balance sheet date, which establishes a new cost basis.

## 2.24- Investments in equity securities

Investments in equity securities that have readily determinable fair values and for which the Company does not have the ability to exercise significant influence are classified as equity securities measured at fair value through earnings. Changes in the fair value of these securities are reported in the consolidated statements of income

within "Other income and expenses", net when these instruments are held within the Company's operating activities. Gains and losses arising from changes in the fair value of securities not related to operating activities are presented in the consolidated statements of income as a non-operating element within "Gain (loss) on financial instruments, net" in the period in which they arise.

For investments in equity securities without readily determinable fair values and for which the Company does not have the ability to exercise significant influence, the Company has elected to apply the cost method as a measurement alternative. Under the cost method of accounting, investments are carried at historical cost, less impairment, adjusted for subsequent observable price changes. An impairment loss is recorded when there are identified events or changes in circumstances that may have a significant adverse effect on the value of the investment. The loss is immediately recorded in the consolidated statements of income on the line "Loss on financial instruments, net" and is based on the Company's assessment of any significant and sustained reductions in the investment's value. Gains and losses on investments sold are determined on the specific identification method and are recorded as a non-operating element on the line "Gain (loss) on financial instruments, net" in the consolidated statements of income when the transaction is not related to operating activities.

The fair values of quoted equity securities are based on current market prices. If the market for a financial asset is not active and if no observable market price is obtainable, the Company measures fair value by using assumptions and estimates. In measuring fair value, the Company makes maximum use of market inputs and minimizes the use of unobservable inputs.

#### 2.25 - Investments in debt securities

The Company did not hold any debt securities classified as held-to-maturity or for which the Company would have elected to apply the fair value option. The Company's debt securities are hence classified as available-for-sale and reported on the line "Marketable securities" on the consolidated balance sheets as at December 31, 2020 and 2019. Debt securities are included in current assets when they represent investments of funds available for current operations or when management intends to dispose of the securities within twelve months of the balance sheet date.

Changes in fair value of debt securities classified as available-for-sale are recognized as a component of "Other comprehensive income (loss)" in the consolidated statements of comprehensive income. The Company assesses at each balance sheet date whether there is objective evidence that a debt security or group of debt securities classified as available-for-sale is impairmed. An unrealized impairment loss exists when the fair value of the instrument declines below its amortized cost basis. An impairment loss is recognized in earnings, through a direct reduction of the value of the asset, when the Company intends to sell the debt security or when it is more likely than not that the Company will be required to sell the instrument before recovery of the amortized cost basis. Moreover, an impairment loss is recognized in earnings through a credit loss allowance for any portion of the unrealized impairment loss resulting from a credit loss. Impairment losses recognized in the consolidated statements of income are not reversed through earnings.

The fair values of quoted debt securities are based on current market prices. If the market for a financial asset is not active and if no observable market price is obtainable, the Company measures fair value by using assumptions and estimates. In measuring fair value, the Company makes maximum use of market inputs and minimizes the use of unobservable inputs.

### 2.26 - Derivative financial instruments and hedging activities

Derivative financial instruments are initially recognized on the date a derivative contract is entered into and are subsequently measured at fair value. The method of recognizing the gain or loss resulting from the derivative instrument depends on whether the derivative is designated as a hedging instrument, and if so, the nature of the hedge transaction. The Company has designated certain derivatives as hedges of a particular risk associated with a highly probable forecasted transaction (cash flow hedge).

The Company documents, at inception of the transaction, the relationship between hedging instruments and hedged items, as well as its risk management objectives and strategy for undertaking various hedging transactions. The Company also documents its assessment, both at hedge inception and on an ongoing basis, of whether the derivatives that are used in hedging transactions are highly effective in offsetting changes in cash

flows of hedged items. Derivative instruments that are not designated as hedges are measured at fair value through earnings.

## Cash Flow Hedge

As part of its ongoing operating, investing and financing activities, the Company enters into certain derivative transactions that may be designated and may qualify as hedging instruments. To reduce its exposure to U.S. dollar exchange rate fluctuations, the Company hedges certain Euro-denominated forecasted transactions that cover at reporting date a large part of its research and development, and selling, general and administrative expenses as well as a portion of its front-end manufacturing costs of semi-finished goods within cost of sales through the use of currency forward contracts and currency options, including collars. The Company also hedges through the use of currency forward contracts certain Singapore dollar-denominated manufacturing forecasted transactions.

The derivative instruments are designated and qualify for cash flow hedge at inception of the contract and on an ongoing basis over the duration of the hedge relationship. They are reflected at their fair value as "Other current assets" or "Other payables and accrued liabilities" in the consolidated balance sheets. The criteria for designating a derivative as a hedge include the instrument's effectiveness in risk reduction and a one-to-one matching of the derivative instrument to its underlying transaction with the critical terms of the hedging instrument matching the terms of the hedged forecasted transaction. This enables the Company to conclude that changes in cash flows attributable to the risk being hedged are expected to be substantially offset by the hedging instruments.

For derivative instruments designated as cash flow hedge, the change in fair value for the effective portion of the hedge is reported as a component of "Other comprehensive income (loss)" in the consolidated statements of comprehensive income and is reclassified into earnings in the same period in which the hedged transaction affects earnings, and within the same consolidated statements of income line as the hedged transaction. For these derivatives, ineffectiveness appears if the cumulative gain or loss on the derivative hedging instrument exceeds the cumulative change in the expected future cash flows on the hedged transaction. Effectiveness on transactions hedged through purchased options is measured on the full fair value of the option, including time value.

### Derivative financial instruments not designated as a hedge

The Company conducts its business on a global basis in various major international currencies. As a result, the Company is exposed to adverse movements in foreign currency exchange rates. The Company enters into foreign currency forward contracts and currency options to reduce its exposure to changes in exchange rates and the associated risk arising from the denomination of certain assets and liabilities in foreign currencies at the Company's subsidiaries.

Financial instruments not designated as a hedge are classified as current assets when they are expected to be realized within twelve months of the balance sheet date. Marked-to-market gains or losses arising from changes in the fair value of these instruments are reported in the consolidated statements of income within "Other income and expenses, net" in the period in which they arise, since the transactions for these instruments occur within the Company's operating activities.

## 2.27- Recent accounting pronouncements

(a) Accounting pronouncements adopted in 2020

## Expected credit losses on financial assets

The Company adopted on January 1, 2020 ASC 326 new guidance on measuring credit losses for financial instruments, by applying the transitional modified-retrospective approach, which requires that any cumulative-effect adjustment is recorded in retained earnings as at transition date. The objective of the new guidance is to provide financial statement users with more decision-useful information about the expected credit losses on financial instruments, primarily financial assets measured at amortized cost and available-for-sale ("AFS") debt securities, and other commitments to extend credit held by a reporting entity at each reporting date. The amended guidance replaces the past methodology with an approach that reflects expected credit losses and requires consideration of a broader range of reasonable and supportable information to communicate credit

losses estimates. The new guidance defines a current expected credit losses ("CECL") model for financial assets measured at amortized cost, including held-to-maturity ("HTM") debt securities; net investments in leases; and other off-balance sheet credit exposures not accounted for as insurance. It also defines an impairment model for AFS debt securities and the initial recognition of purchased credit-deteriorated ("PCD") financial assets. Finally, the new guidance sets forth the impairment guidance for beneficial interests in securitized financial assets.

The Company did not report upon adoption and as at December 31, 2020 any PCD financial assets, beneficial interests in securitized financial assets, HTM debt securities, net investments in leases, reinsurance receivables, receivables that relate to repurchase agreements and securities lending transactions or any off-balance sheet credit exposures. The main categories of financial assets measured at amortized cost within the scope of the new CECL model, as reported by the Company at adoption and reporting dates, were cash equivalents, short-term deposits, trade accounts receivable and other receivables. Concerning instruments for which the new AFS debt security impairment model applies, the Company reported U.S. Treasury Bonds held as marketable securities and classified as AFS debt securities. The Company applied the zero-nonpayment risk practical expedient permitted by the new guidance when measuring CECL on state receivables. The same zero-credit loss assumption is applied on U.S. Treasury Bonds in case of future decline in fair value. Allowances recorded, in compliance with prior practice, on financial assets measured at amortized cost, including the allowance for trade accounts receivable, represented the best estimate of expected credit losses reported at transition date. Accordingly, no cumulative effect adjustment was recorded in retained earnings upon adoption since the new guidance did not have a material impact on the measurement of the financial assets held by the Company.

#### Implementation costs incurred in a cloud computing arrangement ("CCA")

The Company adopted on January 1, 2020, the new guidance which clarifies the accounting for costs of implementation activities performed in a CCA that is a service contract. The amended guidance aligns the requirements for capitalizing implementation costs incurred in a hosting arrangement that is a service contract with the requirements for capitalizing implementation costs incurred to develop or obtain internal-use software (and hosting arrangements that include an internal-use software license). The Company elected to apply the new guidance prospectively all implementation costs incurred in CCA existing on or after January 1, 2020. The new guidance did not have a material impact on the Company's consolidated financial statements since the major part of existing and new CCA that are service contracts did not generate significant implementation costs. The new guidance is similar to past practice when applied to the most significant implementation activities incurred in existing CCA.

#### Accounting for goodwill impairment

The Company adopted on January 1, 2020, the new guidance which simplifies the accounting for goodwill impairment. The new guidance removes step 2 of the goodwill impairment test, which requires a hypothetical purchase price allocation. Under the new guidance, a goodwill impairment is the amount by which a reporting unit's carrying value exceeds its fair value. The Company applied the amended guidance during the third quarter of 2020 when it performed its annual impairment campaign. The new guidance did not have any impact on the outcome of the annual impairment test.

Accounting pronouncements expected to impact the Company's operations that are not yet effective and have not been early adopted by the Company

In March 2020, the FASB provided optional guidance for a limited period to ease the potential burden in accounting for (or recognizing the effects of) reference rate reform on financial reporting. The reference rate reform is expected to result in the discontinuance of LIBOR and certain other interest rate indexes at the end of 2021. The transition away from those rates may impact the valuation and measurement of debt instruments, derivatives and other contracts with payments based on those rates, as existing contracts will be modified. These contractual modifications may have accounting implications on the measurement of contracts referring to those rates and on existing hedging transactions on which hedge accounting is applied. The guidance provides relief through optional exemptions on the transition on we reference rates. One optional exemption is to account for a modified contract as a continuation of an existing contract without performing a detailed analysis. Other exemptions are permitted on hedge accounting in order to avoid discontinuance of existing hedge accounting transactions due to modification of critical terms in the hedge relationship. The guidance is effective as of March 12, 2020 through December 31, 2022. The Company will apply the first optional exemption described above on outstanding debt and other contracts for which the change in reference rates will imply a modification

of existing contractual terms. The Company does not expect to be further impacted by the reference rate reform as it does not report any hedging relationship (e.g. hedge of debt instruments) that are directly affected by the interest rate benchmark reform.

In August 2020, the FASB issued new guidance on distinguishing liabilities from equity and EPS, to simplify an issuer's accounting for convertible instruments by eliminating the cash conversion and beneficial conversion feature models in ASC 470-20 that require separate accounting for embedded conversion features. The guidance also simplifies the settlement assessment that issuers perform to determine whether a contract in their own equity qualifies for equity classification. Finally, the guidance requires entities to use in the calculation of the diluted EPS the if-converted method for all convertible instruments and to include the effect of share settlement for instruments that may be settled in cash or shares. The new guidance is effective for public companies for annual periods beginning after December 15, 2021, with early adoption permitted in fiscal years beginning after December 15, 2020. The guidance can be adopted either on a full retrospective basis or by applying the modified retrospective approach, with the impact upon transition recorded in retained earnings for existing instruments outstanding as at the adoption date. The Company is currently assessing the impact the new guidance will have on its consolidated financial statements, as Tranche B senior unsecured convertible bonds issued on August 4, 2020 are convertible instruments with cash conversion features in the scope of the new guidance. The Company does not intend to early adopt the new guidance and intends to apply the modified retrospective method on instruments outstanding on January 1, 2022.

## 3. SHORT-TERM DEPOSITS AND MARKETABLE SECURITIES

To optimize the return yield on its short-term investments, the Company invested \$581 million of available cash in short-term deposits as at December 31, 2020. These short-term deposits represent cash equivalents with original maturity beyond three months and no significant risk of changes in fair value.

Changes in the fair value of marketable securities, as reported in current assets on the consolidated balance sheets as at December 31, 2020 and December 31, 2019 are detailed in the tables below:

				Change in	Change in	
				fair value	fair value	
	December 31,		Proceeds	included	recognized	December 31,
	2019	Purchase	at maturity	in OCI*	in earnings	2020
U.S. Treasury debt securities	133					133
Total	133					133

### Other Comprehensive Income

	December 31, 2018	Purchase	Proceeds at maturity	fair value included in OCI*	fair value recognized in earnings	December 31, 2019
U.S. Treasury debt securities	330		(200)	3		133
Total	330		(200)	3		133

## Other Comprehensive Income

As at December 31, 2020, the Company held \$133 million of U.S. Treasury Bonds, all transferred to a financial institution with high credit quality. These transactions were concluded in compliance with the Company's policy to optimize the return on its short-term interest rate investments, always placed with institutions with high credit rating. The Company, acting as the securities lender, does not hold any collateral on the unsecured securities lending transactions. The Company retains effective control on the transferred securities. U.S. Treasury Bonds totaling \$200 million matured in 2019. The amount was reported as "proceeds from matured marketable securities" in the consolidated statement of cash flows for the year ended December 31, 2019.

The debt securities had an average rating of Aaa/AA+/AAA from Moody's, S&P and Fitch, respectively, with a weighted average maturity of 0.5 years. The bonds were classified as available-for-sale and recorded at fair value as at December 31, 2020. This fair value measurement corresponds to a Level 1 fair value hierarchy measurement. The aggregate amortized cost basis of these securities totaled \$132 million as at December 31, 2020.

On January 1, 2020, the Company adopted the new ASC 326 guidance which provides a modified impairment model applicable to available-for-sale debt securities. The new credit impairment model does not significantly differ from the previous "Other-than-temporary impairment" model ("OTTT") defined in prior guidance. The new model retains the same criteria, while it does not take into consideration the length of time during which the fair value has been lower than amortized cost when assessing the existence of a credit loss. At adoption date and as at December 31, 2020, the fair value of the U.S. Treasury Bonds was higher than the amortized cost of the debt securities. Consequently, no impairment had occurred, and no allowance was recognized as at December 31, 2020.

## 4. TRADE ACCOUNTS RECEIVABLE, NET

Trade accounts receivable, net consisted of the following:

	December 31, 2020	December 31, 2019
Trade accounts receivable	1,481	1,396
Current expected credit losses allowance ("CECLA")*	(16)	(16)
Total	1,465	1,380

<sup>\*</sup> Allowance for doubtful accounts as at December 31, 2019

Prior to the adoption of the new ASC 326 guidance, the Company reported trade accounts receivable net of allowance for doubtful accounts. The Company evaluated its customers' financial condition periodically and recorded an allowance for any specific account it considered as doubtful. Additionally, the Company maintained an allowance for doubtful accounts for estimated losses resulting from its customers' inability to make required payments. The carrying amount of the receivable was thus reduced by an allowance account, and the amount of the corresponding charge was recognized in the line "Selling, general and administrative" in the consolidated statements of income. Subsequent recoveries, if any, of amounts previously provided for were credited against the same line in the consolidated statements of income. When a trade receivable was uncollectible, it was written-off against the allowance account for trade accounts receivable.

With the adoption of the ASC 326 guidance starting January 1, 2020, the Company uses a lifetime expected losses allowance for all trade receivables based on failure rates, as applied to the gross amounts of trade accounts receivable.

Based on the new ASC 326 requirements, the CECLA also includes reasonable assumptions about future credit trends. The historical loss rates are adjusted to reflect current and forward-looking information on macroeconomic factors affecting the ability of the Company's customers to settle the receivables. In addition to the factors already embedded in the failure rates, as applied on trade accounts receivable, the Company has identified cyclicality and uncertainties around continued growth for the semiconductor industry and its serviceable available market to be the most relevant factors. These macroeconomic factors are weighted into four different economic scenarios, in line with estimates and methodologies applied by other business entities, including financial institutions. These scenarios range from upside scenario (above-trend economic growth) to severe downside (recession). At adoption date, major weight was given to the baseline and mild downside scenarios, with no significant adjustment to the allowance for doubtful accounts. As at December 31, 2020, following the uncertainties arising from the COVID-19 pandemic and the impact it may have on future economic and market conditions, major weight was given to mild downside and severe downside macroeconomic scenarios, with no significant adjustments to the expected credit loss rates as used in the measurement of the allowance for trade accounts receivable.

On that basis, the changes in reported CECLA for the year ended December 31, 2020 are presented below:

Allowance for doubtful accounts as at December 31, 2019 (under prior ASC 326)	(16)
Amount recognized through opening retained earnings upon new ASC 326	_
CECLA as at January 1, 2020 (under new ASC 326)	(16)
Current-period adjustment to CECLA	_
CECLA as at December 31, 2020	(16)

Adjustments to the expected credit losses allowance are reported in the line "Selling, general and administrative" in the consolidated statements of income.

There were no significant write-offs in 2020, 2019 and 2018.

In 2020, 2019 and 2018, the Company's largest customer, Apple represented 23.9%, 17.6% and 13.1% of consolidated net revenues, respectively, reported in the ADG, AMS and MDG segments.

From time to time, the Company enters into factoring transactions to accelerate the realization in cash of some trade accounts receivable. In 2020, no trade accounts receivable were sold without recourse (\$75 million in 2019).

# 5. INVENTORIES

Inventories consisted of the following:

	December 31, 2020	December 31, 2019
Raw materials	175	137
Work-in-process	1,120	1,104
Finished products	546	450
Total	1,841	1,691

Reserve for obsolescence is estimated for excess uncommitted inventories based on the previous quarters sales, backlog of orders and production plans.

## 6. OTHER CURRENT ASSETS

Other current assets consisted of the following:

	December 31, 2020	December 31, 2019
Receivables from government agencies	244	216
Taxes and other government receivables	114	71
Advances	39	47
Prepayments	70	56
Loans and deposits	8	8
Interest receivable	3	9
Derivative instruments	65	8
Other current assets	41	27
Total	584	442

Derivative instruments are further described in Note 28.

With the adoption on January 1, 2020 of the ASC 326 new guidance, the Company applies a current expected credit losses (CECL) model on all financial assets measured at amortized cost, including deposits, loans and receivables. The major portion of other current assets to which the CECL model applies corresponds to government receivables. Due to the existing history of zero-default on receivables originated by governments, the expected credit losses are assumed to be not significant at January 1, 2020 and December 31, 2020. Other current assets presented in the table above within the lines "Loans and deposits" and "Other current assets" are composed of individually insignificant amounts at exposure of default. Consequently, no significant loss allowance was reported on those current assets as at adoption date and reporting date.

## 7. BUSINESS COMBINATIONS

#### 2020 Acquisitions

In the second quarter of 2020, the Company closed the acquisition of French Gallium Nitride (GaN) innovator Exagan. Exagan's expertise in epitaxy, product development and application know-how will broaden and accelerate ST's power GaN roadmap and business for automotive, industrial and consumer applications. Exagan acquisition has been accounted for as a business combination. The activities of this business are included in the Automotive and Discrete Group (ADG) reportable segment.

In the third quarter of 2020, the Company closed the acquisitions of the entire share capital of Ultra Wide Band specialist BeSpoon, of the cellular IoT connectivity assets of Riot Micro and of the radio-frequency assets of SOMOS. Through these transactions, the Company will further strengthen its offer for wireless connectivity in the roadmap for STM32 microcontrollers and secure MCUs. These three acquisitions have been accounted for as business combinations. The activities of these businesses are included in the Microcontrollers and Digital ICs Group (MDG) reportable segment.

In the fourth quarter of 2020, the Company completed another minor acquisition in the Microcontrollers and Digital ICs Group (MDG) reportable segment. This acquisition has been accounted for as a business combination.

As at December 31, 2020, the purchase price allocation of the above business acquisitions was subject to finalization. The preliminary fair value at acquisition date of the identifiable assets acquired and liabilities assumed were as follows:

	Fair value recognized at acquisition date
Property, plant and equipment	1
Technologies & licenses	108
Technologies in progress	10
Other intangible assets	2
Deferred tax assets	5
Deferred tax liabilities	(18)
Net working capital	(4)
Goodwill(1)	135
Total net assets at fair value	239
Purchase consideration	239

(1) The items that generated goodwill are workforce, synergies, future products and access to new markets. The goodwill is allocated to the ADG and MDG reportable segments as described in Note 8. An amount of \$45 million of goodwill was estimated to be tax deductible.

As of the acquisition date, the total consideration transferred in relation to the business acquisitions concluded in 2020 consisted of cash paid of \$104 million, before cash acquired of \$1 million, deferred consideration of \$18 million and contingent consideration of \$117 million. The fair value of the consideration transferred was determined by the Company with the assistance of a third party as part of the preliminary purchase price allocation. The contingent consideration comprised variable payment components contingent upon meeting certain financial and/or technical targets by the acquired businesses. The fair value measurement of the acquisition-date contingent consideration was based on the probability that the milestones defining the variable components of the consideration will be achieved and was estimated by calculating the present value of the future expected cash flows. The estimates were based on discount rates ranging between 1.55% and 4.07%, reflecting the term-specific cost of debt plus, where appropriate, an additional risk premium.

Deferred and contingent consideration recognized on business combinations amounted to \$143 million as at December 31, 2020. The fair value measurement of the contingent consideration corresponds to a Level 3 fair value hierarchy measurement and is further described in Note 28.

The amount paid of \$103 million for the above-mentioned business combinations was reported in the line "Payment for business acquisitions, net of cash acquired" in the consolidated statement of cash flows for the year ended December 31, 2020.

# 2019 Acquisitions

In 2019, the Company acquired the Swedish silicon carbide (SiC) wafer manufacturer Norstel AB ("Norstel"). This acquisition extends the Company's silicon carbide ecosystem and strengthens the Company's flexibility to serve fast growing automotive and industrial applications. The purchase consideration, net of \$1 million of cash acquired, was funded with available cash. The full acquisition was executed in two stages. On February 6, 2019, the Company acquired 55% of Norstel's common stock, obtaining control over the entity. The fair value of the business as a whole was estimated at \$138 million, of which \$77 million was paid by the Company for its majority stake, with an option to acquire the remaining 45% at a later date, subject to certain conditions. On December 2, 2019, the Company exercised its option to acquire the remaining 45% stake. The Company paid \$51 million to complete the closing of the full acquisition. An amount of \$10 million was held in an escrow account as protection for any claims, and reported as current restricted cash in the consolidated balance sheet as at December 31, 2019. The escrow amount was released to the seller in 2020 and the amount paid was reported in the line "Payment for business acquisitions, net of cash acquired" in the consolidated statement of cash flows for the year ended December 31, 2020.

Norstel acquisition was accounted for as a business combination. The activities of this business are included in the Automotive and Discrete Group (ADG) reportable segment. The purchase price allocation was finalized in 2020, and resulted in recognition of a deferred tax liability of \$18 million associated with the acquired technology in process, as well as a deferred tax asset of \$4 million arising from Norstel's net operating losses. A corresponding \$14 million increase in goodwill was recorded in 2020, resulting in \$57 million of total goodwill recognized on this acquisition. The final fair value of the assets acquired and liabilities assumed from Norstel were as follows:

	Fair value recognized at acquisition date	Measurement period adjustments	Fair value recognized as a result of acquisition
Property, plant and equipment	11	_	11
Technology in progress	86	_	86
Deferred tax assets	_	4	4
Deferred tax liabilities	_	(18)	(18)
Net working capital	(2)	_	(2)
Goodwill(1)	43	14	57
Total net assets at fair value	138	_	138
Purchase consideration	138	_	138

<sup>(1)</sup> The primary item that generated goodwill is the value of the future synergies between Norstel technology in silicon carbide and the Company, which do not qualify as a separately identified intangible asset. The goodwill is allocated to the ADG reportable segment as described in Note 8.

### 8. GOODWILL

Goodwill allocated to reportable segments as at December 31, 2020 and 2019 and changes in the carrying amount of goodwill during the years ended December 31, 2020 and 2019 are as follows:

	Automotive and Discrete Group (ADG)	Microcontrollers and Digital ICs Group (MDG)	Analog, MEMS & Sensors Group (AMS)	Total
December 31, 2018	_	119	2	121
Business combination	43			43
Foreign currency translation	_	(2)	_	(2)
December 31, 2019	43	117	2	162
Business combination	38	111		149
Foreign currency translation	10	9		19
December 31, 2020	91	237	2	330

As described in Note 7, the 2020 acquisitions resulted in the recognition of \$135 million in goodwill which has been included in the ADG and MDG segments to align the goodwill of the acquired businesses with the segments for which the related activities are reported.

In addition, changes in the carrying amount of goodwill in 2020 include \$14 million increase related to the acquisition of Norstel following finalization of the purchase price allocation in 2020.

Goodwill as at December 31, 2020 and 2019 is net of accumulated impairment losses of \$102 million, of which \$96 million relates to the MDG segment and \$6 million to Others. In 2020, 2019 and 2018, no impairment loss was recorded by the Company.

# 9. OTHER INTANGIBLE ASSETS, NET

Other intangible assets, net consisted of the following:

December 31, 2020	Gross Cost	Accumulated Amortization	Net Cost
Technologies & licenses	934	(623)	311
Purchased & internally developed software	537	(461)	76
Technologies in progress	56	_	56
Other intangible assets	72	(70)	2
Total	1,599	(1,154)	445
December 31, 2019	Gross Cost	Accumulated Amortization	Net Cost
Technologies & licenses	699	(578)	121
Purchased & internally developed software	486	(427)	59
Technologies in progress	119	_	119
Other intangible assets	70	(70)	_
	10	(70)	

As described in Note 7, the acquisitions completed in 2020 resulted in the recognition of technologies of \$108 million, reported on the line "Technologies & licenses", \$10 million of technology in progress reported on the line "Technologies in progress" and \$2 million of other intangible assets reported on the line "Other intangible assets".

Furthermore, the 2019 acquisition of Norstel resulted in the recognition of technology in progress for \$86 million reported on the line "Technologies in progress" as at December 31, 2019. The acquired technology was reported on the line "Technologies & licenses" as at December 31, 2020.

The line "Technologies in progress" in the table above also includes internally developed software under construction and software not ready for use.

The amortization expense in 2020, 2019 and 2018 was \$79 million, \$69 million and \$64 million, respectively.

The estimated amortization expense of the existing intangible assets for the following years is:

Year	
2021	97
2022	82
2023	64
2024	49
2025	35
Thereafter	118
Total	445

In 2020, 2019 and 2018, the Company impaired \$4 million, \$4 million and \$2 million, respectively, of acquired licenses and technologies for which it was determined that they had no alternative future use.

# 10. PROPERTY, PLANT AND EQUIPMENT, NET

Property, plant and equipment, net consisted of the following:

December 31, 2020	Gross Cost	Accumulated Depreciation	Net Cost
Land	86		86
Buildings	995	(567)	428
Facilities & leasehold improvements	3,545	(3,038)	507
Machinery and equipment	16,689	(13,859)	2,830
Computer and R&D equipment	402	(347)	55
Operating lease right-of-use assets	290	(99)	191
Other tangible assets	118	(99)	19
Construction in progress	480	_	480
Total	22,605	(18,009)	4,596

December 31, 2019	Gross Cost	Accumulated Depreciation	Net Cost
Land	78	_	78
Buildings	905	(505)	400
Facilities & leasehold improvements	3,193	(2,762)	431
Machinery and equipment	15,336	(12,790)	2,546
Computer and R&D equipment	382	(335)	47
Operating lease right-of-use assets	266	(60)	206
Other tangible assets	110	(93)	17
Construction in progress	282	_	282
Total	20,552	(16,545)	4,007

The line "Construction in progress" in the table above includes property, plant and equipment under construction and equipment under qualification before operating and not ready for their intended use.

The depreciation charge was \$844 million, \$785 million and \$727 million in 2020, 2019 and 2018, respectively.

Tax incentives and capital investment funding, which reduced property, plant and equipment totaled \$10 million, \$54 million and \$149 million for the years ended December 31, 2020, 2019 and 2018, respectively. Tax incentives and public funding reduced depreciation charges by \$59 million, \$53 million and \$42 million in 2020, 2019 and 2018, respectively.

For the years ended December 31, 2020, 2019 and 2018 the Company sold property, plant and equipment for cash proceeds of \$4 million, \$7 million and \$1 million, respectively.

There was no impairment recognized for the years ended December 31, 2020 and 2018. For the year ended December 31, 2019, the Company recorded impairment charges of \$3 million on long-lived assets.

### 11. LEASES

A lease contract is a contract, or part of a contract, that conveys the right to control the use of identified property, plant, or equipment (an identified asset) for a period of time in exchange for consideration. The Company determines if an arrangement is a lease at inception. Operating leases are included in operating lease right-of-use assets within plant, property and equipment. Current operating lease liabilities are included in other payables and accrued liabilities, while noncurrent operating lease liabilities are included in other long-term liabilities in the Company's consolidated balance sheet. Finance leases are included in property and equipment and long-term debt.

Right-of-use assets represent the Company's right to use an underlying asset for the lease term and lease liabilities represent the Company's obligation to make lease payments arising from the lease. Right-of-use assets and liabilities are recognized at the lease commencement date based on the estimated present value of lease payments over the lease term.

The right-of-use asset is a nonmonetary asset while the lease liability is a monetary liability. When accounting for a lease that is denominated in a foreign currency, the lease liability is remeasured using the current exchange rate, while the right-of-use asset is remeasured using the exchange rate as of the commencement date.

The Company leases land, buildings, cars and certain equipment (including IT equipment) which have remaining lease terms between less than one year and 49 years. Certain lease contracts contain options to extend the leases by up to 30 years, which the Company has included in the lease term when it is reasonably certain for the Company to exercise that option. In addition, the Company made an accounting policy election for all the asset classes to not account for short-term leases. A short-term lease is defined as a lease that, at the commencement date, has a lease term of 12 months or less and does not include an option to purchase the underlying asset that the lessee is reasonably certain to exercise. The short-term lease election can only be made at the commencement date.

Variable lease payments that depend on an index or a rate are included in the lease payments and are measured using the prevailing index or rate at the measurement date (January 1, 2019 for initial measurement of the leases existing at that date and commencement date for subsequent lease contracts). Changes to index and rate-based variable lease payments are recognized in profit or loss in the period of the change.

In addition, lease contracts with a sum of lease payments not exceeding \$5,000 have been excluded from the capitalization in the consolidated balance sheet.

Certain assumptions and judgements may be made in applying the requirements of lease accounting, such as the exercise of extension options and determination of discount rates.

#### Discount rates

The rate implicit in the lease should be used whenever that rate is readily determinable. In most cases, this rate is not readily determinable and the Company used its incremental borrowing rate, which was derived from information available at the lease commencement date, in determining the present value of lease payments. The Company gives consideration to its recent debt issuances as well as publicly available data for instruments with similar characteristics when calculating its incremental borrowing rates. Due to immateriality of any intra-quarter discount rate changes, the Company determines the discount rate based on the mid-quarter date.

Most leases entered into by the Company are operating leases. As at December 31, 2020 and December 31, 2019, finance lease right-of-use assets were less than \$1 million. The below information is presented for operating leases only.

Operating leases consisted of the following:

	December 31, 2020	December 31, 2019
Assets		
Right-of-use assets	191	206
Total right-of-use assets	191	206
Lease liabilities		
Current	54	55
Non-current	142	152
Total lease liabilities	196	207

Maturities of operating lease liabilities are as follows:

	December 31, 2020
2021	58
2022	44
2023	32
2024	21
2025	13
Thereafter	76
Total future undiscounted cash outflows	244
Effect of discounting	(48)
Total operating lease liabilities	196

Operating lease term and discount rate are as follows:

	December 31, 2020	December 31, 2019
Weighted average remaining lease term (in years)	9.01	9.26
Weighted average discount rate	2.71%	2.79%

Operating lease cost and cash paid are as follows:

	2020	2019
Operating lease cost	65	65
Operating lease cash paid	65	65

Right-of-use assets obtained in exchange for new operating lease liabilities are as follows:

	2020	2019
Operating leases	40	38

# 12. LONG-TERM INVESTMENTS

	December 31, 2020	December 31, 2019
Long-term investments	10	11
Total	10	11

Long-term investments are equity securities with no readily determinable fair value for which the Company has elected to apply the cost alternative measurement. It includes principally the Company's investment in DNP Photomask Europe S.p.A ("DNP"). The Company has identified DNP as a VIE, but has determined that it is not the primary beneficiary. The significant activities of DNP revolve around the creation of masks and development of high level mask technology. The Company does not have the power to direct such activities. The Company's current maximum exposure to losses as a result of its involvement with DNP is limited to its investment. The Company has not provided additional financial support in 2020 and 2019 and currently has no requirement or intent to provide further financial support to DNP.

# 13. OTHER NON-CURRENT ASSETS

Other non-current assets consisted of the following:

	December 31, 2020	December 31, 2019
Equity securities	25	23
Long-term State receivables	623	358
Deposits and other non-current assets	76	56
Total	724	437

Long-term State receivables include receivables related to funding and receivables related to tax refunds. Funding are mainly public grants to be received from governmental agencies in Italy and France as part of long-term research and development, industrialization and capital investment projects. Long-term receivables related to tax refund correspond to tax benefits claimed by the Company in certain of its local tax jurisdictions, for which collection is expected beyond one year.

In 2020 and 2019, the Company entered into factoring transactions to accelerate the realization in cash of some non-current assets. As at December 31, 2020, \$96 million of the non-current assets were sold without recourse, compared to \$131 million as at December 31, 2019, with a financial cost of less than \$1 million for both years.

The major portion of other non-current assets to which the ASC 326 new expected credit loss model applies are long-term State receivables. Due to the existing history of zero-default on receivables originated by governments, the expected credit losses are assumed to be negligible at January 1, 2020 and December 31, 2020. Other non-current assets presented in the table above within the line "Deposits and other non-current assets" are composed of individually insignificant amounts not deemed to have exposure of default. Consequently, no significant loss allowance was reported on other non-current assets as at ASC 326 new guidance adoption date and reporting date.

## 14. OTHER PAYABLES AND ACCRUED LIABILITIES

Other payables and accrued liabilities consisted of the following:

	December 31, 2020	December 31, 2019
Employee related liabilities	467	375
Employee compensated absences	164	138
Taxes other than income taxes	58	53
Advances	75	63
Derivative instruments	2	7
Provision for restructuring	4	10
Defined benefit plans – current portion	9	10
Defined contribution plans – accrued benefits	23	20
Other long-term employee benefits – current portion	4	7
Royalties	24	21
Current lease liabilities	54	55
Deferred consideration for business combinations	_	10
Others	82	62
Total	966	831

Derivative instruments are further described in Note 28.

Other payables and accrued liabilities include individually insignificant amounts as at December 31, 2020 and December 31, 2019, presented cumulatively in line "Others".

# 15. LONG-TERM DEBT

Long-term debt consisted of the following:

	December 31, 2020	December 31, 2019
Funding program loans from European	·	
Investment Bank:		
1.36% due 2020, floating interest rate at		
Libor + 1.099%	_	13
1.20% due 2020, floating interest rate at Libor + 0.956%	_	28
0.37% due 2020, floating interest rate at Euribor + 0.817%		14
0.77% due 2021, floating interest rate at	<del>_</del>	14
Libor + 0.525%	30	60
0.83% due 2021, floating interest rate at		
Libor + 0.572%	29	58
0.09% due 2028, floating interest rate at Euribor + 0.589%	250	258
0.22% due 2029, floating interest rate at	230	250
Euribor + 0.564%	270	275
Dual tranche senior unsecured convertible		
bonds		
Zero-coupon, due 2022 (Tranche A)	_	700
0.25% due 2024 (Tranche B)	674	654
Zero-coupon, due 2025 (Tranche A)	703	_
Zero-coupon, due 2027 (Tranche B)	661	_
Other funding program loans:		
0.48% (weighted average), due 2021-2028,		
fixed interest rate	4	12
Total long-term debt	2,621	2,072
Less current portion	(795)	(173)
Total long-term debt, less current portion	1,826	1,899

Long-term debt is denominated in the following currencies:

	December 31, 2020	December 31, 2019
U.S. dollar	2,097	1,513
Euro	524	559
Total	2,621	2,072

On July 3, 2017, the Company issued a \$1.5 billion principal amount of dual tranche senior unsecured convertible bonds (Tranche A and Tranche B for \$750 million each tranche), due 2022 and 2024, respectively. Tranche A bonds were issued at 101.265% as zero-coupon bonds, while Tranche B bonds were issued at par and bear a 0.25% per annum nominal interest, payable semi-annually. The conversion price at issuance was \$20.54, equivalent to a 37.5% premium on both tranches, which corresponds to 9,737 equivalent shares per each \$200,000 bond par value. The bonds are convertible by the bondholders or are callable by the issuer upon certain conditions, on a net-share settlement basis, except if the issuer elects a full-cash or full-share conversion as an alternative settlement. The net proceeds from the bond offering were \$1,502 million, after deducting issuance costs payable by the Company. Proceeds were allocated between debt and equity by measuring first the liability component and then determining the equity component as a residual amount. The liability component was measured at fair value based on a discount rate adjustment technique (income approach), which corresponded to a Level 3 fair value hierarchy measurement. The fair value of the liability component at initial recognition totaled \$1,266 million before allocation of issuance costs, and was estimated by calculating the present value of cash flows using a discount rate of 2.70% and 3.28% (including 0.25% per annum nominal interest), respectively, on each tranche, which were determined to be consistent with the market rates at the instruments with no conversion rights. An amount of \$242 million, net of allocated issuance costs of \$1 million, was recorded in equity as the value of the conversion features of the instruments

The call option available to the Company for the early redemption of Tranche A was exercised in July 2020. As a consequence, bondholders exercised their conversion rights on Tranche A. As the Company elected to net share settle the bonds, each conversion exercised by the bondholders followed the process defined in the original terms and conditions of the senior unsecured convertible bonds, which determined the actual number of shares to be transferred upon each conversion. The Company settled the bonds upon conversion, by redeeming through cash the \$750 million principal amount, and by settling the residual consideration through the delivery of 11.4 million treasury shares. The net-share settlement was completed as of October 1, 2020. The Company allocated the total consideration transferred between debt and equity by measuring at fair value the liability component of Tranche A prior to settlement, then determining the equity component as a residual amount. The liability component was measured at fair value based on a discount rate adjustment technique (income approach), which corresponded to a Level 3 fair value hierarchy measurement and consisted in calculating the present value of cash flows using an average estimated discount rate of 0.8%, which fairly approximated current market rates for similar bonds with no conversion rights. The fair value of the liability component as measured prior to extinguishment was \$739 million for Tranche A, which generated a loss amounting to \$25 million reported on the line "Loss on financial instruments, net" in the consolidated statement of income for the year ended December 31, 2020.

In line with the contractual terms of the convertible bonds, bondholders will have full conversion rights on Tranche B, with original maturity in 2024, starting July 26, 2021. Therefore, the liability component of Tranche B was classified as short-term debt on the consolidated balance sheet as at December 31, 2020.

On August 4, 2020, the Company issued a \$1.5 billion principal amount of dual tranche senior unsecured convertible bonds (Tranche A and Tranche B for \$750 million each tranche), due 2025 and 2027, respectively. Tranche A bonds were issued at 105.8% as zero-coupon bonds while Tranche B bonds were issued at 104.5% as zero-coupon bonds. The conversion price at issuance was \$43.62 for Tranche A equivalent to a 47.5% conversion premium and \$45.10 for Tranche B, equivalent to a 52.5% conversion premium. These conversion features correspond to an equivalent of 4,585 shares per each Tranche B bond \$200,000 par value and an equivalent of 4,435 shares per each Tranche B bond \$200,000 par value. The bonds are convertible by the bondholders or are callable by the issuer upon certain conditions, on a net-share settlement basis, except if the issuer elects a full-eash or full-share conversion as an alternative settlement. The net proceeds from the bond offering were \$1,567 million, after deducting issuance costs paid by the Company. Proceeds were allocated between debt and equity by measuring first the liability component and then determining the equity component as a residual amount. The liability component was measured at fair value based on a discount rate adjustment technique (income approach), which corresponded to a Level 3 fair value hierarchy measurement. The fair value of the liability component at initial recognition totaled \$1,362 million before allocation of issuance costs and \$40 million before allocation of \$40 million deferred tax effect, was recorded in equity as the value of the instruments with no conversion rights. An amount of \$215 million, before allocation of \$1 million issuance costs and \$30 million deferred tax effect, was recorded in equity as the value of the conversion features of the instruments.

Unamortized debt discount and issuance costs on the issued convertible debt totaled \$212 million as at December 31, 2020. As at December 31, 2020, the Company stock price exceeded the conversion price of Tranche B of the senior unsecured convertible bonds issued on July 3, 2017 and did not exceed the conversion price of the senior unsecured convertible bonds issued on August 4, 2020.

Aggregate future maturities of total long-term debt (including current portion) at principal amount are as follows:

	December 31, 2020
2021	121
2022	62
2023	62
2024	812
2025	812
Thereafter	965
Total	2,834

The difference between the total aggregated future maturities in the preceding table and the total carrying amount of long-term debt is due to unamortized debt discount and issuance costs on the dual tranche senior unsecured convertible bonds.

## Credit facilities

The Company's long-term debt contained standard conditions but does not impose minimum financial ratios. The Company had unutilized committed medium-term credit facilities with core relationship banks totalling \$1.2 billion as at December 31, 2020, including a  $\epsilon$ 500 million long-term line signed with the EIB in the first quarter of 2020, undrawn as at December 31, 2020. Out of the  $\epsilon$ 500 million undrawn as at December 31, 2020, an amount of  $\epsilon$ 335 million was drawn in February 2021.

The Company also had three long-term amortizing credit facilities with the European Investment Bank as part of R&D funding programs. The first one, signed on September 27, 2010, a  $\in$ 350 million multicurrency loan for R&D programs in Europe, was drawn mainly in U.S. dollars for an amount of \$321 million and only partially in Euros for an amount of £100 million. The outstanding amount as at December 31, 2019 was fully repaid in 2020. The second one, signed on March 12, 2013, a  $\in$ 350 million multi-currency loan which also supported R&D programs, was drawn in U.S. dollars for \$471 million, of which \$590 million was outstanding as at December 31, 2020. The third one, signed in August 2017 amounted to  $\in$ 500 million, in relation to R&D and capital expenditures in the European Union for the years 2017 and 2018. The entire amount was fully drawn in Euros corresponding to \$520 million outstanding as at December 31, 2020.

## 16. POST-EMPLOYMENT AND OTHER LONG-TERM EMPLOYEES BENEFITS

The Company and its subsidiaries have a number of defined benefit pension plans, mainly unfunded, and other long-term employees' benefits covering employees in various countries. The defined benefit plans provide pension benefits based on years of service and employee compensation levels. The other long-term employees' plans provide benefits due during the employees' period of service after certain seniority levels. The Company uses December 31 as measurement date for its plans. Eligibility is generally determined in accordance with local statutory requirements. For Italian termination indemnity plan ("TFR"), generated before July 1, 2007, the Company measures the vested benefits to which Italian employees are entitled as if the amounts were immediately due as at December 31, 2020, in compliance with U.S. GAAP guidance on determining vested benefit obligations for defined benefit pension plans.

The changes in benefit obligation and plan assets were as follows:

	Pension Benefits		Other Long-Term Benefits	
	December 31, 2020	December 31, 2019	December 31, 2020	December 31, 2019
Change in benefit obligation:				
Benefit obligation at beginning of year	1,036	911	88	81
Service cost	31	27	11	5
Interest cost	21	24	1	1
Employee contributions	4	3	_	_
Plan amendments	1	1	_	_
Benefits paid	(13)	(15)	(11)	(4)
Effect of curtailment	_	_	_	_
Effect of settlement	(2)	(36)	_	_
Actuarial (gain) loss	83	117	3	6
Foreign currency translation adjustment	55	4	9	(1)
Benefit obligation at end of year	1,216	1,036	101	88
Change in plan assets:				
Plan assets at fair value at beginning of year	597	527	_	_
Actual return on plan assets	84	81	_	_
Employer contributions	17	21	_	_
Employee contributions	4	3	_	_
Benefits paid	(3)	(5)	_	_
Effect of settlement	_	(36)	_	_
Foreign currency translation adjustments	19	6	_	_
Plan assets at fair value at end of year	718	597	_	_
Funded status	(498)	(439)	(101)	(88)

The actuarial losses incurred during 2020 were primarily due to a decrease in discount rates applied against future expected benefit payments and resulted in an increase of the benefit obligation mainly for the plans located in the United Kingdom and in the United States.

Net amount recognized in the consolidated balance sheets consisted of the following:

	Pension E	Pension Benefits		rm Benefits
	December 31, 2020	December 31, 2019	December 31, 2020	December 31, 2019
Non-current assets	4	4	_	_
Current liabilities	(9)	(10)	(4)	(7)
Long-term liabilities	(493)	(433)	(97)	(81)
Net amount recognized	(498)	(439)	(101)	(88)

The components of accumulated other comprehensive loss (income) before tax effects were as follows:

	Actuarial (gains)/losses	Prior service cost	Total
Accumulated other comprehensive loss as at	<del></del>		
December 31, 2018	152	3	155
Net amount generated/arising in current year	57	1	58
Amortization	(13)	(1)	(14)
Foreign currency translation adjustment	1	_	1
Accumulated other comprehensive loss as at			
December 31, 2019	197	3	200
Net amount generated/arising in current year	21	1	22
Amortization	(13)	(1)	(14)
Foreign currency translation adjustment	11	_	11
Accumulated other comprehensive loss as at			
December 31, 2020	216	3	219

The accumulated benefit obligations were as follows:

	Pension B	Pension Benefits		Other Long-Term Benefits	
	December 31, 2020	December 31, 2019	December 31, 2020	December 31, 2019	
cumulated benefit obligations	1,053	896	83	74	

For pension plans and other long-term benefits with accumulated benefit obligations in excess of plan assets, the accumulated benefit obligation and fair value of plan assets were \$773 million and \$327 million, respectively, as at December 31, 2020 and \$952 million and \$562 million, respectively, as at December 31, 2019.

For pension plans with projected benefit obligations in excess of plan assets, the benefit obligation and fair value of plan assets were \$1,177 million and \$675 million, respectively, as at December 31, 2020 and \$1,005 million and \$562 million, respectively, as at December 31, 2019.

The components of the net periodic benefit cost included the following:

	Pension Benefits			(	Other Long-term Benefits	
	Year ended December 31, 2020	Year ended December 31, 2019	Year ended December 31, 2018	Year ended December 31, 2020	Year ended December 31, 2019	Year ended December 31, 2018
Service cost	31	27	27	11	5	6
Interest cost	21	24	24	1	1	1
Expected return on plan assets	(23)	(22)	(23)	_	_	_
Amortization of actuarial net loss						
(gain)	12	10	8	3	7	1
Amortization of prior service cost	1	1	1	_	_	_
Effect of settlement	1	3	_	_	_	_
Effect of curtailment	_	_	1	_	_	_
Net periodic benefit cost	43	43	38	15	13	8

Pension benefits components other than service cost, recognized outside of Operating income in "Other components of pension benefit costs" in the Company's consolidated statements of income, were \$12 million, \$16 million and \$11 million in the years ended December 31, 2020, 2019 and 2018, respectively.

The weighted average assumptions used in the determination of the benefit obligation and the plan assets for the pension plans and the other long-term benefits were as follows:

Assumptions	2020	2019
Discount rate	1.45%	1.95%
Salary increase rate	2.43%	2.48%
Expected long-term rate of return on funds for		
the pension expense of the following year	3.44%	4.04%

The weighted average assumptions used in the determination of the net periodic benefit cost for the pension plans and the other long-term benefits were as follows:

Assumptions	2020	2019	2018
Discount rate	1.95%	2.75%	2.54%
Salary increase rate	2.48%	2.32%	2.37%
Expected long-term rate of return on funds for			
the pension expense of the year	4.04%	4.16%	4.23%

The discount rate was determined by reference to market yields on high quality long-term corporate bonds applicable to the respective country of each plan, with terms consistent with the terms of the benefit obligations concerned. In developing the expected long-term rate of return on assets, the Company modelled the expected long-term rates of return for broad categories of investments held by the plan against a number of various potential economic scenarios.

The Company's pension plan asset allocation at December 31, 2020 and at December 31, 2019 is as follows:

	Percentage of Plan at December	
Asset Category	2020	2019
Cash and cash equivalents	1%	1%
Equity securities	23%	24%
Government debt securities	12%	12%
Corporate debt securities	15%	16%
Investments in funds(a)	21%	21%
Real estate	2%	2%
Other (mainly insurance assets – contracts and		
reserves)	26%	24%
Total	100%	100%

As at December 31, 2020, investments in funds were composed of commingled and multi-strategy funds invested in diversified portfolios of fixed income (72%) - mainly corporate bonds, equity (13%), other instruments (15%). As at December 31, 2019, investments in funds were composed of commingled and multi-strategy funds invested in diversified portfolios of corporate bonds (37%), government bonds (32%), equity (15%) and other instruments (16%).

As at December 31, 2020, the Company's plan asset allocation was in line with the targets set for each plan.

The Company's detailed pension plan asset allocation including the fair-value measurements of those plan assets as at December 31, 2020 is as follows:

	Total	Quoted Prices in Active Markets for Identical Assets (Level 1)	Significant Other Observable Inputs (Level 2)	Significant Unobservable Inputs (Level 3)
Cash and cash equivalents	4	4	_	_
Equity securities	167	2	165	_
Government debt securities	86	_	86	_
Corporate debt securities	105	_	81	24
Investment funds	153	3	150	_
Real estate	11	_	11	_
Other (mainly insurance assets – contracts and reserves)	192	_	54	138
TOTAL	718	9	547	162

The Company's detailed pension plan asset allocation including the fair-value measurements of those plan assets as at December 31, 2019 is as follows:

	Total	Quoted Prices in Active Markets for Identical Assets (Level 1)	Significant Other Observable Inputs (Level 2)	Significant Unobservable Inputs (Level 3)
Cash and cash equivalents	5	5	_	_
Equity securities	144	1	143	_
Government debt securities	74	_	74	_
Corporate debt securities	95	_	83	12
Investment funds	127	1	126	_
Real estate	10	_	10	_
Other (mainly insurance assets –				
contracts and reserves)	142		41	101
TOTAL	597	7	477	113

The fair value of insurance contracts is based on the value of the assets held by the provider. The approach is consistent with prior years.

For plan assets measured at fair value using significant unobservable inputs (Level 3), the reconciliation between January 1, 2020 and December 31, 2020 is presented as follows:

	Fair Value Measurements using Significant Unobservable
	Inputs (Level 3)
January 1, 2020	113
Contributions (employer and employee)	14
Actual return on plan assets	2
Net benefit payments (a)	11
Settlements	_
Transfer in Level 3	10
Foreign currency translation adjustment	12
December 31, 2020	162

(a) Net cash flows between benefits paid from the insurance contracts and benefits transferred into the insurance contracts by employees.

For plan assets measured at fair value using significant unobservable inputs (Level 3), the reconciliation between January 1, 2019 and December 31, 2019 is presented as follows:

	Fair Value Measurements using Significant Unobservable Inputs (Level 3)
January 1, 2019	117
Contributions (employer and employee)	11
Actual return on plan assets	(1)
Net benefit payments (a)	9
Settlements	(34)
Transfer in Level 3	11
December 31, 2019	113

(a) Net cash flows between benefits paid from the insurance contracts and benefits transferred into the insurance contracts by employees.

The Company's investment strategy for its pension plans is to optimize the long-term investment return on plan assets in relation to the liability structure to maintain an acceptable level of risk while minimizing the cost of providing pension benefits and maintaining adequate funding levels in accordance with applicable rules in each jurisdiction. The Company's practice is to periodically conduct a review of its asset allocation strategy, in such a way that the asset allocation is in line with the targeted asset allocation within reasonable boundaries. The Company's asset portfolios are managed in such a way as to achieve adapted diversity. The Company does not manage any assets internally.

After considering the funded status of the Company's defined benefit plans, movements in the discount rate, investment performance and related tax consequences, the Company may choose to make contributions to its pension plans in any given year in excess of required amounts. The Company's contributions to plan assets were \$17 million in 2020 and \$21 million in 2019 and the Company expects to contribute \$22 million to plan assets in 2021.

The Company's estimated future benefit payments as at December 31, 2020 are as follows:

Years	Pension Benefits	Other Long-term Benefits
2021	38	5
2022	30	5
2023	40	6
2024	51	9
2025	56	9
From 2026 to 2030	298	49

The Company has certain defined contribution plans, which accrue benefits for employees on a pro-rata basis during their employment period based on their individual salaries. The Company's accrued benefits related to defined contribution pension plans for \$23 million as at December 31, 2020 and \$20 million as at December 31, 2019. The annual cost of these plans amounted to approximately \$91 million in 2020, \$86 million in 2019 and \$84 million in 2018.

## . OTHER LONG-TERM LIABILITIES

Other long-term liabilities consisted of the following:

	December 31, 2020	December 31, 2019
Non-current lease liabilities	142	152
Contingent consideration on business combinations	123	_
Deferred consideration	20	_
Other long-term employee benefits	97	81
Long-term liability related to public funding	42	47
Provision for restructuring	_	1
Others	64	49
Total	488	330

Lease liabilities are further described in Note 11.

The Company reported deferred and contingent consideration related to business acquisitions totalling \$143 million as at December 31, 2020, which are further described in Note 7.

Other long-term employee benefits are further described in Note 16.

Long-term liability related to public funding corresponded to grants received mainly as part of the Nano2017 program with the French government, which is subject to a financial return and depends on future cumulative sales. Public funding is further described in Note 21.

Other long-term liabilities also include individually insignificant amounts as at December 31, 2020 and December 31, 2019, presented cumulatively in the line "Others".

## 18. SHAREHOLDERS' EQUITY

### 18.1 Outstanding shares

The authorized share capital of the Company is Euro 1,810 million consisting of 1,200,000,000 common shares and 540,000,000 preference shares, each with a nominal value of  $\in$ 1.04. As at December 31, 2020 the number of shares of common stock issued was 911,239,420 shares (911,186,920 at December 31, 2019).

As at December 31, 2020, the number of shares of common stock outstanding was 905,415,002 (891,434,489 at December 31, 2019).

#### 18.2 Preference shares

The 540,000,000 preference shares, when issued, will entitle a holder to full voting rights and to a preferential right to dividends and distributions upon liquidation.

The Company is a party to an option agreement regarding the preference shares with Stichting Continuïteit ST (the "Stichting"), entered into on January 22, 2007, with a duration of ten years, which agreement was extended for another ten years in October 2016. The Managing Board and Supervisory Board, along with the board of the Stichting, have declared that they are jointly of the opinion that the Stichting is independent of the Company. The option agreement provides for the issuance of up to a maximum 540,000,000 preference shares. Any such shares would be issued to the Stichting upon its request and in its sole discretion and upon payment of at least 25% of the par value of the preference shares to be issued. The shares would be issuable in the event of actions which the board of the Stichting determines would be contrary to the Company's interests, shareholders and other stakeholders and which in the event of a creeping acquisition or offer for the Company's common shares are not supported by the Company's Managing Board and Supervisory Board. The preference shares may remain outstanding for no longer than two years. The effect of the preference shares may be to deter potential acquirers from effecting an unsolicited acquisition resulting in a change of control as well as to create a level-playing field in the event actions which are considered to be hostile by the Company's Managing Board and

Supervisory Board, as described above, occur and which the board of the Stichting determines to be contrary to the Company's interests, shareholders and other stakeholders.

There were no preference shares issued as at December 31, 2020 and December 31, 2019 respectively.

### 18.3 Treasury stock

As at December 31, 2020, the Company owned 5,824,418 shares classified as treasury stock in the consolidated statement of equity compared to 19,752,431 shares as at December 31, 2019.

The treasury shares have been originally designated for allocation under the Company's share-based remuneration programs. As at December 31, 2020, 60,484,598 of these treasury shares were transferred to employees under the Company's share-based remuneration programs, of which 7,260,486 in the year ended December 31, 2020.

On November 5, 2018, the Company announced a three years buy-back program of up to \$750 million. During 2020, the Company repurchased 4.8 million shares of its common stock for a total of \$125 million under the share buy-back program, reflected at cost, as a reduction of the parent company stockholders' equity.

As described in Note 15, bondholders exercised in 2020 their conversion rights on Tranche A of the senior unsecured convertible bonds issued on July 3, 2017, which the Company elected to net-share settle. The full settlement of Tranche A resulted in 11.4 million shares delivered to bondholders and released from treasury shares as at December 31, 2020.

## 18.4 Unvested share awards for the Supervisory Board

On an annual basis and until the year 2012, the Compensation Committee (on behalf of the Supervisory Board and with its approval) used to grant stock-based awards (options to acquire common shares of the Company) to the members and professionals of the Supervisory Board ("The Supervisory Board Plan"). The awards were granted at the nominal value of the share of  $\epsilon$ 1.04 (exercise price of the option). The options granted under the Supervisory Board Plan vest and become exercisable immediately, while the shares resulting from these awards vest and therefore become available for trade evenly over three years (one third every year), with no market, performance or service conditions.

The table below summarizes grants under the outstanding stock award plans, as authorized by the Compensation Committee:

Year of grant	Options granted and vested	Options waived at grant
2010	172,500	(7,500)
2011	172,500	(30,000)
2012	180,000	(22,500)
2013 to 2020	No options	granted

A summary of the options' activity by plan for the years ended December 31, 2020 and December 31, 2019 is presented below:

	Outstanding as of		Expired /	Outstanding as of		Expired /	Outstanding as of
Year of grant	December 31, 2018	Exercised	Cancelled	December 31, 2019	Exercised	Cancelled	December 31, 2020
2010	22,500	(22,500)	_	_	_	_	_
2011	52,500	(7,500)	_	45,000	(37,500)	_	7,500
2012	65,000	_	_	65,000	(15,000)	_	50,000

The total intrinsic value of options exercised during the year 2020 amounted to \$2 million, compared to \$1 million in 2019 and 2018. The total intrinsic value of options outstanding as at December 31, 2020 and December 31, 2019 amounted to \$2 million and \$3 million, respectively.

At the Company's Annual General Meeting of Shareholders held on June 21, 2013, it was resolved to abolish and terminate the stock-based compensation for the Supervisory Board members and professionals.

## 18.5 Unvested share awards for the employees

On an annual basis, the Compensation Committee (on behalf of the Supervisory Board and with its approval) grants stock-based awards to the senior executives along with selected employees (the "Employee Plan"). The awards are granted for services under the Employee Plan. There are two types of unvested shares: (1) shares granted to employees, which are subject only to service conditions and vest over the requisite service period, and (2) shares granted to senior executives, whose vesting is subject to performance conditions. For the plans 2017, 2018, 2019 and 2020, the performance conditions consisted of two external targets (sales evolution and operating income compared to a basket of competitors) weighting for two thirds of the total number of awards granted and of one internal target (return on net assets compared to the previous period), weighting for one third of the total number of awards granted. All the awards vest over a three-year service period (32% as of the first anniversary of the grant, 32% as of the third anniversary of the grant and 36% as of the third anniversary of the grant, 1 addition, in 2019, there was a Special Bonus granted to the Company's CEO.

The table below summarizes grants under the outstanding stock award plans in 2020, as authorized by the Compensation Committee:

Date of grant	Plan name	Number of shares granted	Number of shares waived	Number of shares lost on performance conditions
July 25, 2017	2017 Employee Plan	7,634,475	_	<del>-</del>
December 22, 2017	2017 Employee Plan	347,160	_	_
July 24, 2018	2018 Employee Plan	7,552,410	_	<del>-</del>
December 20, 2018	2018 Employee Plan	443,200	_	_
May 23, 2019	2019 CEO Special Bonus	34,960	_	<del>-</del>
July 24, 2019	2019 Employee Plan	7,752,940	_	(1,161,966)
December 26, 2019	2019 Employee Plan	246,750	_	(17,013)
July 23, 2020	2020 Employee Plan	7,437,580	_	(*)
December 24, 2020	2020 Employee Plan	562,350	_	(*)

(\*) As at December 31, 2020, a final determination of the achievement of the performance conditions had not yet been made by the Compensation Committee of the Supervisory Board.

A summary of the unvested share activity by plan for the year ended December 31, 2020 is presented below:

Unvested Shares	Unvested as at December 31, 2019	Granted	Forfeited / waived	Cancelled on failed vesting conditions	Vested	Unvested as at December 31, 2020
2017 Employee Plan	2,648,379		(14,634)		(2,633,745)	
2018 Employee Plan	5,197,924	_	(36,912)	_	(2,442,327)	2,718,685
2019 CEO Special Bonus	_	34,960	_	_	(11,654)	23,306
2019 Employee Plan	7,977,370	_	(51,111)	(1,178,979)	(2,172,160)	4,575,120
2020 Employee Plan	_	7,999,930	(28,385)		(600)	7,970,945
Total	15,823,673	8,034,890	(131,042)	(1,178,979)	(7,260,486)	15,288,056

The grant date weighted average fair value of unvested shares granted to employees under the 2017 Employee Plan was \$16.52. On March 27, 2018, the Compensation Committee approved the statement that with respect to the shares subject to performance conditions, all three performance conditions were fully met. Consequently, the compensation expense recorded on the 2017 Employee Plan reflected the statement that – for the portion of shares subject to performance conditions – 100% of the awards granted would fully vest, as far as the service condition is met.

The grant date weighted average fair value of unvested shares granted to employees under the 2018 Employee Plan was \$22.78. On March 27, 2019, the Compensation Committee approved the statement that with respect to the shares subject to performance conditions, all three performance conditions were fully met. Consequently, the compensation expense recorded on the 2018 Employee Plan reflects the statement that – for the portion of shares subject to performance conditions – 100% of the awards granted will fully vest, as far as the service condition is met.

The grant date fair value of unvested shares granted to the CEO under the 2019 CEO Special Bonus Plan was \$14.97. On the 2019 CEO Special Bonus Plan, the fair value of the unvested shares granted reflected the market price of the shares at the date of the grant.

The grant date weighted average fair value of unvested shares granted to employees under the 2019 Employee Plan was \$19.28. On March 25, 2020, the Compensation Committee approved the statement that with respect to the shares subject to performance conditions, two performance conditions were fully met. Consequently, the compensation expense recorded on the 2019 Employee Plan reflects the statement that – for the portion of shares subject to performance conditions – two thirds of the awards granted will fully vest, as far as the service condition is met.

The grant date weighted average fair value of unvested shares granted to employees under the 2020 Employee Plan was \$30.17. Moreover, for the portion of the shares subject to performance conditions (3,605,365 shares) the Company estimated the number of awards expected to vest by assessing the probability of achieving the performance conditions. As at December 31, 2020, a final determination of the achievement of the performance conditions had not been made yet by the Compensation Committee of the Supervisory Board. The Company estimated that two thirds of the awards subject to performance conditions were expected to vest. Consequently, the compensation expense recorded for the 2020 Employee Plan reflects the vesting of the two thirds of the awards granted with performance conditions, subject to the service condition being met. The assumption of the expected number of awards to be vested upon achievement of the performance conditions is subject to changes based on the final measurement of the conditions, which is expected to occur in the first half of 2021.

The following table illustrates the classification of pre-payroll tax and social contribution stock-based compensation expense included in the consolidated statements of income for the years ended December 31, 2020, December 31, 2019 and December 31, 2018:

	December 31, 2020	December 31, 2019	December 31, 2018
Cost of sales	25	22	23
Selling, general and administrative	51	46	67
Research and development	79	77	35
Total pre-payroll tax and social contribution			
compensation	155	145	125

The fair value of the shares that vested in 2020 was \$141 million compared to \$114 million in 2019 and \$68 million in 2018

Compensation cost, excluding payroll tax and social contribution, capitalized as part of inventory was \$6 million as at December 31, 2020, compared to \$6 million as at December 31, 2019 and \$6 million as at December 31, 2018. As at December 31, 2020, there was \$182 million of total unrecognized compensation cost related to the grant of unvested shares, which is expected to be recognized over a weighted average period of approximately 9 months.

The total deferred income tax benefit recognized in the consolidated statements of income related to unvested share-based compensation expense amounted to \$10 million, \$9 million and \$7 million for the years ended December 31, 2020, 2019 and 2018, respectively.

# 18.6 Accumulated other comprehensive income (loss) attributable to parent company stockholders

The table below details the changes in AOCI attributable to the company's stockholders by component, net of tax, for the years ended December 31,2020,2019 and 2018:

	Gains (Losses) on Cash Flow Hedges	Gains (Losses) on Available- For-Sale Securities	Defined Benefit Pension Plan Items	Foreign Currency Translation Adjustments ("CTA")	Total
December 31, 2017	45		(166)	768	647
Cumulative tax impact			41		41
December 31, 2017, net of tax	45		(125)	768	688
OCI before reclassifications	(83)	(2)	(24)	(87)	(196)
Amounts reclassified from AOCI	(1)	_	11	_	10
OCI for the year ended December 31, 2018	(84)	(2)	(13)	(87)	(186)
Cumulative tax impact	4	_	3	_	7
OCI for the year ended December 31, 2018,					
net of tax	(80)	(2)	(10)	(87)	(179)
December 31, 2018	(39)	(2)	(179)	681	461
Cumulative tax impact	4		44		48
December 31, 2018, net of tax	(35)	(2)	(135)	681	509
OCI before reclassifications	(43)	3	(58)	(35)	(133)
Amounts reclassified from AOCI	79	_	14	_	93
OCI for the year ended December 31, 2019	36	3	(44)	(35)	(40)
Cumulative tax impact	(4)	_	10	_	6
OCI for the year ended December 31, 2019,					
net of tax	32	3	(34)	(35)	(34)
December 31, 2019	(3)	1	(223)	646	421
Cumulative tax impact	_	_	54	_	54
December 31, 2019, net of tax	(3)	1	(169)	646	475
OCI before reclassifications	64		(22)	203	245
Amounts reclassified from AOCI	_	_	14	_	14
OCI for the year ended December 31, 2020	64	_	(8)	203	259
Cumulative tax impact	(8)	_	(3)	_	(11)
OCI for the year ended December 31, 2020,					
net of tax	56		(11)	203	248
December 31, 2020	61	1	(231)	849	680
Cumulative tax impact	(8)		51		43
December 31, 2020, net of tax	53	1	(180)	849	723

Items reclassified out of Accumulated Other Comprehensive Income for the years ended December 31, 2020, 2019 and 2018 are listed in the table below:

Details about AOCI components Gains (Losses) on Cash Flow	Amounts reclassified from AOCI in the year ended December 31, 2020	Amounts reclassified from AOCI in the year ended December 31, 2019	Amounts reclassified from AOCI in the year ended December 31, 2018	Affected line item in the statement where net income (loss) is presented
Hedges				
Foreign exchange derivative contracts	(3)	(51)	4	Cost of sales
Foreign exchange derivative contracts	1	(6)	(1)	Selling, general and administrative
Foreign exchange derivative contracts	2	(22)	(2)	Research and development
	<u> </u>	10		Income tax benefit (expense)
	_	(69)	1	Net of tax
Defined Benefit Pension Plan Items				
Amortization of actuarial gains				
(losses)	(13)	(13)	(10)	Other components of pension benefit costs
Amortization of prior service cost	(1)	(1)	(1)	Other components of pension benefit costs
	3	3	2	Income tax benefit (expense)
	(11)	(11)	(9)	Net of tax
Total reclassifications for the year	(11)	(80)	(8)	
Attributable to noncontrolling interest		_	_	
Attributable to the parent company stockholders	(11)	(80)	(8)	

#### 18.7 Dividends

The Annual General Meeting of Shareholders held on June 17, 2020 authorized the distribution of a cash dividend of \$0.168 per outstanding share of the Company's common stock, to be distributed in quarterly installments of \$0.042 in each of the second, third and fourth quarters of 2020 and first quarter of 2021. The amount of \$37 million corresponding to the first installment, \$38 million corresponding to the second installment and \$34 million corresponding to the third installment were paid as at December 31, 2020. The remaining portion of \$4 million related to the third installment and the last installment of \$38 million are presented in the line "Dividends payable to stockholders" in the consolidated balance sheet as at December 31, 2020.

The Annual General Meeting of Shareholders held on May 31, 2019 authorized the distribution of a cash dividend of \$0.24 per outstanding share of the Company's common stock, to be distributed in quarterly installments of \$0.06 in each of the second, third and fourth quarters of 2019 and first quarter of 2020. The amount of \$53 million corresponding to the first installment, \$53 million corresponding to the third installment and \$48 million corresponding to the third installment were paid as at December 31, 2019. The remaining portion of \$6 million related to the third installment and the last installment of \$53 million were paid in the first half of 2020.

The Annual General Meeting of Shareholders held on May 31, 2018 authorized the distribution of a cash dividend of \$0.24 per outstanding share of the Company's common stock, to be distributed in quarterly installments of \$0.06 in each of the second, third and fourth quarters of 2018 and first quarter of 2019. The amount of \$54 million corresponding to the first installment, \$54 million corresponding to the third installment amounting to \$6 million and the fourth installment of \$54 million were paid in the first half of 2019.

The Annual General Meeting of Shareholders held on June 20, 2017 authorized the distribution of a cash dividend of \$0.24 per outstanding share of the Company's common stock, to be distributed in quarterly installments of \$0.06 in each of the second, third and fourth quarters of 2017 and first quarter of 2018. The amount of \$53 million corresponding to the first installment, \$53 million corresponding to the third installment amounting to \$7 million and the last installment of \$53 million were paid in the first half of 2018.

#### 19. REVENUES

# 19.1 Nature of goods and services

The Company designs, develops, manufactures and markets a broad range of products, including discrete and standard commodity components, application-specific integrated circuits ("ASICs"), full-custom devices and semi-custom devices and application specific standard products ("ASSPs") for analog, digital and mixed-signal applications. In addition, the Company participates in the manufacturing value chain of smartcard products, which includes the production and sale of both silicon chips and smartcards.

The principal activities – separated by reportable segments – from which the Company generates its revenues are described in Note 20.

Other revenues consist of license revenue, service revenue related to transferring licenses, patent royalty income, sale of scrap materials and manufacturing by-products.

While the majority of the Company's sales agreements contain standard terms and conditions, the Company may, from time to time, enter into agreements that contain multiple performance obligations or terms and conditions. Those agreements concern principally the revenues from services, where the performance obligation is satisfied over time. The objective when allocating the transaction price is to allocate the transaction price to each performance obligation (or distinct good or service) in an amount that depicts the amount of consideration to which the Company expects to be entitled in exchange for transferring the promised goods or services to the customer.

### 19.2 Revenue recognition and disaggregation

The Company recognizes revenue from products sold to a customer, including distributors, when it satisfies a performance obligation at a point in time by transferring control over a product to the customer. This usually occurs at the time of shipment. The performance obligations linked to the sale of goods contracts have the original expected length of less than one year. The transaction price is determined based on the contract terms, adjusted for price protection, if applicable. The revenues from services are usually linked to performance obligations transferred over time and are recognized in line with the contract terms.

The payment terms typically range between 30 and 90 days.

The Company's consolidated net revenues disaggregated by product group are presented in Note 20. The following tables present the Company's consolidated net revenues disaggregated by geographical region of shipment and nature.

		Year ended			
	December 31, 2020	December 31, 2019	December 31, 2018		
Net revenues by geographical region of shipment(1)					
EMEA	1,966	2,265	2,478		
Americas	1,165	1,351	1,264		
Asia Pacific	7,088	5,940	5,922		
Total revenues	10,219	9,556	9,664		
Net revenues by nature	<del></del>				
Revenues from sale of products	10,049	9,381	9,461		
Revenues from sale of services	132	148	151		
Other revenues	38	27	52		
Total revenues	10,219	9,556	9,664		
Net revenues by market channel(2)					
Original Equipment Manufacturers ("OEM")	7,411	6,720	6,325		
Distribution	2,808	2,836	3,339		
Total revenues	10,219	9,556	9,664		

- (1) Net revenues by geographical region of shipment are classified by location of customer invoiced or reclassified by shipment destination in line with customer demand. For example, products ordered by U.S.-based companies to be invoiced to Asia Pacific affiliates are classified as Asia Pacific revenues.
- (2) Original Equipment Manufacturers ("OEM") are the end-customers to which the Company provides direct marketing application engineering support, while Distribution customers refers to the distributors and representatives that the Company engages to distribute its products around the world.

The Company does not disclose the value of unsatisfied performance obligations for (i) contracts with an original expected length of one year or less and (ii) contracts for which the Company recognizes revenue at the amount to which the Company has the right to invoice for services performed.

#### 20. SEGMENT INFORMATION

The Company designs, develops, manufactures and markets a broad range of products, including discrete and standard commodity components, application-specific integrated circuits ("ASICs"), full custom devices and semi-custom devices and application-specific standard products ("ASSPs") for analog, digital, and mixed-signal applications. In addition, the Company further participates in the manufacturing value chain of smartcard products, which includes the production and sale of both silicon chips and smartcards.

The Company's reportable segments are as follows:

- Automotive and Discrete Group (ADG), comprised of dedicated automotive ICs, and discrete and power transistor products.
- Analog, MEMS and Sensors Group (AMS), comprised of analog, smart power, low power RF, MEMS sensors and actuators, and optical sensing solutions.
- Microcontrollers and Digital ICs Group (MDG), comprised of microcontrollers (general purpose and secure), memories (RF and EEPROM), and RF communications.

For the computation of the segments' internal financial measurements, the Company uses certain internal rules of allocation for the costs not directly chargeable to the segments, including cost of sales, selling, general and administrative expenses and a part of research and development expenses. In compliance with the Company's internal policies, certain costs are not allocated to the segments, but reported in "Others". Those comprise unused capacity charges, including reduced manufacturing activity due to COVID-19, impairment, restructuring charges and other related closure costs, management reorganization expenses, phase-out and start-up costs of certain manufacturing facilities, and other unallocated expenses such as: strategic or special research and

development programs, certain corporate-level operating expenses, patent claims and litigations, and other costs that are not allocated to product groups, as well as operating earnings of other products. In addition, depreciation and amortization expense is part of the manufacturing costs allocated to the segments and is neither identified as part of the inventory variation nor as part of the unused capacity charges; therefore, it cannot be isolated in the costs of goods sold. Finally, R&D grants are allocated to the Company's segments proportionally to the incurred R&D expenses on the sponsored projects.

Wafer costs are allocated to the segments based on actual cost. From time to time, with respect to specific technologies, wafer costs are allocated to segments based on market price.

The following tables present the Company's consolidated net revenues and consolidated operating income by reportable segment.

Net revenues by reportable segment:

	December 31, 2020	December 31, 2019	December 31, 2018
Automotive and Discrete Group (ADG)	3,284	3,606	3,556
Analog, MEMS and Sensors Group (AMS)	3,892	3,299	3,154
Microcontrollers and Digital ICs Group (MDG)	3,030	2,638	2,940
Total net revenues of product segments	10,206	9,543	9,650
Others	13	13	14
Total consolidated net revenues	10,219	9,556	9,664

Operating income by reportable segment:

	December 31, 2020	December 31, 2019	December 31, 2018
Automotive and Discrete Group (ADG)	182	357	431
Analog, MEMS and Sensors Group (AMS)	810	596	488
Microcontrollers and Digital ICs Group (MDG)	504	354	547
Total operating income of product segments	1,496	1,307	1,466
Others(1)	(173)	(104)	(66)
Total consolidated operating income	1,323	1,203	1,400

Operating income (loss) of "Others" includes items such as unused capacity charges, including reduced manufacturing activity due to COVID-19, impairment, restructuring charges and other related closure costs, management reorganization costs, phase out and start-up costs of certain manufacturing facilities, and other unallocated expenses such as: strategic or special research and development programs, certain corporate-level operating expenses, patent claims and litigations, and other costs that are not allocated to product groups, as well as operating earnings of other products.

Reconciliation of operating income of segments to the total operating income:

	December 31, 2020	December 31, 2019	December 31, 2018
Total operating income of segments	1,496	1,307	1,466
Impairment, restructuring charges and			
other related closure costs	(11)	(5)	(21)
Unused capacity charges	(153)	(65)	(1)
Other unallocated manufacturing results	(8)	(25)	2
Gain on sale of non-current assets	11	6	1
Strategic and other research and development			
programs and other non-allocated provisions(1)	(12)	(15)	(47)
Total operating loss Others	(173)	(104)	(66)
Total consolidated operating income	1,323	1,203	1,400

<sup>(1)</sup> Includes unallocated income and expenses such as certain corporate-level operating expenses and other income (costs) that are not allocated to the product segments.

The following is a summary of operations by entities located within the indicated geographic areas for 2020, 2019 and 2018. Net revenues represent sales to third parties from the country in which each legal entity is incorporated. Long-lived assets consist of property, plant and equipment, net (PP&E, net). A significant portion of property, plant and equipment expenditures is attributable to front-end and backend facilities, located in the different countries in which the Company operates. As such, the Company mainly allocates capital spending resources according to geographic areas rather than along product segment areas.

#### Net revenues

	December 31, 2020	December 31, 2019	December 31, 2018
Netherlands	2,795	2,842	2,917
France	89	108	127
Italy	52	59	64
USA	976	1,157	1,132
Singapore	5,817	4,857	4,873
Japan	479	520	534
Other countries	11	13	17
Total	10,219	9,556	9,664

## Property, plant and equipment

	December 31, 2020	December 31, 2019
Netherlands	1,046	897
France	905	726
Italy	1,213	900
Other European countries	118	117
USA	24	25
Singapore	604	670
Malaysia	186	218
Other countries	500	454
Total	4,596	4,007

## 21. OTHER INCOME AND EXPENSES, NET

Other income and expenses, net consisted of the following:

	Year ended December 31, 2020		Year ended ecember 31, 2019	Year ended December 31, 2018
Research and development funding		231	132	52
Phase-out and start-up costs		(8)	(38)	(1)
Exchange gains and losses, net		8	_	4
Patent costs		(11)	(1)	(8)
Gain on sale of non-current assets		14	7	8
COVID-19 incremental costs		(32)	_	_
Other, net		_	3	(2)
Total	· · · · · · · · · · · · · · · · · · ·	202	103	53

The Company receives significant public funding from governmental agencies in several jurisdictions. Public funding for research and development is recognized ratably as the related costs are incurred once the agreement with the respective governmental agency has been signed and all applicable conditions have been met. R&D funding received in the year ended December 31, 2017 from the Nano2017 program with the French government is subject to a financial return in the year 2024 and depends on the future cumulative sales of a certain product group over a five-year period. As such, the criteria for recognizing the grant income are not met. As at December 31, 2020, an amount of \$42 million, corresponding primarily to the Nano2017 program, was reported as a liability in the consolidated balance sheet, compared to an amount of \$47 million as at December

31, 2019. The Company also participates in the European Commission's Important Projects of Common Interests (IPCEI), until 2022 in France and until 2024 in Italy. For the latter, the Company reported \$206 million receivables, of which \$105 million reported on the line "Other current assets" in the consolidated balance sheet for the year ended December 31, 2020.

Phase-out costs are costs incurred during the closing stage of a Company's manufacturing facility. They are treated in the same manner as start-up costs. Start-up costs represent costs incurred in the start-up and testing of the Company's new manufacturing facilities, before reaching the earlier of a minimum level of production or six months after the fabrication line's quality certification.

Exchange gains and losses, net represent the portion of exchanges on transactions denominated in currencies other than an entity's functional currency and the changes in fair value of derivative instruments which are not designated as hedges and which have a cash flow effect related to operating transactions, as described in Note 28.

Patent costs include legal and attorney fees and payment for claims, patent pre-litigation consultancy and legal fees. They are reported net of settlements, if any, which primarily include reimbursements of prior patent litigation costs.

COVID-19 incremental costs are mainly composed of purchases of medical disposables, such as masks and sanitizers, and other expenses related to sanitary measures undertaken to protect employees during the COVID-19 pandemic.

## 22. IMPAIRMENT, RESTRUCTURING CHARGES AND OTHER RELATED CLOSURE COSTS

Impairment, restructuring charges and other related closure costs incurred in 2020, 2019 and 2018 are summarized as follows:

Year ended December 31, 2020 Set-top Box restructuring plan	Impairment	Restructuring charges	Other related closure costs	Total impairment, restructuring charges and other related closure costs
Bouskoura restructuring plan	_	(8)	_	(8)
Long-lived asset impairment charge	(4)		_	(4)
Total	(4)	(7)		(11)
Year ended December 31, 2019 Set-top Box restructuring plan	Impairment	Restructuring charges 2	Other related closure costs —	Total impairment, restructuring charges and other related closure costs
Long-lived asset impairment charge	(7)			(7)
Total	(7)	2		(5)
		Restructuring	Other related	Total impairment, restructuring charges and other related
Year ended December 31, 2018	Impairment	charges	Other related closure costs	impairment, restructuring charges and other related closure costs
Set-top Box restructuring plan	_			impairment, restructuring charges and other related closure costs
		charges		impairment, restructuring charges and other related closure costs

#### Impairment charges

In 2020, the Company recorded a \$4 million impairment charge, primarily on licenses dedicated exclusively to certain development projects that were cancelled, while no alternative future use was identified internally

In 2019, the Company recorded a \$7 million impairment charge, primarily on equipment or licenses dedicated exclusively to certain development projects that were cancelled, while no alternative future use was identified internally.

In 2018, the Company recorded a \$2 million impairment charge on acquired technologies for which it was determined that they had no alternative future use.

During the third quarter of 2020, 2019 and 2018 the Company conducted its annual impairment test, which did not result in any significant impairment loss.

# Restructuring charges and other related closure costs

Changes to the restructuring provisions recorded on the consolidated balance sheets from December 31, 2018 to December 31, 2020 are summarized as follows:

	Set-top Box restructuring plan	Bouskoura restructuring plan	Other restructuring initiatives	Total
Provision as at December 31, 2018	34	_	1	35
Adjustment for unused provisions	(2)			(2)
Amounts paid	(20)	_	(1)	(21)
Currency translation effect	(1)	_	_	(1)
Provision as at December 31, 2019	11			11
Charges incurred in 2020		8		8
Adjustment for unused provisions	(1)	_	_	(1)
Amounts paid	(6)	(8)	_	(14)
Provision as at December 31, 2020	4			4

## Set-top Box restructuring plan

In 2016, the Company announced its decision to cease the development of new platforms and standard products for set-top-box and home gateway products. This decision resulted in a global workforce review affecting approximately 1,400 employees worldwide, which included about 430 employees in France through a voluntary departure plan, about 670 employees in Asia and about 120 employees in the United States of America. The Company recorded in 2020 and 2019 a \$1 million and \$2 million, respectively, as a reversal on unused provision. The Company recorded \$19 million restructuring charges for this plan in 2018

An amount of \$4 million is expected to be paid within twelve months, as detailed in Note 14.

The Set-top Box restructuring plan was expected to result in pre-tax charges of approximately \$170 million. Since inception, restructuring charges, totaling \$132 million, were incurred as at December 31, 2020. The plan was substantially completed in 2018 in all locations. The Company still incurs payments related to the voluntary plan in France.

## Bouskoura restructuring plan

In the fourth quarter of 2019, management committed to a restructuring plan impacting its back-end activities. A voluntary plan involving a reduction in force representing approximately 150 employees was announced in Bouskoura, Morocco, in December 2019, in compliance with local legislation. The Company recorded in 2020 a restructuring charge totaling \$8 million for this plan, corresponding to the voluntary termination benefits to be paid to 179 employees who signed the offer for voluntary leave in 2020.

The Bouskoura restructuring plan was expected to result in pre-tax charges of approximately \$7 million. It has been substantially completed at the end of 2020.

In 2020, total amounts paid for restructuring and related closure costs amounted to \$14 million. The total actual costs that the Company will incur may differ from these estimates based on the timing required to complete the restructuring plan, the number of people involved, the final agreed termination benefits and the costs associated with the transfer of equipment, products and processes.

## 23. INTEREST INCOME (EXPENSE), NET

Interest income (expense), net consisted of the following:

	Year ended December 31, 2020	Year ended December 31, 2019	Year ended December 31, 2018
Income	34	55	47
Expense	(54)	(54)	(54)
Total	(20)	1	(7)

Interest income is related to cash and cash equivalents, short-term deposits and marketable securities held by the Company.

Interest expense recorded in 2020 included a charge of \$36 million on the senior unsecured convertible bonds issued on July 3, 2017 and a charge of \$9 million on the senior unsecured convertible bonds issued on August 4, 2020, of which \$42 million was a non-cash interest expense resulting from the accretion of the discount on the liability component. Interest expense recorded in 2019 and 2018 included a charge of 39 million and \$38 million, respectively, on the senior unsecured convertible bonds issued on July 3, 2017, of which \$37 million and \$36 million, respectively, was a non-cash interest expense resulting from the accretion of the discount on the liability component. Net interest also included charges related to the banking fees and the sale of trade and other receivables.

No borrowing cost was capitalized in 2020, 2019 and 2018. Interest income on U.S. Treasury Bonds classified as available-for-sale marketable securities amounted to \$3 million for the year ended December 31, 2020, \$6 million for the year ended December 31, 2018.

# 24. INCOME TAX

Income (loss) before income tax is comprised of the following:

	Year ended December 31, 2020	Year ended December 31, 2019	Year ended December 31, 2018
Income (loss) recorded in the Netherlands	(19)	(9)	(13)
Income (loss) from foreign operations	1,286	1,198	1,402
Income (loss) before income tax benefit (expense)	1,267	1,189	1,389

STMicroelectronics N.V. and its subsidiaries are individually liable for income taxes in their jurisdictions. Tax losses can only offset profits generated by the taxable entity incurring such loss.

Income tax benefit (expense) is comprised of the following:

	Year ended December 31, 2020	Year ended December 31, 2019	Year ended December 31, 2018
The Netherlands taxes - current			_
Foreign taxes - current	(171)	(131)	(114)
Total current taxes	(171)	(131)	(114)
The Netherlands taxes - deferred	_	_	_
Foreign taxes - deferred	12	(25)	18
Total deferred taxes	12	(25)	18
Income tax expense	(159)	(156)	(96)
Effective tax rate	13%	13%	7%
	·		

The principal items comprising the differences in income taxes computed at the Netherlands statutory rate of 25.0% in 2020, 2019 and 2018, and the effective income tax rate are the following:

	Year ended December 31, 2020	Year ended December 31, 2019	Year ended December 31, 2018
Income tax benefit (expense) computed at			
statutory rate	(316)	(297)	(353)
Non-deductible and non-taxable permanent			
differences, net	(1)	4	45
Valuation allowance adjustments	11	2	141
Effect on deferred taxes of changes in enacted			
tax rates	(5)	14	(62)
Current year credits	40	50	43
Other tax and credits	(40)	(51)	(20)
Benefits from tax holidays	37	129	135
Net impact of changes to uncertain tax positions	(1)	(5)	(16)
Earnings of subsidiaries taxed at different rates	116	(2)	(9)
Income tax benefit (expense)	(159)	(156)	(96)

The tax holidays represent a tax exemption period aimed to attract foreign technological investment in certain tax jurisdictions. The effect of the tax benefits, from tax holidays for countries which are profitable, on basic earnings per share was \$0.04, \$0.14 and \$0.15 for the years ended December 31, 2020, 2019, and 2018, respectively. These agreements are present in various countries and include programs that reduce up to and including 100% of taxes in years affected by the agreements. The Company's tax holidays expire at various dates through the year ending December 31, 2029. In certain countries, tax holidays can be renewed depending on the Company still meeting certain conditions at the date of expiration of the current tax holidays.

Deferred tax assets and liabilities consisted of the following:

	December 31, 2020	December 31, 2019
Tax loss carryforwards and investment credits	702	612
Less unrecognized tax benefit	(19)	(21)
Tax loss carryforwards net of unrecognized tax	· '	
benefit	683	591
Inventory valuation	34	28
Impairment and restructuring charges	3	6
Fixed asset depreciation in arrears	82	39
Increased depreciation incentives	182	213
Capitalized development costs	107	118
Receivables for government funding	40	14
Tax credits granted on past capital investments	215	1,151
Pension service costs	104	81
Stock awards	11	6
Operating lease liabilities	36	40
Commercial accruals	13	15
Other temporary differences	26	22
Total deferred tax assets	1,536	2,324
Valuation allowances	(638)	(1,534)
Deferred tax assets, net	898	790
Accelerated fixed asset depreciation	(21)	(20)
Acquired intangible assets	(40)	(16)
Advances of government funding	(94)	(31)
Operating lease right-of-use assets	(36)	(40)
Other temporary differences	(43)	(7)
Deferred tax liabilities	(234)	(114)
Net deferred income tax asset	664	676

For a particular tax-paying component of the Company and within a particular tax jurisdiction, all current deferred tax liabilities and assets are offset and presented as a single amount, similarly to non-current deferred tax liabilities and assets. The Company does not offset deferred tax liabilities and assets attributable to different tax-paying components or to different tax jurisdictions.

The net deferred tax assets are recorded in legal entities which have been historically profitable and are expected to be profitable in the next coming years.

As at December 31, 2020, the Company and its subsidiaries have gross deferred tax assets on tax loss carryforwards and investment credits that expire starting 2021, as follows:

Year	
2021	4
2022	7
2023	5
2024	4
2025	13
2023 2024 2025 Thereafter	669
Total	702

The "Tax credits granted on past capital investments" mainly related to a 2003 agreement granting the Company certain tax credits for capital investments purchased through the year ending December 31, 2006. Any unused tax credits granted under the agreement will be impacted yearly by a legal inflationary index (currently -0.15% per annum). The credits may be utilized through 2021 or later depending on the Company meeting certain program criteria. In addition to this agreement, starting in 2007 the Company continues to receive tax credits on the yearly capital investments, which may be used to offset that year's tax liabilities and increases by the legal inflationary rate. However, pursuant to the inability to utilize these credits currently and in future years, the Company did not recognize any deferred tax asset on such tax allowance. As a result, there is no financial impact to the net deferred tax assets of the Company.

In 2020, we recognized a deferred tax expense of \$11 million as a component of other comprehensive income (loss), compared to a deferred tax gain of \$6 million in 2019. They were related primarily to the tax effects of the recognized unfunded status on defined benefits plan.

The cumulative amount of distributable earnings related to the Company's investments in foreign subsidiaries and corporate joint ventures was \$3,783 million and \$3,628 million as at December 31, 2020 and December 31, 2019, respectively. Due to the Company's legal and tax structure, with the parent company established in the Netherlands, there was no significant tax impact from the distribution of earnings from investments in foreign subsidiaries and corporate joint ventures. This is because there is no tax impact on dividends paid up to a Dutch holding company.

A reconciliation of 2020, 2019 and 2018 beginning and ending amounts of unrecognized tax benefits is as follows:

	December 31, 2020	December 31, 2019	December 31, 2018
Balance at beginning of year	48	38	333
Additions based on tax positions related to the			
current year	1	7	43
Additions based on acquisitions related to the			
current year	_	5	_
Additions for tax positions of prior years	1	1	8
Reduction for tax positions of prior years	(2)	(1)	(310)
Settlements	(1)	(2)	(18)
Foreign currency translation	1	_	(18)
Balance at end of year	48	48	38

At December 31, 2020 and 2019, \$19 million and \$21 million, respectively, of unrecognized tax benefits were classified as a reduction of deferred tax assets. It is reasonably possible that certain of the uncertain tax positions disclosed in the table above could increase within the next 12 months due to ongoing tax audits. The Company is not able to make an estimate of the range of the reasonably possible change.

Additionally, the Company elected to classify accrued interest and penalties related to uncertain tax positions as components of income tax expense in the consolidated statements of income. They were less than \$1 million in 2020, less than \$1 million in 2019 and \$1 million in 2018. Accrued interest and penalties amounted to \$7 million as at December 31, 2020 and \$6 million as at December 31, 2019.

The tax years that remain open for review in the Company's major tax jurisdictions, including France, Italy, United States and India, are from 1997 to 2020.

## 25. EARNINGS PER SHARE

For the years ended December 31, 2020, 2019 and 2018, earnings per share ("EPS") was calculated as follows:

	Year ended December 31, 2020	Year ended December 31, 2019	Year ended December 31, 2018
Basic EPS			
Net income attributable to parent company	1,106	1,032	1,287
Weighted average shares outstanding	894,578,477	894,297,697	899,363,170
Basic EPS	1.24	1.15	1.43
Diluted EPS			
Net income attributable to parent company	1,106	1,032	1,287
Weighted average shares outstanding	894,578,477	894,297,697	899,363,170
Dilutive effect of stock awards	8,860,216	7,014,595	7,251,641
Dilutive effect of convertible debt	16,291,279	2,333,493	4,341,334
Number of shares used in calculating diluted EPS	919,729,972	903,645,785	910,956,145
Diluted EPS	1.20	1.14	1.41

In application of the treasury method implying that the Company intends to settle the convertible bonds on a net-share basis, there was no dilutive effect of the senior unsecured convertible bonds issued on August 4, 2020 in the 2020 diluted Earnings per Share since the conversion features were out-of-the-money. Dilutive effect of convertible bonds presented in the table above is related to the senior unsecured convertible bonds issued on July 3, 2017.

The dilutive effect of the convertible bonds is measured based on the treasury method according to which the dilutive effect of the convertible bonds is included in the denominator of diluted EPS for the amount of shares transferred assuming a net-share settlement. Based on the stock price measured as at December 31, 2020 (\$37.12), the consideration transferred to bondholders of the Tranche B of the convertible bonds issued on July 3, 2017, if converted, would exceed the \$750 million principal amount by \$605 million.

## 26. COMMITMENTS

The Company's commitments as at December 31, 2020 were as follows:

In millions of U.S. dollars	Total	2021	2022	2023	2024	2025	Thereafter
Purchase obligations	1,978	1,488	237	124	68	61	
of which:							
Equipment purchase	916	916	_	_	_	_	_
Foundry purchase	935	475	216	119	64	61	_
Software, design, technologies and licenses	127	97	21	5	4	_	_
Other obligations	869	452	120	62	83	62	90
Total	2,847	1,940	357	186	151	123	90

Purchase obligations are primarily comprised of purchase commitments for equipment, for outsourced foundry wafers and for software licenses.

Other obligations primarily relate to firm contractual commitments with respect to partnership and cooperation agreements and other service agreements.

## 27. CONTINGENCIES, CLAIMS AND LEGAL PROCEEDINGS

The Company is subject to possible loss contingencies arising in the ordinary course of business. These include but are not limited to: product liability claims and/or warranty cost on the products of the Company, contractual disputes, indemnification claims, claims for unauthorized use of third-party intellectual property, employee grievances, tax claims beyond assessed uncertain tax positions as well as claims for environmental damages. In determining loss contingencies, the Company considers the likelihood of impairing an asset or the incurrence of a liability at the date of the consolidated financial statements as well as the ability to reasonably estimate the

amount of such loss. The Company records a provision for a loss contingency when information available before the consolidated financial statements are issued or are available to be issued indicates that it is probable that an asset has been impaired or a liability has been incurred at the date of the consolidated financial statements and when the amount of loss can be reasonably estimated. The Company regularly re-evaluates claims to determine whether provisions need to be readjusted based on the most current information available to the Company. Changes in these evaluations could result in an adverse material impact on the Company's results of operations, cash flows or its financial position for the period in which they occur.

The Company has received and may in the future receive communications alleging possible infringements of third-party patents or other third-party intellectual property rights. Furthermore, the Company from time to time enters into discussions regarding a broad patent cross license arrangement with other industry participants. There is no assurance that such discussions may be brought to a successful conclusion and result in the intended agreement. The Company may become involved in costly litigation brought against the Company regarding patents, mask works, copyrights, trademarks or trade secrets. In the event that the outcome of any litigation would be unfavorable to the Company may be required to take a license to third party patents and/or other intellectual property rights at economically unfavorable terms and conditions, and possibly pay damages for prior use and/or face an injunction, all of which individually or in the aggregate could have a material adverse effect on the Company's results of operations, cash flows, financial position and/or ability to compete.

The Company has contractual commitments to various customers which could require the Company to incur costs to repair or replace defective products it supplies to such customer. The duration of these contractual commitments varies and, in certain cases, is indefinite. The Company is otherwise also involved in various lawsuits, claims, inquiries, inspections, investigations and/or proceedings incidental to its business and operations. Such matters, even if not meritorious, could result in the expenditure of significant financial or managerial resources. Any of the foregoing could have a material adverse effect on the Company's results of operations, cash flows or its financial position.

The Company regularly evaluates claims and legal proceedings together with their related probable losses to determine whether they need to be adjusted based on the current information available to the Company. There can be no assurance that its recorded reserves will be sufficient to cover the extent of its potential liabilities. Legal costs associated with claims are expensed as incurred. In the event of litigation which is adversely determined with respect to the Company's interests, or in the event the Company needs to change its evaluation of a potential third-party claim, based on new evidence or communications, a material adverse effect could impact its operations or financial condition at the time it were to materialize.

As at December 31, 2020 and 2019, respectively, provisions for estimated probable losses with respect to claims and legal proceedings were not considered material.

### 28. FINANCIAL INSTRUMENTS AND RISK MANAGEMENT

### 28.1 Financial risk factors

The Company is exposed to changes in financial market conditions in the normal course of business due to its operations in different foreign currencies and its ongoing investing and financing activities. The Company's activities expose it to a variety of financial risks: market risk (including foreign exchange risk, fair value interest rate risk, cash flow interest rate risk and price risk), credit risk and liquidity risk. The Company's overall risk management program focuses on the unpredictability of financial markets and seeks to minimize potential adverse effects on the Company's financial performance. The Company uses derivative financial instruments to hedge certain risk exposures.

Financial risk management is carried out by a central treasury department (Corporate Treasury). Additionally, a Treasury Committee, chaired by the CFO, steers treasury activities and ensures compliance with corporate policies. Treasury activities are thus regulated by the Company's policies, which define procedures, objectives and controls. The policies focus on the management of financial risk in terms of exposure to market risk, credit risk and liquidity risk. Treasury controls are subject to internal audits. Most treasury activities are centralized, with any local treasury activities subject to oversight from Corporate Treasury identifies, evaluates and hedges financial risks in close cooperation with the Company's operating units. It provides written principles for overall risk management, as well as written policies covering specific areas, such as foreign exchange risk, interest rate risk, price risk, use of derivative financial instruments, and

investments of excess liquidity. The majority of cash and cash equivalents is held in U.S. dollars and Euros and is placed with financial institutions rated at least a single "A" long-term rating from two of the major rating agencies, meaning at least A3 from Moody's Investor Service and A- from Standard & Poor's and Fitch Ratings, or better. These ratings are closely and continuously monitored in order to manage exposure to the counterparty's risk. Hedging transactions are performed only to hedge exposures deriving from operating, investing and financing activities conducted in the normal course of business.

#### Market risk

Foreign exchange risk

The Company conducts its business on a global basis in various major international currencies. As a result, the Company is exposed to adverse movements in foreign currency exchange rates, primarily with respect to the Euro. Foreign exchange risk mainly arises from recognized assets and liabilities at the Company's subsidiaries and future commercial transactions.

Management has set up a policy to require the Company's subsidiaries to hedge their entire foreign exchange risk exposure with the Company through financial instruments transacted or overseen by Corporate Treasury. To manage their foreign exchange risk arising from foreign-currency-denominated assets and liabilities, subsidiaries use forward contracts and purchased currency options. Foreign exchange risk arises when recognized assets and liabilities are denominated in a currency that is not the entity's functional currency. These instruments do not qualify as hedging instruments for accounting purposes. Forward contracts and currency options, including collars, are also used by the Company to reduce its exposure to U.S. dollar fluctuations in Euro-denominated forecasted intercompany transactions that cover a large part of its research and development, selling, general and administrative expenses as well as a portion of its front-end manufacturing costs of semi-finished goods. The Company also hedges through the use of currency forward contracts certain Singapore dollar-denominated manufacturing foreasted transactions. The derivative instruments used to hedge these forecasted transactions meet the criteria for designation as cash flow hedge. The hedged forecasted transactions have a high probability of occurring for hedge accounting purposes.

It is the Company's policy to have the foreign exchange exposures in all the currencies hedged month by month against the monthly standard rate. At each month end, the forecasted flows for the coming month are hedged together with the fixing of the new standard rate. For this reason, the hedging transactions will have an exchange rate very close to the standard rate at which the forecasted flows will be recorded on the following month. As such, the foreign exchange exposure of the Company, which consists in the balance sheet positions and other contractually agreed transactions, is always close to zero and any movement in the foreign exchange rates will not therefore influence the exchange effect on items of the consolidated statement of income. Any discrepancy from the forecasted values and the actual results is constantly monitored and prompt actions are taken, if needed.

Derivative Instruments Not Designated as a Hedge

The Company enters into foreign currency forward contracts to reduce its exposure to changes in exchange rates and the associated risk arising from the denomination of certain assets and liabilities in foreign currencies in the Company's subsidiaries. These include receivables from international sales by various subsidiaries, payables for foreign currency-denominated purchases and certain other assets and liabilities arising from intercompany transactions.

The notional amount of these financial instruments totaled \$897 million, \$575 million and \$376 million at December 31, 2020, 2019 and 2018, respectively. The principal currencies covered at the end of the year 2020 are the Euro, the Singapore dollar, the Swedish krona, the China Yuan Renminbi, the Swiss franc, the Moroccan dirham, the Japanese yen, the Malaysian ringgit, the Indian rupee, the Philippines peso, the South Korean won and the Taiwan dollar.

The risk of loss associated with forward contracts is equal to the exchange rate differential from the time the contract is entered into until the time it is settled. The risk of loss associated with purchased currency options is equal to the premium paid when the option is not exercised.

Foreign currency forward contracts not designated as cash flow hedge outstanding as at December 31, 2020 have remaining terms of 4 days to 181 days, maturing on average after 42 days.

# Derivative Instruments Designated as a Hedge

To further reduce its exposure to U.S. dollar exchange rate fluctuations, the Company hedges through the use of currency forward contracts and currency options, including collars, certain Euro-denominated forecasted intercompany transactions that cover at year-end a large part of its research and development, selling, general and administrative expenses, as well as a portion of its front-end manufacturing costs of semi-finished goods within cost of sales. The Company also hedges through the use of currency forward contracts certain manufacturing transactions within cost of sales denominated in Singapore dollars

The principles regulating the hedging strategy for derivatives designated as cash flow hedge are established as follows: (i) for R&D and corporate costs, up to 80% of the total forecasted transactions; (ii) for manufacturing costs, up to 70% of the total forecasted transactions. In order to follow a dynamic hedge strategy, the Company may change the percentage of the designated hedged item within the limit of 100% of the forecasted transaction. The maximum length of time over which the Company could hedge its exposure to the variability of cash flows for forecasted transactions is 24 months.

For the year ended December 31, 2020, the Company recorded an increase in cost of sales of \$3 million and a decrease in operating expenses of \$3 million, related to the realized losses and gains incurred on such hedged transactions. For the year ended December 31, 2019, the Company recorded an increase in cost of sales of \$51 million and an increase in operating expenses of \$28 million, related to the realized losses incurred on such hedged transactions. For the year ended December 31, 2018, the Company recorded a decrease in cost of sales of \$4 million and an increase in operating expenses of \$3 million, related to the realized gains and losses incurred on such hedged transactions.

The notional amount of foreign currency forward contracts and currency options, including collars, designated as cash flow hedge totaled \$1,502 million, \$1,328 million and \$1,597 million at December 31, 2020, 2019 and 2018, respectively. The forecasted transactions hedged at December 31, 2020 were determined to have a high probability of occurring.

As at December 31, 2020, \$61 million of deferred gains on derivative instruments included in "Accumulated other comprehensive income (loss)" in the consolidated statements of equity were expected to be reclassified as earnings during the next 12 months based on the monthly forecasted research and development expenses, corporate costs and semi-finished manufacturing costs. Foreign currency forward contracts and collars designated as cash flow hedge outstanding as at December 31, 2020 have remaining terms of 6 days to 11 months, maturing on average after 118 days.

As at December 31, 2020, the Company had the following outstanding derivative instruments that were entered into to hedge Euro-denominated and Singapore dollar-denominated forecasted transactions:

In millions of Euros Forward contracts Currency collars	Notional amount for hedge on forecasted R&D and other operating expenses 215 237	Notional amount for hedge on forecasted manufacturing costs  341  334
In millions of Singapore dollars  Forward contracts	Notional amount for hedge on forecasted R&D and other operating expenses	Notional amount for hedge on forecasted manufacturing costs 157

Cash flow and fair value interest rate risk

The Company's interest rate risk arises from long-term borrowings. Borrowings issued at variable rates expose the Company to cash flow interest rate risk. Borrowings issued at fixed rates expose the Company to fair value interest rate risk.

The Company analyses its interest rate exposure on a dynamic basis. Various scenarios are simulated taking into consideration refinancing, renewal of existing positions, alternative financing and hedging. The Company invests primarily on a short-term basis and as such the Company's liquidity is invested in floating interest rate instruments. As a consequence, the Company is exposed to interest rate risk due to potential mismatch between

the return on its short-term floating interest rate investments and the portion of its long-term debt issued at fixed rate.

### Price risk

Total derivatives designated as a hedge

Derivatives not designated as a hedge Foreign exchange forward contracts

Total derivatives not designated as a

hedge:

**Total Derivatives** 

As part of its ongoing investing activities, the Company may be exposed to equity security price risk for investments in public entities. In order to hedge the exposure to this market risk, the Company may enter into certain derivative hedging transactions.

Information on fair value of derivative instruments and their location in the consolidated balance sheets as at December 31, 2020 and December 31, 2019 is presented in the table below:

	As at December 31, 2020	As at December 31, 2020		
Asset Derivatives	Balance sheet location	Fair value	Balance sheet location	Fair value
Derivatives designated as a hedge:				
Foreign exchange forward contracts	Other current assets	40	Other current assets	4
Currency collars	Other current assets	15	Other current assets	1
Total derivatives designated as a hedge		55		5
Derivatives not designated as a hedge:				
Foreign exchange forward contracts	Other current assets	10	Other current assets	3
Total derivatives not designated as a				
hedge:		10		3
Total Derivatives		65		8
	As at December 31, 2020		As at December 31, 2019	
Liability Derivatives	Balance sheet location	Fair value	Balance sheet location	Fair value
Derivatives designated as a hedge:				
Foreign exchange forward contracts	Other payables and		Other payables and	
	accrued liabilities	_	accrued liabilities	(4)
Currency collars	Other payables and		Other payables and	
	accrued liabilities	_	accrued liabilities	(2)

The effect on the consolidated statements of income for the year ended December 31, 2020 and December 31, 2019 and on the "Accumulated other comprehensive income (loss)" ("AOCI") as reported in the consolidated statements of equity as at December 31, 2020 and December 31, 2019 of derivative instruments designated as cash flow hedge is presented in the table below:

Other payables and

accrued liabilities

(6)

(1)

(1)

**(**7**)** 

Other payables and

accrued liabilities

(2)

(2)

(2)

	Gain (loss) d OCI on de		Location of gain (loss) reclassified from OCI into earnings	Gain (loss) recla: OCI into ea	
	December 31, 2020	December 31, 2019		December 31, 2020	December 31, 2019
Foreign exchange forward					
contracts	29	(1)	Cost of sales	(2)	(36)
Foreign exchange forward					
contracts	3	_	Selling, general and administrative	1	(4)
Foreign exchange forward					
contracts	11	(1)	Research and development	2	(15)
Currency collars	11	(1)	Cost of sales	(1)	(15)
Currency collars	1	_	Selling, general and administrative	_	(2)
Currency collars	6	_	Research and development	_	(7)
Total	61	(3)		_	(79)

No significant ineffective portion of the cash flow hedge relationships was recorded in earnings for the years ended December 31, 2020 and December 31, 2019. No amount was excluded from effectiveness measurement on foreign exchange forward contracts and collars.

The effect on the consolidated statements of income for the year ended December 31, 2020 and December 31, 2019 of derivative instruments not designated as a hedge is presented in the table below:

	Location of gain (loss) recognized in earnings	Gain (loss) recogniz	ed in earnings
		December 31, 2020	December 31, 2019
Foreign exchange forward contracts	Other income and expenses, net	(13)	1
Total		(13)	1

The Company did not enter into any derivative containing significant credit-risk-related contingent features.

The Company entered into currency collars as combinations of two options, which are reported, for accounting purposes, on a net basis. The fair value of these collars represented as at December 31, 2020 assets for a net amount of \$15 million (composed of \$16 million assets offset with a \$1 million liability). In addition, the Company entered into other derivative instruments, primarily forward contracts, which are governed by standard International Swaps and Derivatives Association ("ISDA") agreements, which are not offset in the statement of financial position and representing total assets of \$50 million and liabilities of \$2 million as at December 31, 2020.

#### Credit risi

The expected credit loss and impairment methodology applied on each category of financial assets following the adoption of new ASC 326 guidance is further described in each respective note. While cash and cash equivalents are also subject to ASC 326 new requirements, the identified expected credit loss is deemed to be negligible. The maximum credit risk exposure for all financial assets is their carrying amount.

Credit risk is the risk that a counterparty will not meet its obligations under a financial instrument or customer contract, leading to a financial loss. Credit risk typically arises from cash and cash equivalents, contractual cash flows of debt investments carried at amortized cost, the counterparty of derivative financial instruments and deposits with banks and financial institutions, as well as credit exposure to customers, including outstanding receivables.

The Company is exposed to credit risk from its operating activities (primarily for trade receivables) and from its financing activities, including deposits with banks and financial institutions, foreign exchange transactions and other financial instruments. Credit risk is managed at the Group level. The Company selects banks and/or financial institutions that operate with the group based on the criteria of long-term rating from at least two major Rating Agencies and keeping a maximum outstanding amount per instrument with each bank not to exceed 20%

of the total. For derivative financial instruments, management has established limits so that, at any time, the fair value of contracts outstanding is not concentrated with any individual counterparty.

The Company monitors the creditworthiness of its customers to which it grants credit terms in the normal course of business. If certain customers are independently rated, these ratings are used. Otherwise, if there is no independent rating, risk control assesses the credit quality of the customer, taking into account its financial position, past experience and other factors. Individual risk limits are set based on internal and external ratings in accordance with limits set by management. The utilization of credit limits is regularly monitored. Sales to customers are primarily settled in cash, which mitigates credit risk. At December 31, 2020 and 2019, no customer represented more than 10% of trade accounts receivable, net. Any remaining concentrations of credit risk with respect to trade receivables are limited due to the large number of customers and their dispersion across many geographic areas.

The Company's investments in debt instruments primarily include U.S. Treasury Bonds and long-term receivables towards government bodies. As such, they are investments with immaterial expected credit loss. Any remaining receivable is of low credit risk and is individually not significant. The credit ratings of the investments are monitored for credit deterioration.

Liquidity risk

Prudent liquidity risk management includes maintaining sufficient cash and cash equivalents, short-term deposits and marketable securities, the availability of funding from committed credit facilities and the ability to close out market positions. The Company's objective is to maintain a significant cash position and a low debt-to-equity ratio, which ensures adequate financial flexibility. Liquidity management policy is to finance the Company's investments with net cash from operating activities.

Management monitors rolling forecasts of the Company's liquidity reserve based on expected cash flows.

# 28.2 Capital risk management

The Company's objectives when managing capital are to safeguard the Company's ability to continue as a going concern in order to create value for shareholders and benefits and returns for its stakeholders, as to maintain an optimal capital structure. In order to maintain or adjust its capital structure, the Company may review the amount of dividends paid to shareholders, return capital to shareholders, or issue new shares

Consistent with others in the industry, the Company monitors capital on the basis of the net debt-to-equity ratio. This ratio is calculated as the net financial position of the Company, defined as the difference between total cash position (cash and cash equivalents, short-term deposits, marketable securities and restricted cash, if any) and total financial debt (short term and long-term debt), divided by total parent company stockholders' equity.

# 28.3 Fair value measurement

The fair value of financial instruments traded in active markets is based on quoted market prices at the balance sheet date. The quoted market price used for financial assets held by the Company is the bid price. If the market for a financial asset is not active and if no observable market price is obtainable, the Company measures fair value by using significant assumptions and estimates. When measuring fair value, the Company makes maximum use of market inputs and minimizes the use of unobservable inputs.

The table below details financial assets (liabilities) measured at fair value on a recurring basis as at December 31, 2020:

	Fair Value Measurements using				
	December 31, 2020	Quoted Prices in Active Markets for Identical Assets (Level 1)	Significant Other Observable Inputs (Level 2)	Significant Unobservable Inputs (Level 3)	
Marketable securities – U.S. Treasury debt securities	133	133	_	_	
Short-term deposits	581	581	_	_	
Equity securities measured at fair value through earnings	25	25	_	_	
Derivative assets designated as cash flow hedge	55	_	55	_	
Derivative assets not designated as cash flow hedge	10	_	10	_	
Derivative liabilities designated as cash flow hedge	_	_	_	_	
Derivative liabilities not designated as cash flow hedge	(2)	_	(2)	_	
Contingent consideration on business acquisitions	(123)	_		(123)	
Total	679	739	63	(123)	

The table below details financial assets (liabilities) measured at fair value on a recurring basis as at December 31, 2019:

	Fair Value Measurements using				
	December 31, 2019	Quoted Prices in Active Markets for Identical Assets (Level 1)	Significant Other Observable Inputs (Level 2)	Significant Unobservable Inputs (Level 3)	
Marketable securities – U.S. Treasury debt securities	133	133	_	_	
Short-term deposits	4	4	_	_	
Equity securities measured at fair value through earnings	23	23	_	_	
Derivative assets designated as cash flow hedge	5	_	5	_	
Derivative assets not designated as cash flow hedge	3	_	3	_	
Derivative liabilities designated as cash flow hedge	(6)	_	(6)	_	
Derivative liabilities not designated as cash flow hedge	(1)		(1)	<u> </u>	
Total	161	160	1		

For liabilities measured at fair value on a recurring basis using significant unobservable inputs (Level 3), the reconciliation between January 1, 2020 and December 31, 2020 is presented as follows:

	Measurements using Significant Unobservable Inputs (Level 3)
January 1, 2020	
Contingent consideration on business combinations	117
Changes in fair value measurement	1
Currency translation adjustment	5
December 31, 2020	123
Amount of total losses for the period included in earnings attributable to liabilities still held at the	
reporting date	

Contingent consideration reported as noncurrent liabilities on the consolidated balance sheet as at December 31, 2020 is based on the probability that the milestones defining the variable components of the consideration will be achieved.

No asset (liability) was measured at fair value on a recurring basis using significant unobservable inputs (Level 3) as at December 31, 2019.

No asset (liability) was measured at fair value on a non-recurring basis using significant unobservable inputs (Level 3) as at December 31, 2020 and December 31, 2019 respectively.

In 2020, the Company closed the acquisition of French Gallium Nitride (GaN) innovator Exagan and the acquisitions of the entire share capital of Ultra Wide Band specialist BeSpoon, of the cellular IoT connectivity assets of Riot Micro and of the radio-frequency assets of Somos, as detailed in Note 7. For these acquisitions, the purchase price allocation on the assets acquired and liabilities assumed, measured at fair value, was determined by the Company with the assistance of an independent third party. This corresponded to a Level 3 fair value measurement hierarchy. The main assets that were identified separately corresponded to technologies and amounted to \$118 million. The fair value of the intangible assets was determined using the multi-period excess earnings method, consisting in discountring at a discount rate, which approximates 9%, the future earnings attributable to the asset.

On August 4, 2020, the Company issued a \$1.5 billion principal amount of dual tranche senior unsecured convertible bonds (Tranche A and Tranche B for \$750 million each tranche), due 2025 and 2027, respectively. Proceeds were allocated between debt and equity by measuring first the liability component and then determining the equity component as a residual amount. The liability component was measured at fair value based on a discount rate adjustment technique (income approach), which corresponded to a Level 3 fair value hierarchy measurement. The fair value of the liability component at initial recognition totaled \$1,362 million before allocation of issuance costs and deferred tax effect, and was estimated by calculating the present value of cash flows using a discount rate of 1.30% and 1.85%, respectively, on each tranche. These applied discount rates were determined to be consistent with the market rates at the time for similar instruments with no conversion rights.

The call option available to the Company for the early redemption of Tranche A of the senior unsecured convertible bonds issued on July 3, 2017 was exercised in July 2020. As a consequence, bondholders exercised their conversion rights on Tranche A. The Company allocated the total consideration transferred between debt and equity by measuring at fair value the liability component of Tranche A prior to settlement, then determining the equity component as a residual amount. The liability component was measured at fair value based on a discount rate adjustment technique (income approach), which corresponded to a Level 3 fair value hierarchy measurement and consisted in calculating the present value of cash flows using an average estimated discount rate of 0.8%, which fairly approximated current market rates for similar bonds that have no conversion rights.

Further description on the senior unsecured convertible bonds issued by the Company is provided in Note 15.

The Company evaluated in 2020, 2019 and 2018 for impairment the aggregate carrying amount of long-term investments for which the Company applies the cost method as a measurement alternative, as described in Note

2.24. A \$1 million impairment charge was recorded on these investments in 2020, reported on the line "Loss on financial instruments, net" of the consolidated statement of income. No significant impairment charge was recorded on these investments in 2019 and 2018.

The following table includes additional fair value information on financial assets and liabilities as at December 31, 2020 and 2019:

2020			2019	
Level	Carrying Amount	Estimated Fair Value	Carrying Amount	Estimated Fair Value
1	2,637	2,637	1,691	1,691
1	581	581	4	4
2	583	583	718	718
1	_	_	700	1,030
1	674	1,359	654	1,073
1	1,364	1,835	_	_
	Level 1 1 1 2 1 1 1 1 1 1	Level         Carrying Amount           1         2,637           1         581           2         583           1         —           1         674	Level         Carrying Amount         Estimated Fair Value           1         2,637         2,637           1         581         581           2         583         583           1         —         —           1         674         1,359	Level         Carrying Amount         Estimated Fair Value         Carrying Amount           1         2,637         2,637         1,691           1         581         581         4           2         583         583         718           1         —         —         700           1         674         1,359         654

- (1) Cash equivalents primarily correspond to deposits at call with banks.
- (2) The \$1,030 million fair value of Tranche A as at December 31, 2019 represented the market price of the bonds trading on the Frankfurt Stock Exchange, which corresponded to a Level 1 fair value measurement.
- (4) The carrying amount of the senior unsecured convertible bonds issued on August 4, 2020 as reported above corresponds to the liability component only, since, at initial recognition, the value of the equity instrument embedded in the issued convertible bonds was recorded directly in equity. The initial recognition and subsequent measurements of the convertible bonds are further described in Note 15. The fair value represented the market price of the bonds trading on the Frankfurt Stock Exchange.

  (4) The carrying amount of the senior unsecured convertible bonds issued on August 4, 2020 as reported above corresponds to the liability component only, since, at initial recognition, an amount of \$215
- (4) The carrying amount of the senior unsecured convertible bonds issued on August 4, 2020 as reported above corresponds to the liability component only, since, at initial recognition, an amount of \$215 million before allocation of issuance costs and deferred tax effect was recorded directly in equity as the value of the equity instrument embedded in the issued convertible bonds. The initial recognition of the convertible bonds is further described in Note 15. The fair value represented the market price of the bonds trading on the Frankfurt Stock Exchange.

There were no debt securities that were in an unrealized loss position as at December 31, 2020 and December 31, 2019.

The methodologies used to estimate fair value are as follows:

Components	Methodology used to estimate fair value
Debt securities classified as available-for-sale	Quoted market prices for identical instruments
Foreign exchange forward contracts, currency options and collars	Quoted market prices for similar instruments
Equity securities measured at fair value through earnings	Quoted market prices for identical instruments
Equity securities carried at cost as a measurement alternative	Valuation of the underlying investments on a new round of third-party financing or upon liquidation
Long-term debt and current portion of long-term debt	Future cash flows on a borrowing-by-borrowing basis and discounting these future cash flows using the Company's incremental borrowing rates for similar types of borrowing arrangements
Cash and cash equivalents, accounts receivable, short-term borrowings, and accounts	7
payable	value due to the relatively short period of time between the origination of the instruments and their expected realization.

# 29. RELATED PARTY TRANSACTIONS

Transactions with significant shareholders, their affiliates and other related parties were as follows:

	December 31, 2020	December 31, 2019	December 31, 2018
Sales & other services		5 2	
Other purchases	2	1 18	15
Accounts receivable		1 –	2
Accounts payable	_	- —	52

For the years ended December 31, 2020, 2019 and 2018, the related party transactions were primarily with companies in which management of the Company perform similar policymaking functions. These include, but are not limited to: Orange, Telecom Italia and Idemia France.

For the years ended December 31, 2020 and 2019, the Company did not report any material transaction with its equity-method investments. For the year ended December 31, 2018, the accounts payable amount reported in the table above primarily relates to ST-Ericsson SA, a former equity-method investment of the Company, which was wound down in 2019.

The Company made a contribution of \$0.5 million for the year ended December 31, 2020, \$0.4 million for the year ended December 31, 2019 and \$0.5 million for each of the year ended December 31, 2018 to the ST Foundation, a non-profit organization established to deliver and coordinate independent programs in line with its mission. Certain members of the Foundation's Board are senior members of the Company's management.

# ${\bf STMICROELECTRONICS~N.V.}$

# VALUATION AND QUALIFYING ACCOUNTS

Valuation and qualifying accounts deducted from the related asset accounts	Balance at beginning of period	Translation adjustment	Charged to costs and expenses	Additions/ (Deductions)	Balance at end of period
		(Cur	rency—millions of U.S. dollar	s)	
2020					
Accounts Receivable	16	_	_	_	16
Deferred Tax Assets	1,534	28	(11)	(913)	638
2019					
Accounts Receivable	15	_	_	1	16
Deferred Tax Assets	1,548	(4)	_	(10)	1,534
2018					
Accounts Receivable	15	_	_	_	15
Deferred Tax Assets	1,502	(16)	143	(81)	1,548

# Description of Securities Registered under Section 12 of the Securities Exchange Act of 1934 (the "Exchange Act")

As of December 31, 2020, STMicroelectronics N.V. (the "Company", "we", "us" and "our") had the following series of securities registered pursuant to Section 12(b) of the Exchange Act:

<u>Title of Each Class</u>: Common shares, nominal value €1.04 per share Trading
Symbol(s)
STM

Name of Each Exchange on Which Registered:
New York Stock Exchange

Our common shares have a nominal value of €1.04. As of December 31, 2020 our common shares are the only class of securities of the company that are registered under Section 12 of the Exchange Act.

Capital terms used but not defined herein have the meanings given to them in Company's annual report on Form 20-F for the fiscal year ended December 31, 2020 (the "2020 Form 20-F").

Type and Class of Securities (Item 9.A.5 of Form 20-F)

Each common share has a nominal value of  $\in$ 1.04 per share. As at December 31, 2020, the number of shares of common stock issued was 911,239,420 shares and the number of shares of common stock outstanding was 905,415,002.

Of the 905,415,002 common shares outstanding as of December 31, 2020, 63,238,654, or 7.0%, were registered in the common share registry maintained on our behalf in New York.

Preemptive Rights (Item 9.A.3 of Form 20-F)

See "Item 10. Additional information — Memorandum and Articles of Association — Share Capital (Articles 4, 5 and 6)" of the 2020 Form 20-F.

Limitations or Qualifications (Item 9.A.6 of Form 20-F)

Not applicable.

Other Rights (Item 9.A.7 of Form 20-F)

Not applicable

Rights of the Common Shares (Item 10.B.3 of Form 20-F)

See "Item 10. Additional information — Memorandum and Articles of Association" of the 2020 Form 20-F.

Requirements for Amendments (Item 10.B.4 of Form 20-F)

See "Item 10. Additional information — Memorandum and Articles of Association" of the 2020 Form 20-F.

Limitations on the Rights to Own Shares (Item 10.B.6 of Form 20-F)

Not applicable

Provisions Affecting Any Change of Control (Item 10.B.7 of Form 20-F)

Not applicable

Ownership Threshold (Item 10.B.8 of Form 20-F)

Not applicable

# Differences Between the Law of Different Jurisdictions (Item 10.B.9 of Form 20-F)

See the references to Dutch law throughout "Item 10. Additional information — Memorandum and Articles of Association" of the form 2020 20-F.

Changes in Capital (Item 10.B.10 of Form 20-F)

Not applicable.

Debt Securities (Item 12.A of Form 20-F)

Not applicable.

Warrants and Rights (Item 12.B of Form 20-F)

Not applicable.

Other Securities (Item 12.C of Form 20-F)

Not applicable.

American Depositary Shares (Items 12.D.1 and 12.D.2 of Form 20-F)

Not applicable.

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# Subsidiaries and Equity Investments of the Company

The following table lists our consolidated subsidiaries and our percentage ownership as of December 31, 2020:

Sweden, Kista

			Percentage Ownership
Austria, Vienna			
Belgium, Diegem			
Bazil, Sao Paulo			
Bazil, So Paulo	E 7 E		
Canada, Ottawa         STMicroelectronics (Canada), Inc.         100           Chins, Beljing         STMicroelectronics (Shanghai) Co. Lid         100           Chins, Shanghai         STMicroelectronics (Changhai) Co. Lid         100           Chins, Shanghai         STMicroelectronics (Changhai) Co. Lid         100           Chins, Shenzhen         Shenzhen STS Microelectronics Co. Lid         100           Chins, Shenzhen         STMicroelectronics Co. Lid         100           Creck Republic, Prague         STMicroelectronics SPA         100           Espret, Cairo         STMicroelectronics SPA         100           Espret, Cairo         STMicroelectronics SPA         100           Espret, Cairo         STMicroelectronics (Spany SSA)         100           Finace, Crolles         STMicroelectronics (Crolles 2) SAS         100           Finace, Cricroeble         STMicroelectronics (Crolles 2) SAS         100           Finace, Cricroeble         STMicroelectronics (Grand Ouest) SAS         100           Finace, Cricroeble         STMicroelectronics (Grand Ouest) SAS         100           Finace, Charace         STMicroelectronics (Grand Ouest) SAS         100           Finace, Charace         STMicroelectronics (Grand Ouest) SAS         100           Finace, Charace         STMicroelec		· · · · · · · · · · · · · · · · · · ·	
Cinna, Bainghai         STMicroelectronics (Baingan RAD Co. Ltd         100           China, Shanghai         STMicroelectronics (China) Investment Co. Ltd         100           China, Shanghai         STMicroelectronics (China) Investment Co. Ltd         60           China, Shenzhen         Shortheel ST Microelectronics (China) Investment Co. Ltd         100           China, Shenzhen         STMicroelectronics (Shenzhen) RAD Co. Ltd         100           Chran, Shenzhen         STMicroelectronics (Shenzhen) RAD Co. Ltd         100           Demark, Aarhus         STMicroelectronics (Shenzhen) RAD Co. Ltd         100           Demark, Aarhus         STMicroelectronics (Shenzhen) RAD Co. Ltd         100           Finance, Grondol         STMicroelectronics (Shenzhen) RAD Co. Ltd         100           Fance, Grondole         STMicroelectronics (Shenzhen) RAD SAS         100           Fance, Grondole         Expan SAS         100           Fance, Caronble         Expan SAS         100           Fance, La Bouger-du-lac         BeSpon SAS         100           Fance, Caronble         STMicroelectronics (Grondole 2) SAS         100           Fance, La Bouger-du-lac         BeSpon SAS         100           Fance, La Bouger-du-lac         BeSpon SAS         100           Fance, Enouger-du-lac			
China, Shanghai         STMicroelectronics (Shanghai) Co. Lid         100           China, Shanghai         STMicroelectronics (Co. Lid         60           China, Shenzhen         Shenzhen STS Microelectronics (Shenzhen) RAD Co. Lid         100           China, Shenzhen         STMicroelectronics Shenzhen RAD Co. Lid         100           Czech Republic, Prague         STMicroelectronics Steps and Application s.r.o.         100           Denmark, Aarlus         STMicroelectronics Steps and Application s.r.o.         100           Egypt, Cairo         STMicroelectronics Egypt SSC         100           Eraland, Nummela         STMicroelectronics (Crolles 2) SAS         100           France, Corolle         STMicroelectronics (Crolles 2) SAS         100           France, Genoble         STMicroelectronics (Grenoble 2) SAS         100           France, Genoble         STMicroelectronics (Grenoble 2) SAS         100           France, Coronble         STMicroelectronics (Grenoble 2) SAS         100           France, Lo Mans         STMicroelectronics (Grenoble 2) SAS         100           France, Caronble         STMicroelectronics (Grenoble 2) SAS         100           France, Caronble         STMicroelectronics (Grenoble 2) SAS         100           France, Caronble         STMicroelectronics (Grenoble 2) SAS         100		· //	
China, Shanghai         STMicroelectronics (China) Investment Co. Lid         60           China, Shenzhen         Shenzhen STS Microelectronics (Cherzhen) RAD Co. Lid         100           Chen, Shenzhen         STMicroelectronics (Shenzhen) RAD Co. Lid         100           Demnark, Aarbus         STMicroelectronics AS         100           Egynt Cairo         STMicroelectronics SP         100           Finland, Autumela         STMicroelectronics Finland OY         100           Finland, Nummela         STMicroelectronics Finland OY         100           Finnec, Crofles         STMicroelectronics (Crolles 2) SAS         100           France, Cincroble         Exagan SAS         80           France, Cincroble         STMicroelectronics (Grenoble 2) SAS         100           France, Cincroble         STMicroelectronics (Grenoble 2) SAS         100           France, Cincroble         STMicroelectronics (Grenoble 2) SAS         100           France, E. Muns         STMicroelectronics (Grenoble 2) SAS         100           France, Carbothe         STMicroelectronics (Grenoble 2) SAS         100           France, E. Dourget-du-Lac         BeSpoon SAS         100           France, Carbothe         STMicroelectronics (Grenoble 2) SAS         100           France, Course         STMicroelectroni		, , , e,	
Chira, Shezzhen         Shezzhen Cromics Co. Ltd         100           Chira, Shezzhen         STMicroelectronics (Shezzhen) RAD Co. Ltd         100           Crech Republic, Prague         STMicroelectronics Design and Application s.r.o.         100           Demank, Auflus         STMicroelectronics Sapyt SSC         100           Egypt, Caro         STMicroelectronics Finaled OY         100           Finaled, Nimmela         STMicroelectronics Frolles         100           Finance, Croelle         STMicroelectronics (Frolles 2)         SAS         100           France, Grenoble         Exagan SAS         100           France, Grenoble         Exagan SAS         100           France, Le Bouges de La Lea         STMicroelectronics (Grenoble 2) SAS         100           France, Le Bouges de La Lea         BSPOON SAS         100           France, Le Bouges de La Lea         BSPOON SAS         100           France, Le Sueges de La Lea         BSPOON SAS         100           France, Le Sueges de La Lea         BSPOON SAS         100           France, Le Sueges de La Lea         BSPOON SAS         100           France, Le Sueges de La Lea         BSPOON SAS         100           Gemany, Aschheim-Dornach         STMicroelectronics (Rousset) SAS         100		· • ·	
Chima, Shenzhen         STMicroelectronics (Shenzhen) R&D Co. Ltd         100           Denmark, Aarhus         STMicroelectronics (So.)         100           Espayl, Calro         STMicroelectronics Espayl SSC         100           Financa, Nummela         STMicroelectronics Espayl SSC         100           Finance, Circolles         STMicroelectronics (Crolles 2) SAS         100           France, Circolble         STMicroelectronics (Crolles 2) SAS         100           France, Circoble         Exagan SAS         100           France, Circoble         STMicroelectronics (Grenoble 2) SAS         100           France, Consol         STMicroelectron			
Czech Republic, Prague         STMicroelectronics Sesign and Application s.r.o.         100           Depmark, Aarthus         STMicroelectronics Egyst SC         100           Einland, Nummela         STMicroelectronics Egyst SC         100           Finance, Crofles         STMicroelectronics (Crofles 2) SAS         100           France, Grenoble         STMicroelectronics (Galps) SAS         100           France, Grenoble         Exagan SAS         80           France, Grenoble         STMicroelectronics (Grand Ouest) SAS         100           France, Le Mans         STMicroelectronics (Grand Ouest) SAS         100           France, Le Bourget-du-Lac         BSP60 SAS         100           France, Crouse         STMicroelectronics (Rousest) SAS         100           France, Crouse         STMicroelectronics (Rousest) SAS         100           Germany, Aschheim-Dornach         STMicroelectronics (Rousest) SAS         100           Germany, Aschheim-Dornach         STMicroelectronics Application GmbH         100           Hofat, Norda         STMicroelectronics Application GmbH <td< td=""><td></td><td></td><td></td></td<>			
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France, Grenoble         STMicroelectronics (Alps) SAS         100           France, Grenoble         Exagan SAS         80           France, Grenoble         STMicroelectronics (Grenoble 2) SAS         100           France, Le Mans         STMicroelectronics (Grand Ouest) SAS         100           France, Le Montrouge         STMicroelectronics SA.         100           France, Le Bourget-du-Lac         BeSpoon SAS         100           France, Rousst         STMicroelectronics (Rousst) SAS         100           France, Tours         STMicroelectronics (Tours) SAS         100           Germany, Aschheim-Dornach         STMicroelectronics GmbH         100           Germany, Aschheim-Dornach         STMicroelectronics Application GmbH         100           Hong, Kong         STMicroelectronics Application GmbH         100           Hong, Kong         STMicroelectronics Application GmbH         100           India, Novida         STMicroelectronics Julia         100           India, Novida         STMicroelectronics STAL         100           Israel, Kotanya         STMicroelectronics STAL         100           Ilay, Agrafe Brianza         STMicroelectronics STAL         100           Ilay, Agrafe Brianza         STMicroelectronics STAL         100 <t< td=""><td></td><td></td><td></td></t<>			
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France, Le Mans         STMicroelectronics (Grand Ouest) SAS         100           France, Montrouge         STMicroelectronics SA.         100           France, Le Bourget-du-Lac         BeSpoon SAS         100           France, Rousset         STMicroelectronics (Rousset) SAS         100           Gernacy, Aschleim-Dornach         STMicroelectronics GmbH         100           Germany, Aschleim-Dornach         STMicroelectronics Application GmbH         100           Hong Kong         STMicroelectronics Application GmbH         100           India, Noida         STMicroelectronics Ltd         100           India, Noida         STMicroelectronics Limited         100           Israel, Netany         STMicroelectronics Str.I.         100           Italy, Naptae         STMicroelectronics Str.I.         100           Italy, Naptae         STMicroelectronics Str.I.         100           Italy, Naptae         STMicroelectronics Str.I.         100           Japan, Tokyo         STMicroelectronics Str.I.         100           Malaysia, Kuala Lumpur         STMicroelectronics Str. Str.Buth         100           Malaysia, Kuala Lumpur         STMicroelectronics Str. Str.Buth         100           Malaysia, Kuala Lumpur         STMicroelectronics Marketing, Str. Buth         100 </td <td></td> <td></td> <td></td>			
France, Montrouge         STMicroelectronics S.A.         100           France, Le Bourget-du-Lac         BeSpoon SAS         100           France, Rouset         STMicroelectronics (Tours) SAS         100           France, Tours         STMicroelectronics (Tours) SAS         100           Germany, Aschheim-Domach         STMicroelectronics GmbH         100           Germany, Aschheim-Domach         STMicroelectronics Application GmbH         100           Indig, New Delhi         ST-Ericsson India Pvt Ltd         100           Indig, New Delhi         ST-Bricsson India Pvt Ltd         100           Indig, New Delhi         STMicroelectronics Pvt Ltd         100           Israel, Netanya         STMicroelectronics Pvt Ltd         100           Israel, Netanya         STMicroelectronics St.I.         100           Italy, Agrate Brianza         STMicroelectronics St.I.         100           Italy, Agrate Brianza         STMicroelectronics St.Pt.         100           Malaysia, Kuala Lumpur         STMicroelectronics St.Pt.         100           Malaysia, Muar         STMicroelectronics Marketing SDN BHD         100           Malaysia, Muar         STMicroelectronics Marketing SDN BHD         100           Mexico, Guadalajara         STMicroelectronics Since Sole RL de C.V.         1			
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France, Tours         STMicroelectronics (Tours) SAS         100           Germany, Aschheim-Dornach         STMicroelectronics GmbH         100           Germany, Aschheim-Dornach         STMicroelectronics Application GmbH         100           Hong Kong         STMicroelectronics Ltd         100           India, New Delhi         ST-Ericsson India Pvt Ltd         100           India, Noida         STMicroelectronics Limited         100           Israel, Netanya         STMicroelectronics Limited         100           Italy, Agrate Brianza         STMicroelectronics S.r.l.         100           Italy, Agrate Brianza         STMicroelectronics Services S.r.l.         100           Japan, Tokyo         STMicroelectronics Services S.r.l.         100           Malaysia, Kuala Lumpur         STMicroelectronics Marketing SDN BHD         100           Malaysia, Muar         STMicroelectronics SDN BHD         100           Malaysia, Muar         STMicroelectronics SDN BHD         100           Mexico, Guadalajara         STMicroelectronics Marketing, S. de R.L. de C.V.         100           Morocco, Casablanca         Electronic Holding S.A.         100           Morocco, Casablanca         STMicroelectronics S.A.S. (Maroc)         100           The Netherlands, Amsterdam         STMicroelectron		1	
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Germany, Aschheim-Dornach         STMicroelectronics Application GmbH         100           Hong Kong         STMicroelectronics Ltd         100           India, New Delhi         ST-Ericsson India Pvt Ltd         100           India, Noida         STMicroelectronics Pvt Ltd         100           Israel, Netanya         STMicroelectronics Limited         100           Italy, Agrate Brianza         STMicroelectronics S.r.l         100           Italy, Agrate Brianza         STMicroelectronics Services S.r.l.         100           Japan, Tokyo         STMicroelectronics Services S.r.l.         100           Malaysia, Kuala Lumpur         STMicroelectronics Marketing SDN BHD         100           Malaysia, Muar         STMicroelectronics SDN BHD         100           Malaysia, War         STMicroelectronics (Malta) Ltd         100           Mexico, Guadalajara         STMicroelectronics Marketing, S. de R.L. de C.V.         100           Morocco, Casablanca         Electronic Holding S.A.         100           Morocco, Casablanca         STMicroelectronics S.A.S. (Maroe)         100           The Netherlands, Amsterdam         STMicroelectronics Finance B.V.         100           The Netherlands, Amsterdam         STMicroelectronics Finance B.V.         100           The Netherlands, Amsterdam		,	
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The Netherlands, AmsterdamSTMicroelectronics International N.V.100Philippines, CalambaSTMicroelectronics, Inc.100Philippines, CalambaMountain Drive Property, Inc.40Singapore, Ang Mo KioSTMicroelectronics Asia Pacific Pte Ltd100Singapore, Ang Mo KioSTMicroelectronics Pte Ltd100Slovenia, LjubljanaSTMicroelectronics d.o.o100Spain, BarcelonaSTMicroelectronics Iberia S.A.100	The Netherlands, Amsterdam	STMicroelectronics Finance B.V.	100
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Philippines, CalambaMountain Drive Property, Inc.40Singapore, Ang Mo KioSTMicroelectronics Asia Pacific Pte Ltd100Singapore, Ang Mo KioSTMicroelectronics Pte Ltd100Slovenia, LjubljanaSTMicroelectronics d.o.o100Spain, BarcelonaSTMicroelectronics Iberia S.A.100	The Netherlands, Amsterdam	STMicroelectronics International N.V.	100
Singapore, Ang Mo KioSTMicroelectronics Asia Pacific Pte Ltd100Singapore, Ang Mo KioSTMicroelectronics Pte Ltd100Slovenia, LjubljanaSTMicroelectronics d.o.o100Spain, BarcelonaSTMicroelectronics Iberia S.A.100	Philippines, Calamba	STMicroelectronics, Inc.	100
Singapore, Ang Mo KioSTMicroelectronics Pte Ltd100Slovenia, LjubljanaSTMicroelectronics d.o.o100Spain, BarcelonaSTMicroelectronics Iberia S.A.100	Philippines, Calamba	Mountain Drive Property, Inc.	40
Slovenia, LjubljanaSTMicroelectronics d.o.o100Spain, BarcelonaSTMicroelectronics Iberia S.A.100	Singapore, Ang Mo Kio	STMicroelectronics Asia Pacific Pte Ltd	100
Slovenia, LjubljanaSTMicroelectronics d.o.o100Spain, BarcelonaSTMicroelectronics Iberia S.A.100	Singapore, Ang Mo Kio	STMicroelectronics Pte Ltd	100
Spain, Barcelona STMicroelectronics Iberia S.A. 100		STMicroelectronics d.o.o	100
		STMicroelectronics Iberia S.A.	100
		STMicroelectronics Software A.B.	100

STMicroelectronics A.B.

Name	Ownership (Direct or Indirect)
STMicroelectronics Silicon Carbide A.B.	100
STMicroelectronics S.A.	100
INCARD S.A., en liquidation	100
Exagan Taiwan Ltd.	80
STMicroelectronics (Thailand) Ltd	100
STMicroelectronics (Research & Development) Limited	100
STMicroelectronics Limited	100
Synad Technologies Limited	100
STMicroelectronics Software Inc.	100
STMicroelectronics Inc.	100
Faroudja Laboratories Inc.	100
STMicroelectronics (North America) Holding, Inc.	100
	STMicroelectronics Silicon Carbide A.B. STMicroelectronics S.A. INCARD S.A., en liquidation Exagan Taiwan Ltd. STMicroelectronics (Thailand) Ltd STMicroelectronics (Research & Development) Limited STMicroelectronics Limited Synad Technologies Limited Synad Technologies Limited STMicroelectronics Software Inc. STMicroelectronics Inc. Faroudja Laboratories Inc.

# CERTIFICATION

### I, Jean-Marc Chery, certify that:

- 1. I have reviewed this annual report on Form 20-F of STMicroelectronics N.V.;
- Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the
  circumstances under which such statements were made, not misleading with respect to the period covered by this report;
- Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the company as of, and for, the periods presented in this report;
- 4. The company's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the company and have:
  - Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the company, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
  - b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
  - c) Evaluated the effectiveness of the company's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
  - d) Disclosed in this report any change in the company's internal control over financial reporting that occurred during the period covered by the annual report that has materially affected, or is reasonably likely to materially affect, the company's internal control over financial reporting; and
  - The company's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the company's auditors and the audit committee of the company's board of directors (or persons performing the equivalent functions):
    - All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the company's ability to record, process, summarize and report financial information; and
    - b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the company's internal control over financial reporting.

Date: February 24, 2021 By: /s/ Jean-Marc Chery

Jean-Marc Chery President and Chief Executive Officer and Sole Member of our Managing Board

# CERTIFICATION

### I, Lorenzo Grandi, certify that:

- 1. I have reviewed this annual report on Form 20-F of STMicroelectronics N.V.;
- Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the
  circumstances under which such statements were made, not misleading with respect to the period covered by this report;
- Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the company as of, and for, the periods presented in this report;
- 4. The company's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the company and have:
  - a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the company, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
  - b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
  - c) Evaluated the effectiveness of the company's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
  - d) Disclosed in this report any change in the company's internal control over financial reporting that occurred during the period covered by the annual report that has materially affected, or is reasonably likely to materially affect, the company's internal control over financial reporting; and
  - The company's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the company's auditors and the audit committee of the company's board of directors (or persons performing the equivalent functions):
    - All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the company's ability to record, process, summarize and report financial information; and
    - b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the company's internal control over financial reporting.

Date: February 24, 2021

/s/ Lorenzo Grandi

Lorenzo Grandi Chief Financial Officer President, Finance, Infrastructure and CERTIFICATION OF JEAN-MARC CHERY, PRESIDENT AND CHIEF EXECUTIVE OFFICER AND SOLE MEMBER OF THE MANAGING BOARD OF STMICROELECTRONICS N.V. AND LORENZO GRANDI, CHIEF FINANCIAL OFFICER AND PRESIDENT, FINANCE, INFRASTRUCTURE AND SERVICES OF STMICROELECTRONICS N.V., PURSUANT TO SECTION 18 U.S.C. SECTION 1350, AS ADOPTED PURSUANT TO SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002

In connection with the annual report of STMicroelectronics N.V. (the "Company") on Form 20-F for the period ending December 31, 2020, as filed with the Securities and Exchange Commission on the date hereof (the "Report"), the undersigned hereby certify that to the best of our knowledge:

1. The Report fully complies with the requirements of Section 13(a) of the Securities Exchange Act of 1934; and

2. The information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company.

Date: February 24, 2021

By: /s/ Jean-Marc Chery

Jean-Marc Chery

President and Chief Executive Officer and Sole Member of our Managing Board

Date: February 24, 2021 By: /s/ Lorenzo Grandi

Lorenzo Grandi Chief Financial Officer

President, Finance, Infrastructure and

Services

# Consent of Independent Registered Public Accounting Firm

We consent to the incorporation by reference in the Registration Statement (Form S-8 No. 333-109572) pertaining to the 2001 Stock Option Plan of STMicroelectronics N.V. of our reports dated February 24, 2021, with respect to the consolidated financial statements and financial statements schedule on page S-1 of STMicroelectronics N.V., and the effectiveness of internal control over financial reporting of STMicroelectronics, N.V., included in this Annual Report (Form 20-F) for the year ended December 31, 2020.

/s/ Ernst & Young AG Lancy - Geneva, Switzerland

February 24, 2021