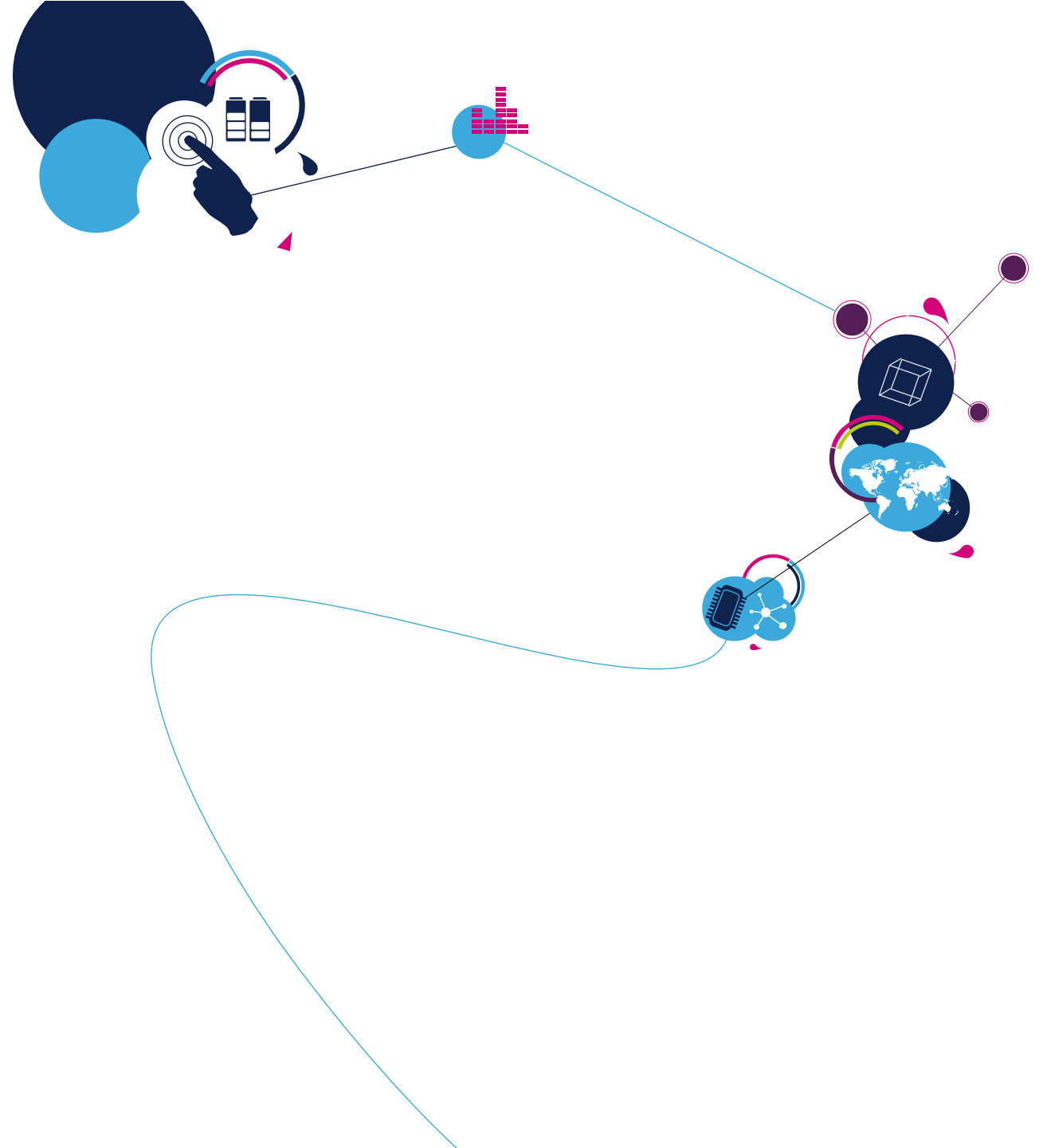


STMicroelectronics

February 28, 2017
Barcelona





Agenda

- 9:30 am ST making everything smarter
- Smart Connected Driving
- Meeting the needs of the IoT
- Takeaways
- Questions & Answers
- 11:00 am End

Speakers



Carlo Ferro
Chief Financial Officer



Marco Monti
EVP, General Manager, ADG



Claude Dardanne
EVP, General Manager, MDG



Benedetto Vigna
EVP, General Manager, AMG

Forward Looking Statements

Some of the statements contained in this release that are not historical facts 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:

- 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;
- Unanticipated events or circumstances, which may impact our ability to execute the planned reductions in our net operating expenses and / or meet the objectives of our R&D Programs, which benefit from public funding;
- Changes in economic, social, labor, political, or infrastructure conditions in the locations where we, our customers, or our suppliers operate, including as a result of macro-economic or regional events, military conflicts, social unrest, labor actions, or terrorist activities;
- The Brexit vote and the perceptions as to the impact of the withdrawal of the U.K. may adversely affect business activity, political stability and economic conditions in the U.K., the Eurozone, the EU and elsewhere. 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;
- The functionalities and performance of our IT systems, 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;
- 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 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;
- The ability to successfully restructure underperforming business lines and associated restructuring charges and cost savings that differ in amount or timing from our estimates;
- Changes in our overall tax position as a result of changes in tax laws, 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;
- 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, health risks and epidemics in locations where we, our customers or our suppliers operate;
- Availability and costs of raw materials, utilities, third-party manufacturing services and technology, or other supplies required by our operations; and
- Industry changes resulting from vertical and horizontal consolidation among our suppliers, competitors, and customers.

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.

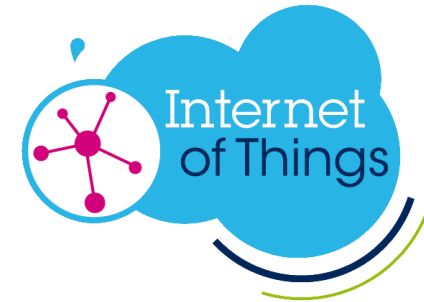
Some of these risk factors are set forth and are discussed in more detail in "Item 3. Key Information — Risk Factors" included in our Annual Report on Form 20-F for the year ended December 31, 2015, as filed with the SEC on March 16, 2016. Should one or more of these risks or uncertainties materialize, or should underlying assumptions prove incorrect, actual results may vary materially from those described in this release 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 release to reflect subsequent events or circumstances.



ST making everything smarter

Carlo Ferro
Chief Financial Officer

The leading provider of products and solutions for Smart Driving and the Internet of Things



Smart Driving benefits:

- Safer
- Greener
- More connected

A collection of three images: a green electric car charging port, a hand pointing at a car's infotainment screen, and a person driving a convertible car with their arms raised.

Internet of Things solutions:

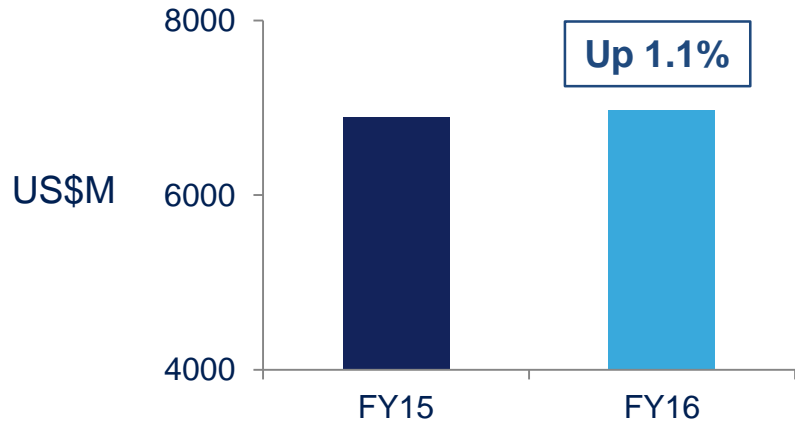
- Smart Industry
- Smart City
- Smart Home
- Smart Things

A collection of four images: a city skyline at night, a modern house at night, a smart light bulb, and a smart thermostat.

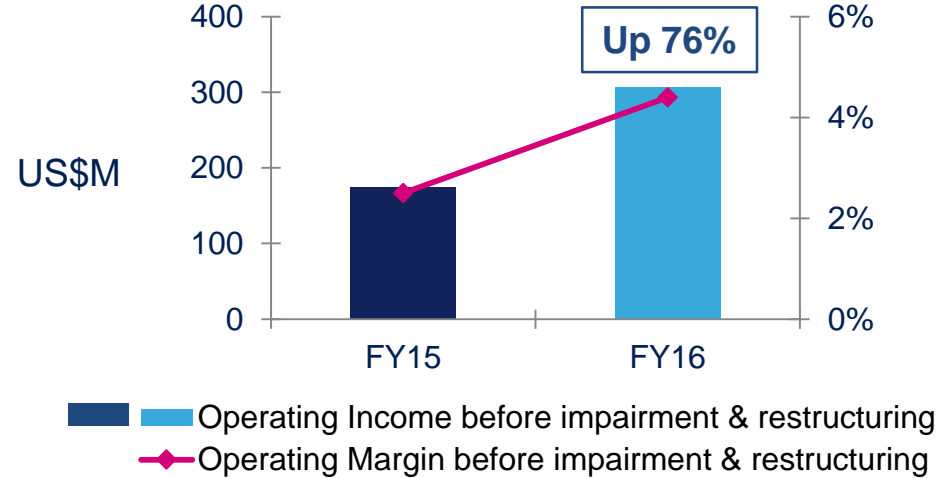
- A global semiconductor leader
- 2016 revenues of **\$6.97B**
- **19%** R&D/Sales

FY2016 Financial Highlights

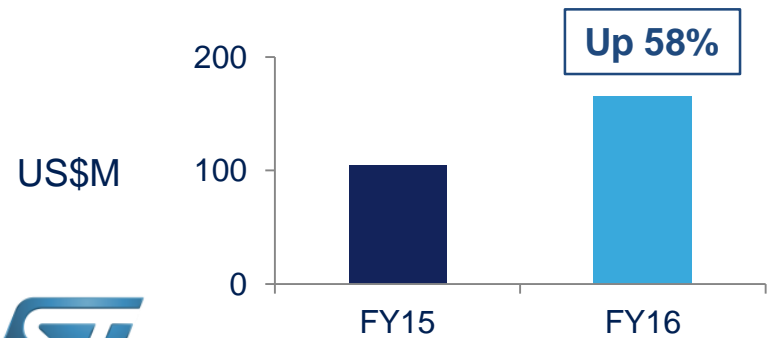
Revenues = \$6.97B



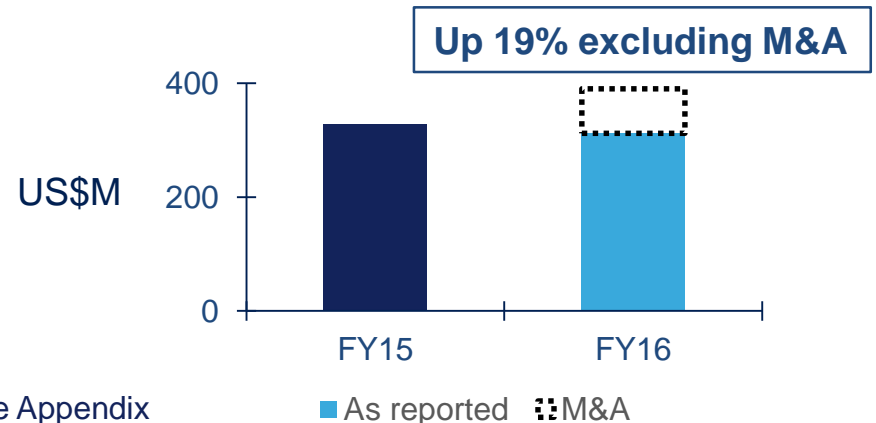
Operating Income* = \$307M



Net Income = \$165M



Free Cash Flow* = \$312M

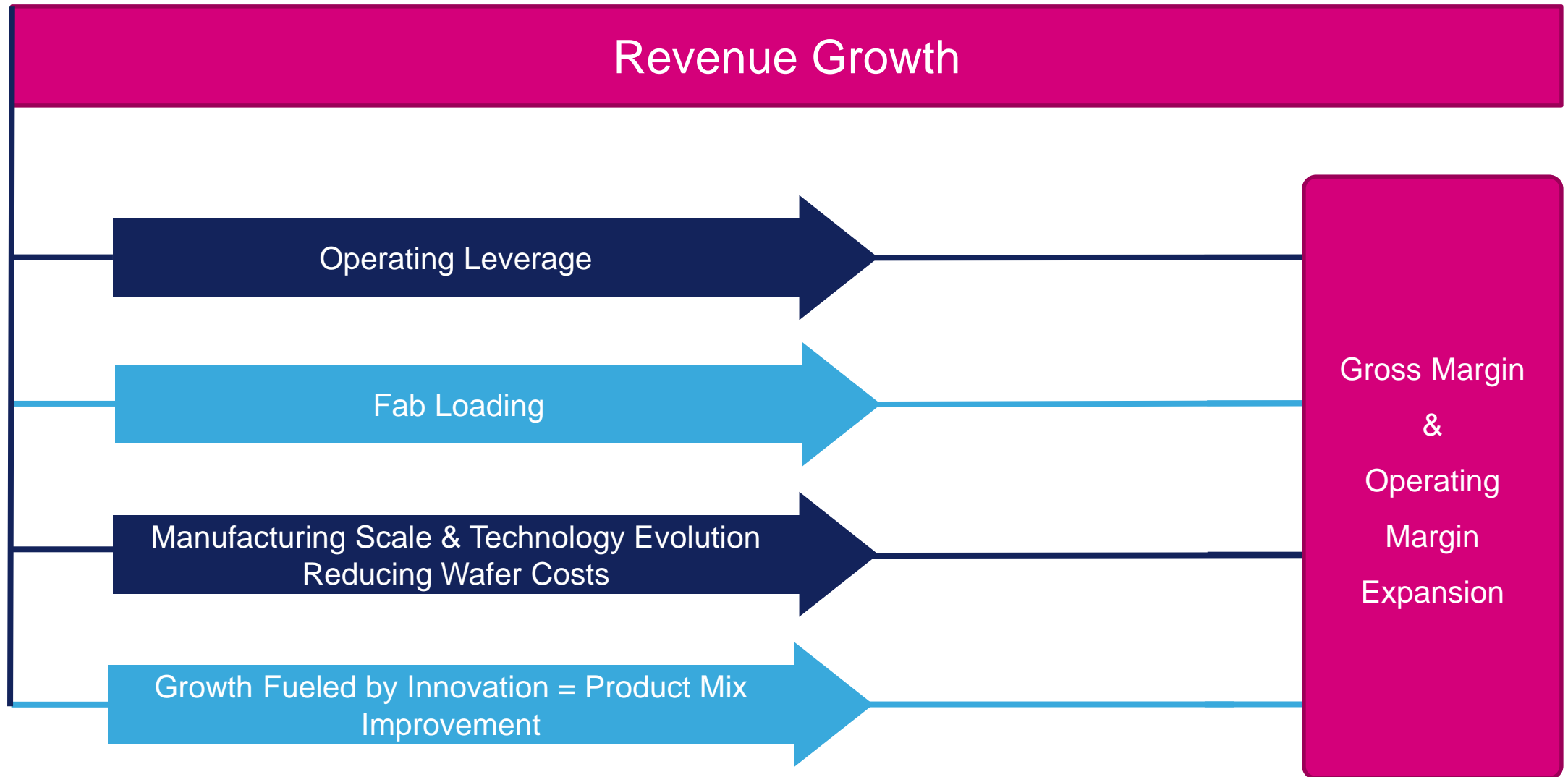


*Non-GAAP measure – see Appendix

Revenue Growth to Translate Into Margin Expansion

Four drivers

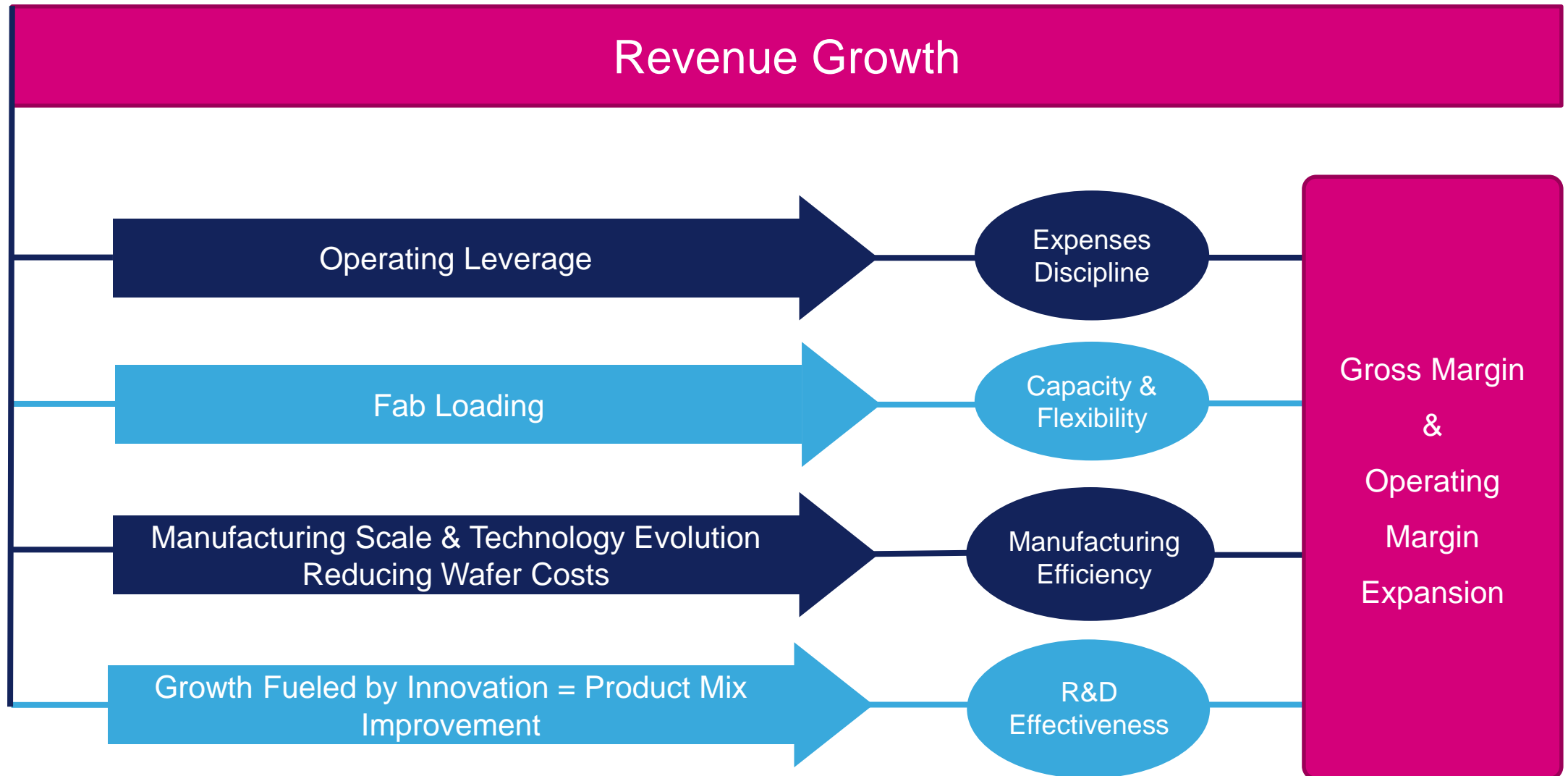
7



Revenue Growth to Translate Into Margin Expansion

Four areas

8



ST Offer for Smart Driving



Car Digitalization















- Sensor fusion processors
- 77GHz/24GHz RADAR processors
- Machine vision processors
- 32-bit MCUs specific for automotive
- Infotainment processors
- Telematics processors
- Positioning, Wi-Fi, tuners
- V2X connectivity

Analog and Power Technologies

- Smart Power ASIC's
- Smart Power ASSP
- Image and MEMS sensors
- Battery management IC's
- Motor controllers/drivers
- HV MOS, IGBT power drivers
- Silicon Carbide diodes and MOSFETs

Silicon technologies
Application knowledge
Key partners
Customer portfolio
Proprietary IP
Security Expertise

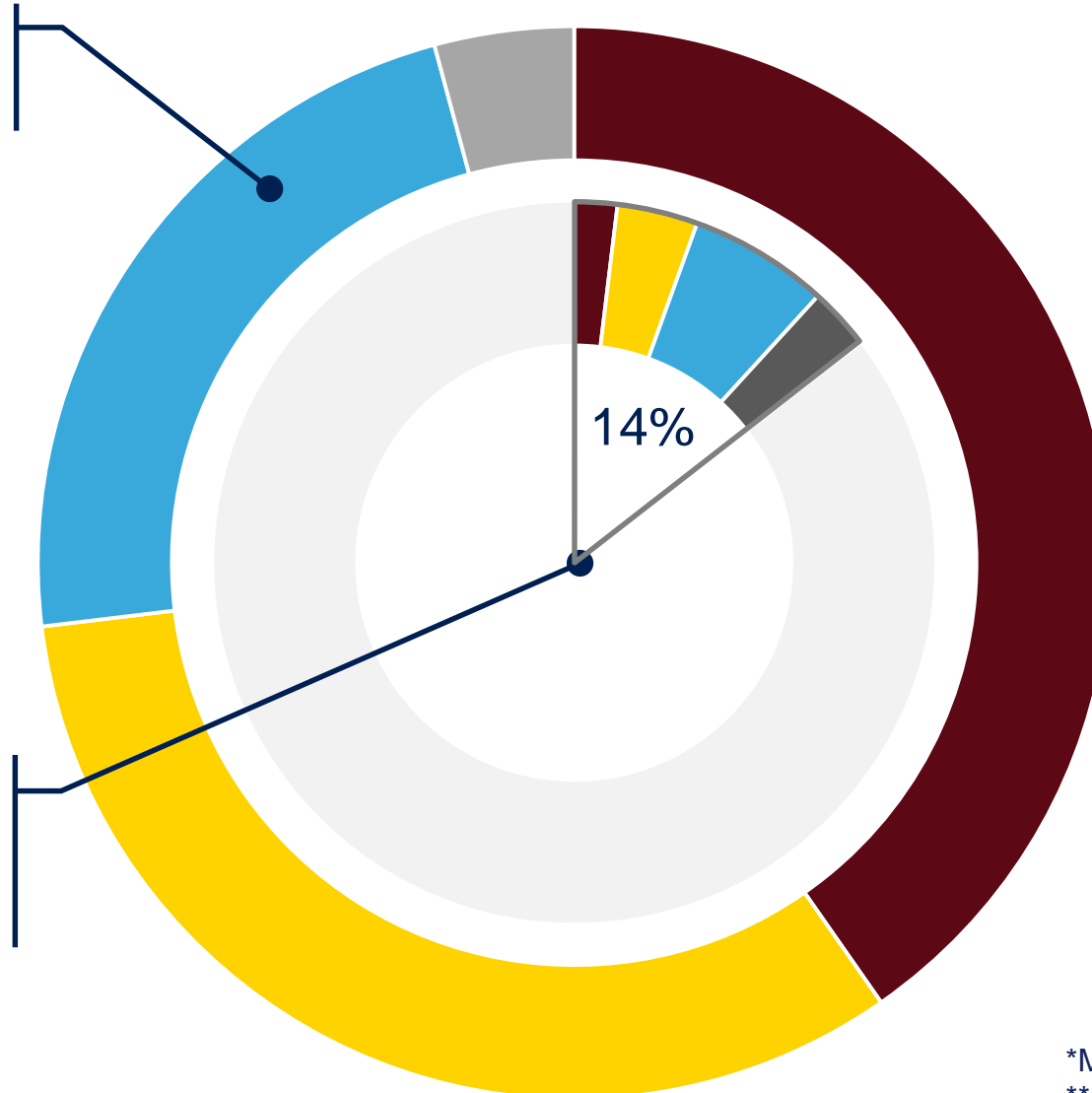
ST Offer for IoT

	Processing	Security	Sensing & Actuating	Connectivity	Signal Conditioning & Protection	Motor Control	Power & Energy Management
Smart Things	 <p>Ultra-Low Power to High Performance</p>	 <p>Scalable security solutions</p>	 <p>Full range of sensors and actuators</p>	 <p>10 cm to 10 km</p>	 <p>Nano Amps to Kilo Amps</p>	 <p>Power conversion Monitoring Drivers</p>	 <p>Nano Watt to Mega Watt</p>
Smart Home & City							
Smart Industry							

ST 2016 Revenues

Split of ST's
FY2016 revenue
of \$6.97B by
Group

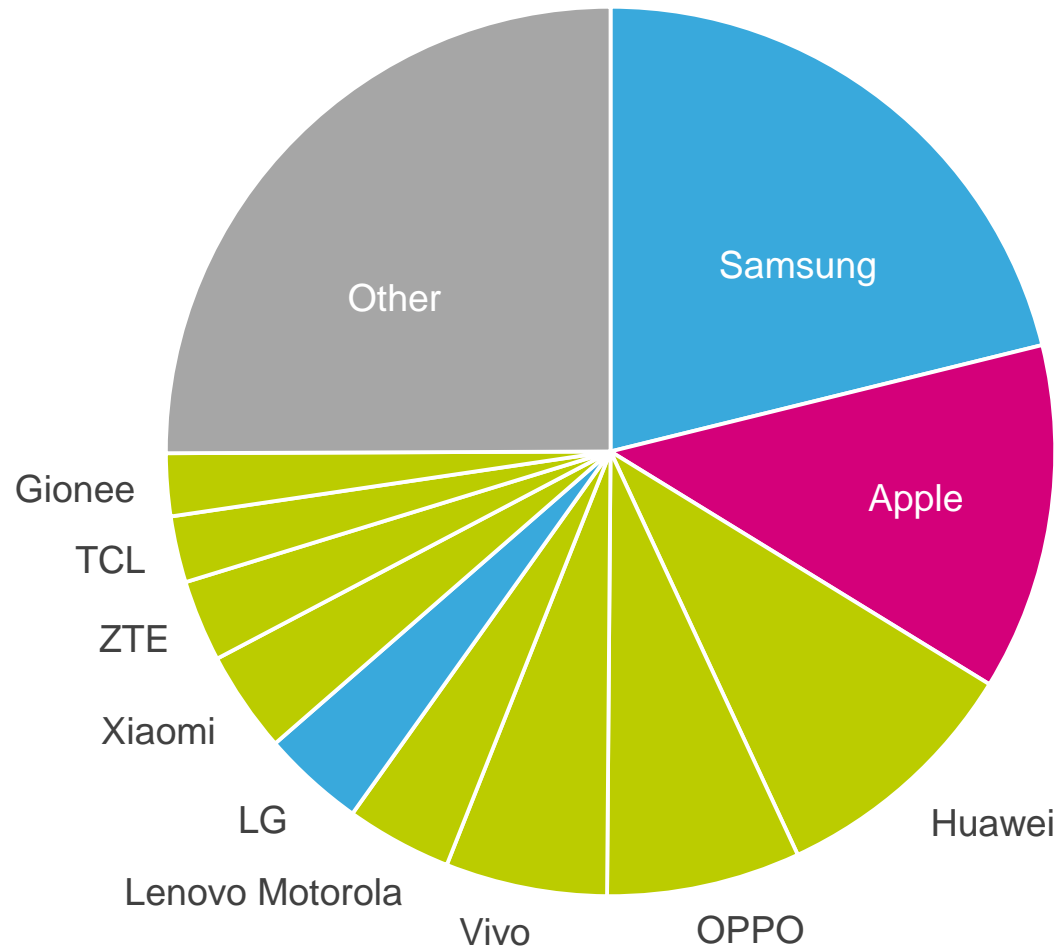
Wireless
contribution
to
ST's total revenue



- Automotive & Discrete Group (ADG): \$2.81B
- Microcontrollers & Digital ICs Group (MDG)*: \$2.28B
- Analog & MEMS Group (AMG): \$1.58B
- Others** \$291M

*MDG includes set-top box business under phase-out
**Includes Imaging Product Division

Smartphones: an Important Opportunity



Top ST Growth Opportunities

- Touch Controllers
- Power Management
Wireless Charging
- Discrete, in particular Protection Devices
- STM32 in Accessories
NFC + Secure Element
Very small form factor EEPROM
- Time of Flight - Specialized Imaging Solutions
- 6-Axis Motion Sensors
Gyroscopes for Optical Image Stabilization
Environmental Sensors
Micro-actuators for Autofocus

Smart Connected Driving

Marco Monti

Executive Vice President

General Manager, Automotive and Discrete Group



ST: a Global and Diversified Automotive Leader

with over 30 years experience



+6%
Y-o-Y

2016

>\$2.2B
Auto Revenue

Market Share (on SAM) **9%**

32% Of ST revenue

Automotive

- Automotive Microcontrollers
- Infotainment and Telematics
- V2X
- Radar & Vision ADAS
- Automotive Sensors
- Power & Smart Power

2015

\$2.1B
Auto Revenue

#1
Engine Management

#1
Smart Power

#1
24 GHz RADAR

#1
ADAS Safety

#1
Entry & Mid-end Telematics

#1
Car Audio Amplifiers

#1
GNSS

#2
Infotainment



Strong Commitment to Automotive

~35 components on average for each new car produced
Up to 800 components in premium models

Market Leader in US satellite radio market

10 Million car radio Processors shipped

3 out of 4 cars produced have at least one ST component in Engine Management

2 Million Protection Diodes & Filters shipped every day

3 Million VIPower chips shipped every day

1 Billion Lamps (1 out of 2) driven by ST

8 out of 10 cars shipped with an ADAS system on board had an ST ADAS on board

1 out of 4 Infotainment systems had an ST GNSS receiver and 1 out of 5 had an ST Motion MEMS

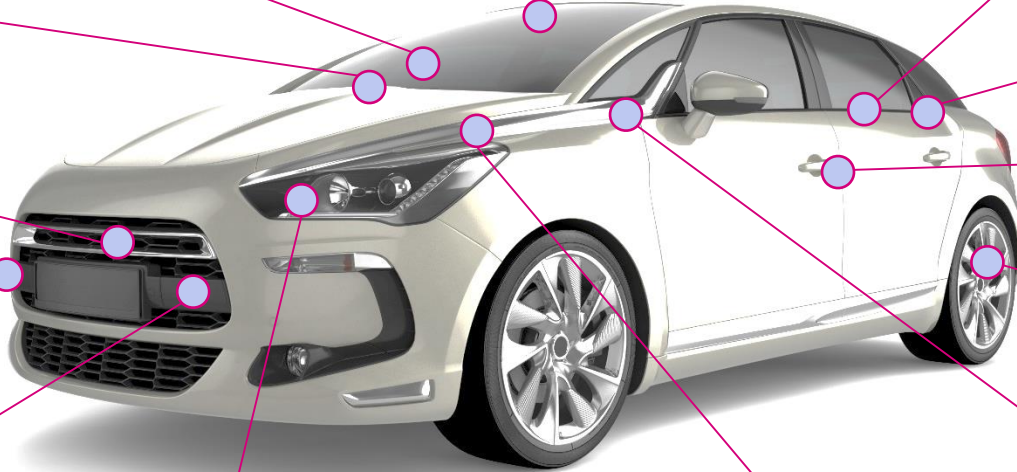
>10 Million cars equipped with ST RADAR Transceivers

>50 Million 32-bit MCUs shipped

420 Million Power Transistors shipped

2 out of 3 cars produced had at least one ST component in braking

2 out of 3 cars produced are equipped with an ST Sound System





Smart Driving Expectations for 2017

16

safer

greener

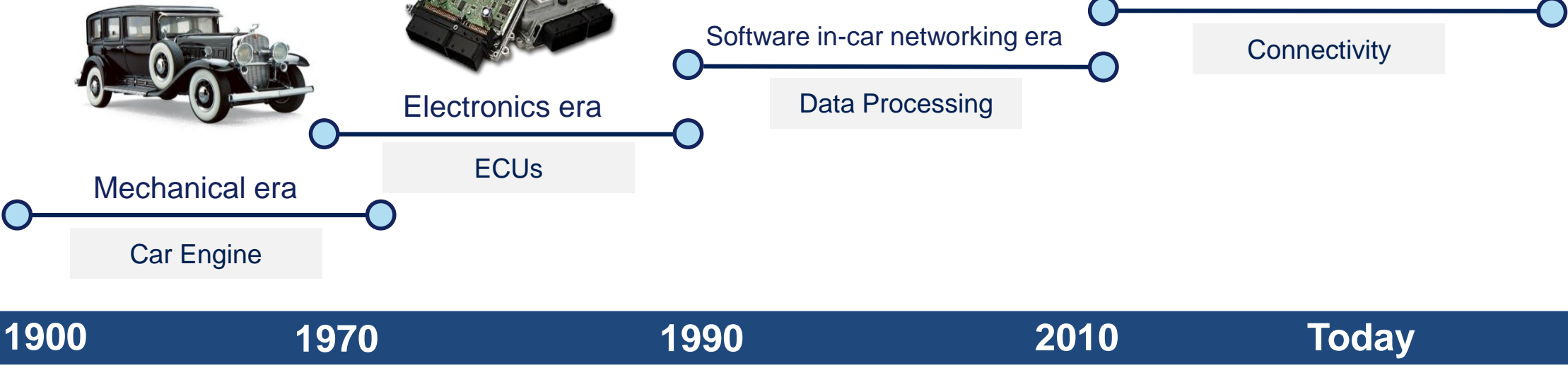
more connected

- EyeQ4 FD-SOI volume ramp-up from Crolles 300mm for several car makers
- Increasing volumes of surround view video solution with premium car makers
- 20Mpcs of RADAR based ICs to be shipped, ramping up 77GHz RF solution
- Continuing double-digit growth of 32-bit automotive MCU after ~50% growth in 2016
- SiC transistor volume ramp-up in H2 for electrical traction and on-board charging
- Accordo platform ramp-up with European, Japanese, Korean and American OEMs
- 15 new Smart Power ASICs (BCD9 110nm) entering production for key applications
- Expanding volumes in audio following contracts with our premium audio partners

Automotive Industry Transformation

From Mechanics to User Experience focus

Computational Power





User Experience is the Focal Point

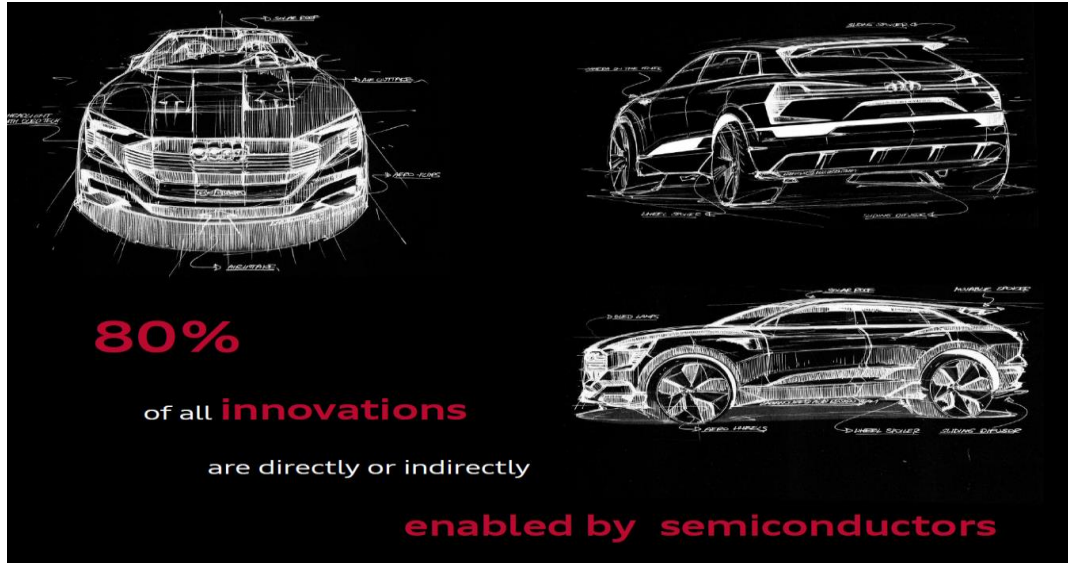
User Value Added Services



All Car Makers Focus on User Experience



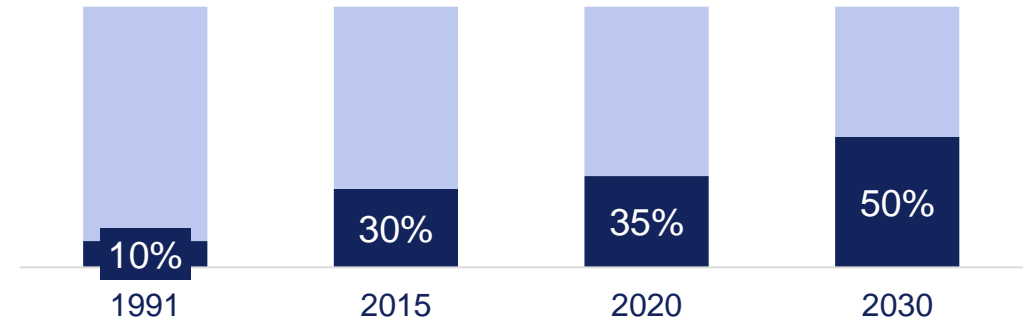
Semiconductors Leading the new Mobility Transformation



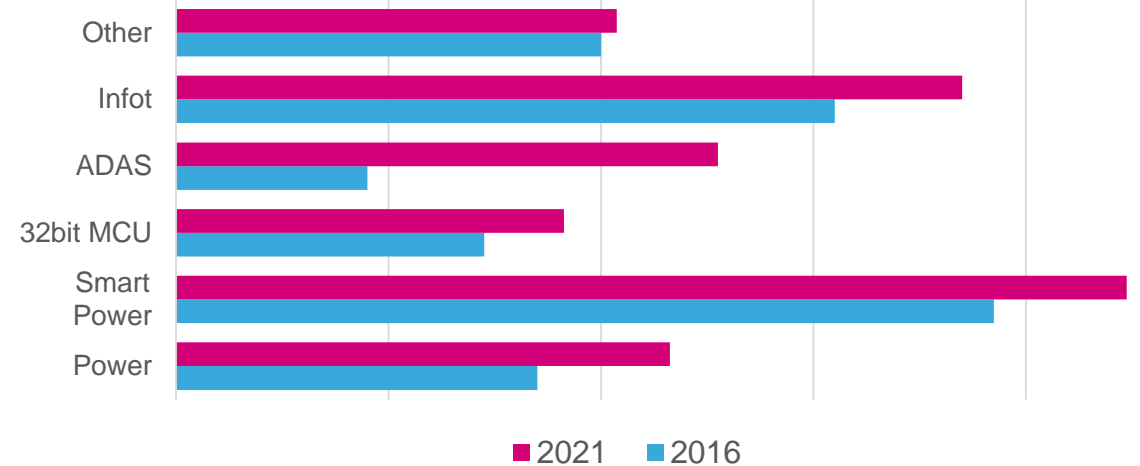
Courtesy of Audi

Electronic Component as % of Vehicle Cost (*)

(*) Data source: www.pwc.de



2016 to 2021 Automotive Semiconductor market

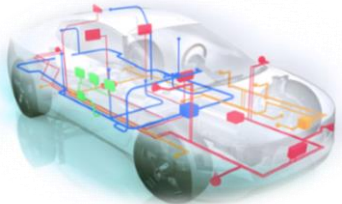


2016- 2021
Semiconductor Market CAGR +3.3%
Automotive Semiconductors +5.2%

THE NEXT ELEMENT in Smart Driving

Vehicles connected seamlessly with the world (V2X)

Car elements connected together



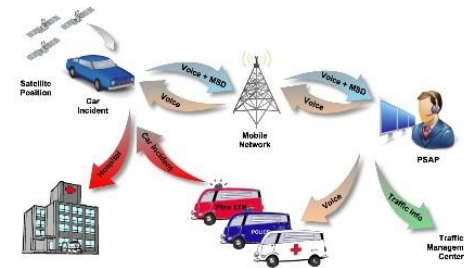
1990

Connectivity drives Infotainment



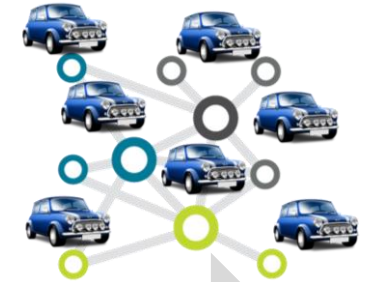
2000

Connectivity improves Safety



2010

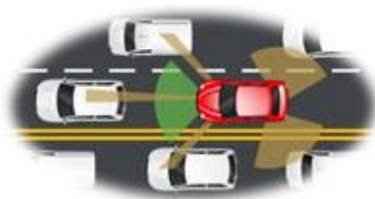
Swarm Distributed Intelligence



2020

Swarm Distributed Intelligence allows Cars to Know What, Where and When things happen

Cars Sense....



Cars Communicate....



Cars Decide



Vehicles in the Network: Today

Multiple communication channels

22


Wi-Fi

- Access to the cloud
- Vehicle-to-Vehicle Communications
- Vehicle-to-Infrastructure Communications



Terrestrial

- Digital Radio Audio/Data broadcast
- Modem connectivity
- Smartphone integration
- Emergency Call



Telematics (*)

530M\$

2016 Market




ADAS Safety (*)

735M\$

2016 Market

Satellite

- Navigation
- Satellite audio and data stream
- Insurance Box, pay-per-use



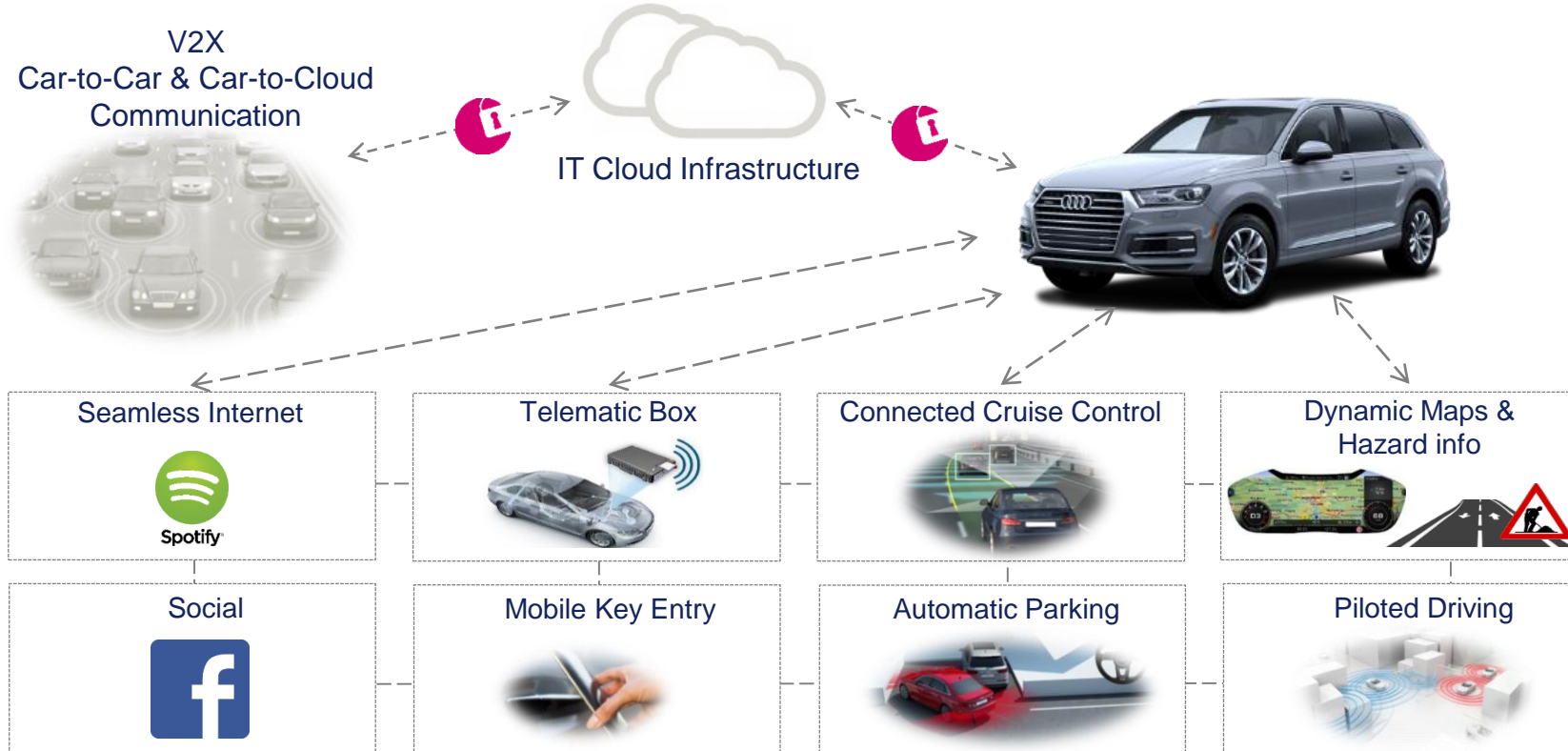
Vision & RADAR Sensing

- ADAS
- Assisted driving
- Autonomous driving



The Evolution: Vehicles to Everything

All communication channels are fused to enhance functionality



V2X Enabling Elements


- Sub-meter GNSS positioning
- Level 3+ vision based ADAS
 - Vision processor
 - RF (24/77 GHz) redundancy
 - Sensor fusion
- Wi-Fi communication
 - Secured
 - Automotive grade
- Cellular connectivity and Smart Phone integration processor
- Secure module (End 2 End security)

More connected vehicles enable innovative new functionalities for customers
Additional 730M\$ Market Opportunity by 2021 (*) on top of traditional ADAS

ST has technology leadership in all these technologies

Teseo GNSS (in production)

- Multi-constellation capability
- Navigation
- Data collection
- Flexible architecture (standalone / baseband integration)




Teseo APP - Automotive Precise Positioning Sampling 2017

- Multi-constellation capability
- Decimeter precise vehicle positioning
- Highway Autopilot, Autonomous Driving
- Valet / Automatic Parking
- Data Mining with Driver & Roads Profiling
- Black box full functionality

ST Performance

- +20% Y-o-Y Sales
- Leading with Major OEMs

ST Technology know-how

Multi-constellation and Multiband GNSS signal processing to obtain decimeter precision

Best positioning accuracy, Boost market share

Market Share Evolution (M\$)

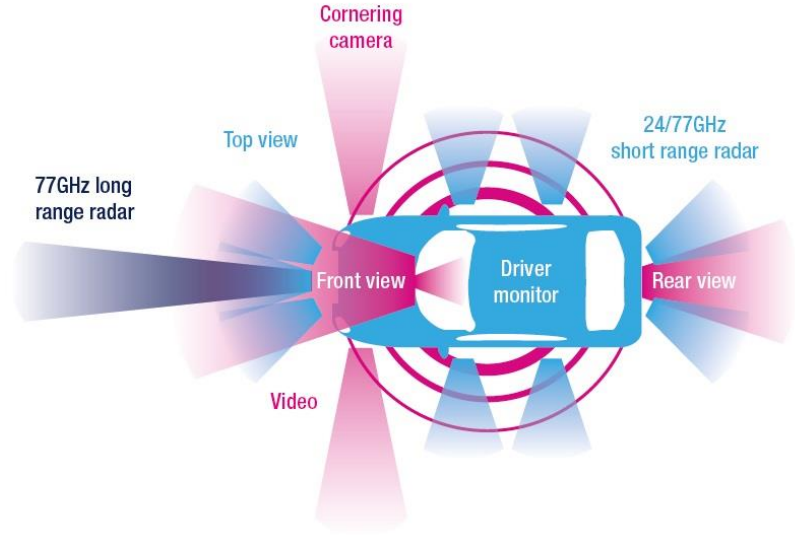
ST market share trend → ~30%

Year	Market Share (M\$)
2016	200
2021	~ 270

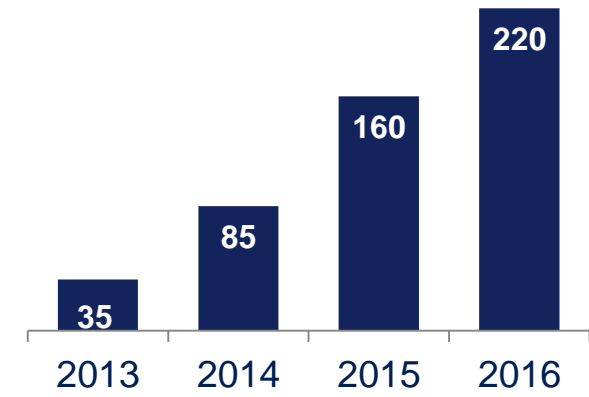
Vision Processors & RADAR sensors

The ADAS functionality

- #1 with 30% market share in ADAS safety
- #1 Machine Vision in 2016
- #1 in RF RADAR Transceivers Market in 2016



ST Sales in ADAS (M\$)



- 2005**
 - Mobileye 1st Gen
- 2010**
 - Mobileye 2nd Gen
 - 1st 24Ghz Gen
- 2015**
 - Mobileye 3rd Gen
 - 2nd 24Ghz Gen
 - 1st 77Ghz Gen
- 2017**
 - Mobileye 4th Gen
 - 2nd 77Ghz Gen
 - Auto Parking MPU
 - Surround view Video Processor
- 2020**
 - Mobileye 5th Gen
 - High data rate Radar MCU
 - 360° Vision video processor

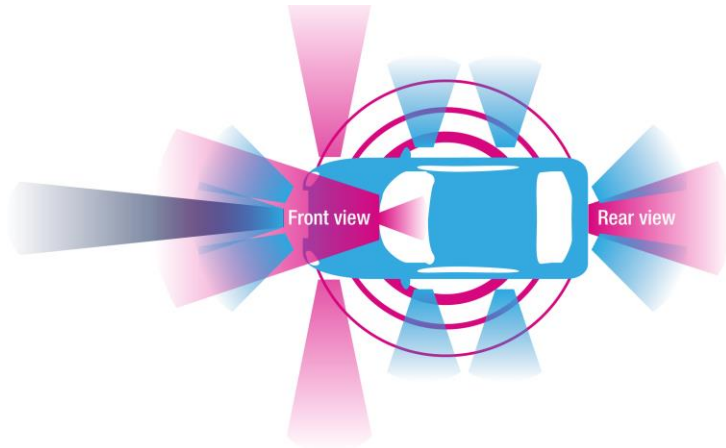
Highest Growth in RADAR Transceivers (> 30Munits expected to be shipped)

Powering de facto market standard for vision based ADAS (EyeQ)

Progressively expanding vision-based ADAS solutions

Vision Processing beyond ADAS

non-safety features enabled by connected real-time vision processors



Mobileye & HERE partnership

Dynamic HD MAPS

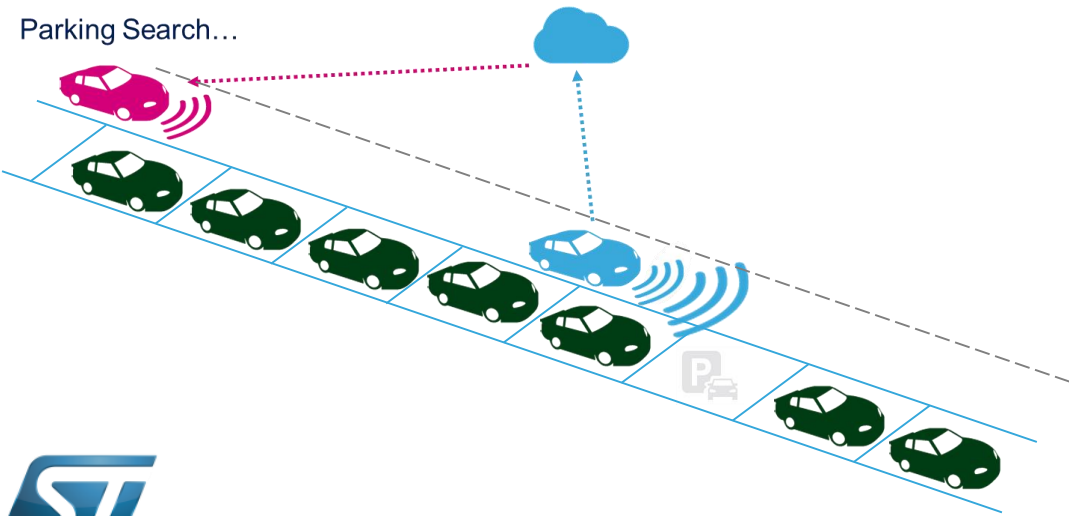
Application examples

Available Parking Identification

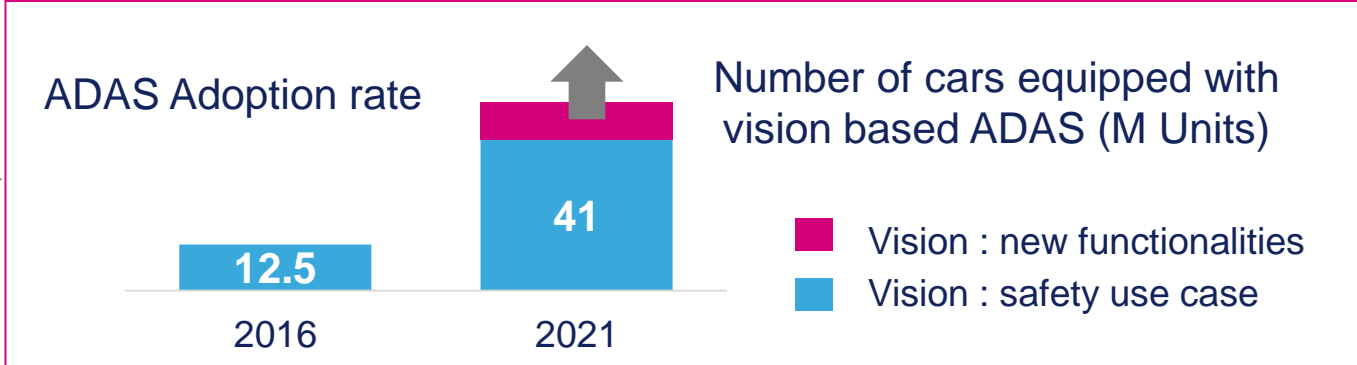
Road Condition Reporting

Localized Hazard Information

Queue Management



NEW end-user functionalities boost ST product adoption rate



Autotalks Partnership

V2X Wi-Fi modem + multicore ARM processor

Secure Modem Connectivity



ST – Autotalks Technology at a glance

- DSRC: Wi-Fi -11.p
- Autotalks modem proprietary IPs (HW+SW)
- ST Multicore ARM real-time processor IPs (HW+SW)
- Full Compliance with US Mandate
- Fully proven Cyber Security protection
- Cutting Edge RF performances
- High operating temperature for Auto Grade quality



10

OEMs Awarded
US, EMEA, JAPAN

>50%

2023 Market Share

200M\$

2023 Opportunity

Complete Solution to bring Connectivity to every car



560 M\$
2021 Market Value



Accordo platform Smartphone Integration Processor

- Multi-core ARM processor
- Full phone replication in dashboard
- Multi-standard capabilities
- Advanced graphic to complement car HMI
- Automotive quality



Telemaco platform Telematics and Connectivity Processor

- Multi-core ARM processor
- Unique embeded security module
- Automotive quality
- Flexible system architecture

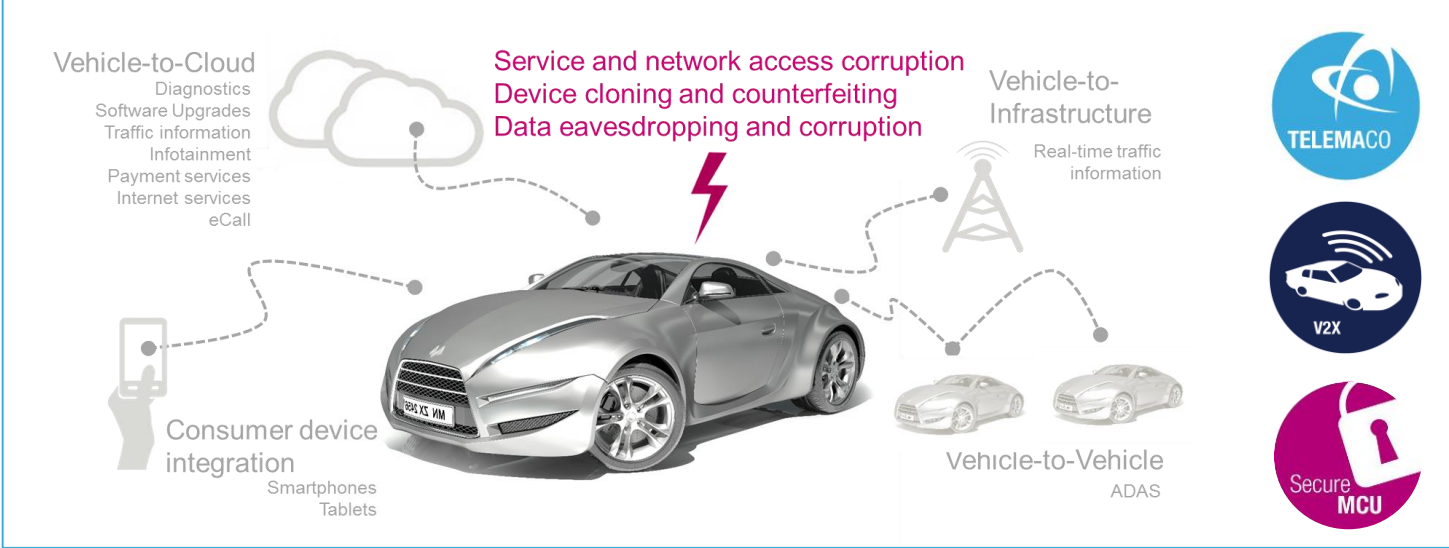


Automotive Security requires two levels of protection

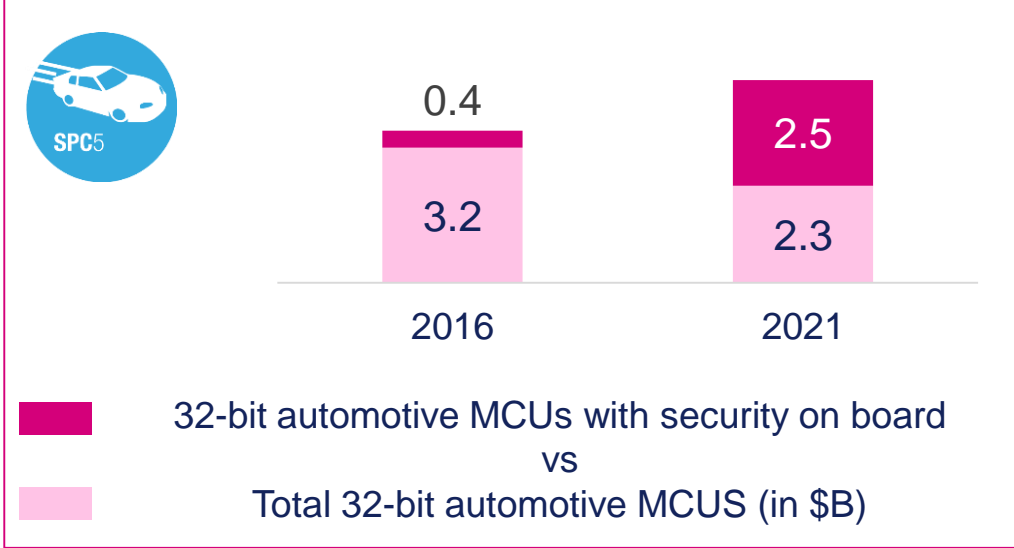
1st Level: Authentication and securing of the connection with the external world

2nd Level: Data integrity and secure communication inside the car and in the car sub-systems

Connected vehicles become more vulnerable to attacks (1st Level)

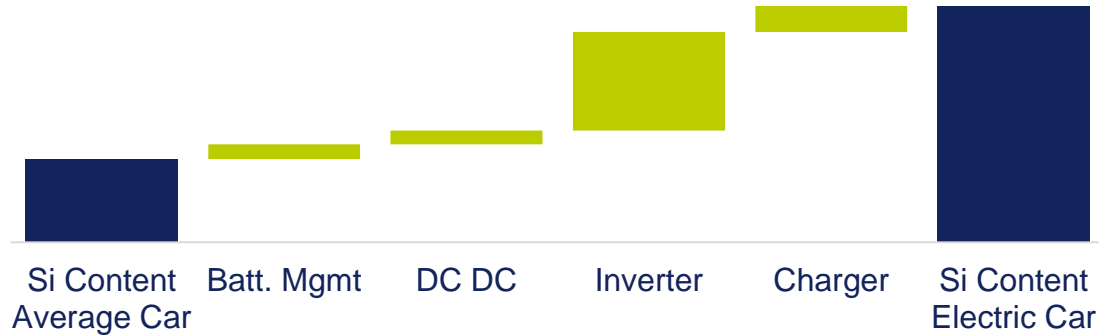


32-bit Auto. MCU with embedded security (2nd Level)



ST Commitment to Electrical Mobility

500\$ Additional Opportunity per Vehicle (*)



SiC Advantages vs. Conventional IGBT

- 5-8x smaller size
- 7x lower switching loss (W)
- 40% lower total loss (W)
- 40% higher working temperature



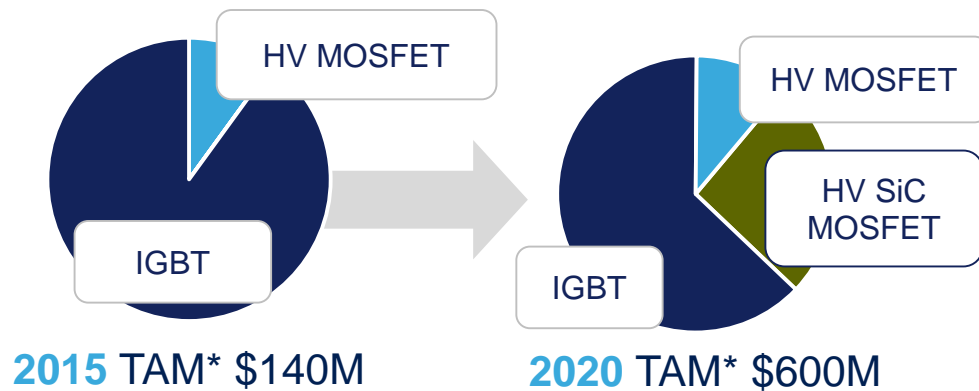
Extended mileage

ST unique competitive offer

- Chargers SiC diode (650/1200V)
- Main inverter SiC MOSFET (650/1200V)
- On Board Charger SiC MOSFET (650/1200V)

ST target is to be market leader in SiC components

Market Evolution (*)





- ST is a market leader in Automotive with a full product offer
- Car connectivity is progressively changing the automotive industry
- Seamless connectivity with infrastructure, other vehicles and the cloud makes the car safer and enhances the user experience
- This trend, together with the electrification, is progressively increasing the silicon content in every vehicle
- ST is ready to serve this market transformation with its connectivity solutions, including Wi-Fi and terrestrials channels, precision GNSS, Cameras, vision processing, RADAR and sensors



Meeting the needs of the IoT

Controlling, connecting and securing the IoT

Claude Dardanne

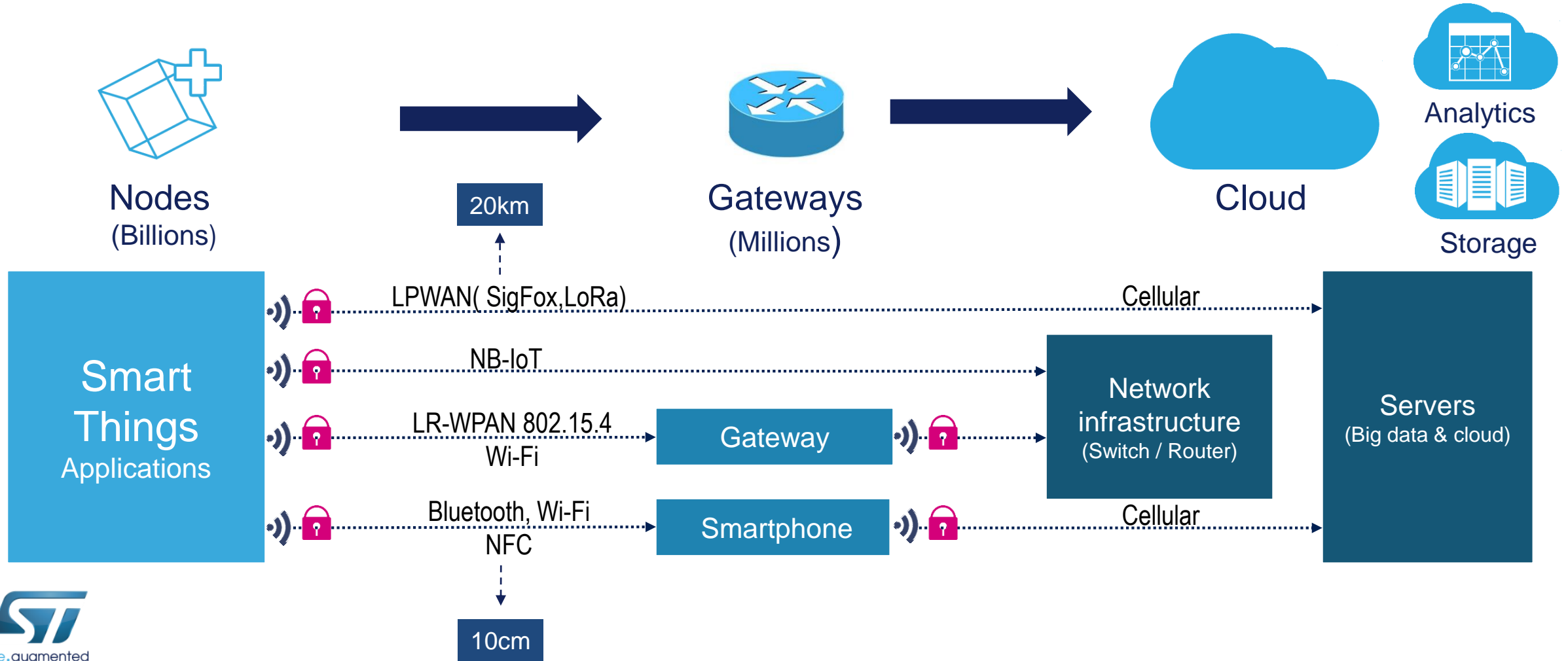
Executive Vice President

General Manager, Microcontrollers and Digital ICs Group

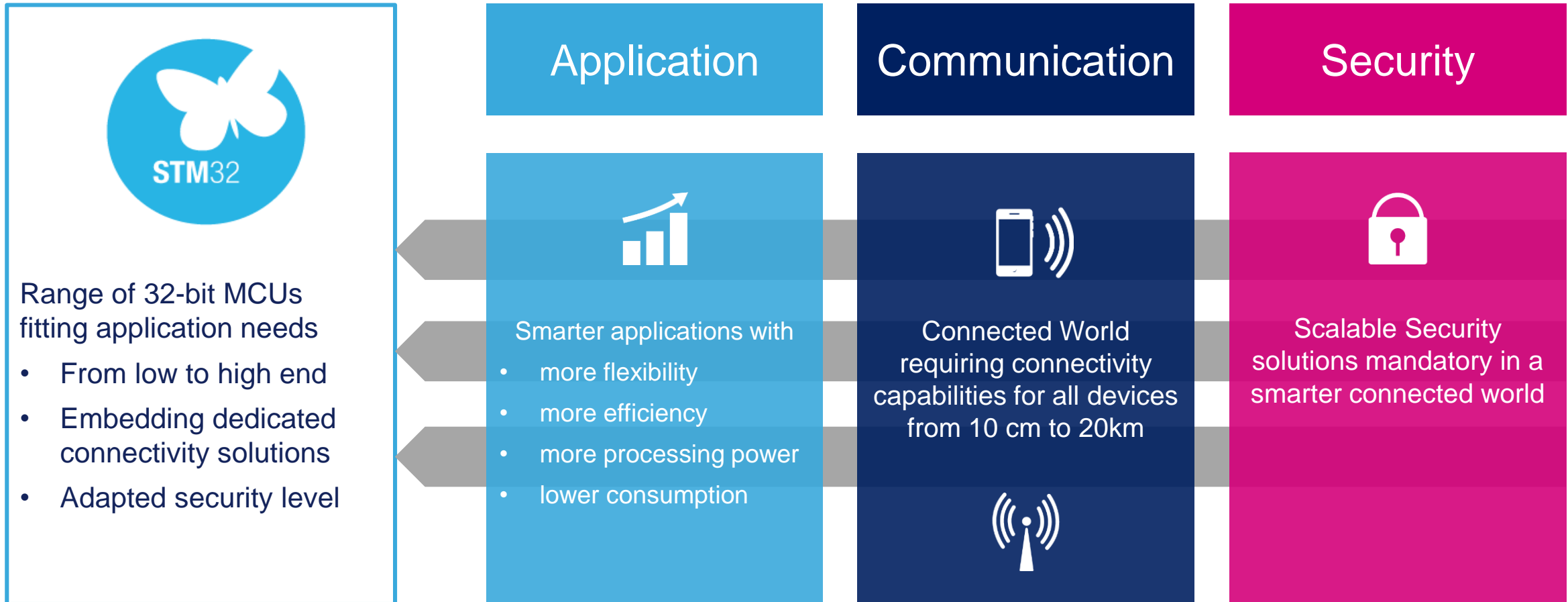


life.augmented

Any system able to leverage the Internet and its ecosystem

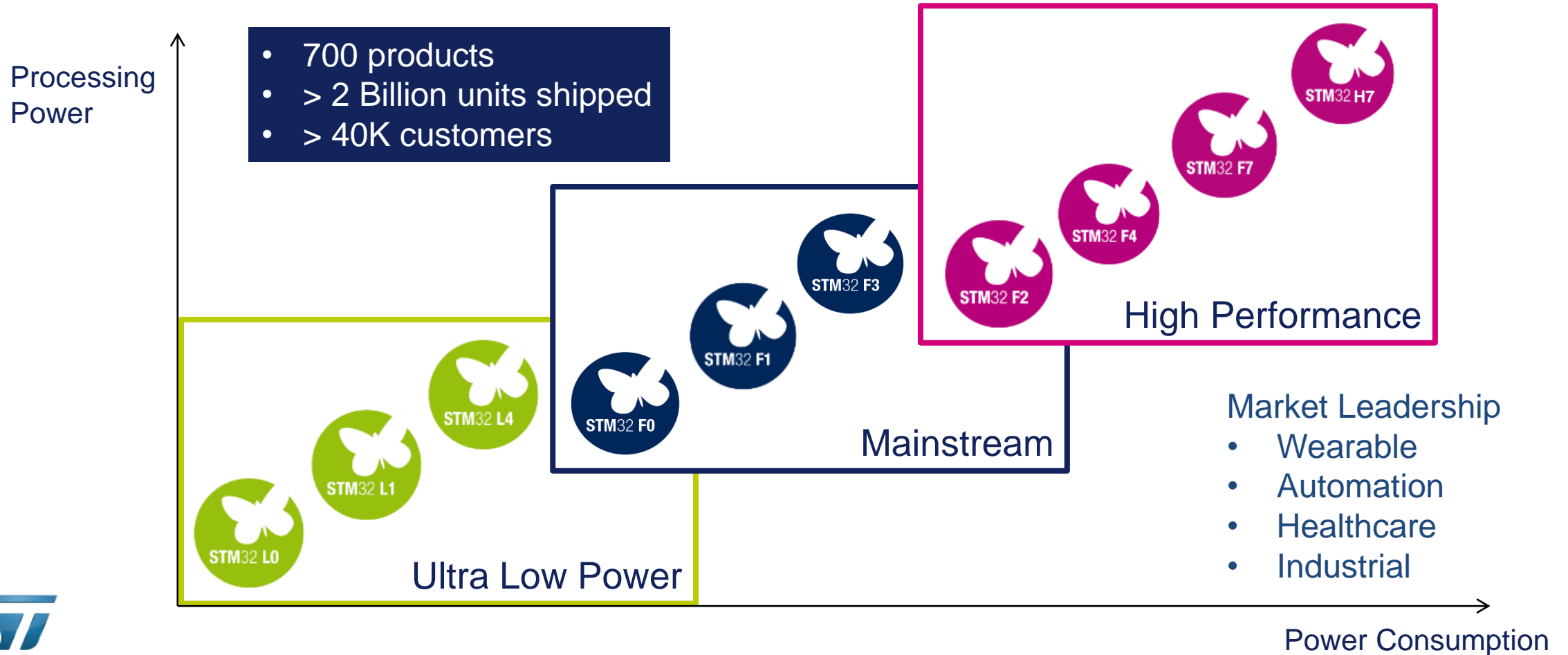


The brain of IoT applications



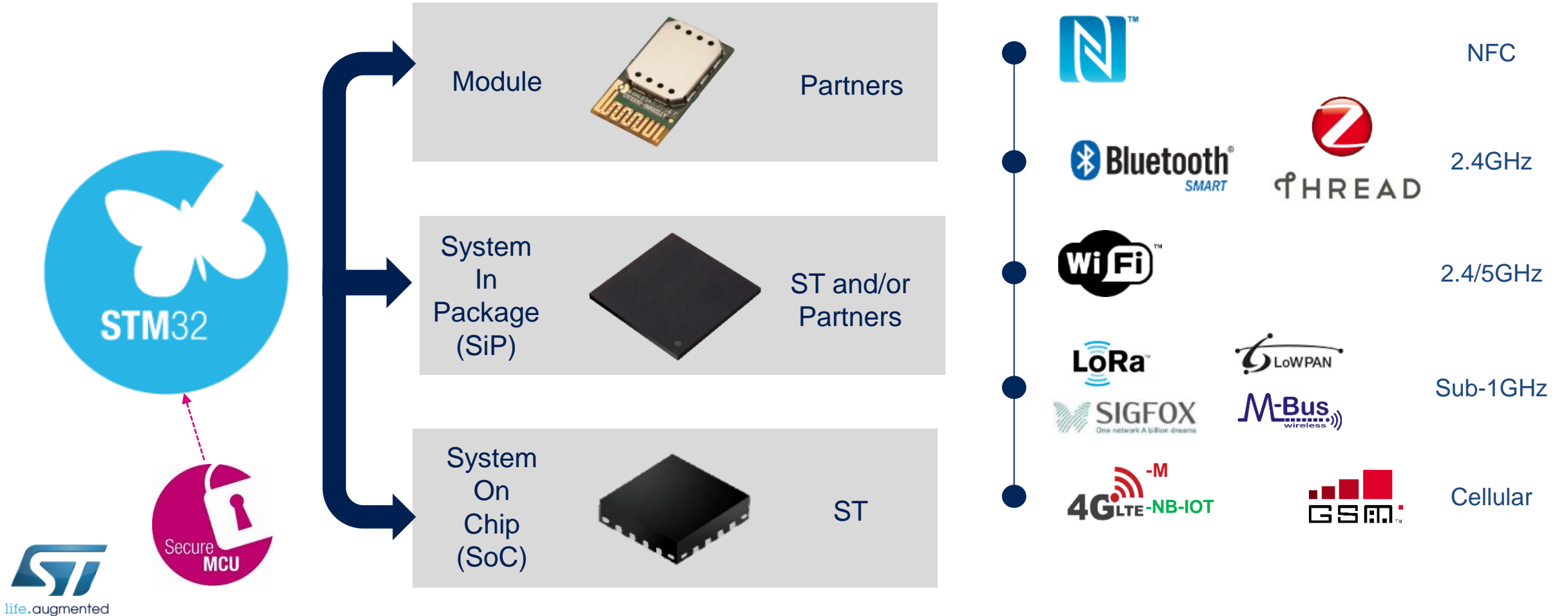
Broad portfolio serving many applications

Leading 32-bit Microcontroller Supplier (excluding Automotive)

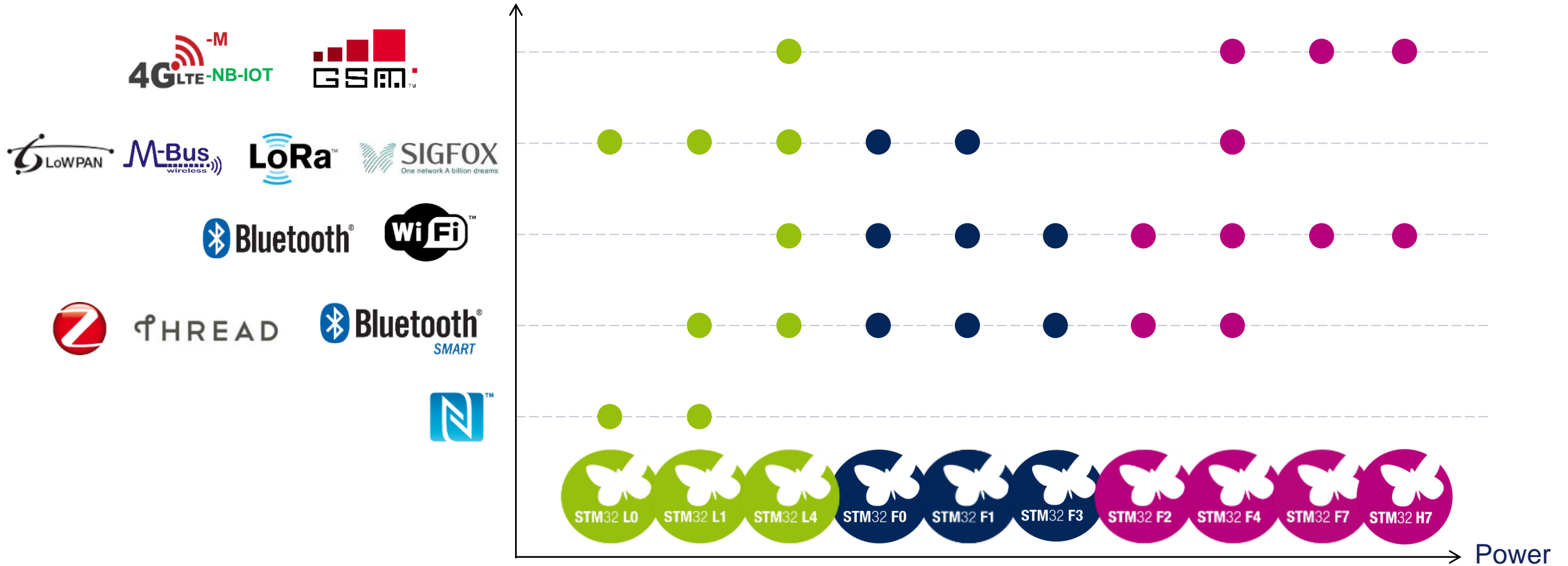


Connectivity Powered by the STM32

From Module to Integrated Solutions
Meeting requirements for time-to-market and volume




Powering a broad range of connectivity solutions



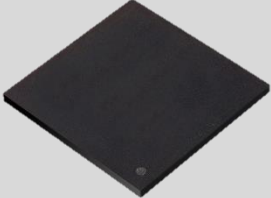
Connectivity powered by the STM32

Some Examples – LoRa™

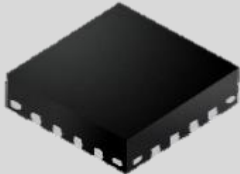


Module  Partners



System In Package (SiP)  ST and/or Partners



System On Chip (SoC)  ST



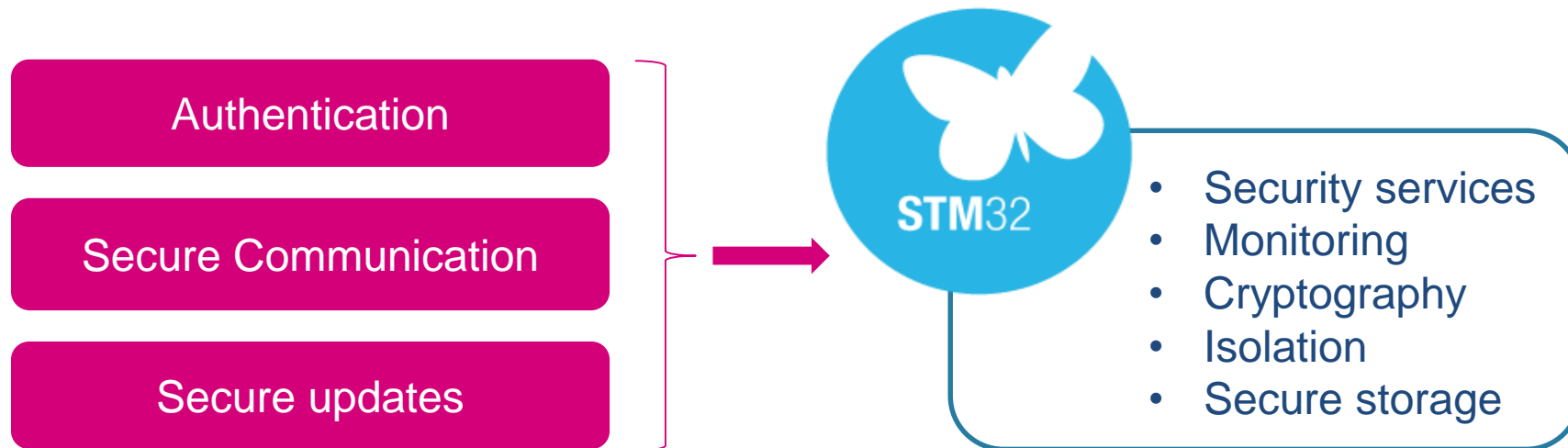
STM32WL

Protection against software attacks

Threat: Malware installed on IoT nodes throughout the network to perform remote illegal actions

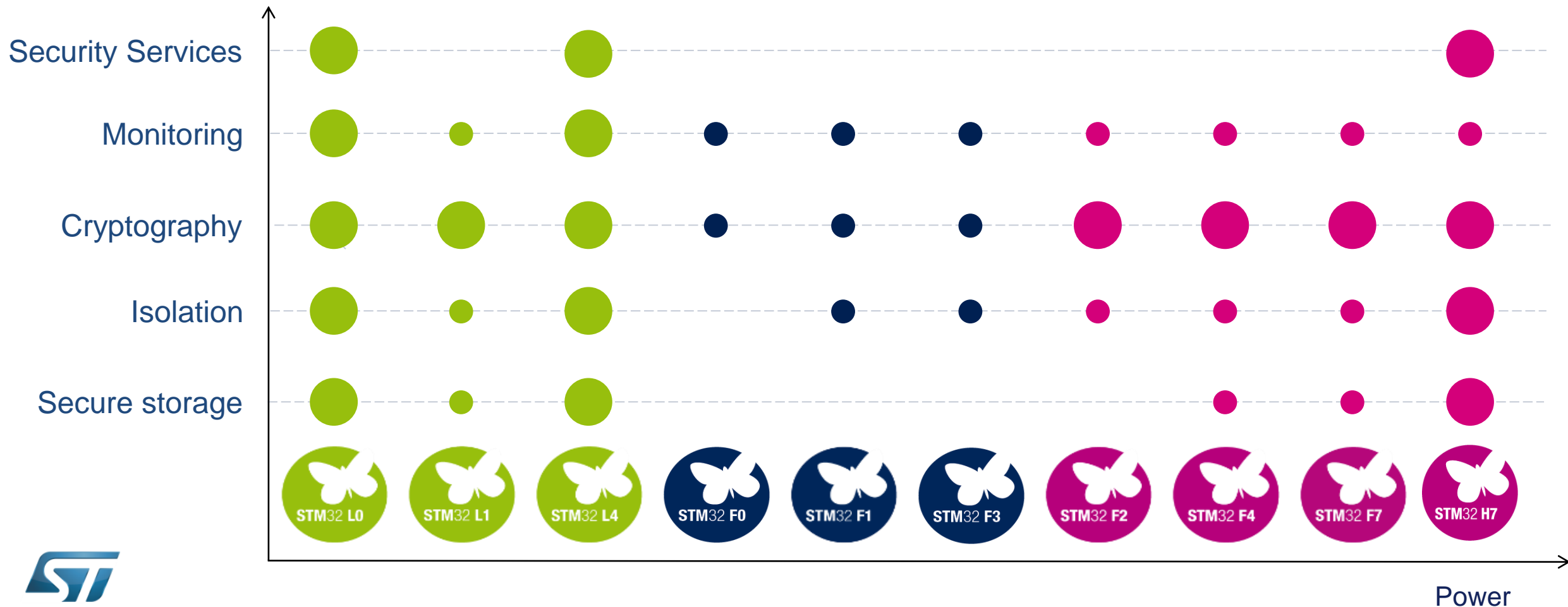
- Distributed Denial of Service
- Ransomware

Solution: Prevent malware infection by implementing security in end-devices



Embedding scalable security

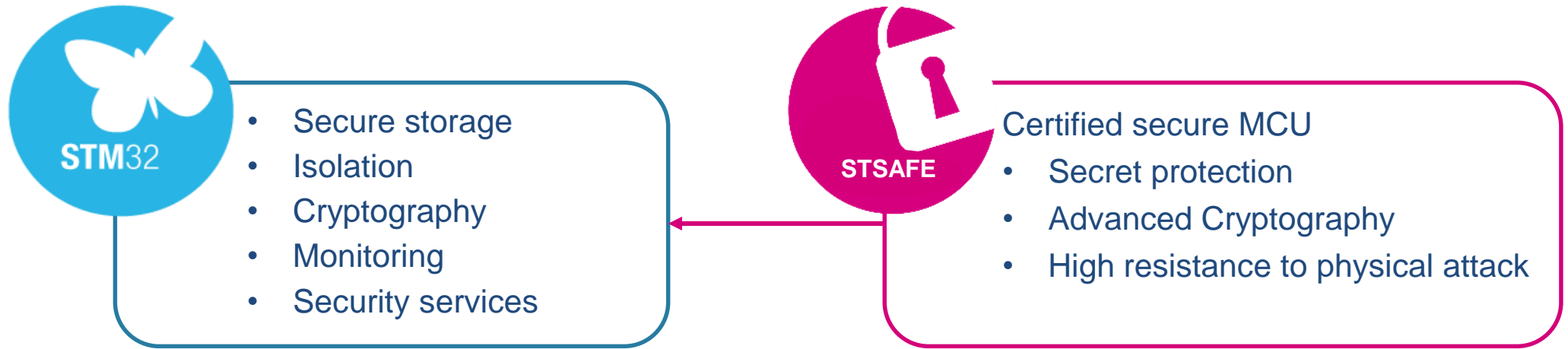
Solutions for ultra low power and high performance platforms



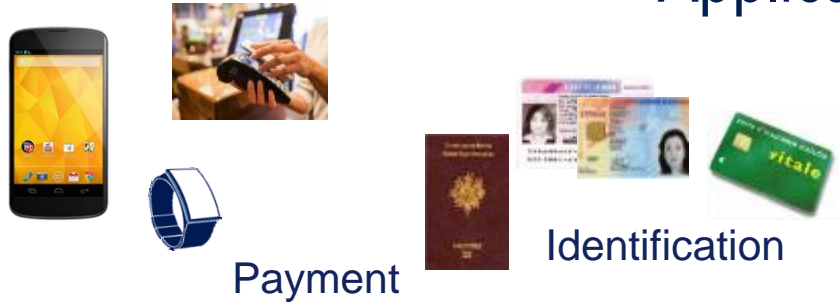
Protection against hardware attacks

- Threat:** Security (authentication, secure communication & secure updates) relies on cryptography and secret keys
- Cryptographic key extraction could be performed using physical attacks methods

Solution: Strengthen key protection with **STSAFE**



Application



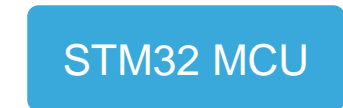
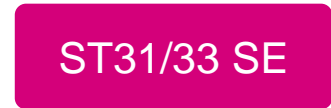
Smart Grid, Industrial gateways



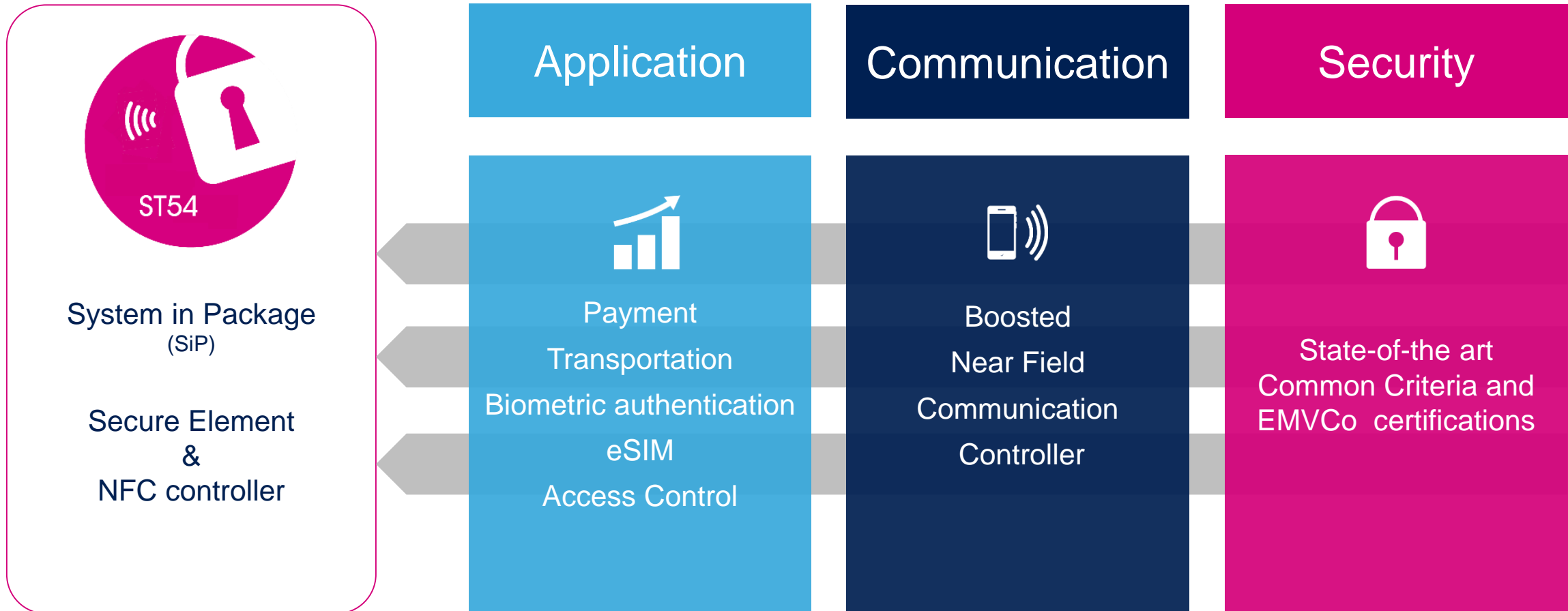
Communication



Security



State-of-the-art secure solution for mobile transactions



Solutions adapted to smartphone market needs

ST21NFCD Controller (80nm)

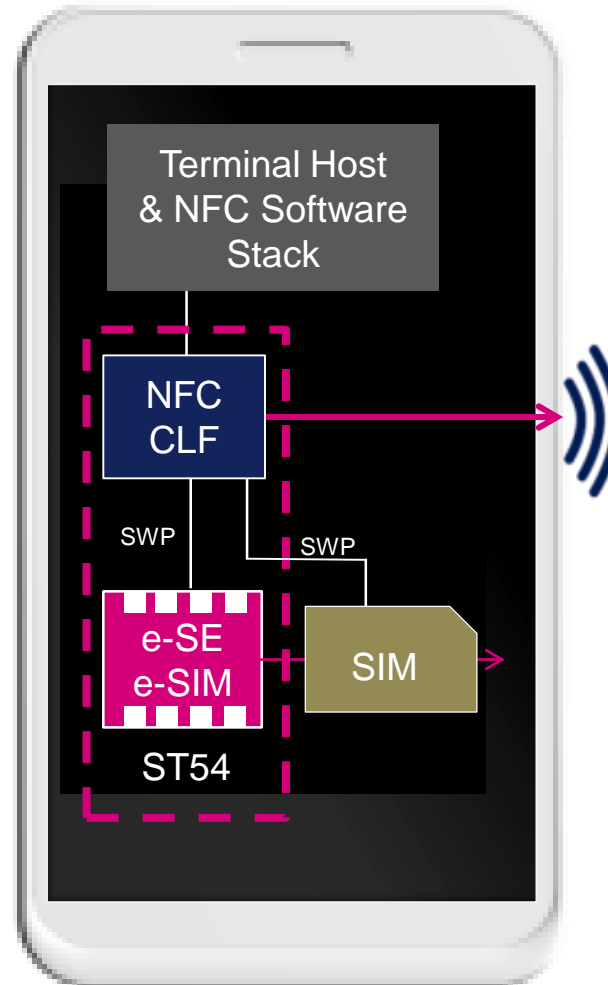
- Boosted for tiny & metal cover antenna
- Reduced BOM
- Low Power mode
- Card emulation, Reader & P2P

ST33G1M2 SE (80nm)

- 1.2MB Flash
- e-SE & e SIM capabilities
- EMVCo, CC EAL5+

Licensed 3rd party OS

ST54F



ST21NFCD Controller (80nm)

- Boosted for tiny & metal cover antenna
- Reduced BOM
- Low Power mode
- Card emulation, Reader & P2P

ST33J2M0 SE (40nm)

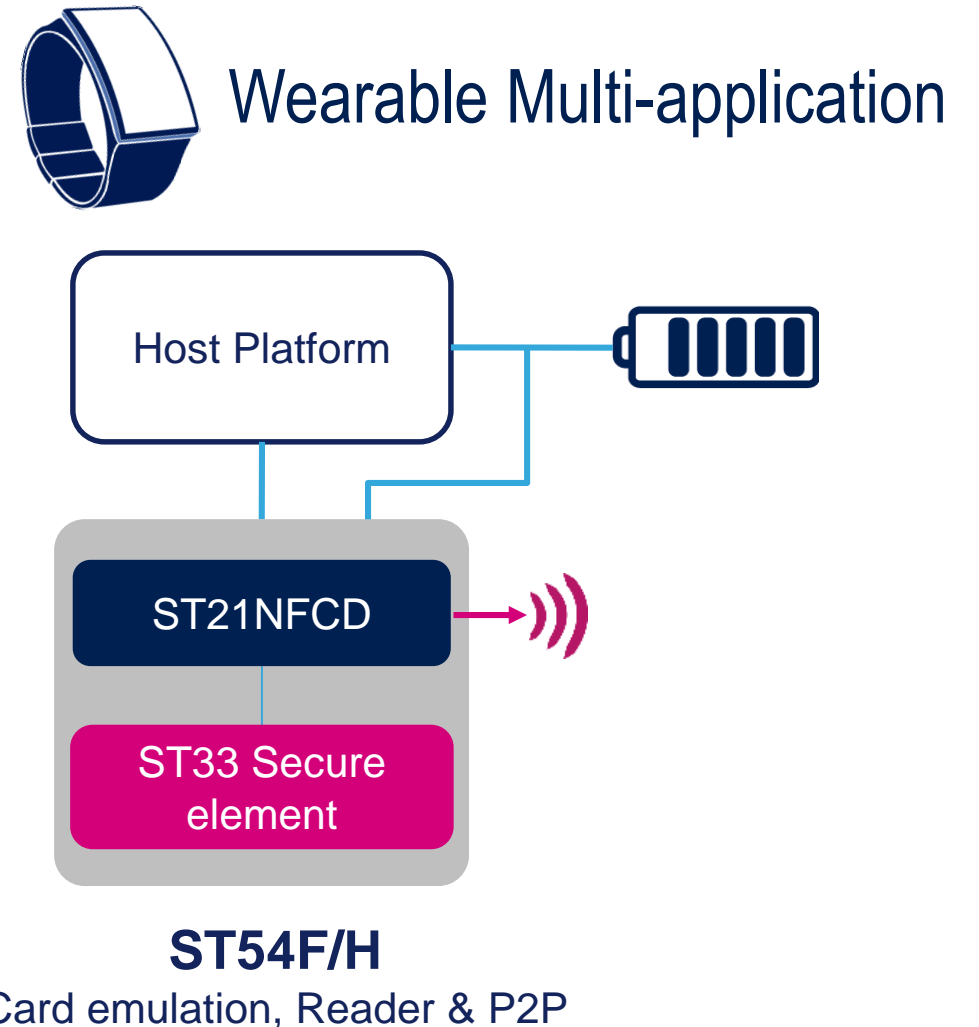
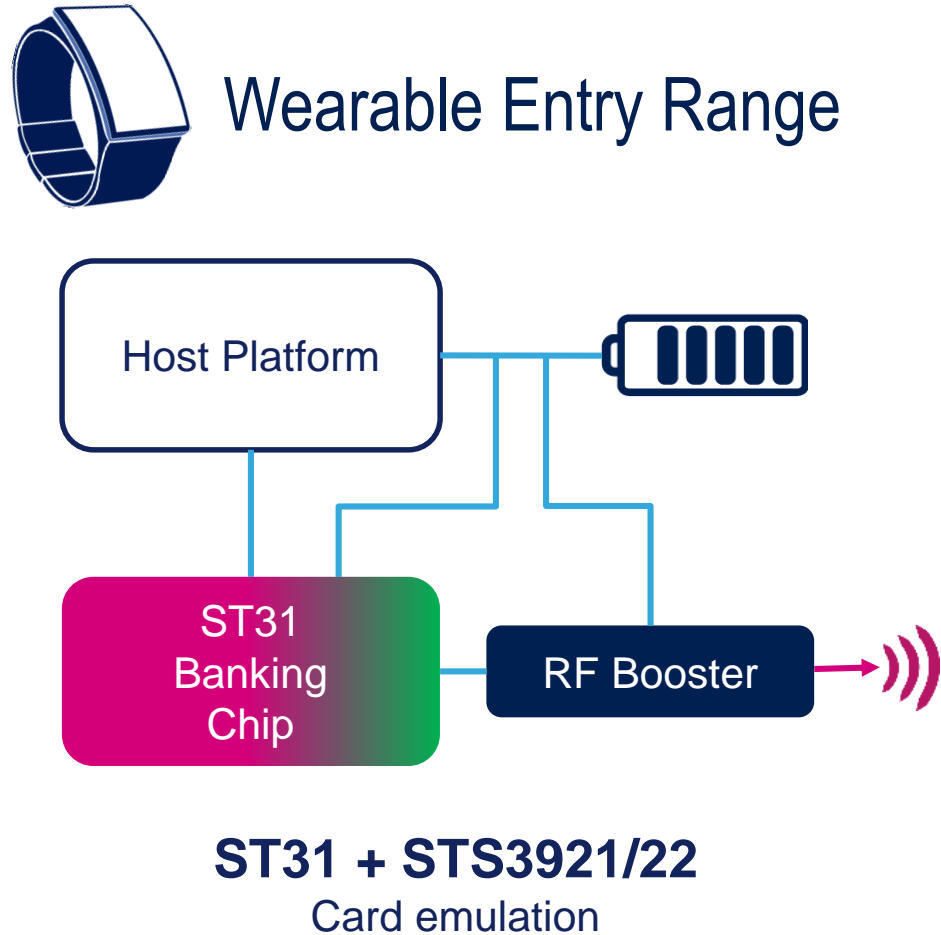
- 2MB Flash
- Increased Performances
- EMVCo, CC EAL5+

Licensed 3rd party OS

ST54H

Boosted ST31 and ST54

Payment & transport solutions for wearable devices



Market Trends

Smart Things 	Smart Home 	Smart City 	Smart Industry 
Ultra-low power Processing power	Short-range connectivity Advanced peripherals	Long-range connectivity Smart peripherals	Security features and certification

ST Offer

Broad MCU offer



Accessible ecosystem for application development



STM32 Nucleo development kits



STM32 Open Development Environment



ARM mbed enabled



STM32 Cube

Free SW platforms for all OSES

Educational Programs & MOOC





Meeting the needs of the IoT

Sensors, Analog, Power & RF

Benedetto Vigna

Executive Vice President

General Manager, Analog and MEMS Group

When you Think of Analog & MEMS

Think ...

Gyroscope

Smart 6-axis IMU

Pressure sensor

STSPIN

Magnetic sensor

Thermal Actuator

Microphone

Wireless Charging

STDRIVE

(with/without galvanic Isolation)

VIPerPlus

Accelerometer + Pedometer

Piezo Actuator

LDO

STNRG

STLUX

Op Amps

Wi-Fi

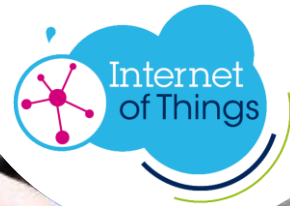
SubGHz

Bluetooth Low Energy

HVLED

AMOLED DC-DC controllers

Touchscreen Controllers



Consumer



Industrial



Automotive

Winning in leading mobile & wearable devices



fitbit charge 2
Heart Rate + Fitness Wristband

Sensing

Connectivity

Signal Conditioning & Protection



Microsoft Band 2

Sensing

Connectivity

Signal Conditioning & Protection

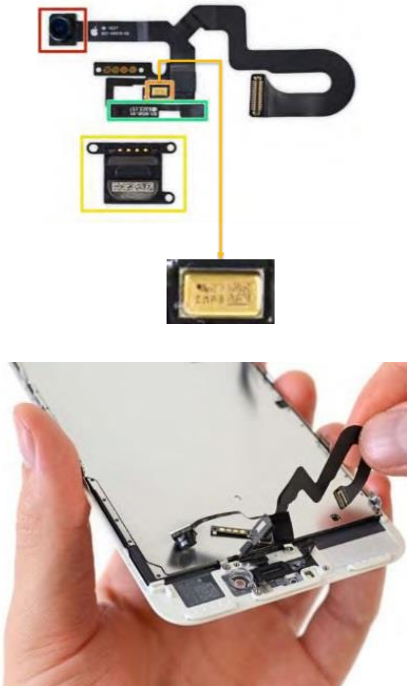


SAMSUNG Galaxy S7

STMicroelectronics LSM6DS3 6 Axis IMU

STMicroelectronics L2G2IS Gyroscope

Sensing



Apple iPhone 7

Sensing

<http://www.systemplus.fr/reverse-costing-reports/apple-iphone-7-plus-mems-microphones/>

And with Other Leading Smartphone Makers



P9 / P9 Plus



Mate 9 / 9 Pro



Mate 8



Mate S



Honor Magic



Honor V8



Honor 5X



Mi Mix



Mi 5



Redmi Note 3



Mi Note 2

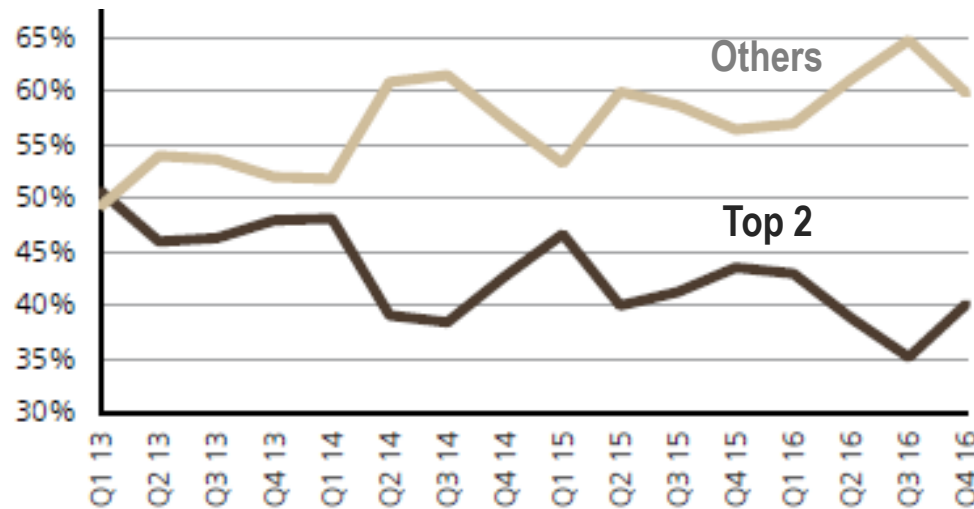


X6 /X6 Plus



Xplay 5

Smartphone volume market share



R9 Plus



R9s



R7 Plus



R7s



Moto Z Force



Moto G4 Plus



Pro 6s



Pro 6 Plus



Elife S8

Source: UBSe

High Performance & Smart Motion Sensing

OPTICAL IMAGE
STABILIZATION
GYROSCOPE

L2G2IS

High performance and accuracy (ZRL ± 5 [dps], phase delay 5 [deg]@ 20 Hz).



ACCELEROMETER &
GYROSCOPE
6-AXIS IMU

LSM6DSM

Low power, low noise combo unit for User Interface and Image Stabilization.



ULTRA LOW POWER
ACCELEROMETER

LIS2DW12

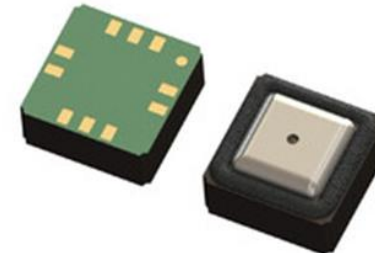
Ultra low power accelerometer with embedded FiFo for wearable applications.



HIGH ACCURACY
PRESSURE SENSOR

LPS22HB / LPS35HW

Compact high performance and stability, low power, water resistant pressure sensor.



ACCELEROMETER &
MAGNETOMETER

LSM303

Compact accelerometer and compass unit with pedometer capabilities.



Diversification Strategy

New products

New products for traditional markets

This quadrant represents the development of new products for traditional markets. It features icons for a microphone, a thermometer with a water drop, a hand touching a screen, and a smartphone. The product images include an iPad, a smartphone, and a stylus.

New products for new markets

This quadrant represents the development of new products for new markets. It features icons for an envelope, gears, and a Wi-Fi symbol. The product images include a hand using a laptop, a modern house, an Internet of Things logo, and a 3D printer.

Traditional products for traditional markets

This quadrant represents traditional products for traditional markets. It features icons for an atom, an arrow, an op-amp, and a battery. The product images include memory cards, a smartwatch, and a smartphone.

Traditional products in new markets for ST

This quadrant represents traditional products in new markets for ST. It features icons for an atom and an op-amp. The product images include a living room, an Internet of Things logo, and a VR headset.

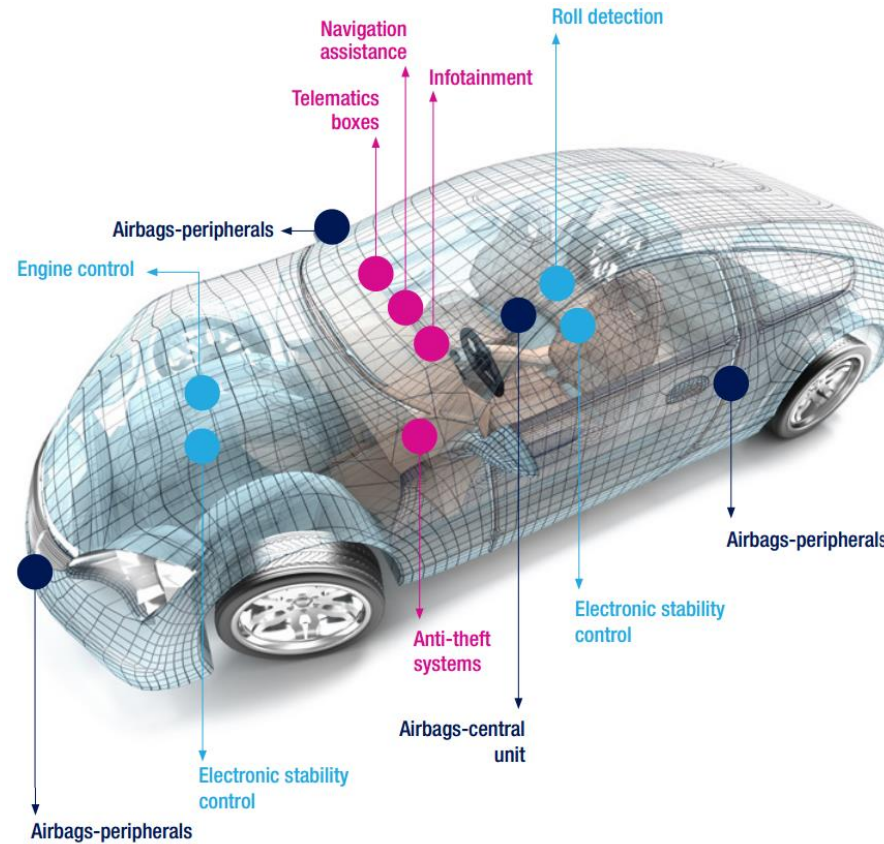
New Markets

Navigation & Telematics

6-axis inertial module for navigation assistance



Medium-g accelerometer for telematics boxes



Safety

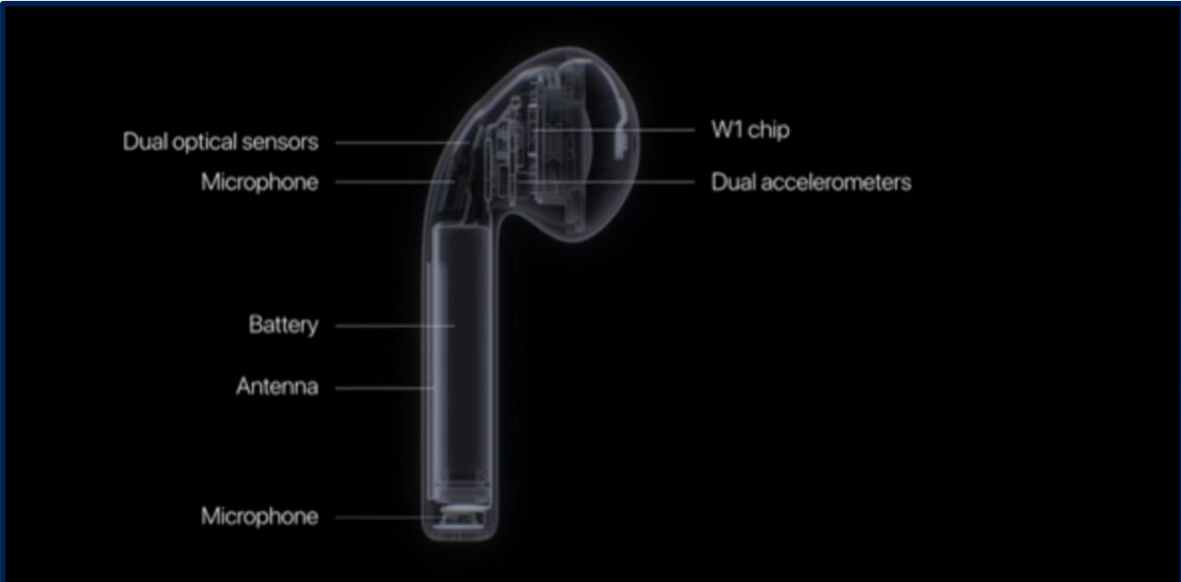
Hi-g accelerometers for airbag applications



Gyroscopes for vehicle dynamics applications



New Applications for Motion MEMS & Analog



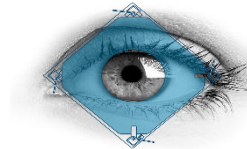
Each Airpod is identical in design and chip count. Within the two ear buds, here are the major IC counts:

STMicroelectronics ultra low power 3 axis accelerometer	2
STMicroelectronics low dropout regulator	2

www.techinsights.com/about-techinsights/overview/blog/airpods-airpods-and-the-W1-wireless-SoC-squeezing-innovative-technology-inside-very-small-packages/

Actuator Partnerships

Piezo Autofocus



Ultrasound Ranging



Micro-mirror Projection



MEMS Loudspeaker



Virtual Reality Experiences



Get the thrill of the game up close



Enjoy your private entertainment



Immerse yourself in the News

Sensing Opportunities



Motion MEMS



Ranging



Ultrasound



The best view for concerts & shows



Travel to impossible places



Fly your Drone in the virtual world



The next step in Social Networking



Visit before you visit



A new way to educate

FingerTip Touchscreen Controllers



Smart Touch Screen controller - Context Aware

Understands the surroundings
Water on screen, Gloves

Low drawing latency
Augmented Reality

Understands user intentions
Grip or Touch

Be energy-efficient
Longer Battery life

Interacts with accessories
Intelligent Cover

ST proprietary technology

- 32-bit Processing
- Low Latency
- Hybrid Scan
- High Sensitivity
- Ultra-Low Power

Wireless Charging

Inductive and magnetic resonance solutions

Multi Mode Qi/Airfuel Wireless Power Bi-directional - Receiver & Transmitter



- Plug and play solution certified with Qi 1.2 15W and Airfuel Inductive 5W standards
- Wireless Power Receiver with Transmitter Function

Magnetic Resonance In partnership with WiTricity



- Power without compromise – milliwatts to kilowatts
- "Drop and Charge" user experience
- Fast charging with high efficiency and safety



Power & Energy
Management



Advantages of Magnetic Resonance

- Spatial Freedom
- Power delivery through surfaces - *wood, concrete, granite, plastic, etc.*
- Multiple devices/single source - *differing sizes & power levels*
- Scalable power transfer – *milliwatts to kilowatts*

Faster charging time, Enhanced user experience



USB Type-C and Power Delivery

- Robust & safe for devices & users
- High voltage analog ICs
- Plug & play, easy device configuration
- Reliable & certified hardware



Quick Charge

- 24W Offline charger for smartphone/tablet based on Quick Charge™ 3.0

Size, Power & Simplicity

Motor control for the IoT

60



Power Transistors

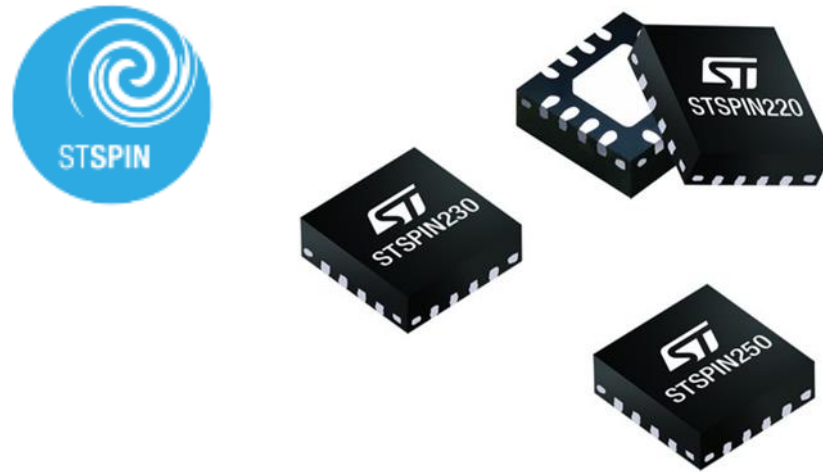


Motor Control



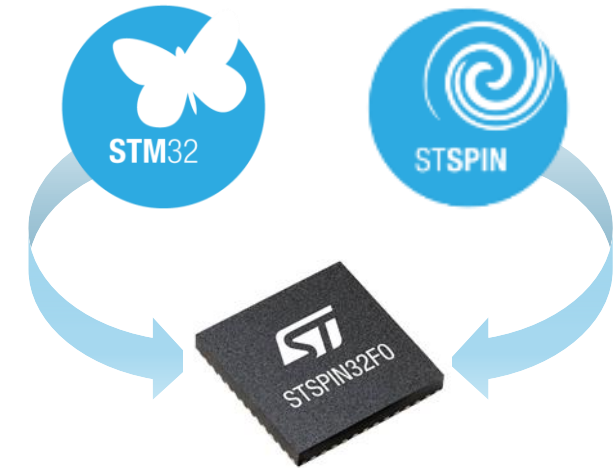
Microcontroller

World's Smallest Motor Drivers to Streamline Design and Boost Runtime of Battery-Powered Devices for the Internet of Things



- Tiny 3mm x 3mm package
- Standby current of less than 80nA
- Down to 1.8V operating voltage for ultra low

Power and Simplicity in Intelligent Motion-Control Device for Smart Industry and High-End Consumer Electronics



- Highly integrated system-in-package 7mm x 7mm
- Powerful ST ecosystem comprising tools and software including motor-control algorithms

Bluetooth Low Energy Processor Family



Wearable



Beacon / Retail



Diagnostic



Medical

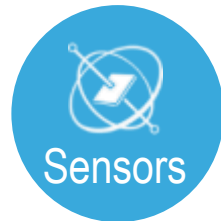


Toys / Gaming



BlueNRG Family

- Ultra Low Power ARM-Based Bluetooth Processors
- Native Bluetooth 4.2
- Security, robustness & reliability
- Ultra small packages



Automotive



ePayment



Smart Home



Tags and Finders

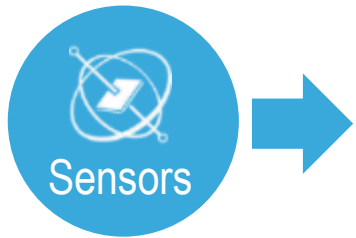


Industrial

CHIPS AND MODULES

Sub-1GHz for Sensor to Cloud

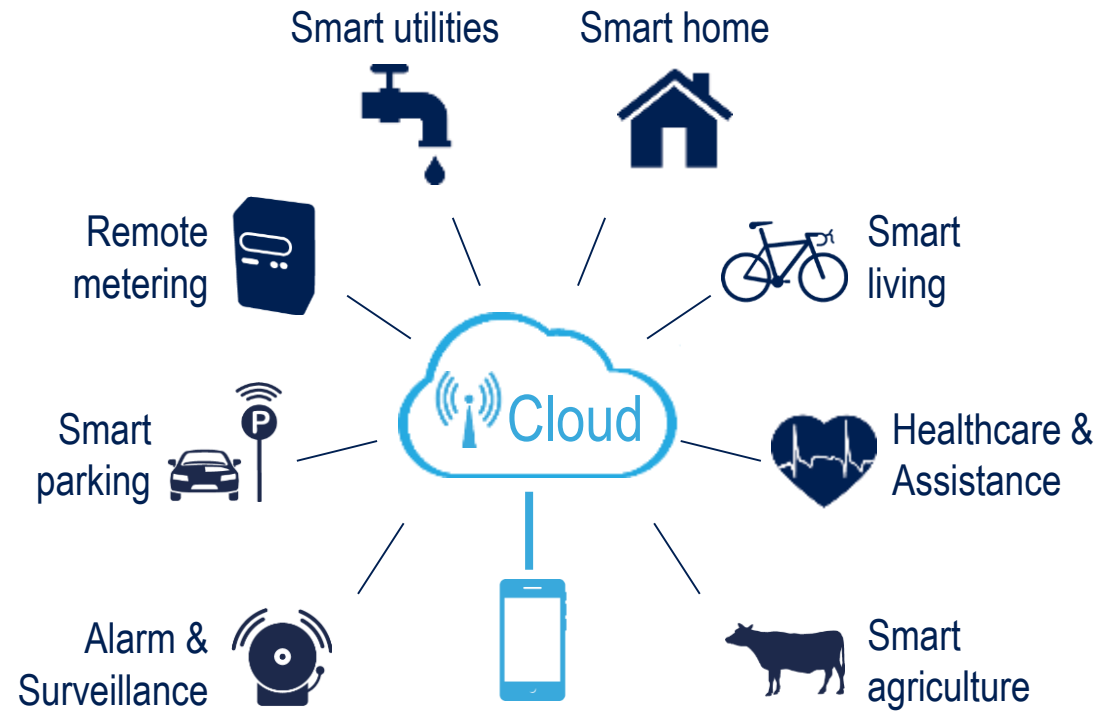
Sensor to Cloud



**SUB
GHZ**

Sub-GHz Radio Transceiver
S2-LP

sigfox M-Bus wireless LoWPAN



Combo-radio Finder/TAG

Dual-radio turnkey solution for
Wireless Sensor Nodes, Remote diagnostic, Smart Parking, Smart Objects

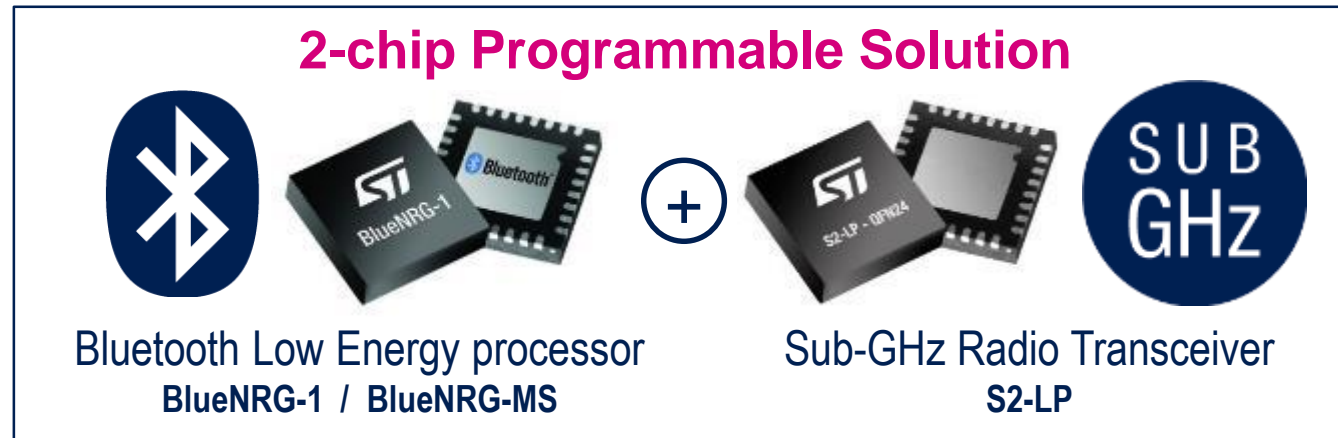
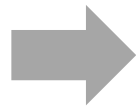
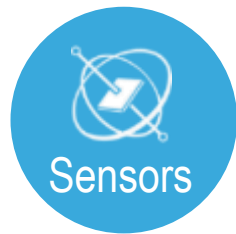
Smartphone

- User Interface
- Configurability
- Local monitoring
- Diagnostic
- Firmware upgrade



Cloud

- Remote monitoring
- Tracking and Positioning
- Notifications of events
- Data aggregation
- Diagnostic and assistance





Smart Healthcare

Low power Wi-Fi technology suitable for a broad range of applications

Processing

2 Microcontrollers

Connectivity

3 RF Transceivers
(M-band, TX UWB
Wi-Fi 11Mb/sec)

Signal
Conditioning
& Protection

High resolution
Analog Front End

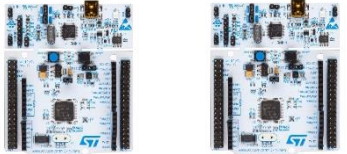
The only wireless biosensor platform for disposable medical applications using coin cell batteries



Development & Prototyping Tools

Microcontrollers

STM32 Nucleo development boards



STM32 Open Development Environment

Prototyping Tools



ST Sensor Tile



Partner Solutions

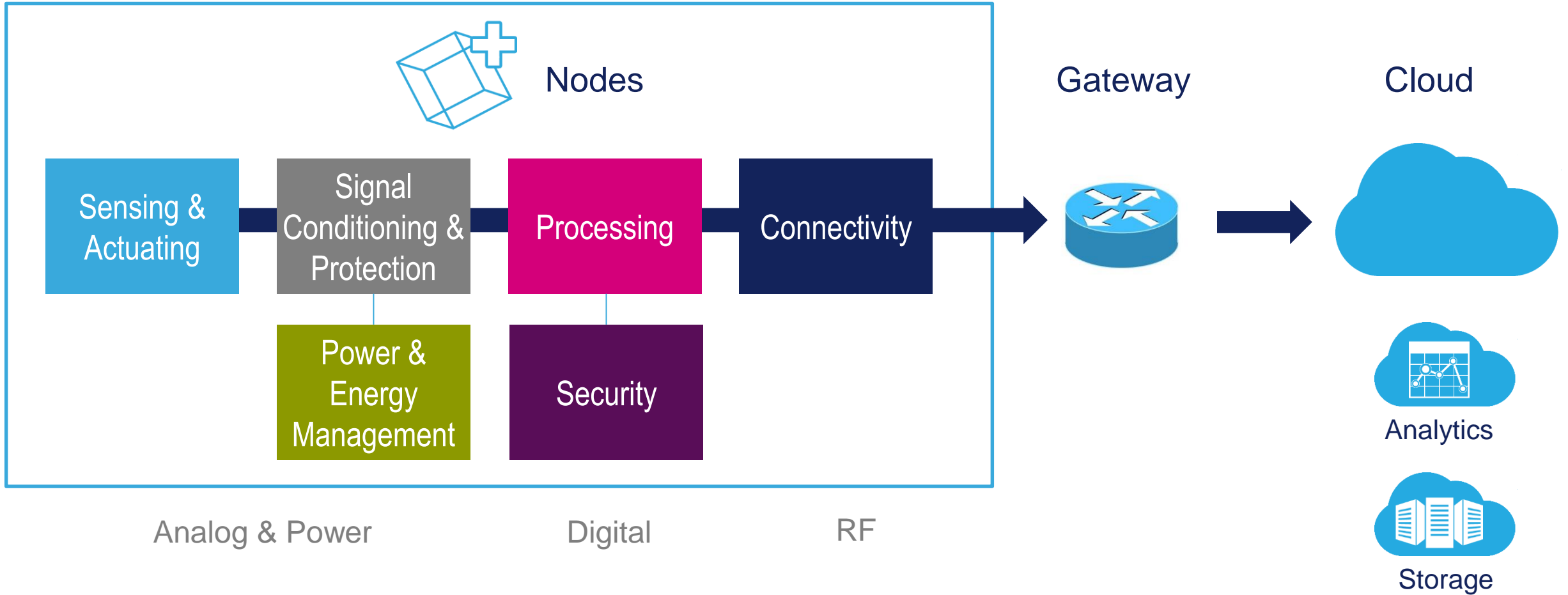


STM32 Nucleo expansions boards



Evaluation platforms

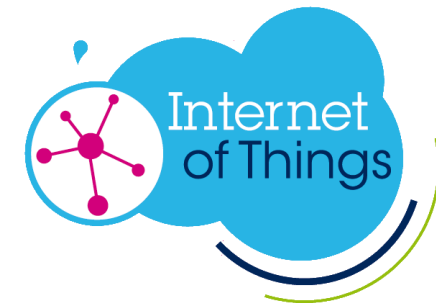
Sensors, Connectivity, Power and Analog



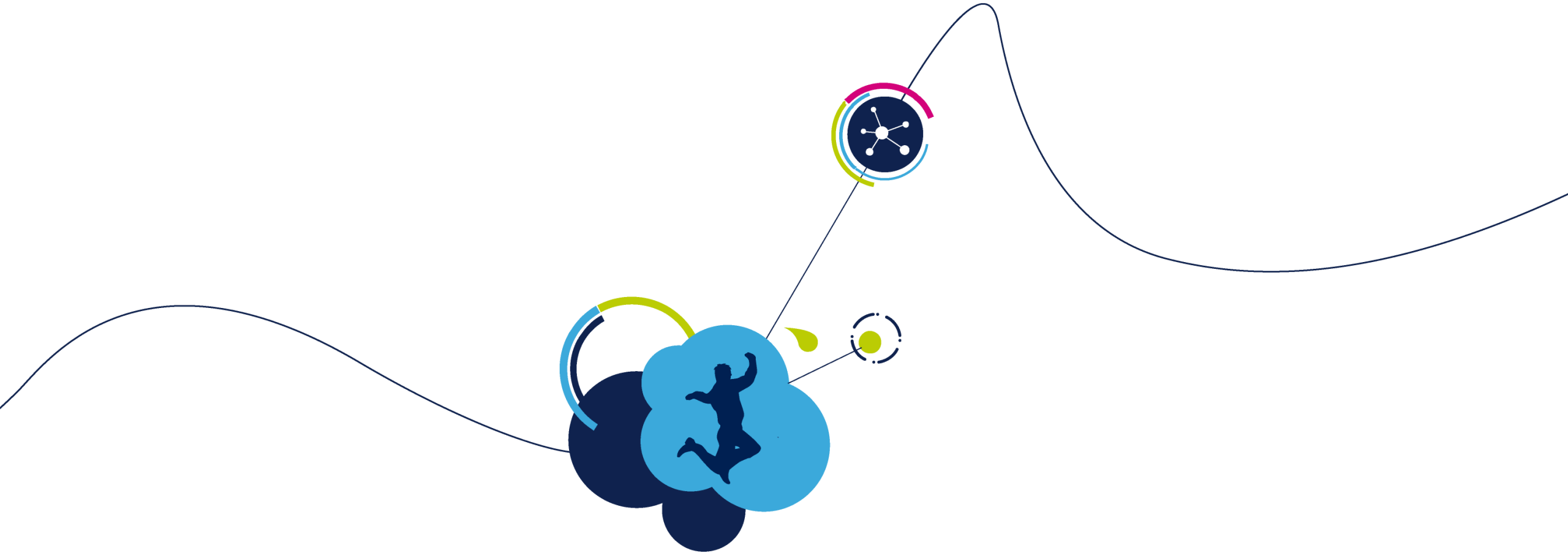
- Renewed product and market **Leadership** with Motion and Environmental MEMS in smartphone and wearable markets
- Diversification strategy results fully visible along the **4 vectors**
- Signed multiple **partnerships** to address new markets and new products in MEMS and Analog market segments
- Winning more sockets in existing customers and **enlarged** customer base
- Expanded **wireless** product family of Bluetooth processors, Sub-1GHz RF and Wi-Fi solutions gaining traction in Mass Market



Visit Us Hall 7 A61



- 1 Sense
 - 2 Actuate
 - 3 FlightSense™
 - 4 STM32 Open Development Environment / LoRa™ / Sigfox
- 5 Process - STM32 Ecosystem
 - 6 Tap & Connect - NFC Solutions
 - 7 Secure & Connect - Solutions for Wearable
 - 8 Power – Wireless Charging – USB Type-C
 - 9 Smart Driving



Questions & Answers

STMicroelectronics

February 28, 2017
Barcelona

