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ST offers for Smart Meter

2° SMART UTILITY OPEN METER

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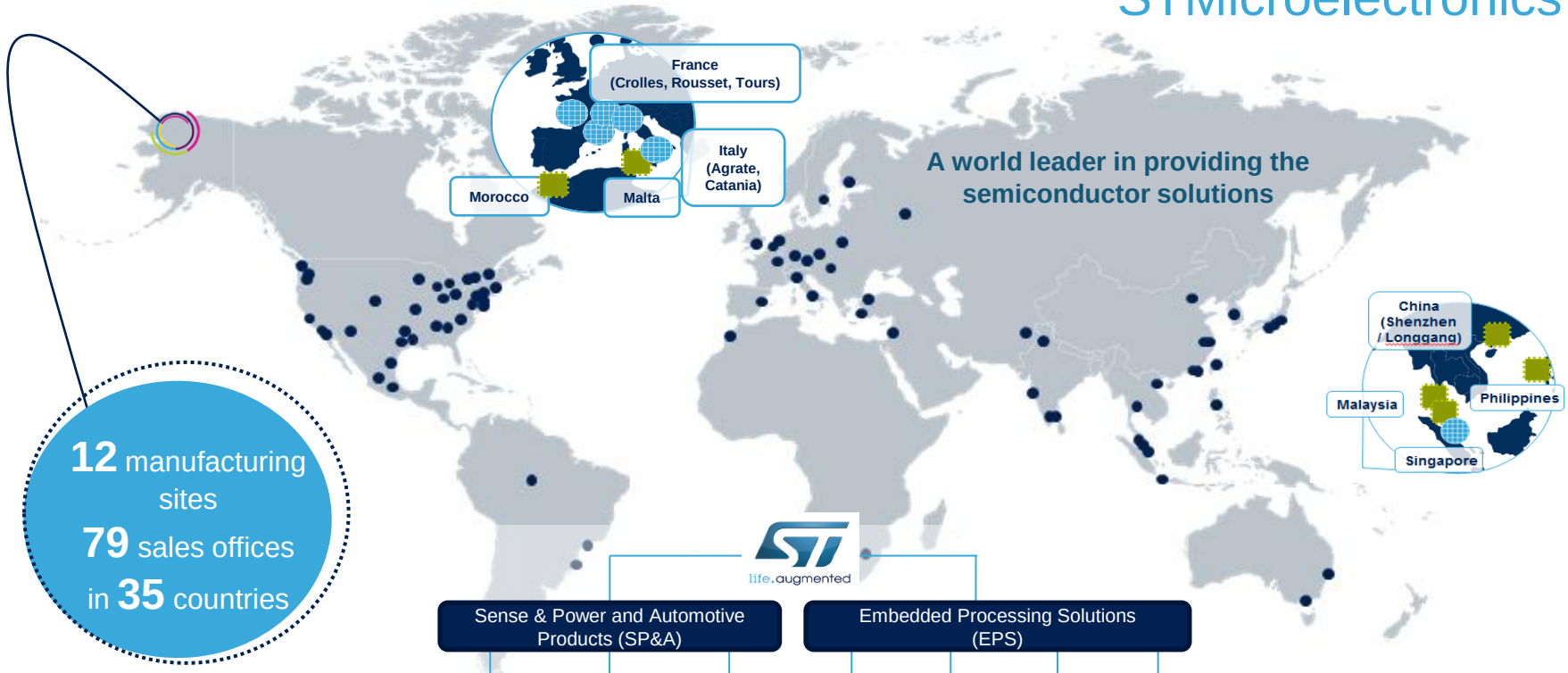
ANIE CONFINDUSTRIA CSI gs2m

2° SMART UTILITY OPEN METER

STMicroelectronics



A world leader in providing the semiconductor solutions

12 manufacturing sites
79 sales offices
in **35** countries

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- Sense & Power and Automotive Products (SP&A)
  - Analog, MEMS & Sensors (AMS)
  - Automotive Product Group (APG)
  - Industrial & Power Discrete Group (IPD)
- Embedded Processing Solutions (EPS)
  - Digital Convergence Group (DCG)
  - BiCMOS, ASIC & Silicon Photonics
  - Microcontrollers, Memory & Security (MMS)
  - Wireless (WPS)*

* former ST-Ericsson legacy products

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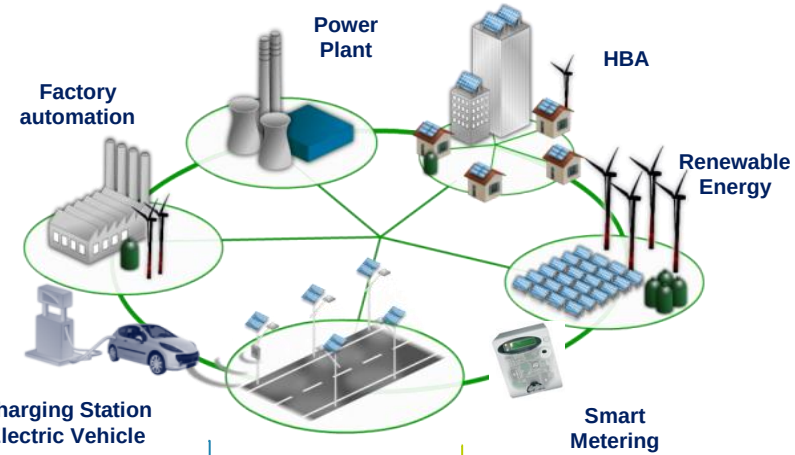
Front-End
Back-End

Smart City:
Makes cities smarter, safer and more efficient

Efficient Energy Generation, Distribution and Consumption combined with Advanced Monitoring and Control



Enhancing customer awareness of Energy Usage

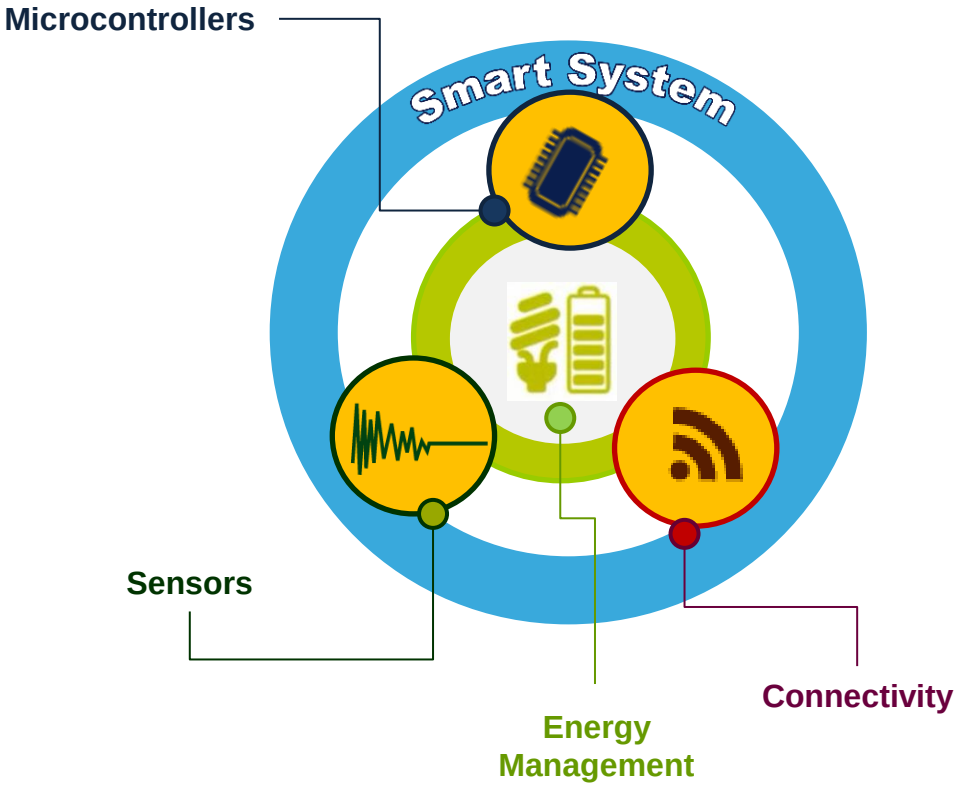
Reducing grid losses, peak saving and improve maintenance efficiency

Integrating distributed renewable energy sources

Smart Cities System

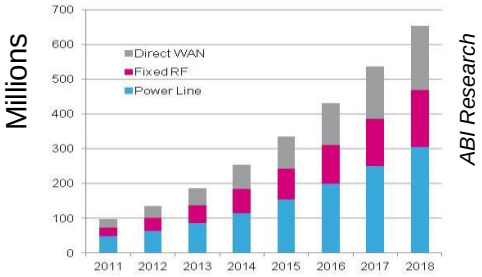
ST has all the ingredients:

- A unique portfolio with all the key technologies & products
- Understanding the sensor-to-cloud value chain
- Engaging with a broad ecosystem
- Expertise in digital-security technologies
- State-of-the-art semiconductor technologies and high-volume production capabilities



ST is a pioneer in Smart Meter

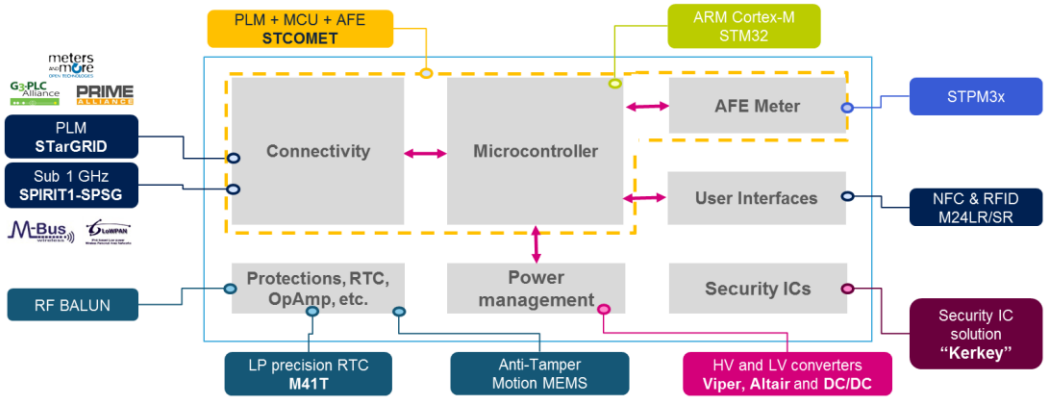
- Broad Smart Meter system know thanks to 20+ years proven partnership with key Smart Grid players worldwide
- Over 60 Millions PLC and metering SoCs installed
- Driving Smart Grid Standards worldwide
- The most highly integrated, secure and flexible SoC platform solutions in the market



Smart Electricity Meters

- Accurate Energy Measurement
- Operating cost savings
- Invoice on real consumption
- Enhancing customer Awareness
- High Performance and Low cost MCU

- Connectivity for AMR/AMI
- Standard Protocol :
  - Meter&More,
  - PRIME,
  - Linky,
  - G3



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Smart GAS and WATER Meters

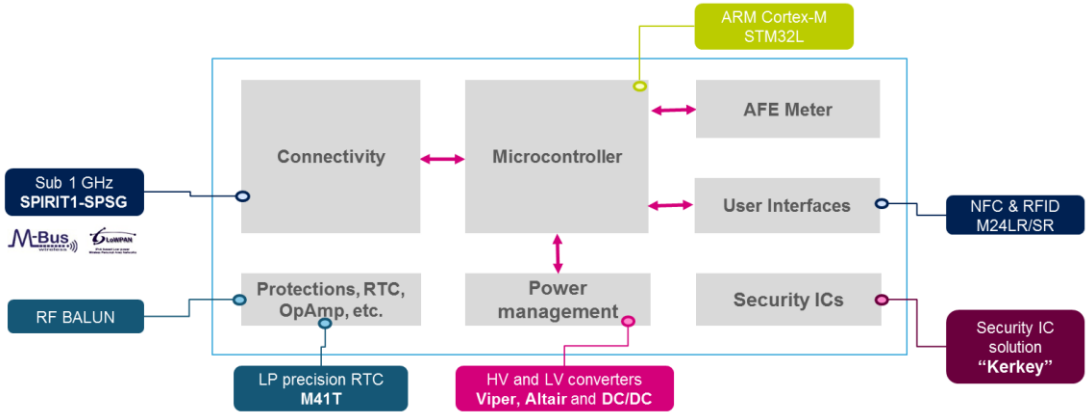
- Accurate Flow Sensing
- Maintenance Cost Saving
- Pre-paid System
- Valve control- earthquake alert

- Ultra Lower System for Long Time Battery Life
- Automatic Meter Reading
- RF connectivity
- WMBUS protocol

dlms device language message specification

OMS®

M-Bus wireless



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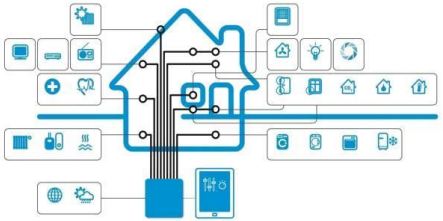
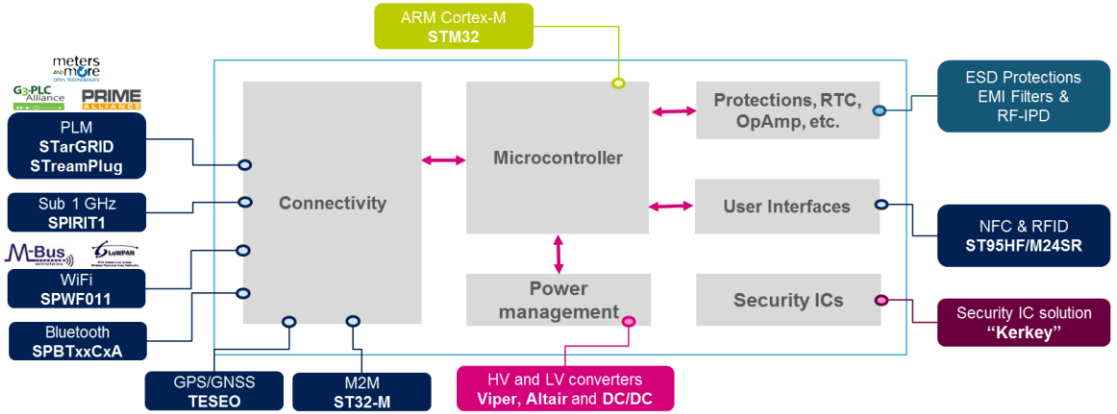
Gateway & Bridge

Target Scenario:

- Street Lighting
- Smart Meter
- Smart Home
- Smart Sensors Node

- Automation Monitoring and Control
- Energy Monitoring and Control
- Surveillance/Monitoring Assisted living
- Energy Monitoring and Control
- Environment Sensor Monitor
- Remote Lighting Control
- Security and Safety





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Takeaways

The Smart City trend is evolving quickly from one-off projects impacting single-function applications, such as smart meter, street lighting or traffic flow, to large-scale, municipal capital investments integrating multiple city services and departments

ST has the right **processes** and the right **enabling technology** to meet the need of Smart Cities.

Long term and well **established partnership** with key market leaders, enable their products to meeting existing and address future technology needs

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Thank You