

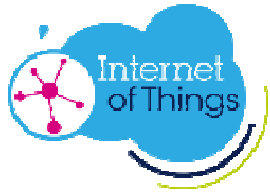
Digital Challenges: Semiconductors Driving Innovation

Jean-Marc Chéry















Deputy CEO
STMicroelectronics

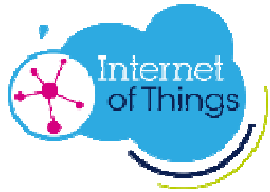
PART B





The Building Blocks of the IoT

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



IoT Product Development

Make it easy and make it fast

Create your Smart Thing

1 Select your functionality

2 Build your first prototype

3 Refine your idea

4 Get ready for market



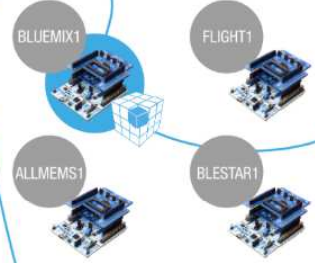
STM32 Nucleo development boards



STM32 Nucleo expansion boards

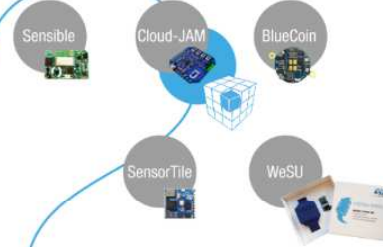


Plug and play with ready-to-go HW, SW and application Function Packs \$ 10's



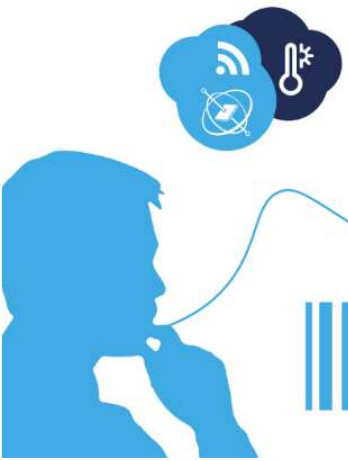
Build your prototype and start your SW development

Advanced prototyping tools from ST or from ST Partners \$ 100's



Accelerate your product development and start field trials

Time to make it real





Smart Things



Fitness & Entertainment



Control devices



Multimedia



Healthcare



Smart Home & City



Smart Metering



Smart Appliance



Smart Home Control



Smart Lighting



Home Multimedia



Home Security



Smart Industry

ST Active in Smart Industry World Wide

Industrial IoT (IIoT)



Factory Automation



Assembly Machines



Motor Control



Smart Driving

Safer



More connected



Greener





The Building Blocks of Smart Driving

Safer

Greener

More Connected

Digital and Satellite radio receivers	Machine Vision ADAS Processors	RADAR	32-bit Auto Grade Microcontrollers	Engine control ICs	Secure Gateway Solutions	V2X Communication	Telematics processors
Integrated VDC	HD imaging ICs	GPS/GNSS Low-noise ampl & receivers	Ignition controllers and drivers	Multiple- Phase Motor driver	Analog Audio Processors	EV/HEV Power management ICs	Multiple channel Air Bags
Auto MEMs, gyroscopes, accelerometers	Communication transceivers	Alternator regulators	Door module drivers	Class AB and D Audio Amplifiers	AM/FM tuners	Valve driver ICs	Infotainment voltage regulators
High/Low and configurable side drivers/switches	Voltage regulators	Field Effect Rectifiers	SiC Diodes	SiC MOSFETs	Integrated filter and dataline protection	Micro-batteries	DC and Stepper Motor drivers
Low/High Voltage Planar MOSFET	Planar IGBT	Low Voltage Trench MOSFET	High Voltage Superjunction MOSFET	Ultra Fast & Schottky Diodes	1200V Thyristors	Field Effect Rectifiers	Dataline & Load dump protection

increasing complexity



life.augmented



ST Strategy and Offer for Automotive

Safer

Greener

More Connected

Technology & Product leadership, focusing on high growth areas

BCD
90nm

Machine Vision

ViPower
180nm

RADAR

eFlash
28nm

Positioning

CMOS
40nm

V2X

FD-SOI
28nm

Smart Power

SiC

Engine Management

Continuing partnerships with automotive leaders to drive innovation

Car Manufacturers



Tier 1 OEMs



Technology Leaders



Solutions adapted to mature & emerging markets - also through distribution

Full Kit Solutions

Engine and Body control, Infotainment



Dedicated Products

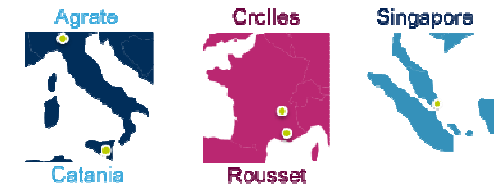
Roadmaps for mature and emerging markets

Specific MCU Solutions

Power Modules for electrification

ST Supply Chain, Manufacturing & Quality

In-house manufacturing



Quality

Automotive Quality mindset

30 Years of Qualification Experience

AEC-Q100-2 compliant product portfolios



