



Schneider Electric: Industrial solutions for Smart Cities

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We are the global specialist in energy management and automation with the largest portfolio in our industry.

€26.6
billion

FY 2015
revenues

5%

of FY revenues
devoted to R&D

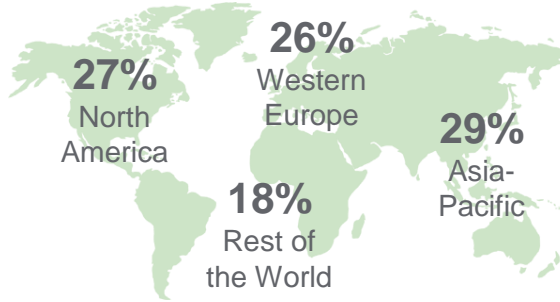
43%

of FY revenues
in new economies

43%

of FY revenues as
Solutions

Balanced geographies – FY 2015



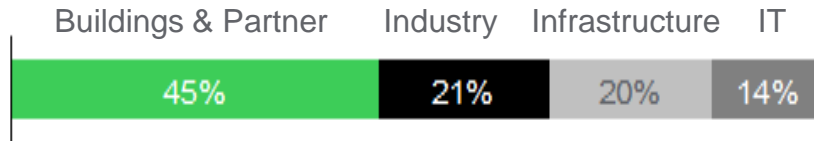
160,000 employees

- c20,000 Sales and Marketing
- c20,000 Software/R&D
- 56% employees in new economies
- 38% of new hires are women

Over 200 factories worldwide

Equipped close to 3.5 million households and trained over 500,000 people since 2009

Four integrated and synergetic businesses – FY 2015



Largest portfolio in our industry

Main megatrends in Industry transferred to Smart City concept



Communication



Safety and security

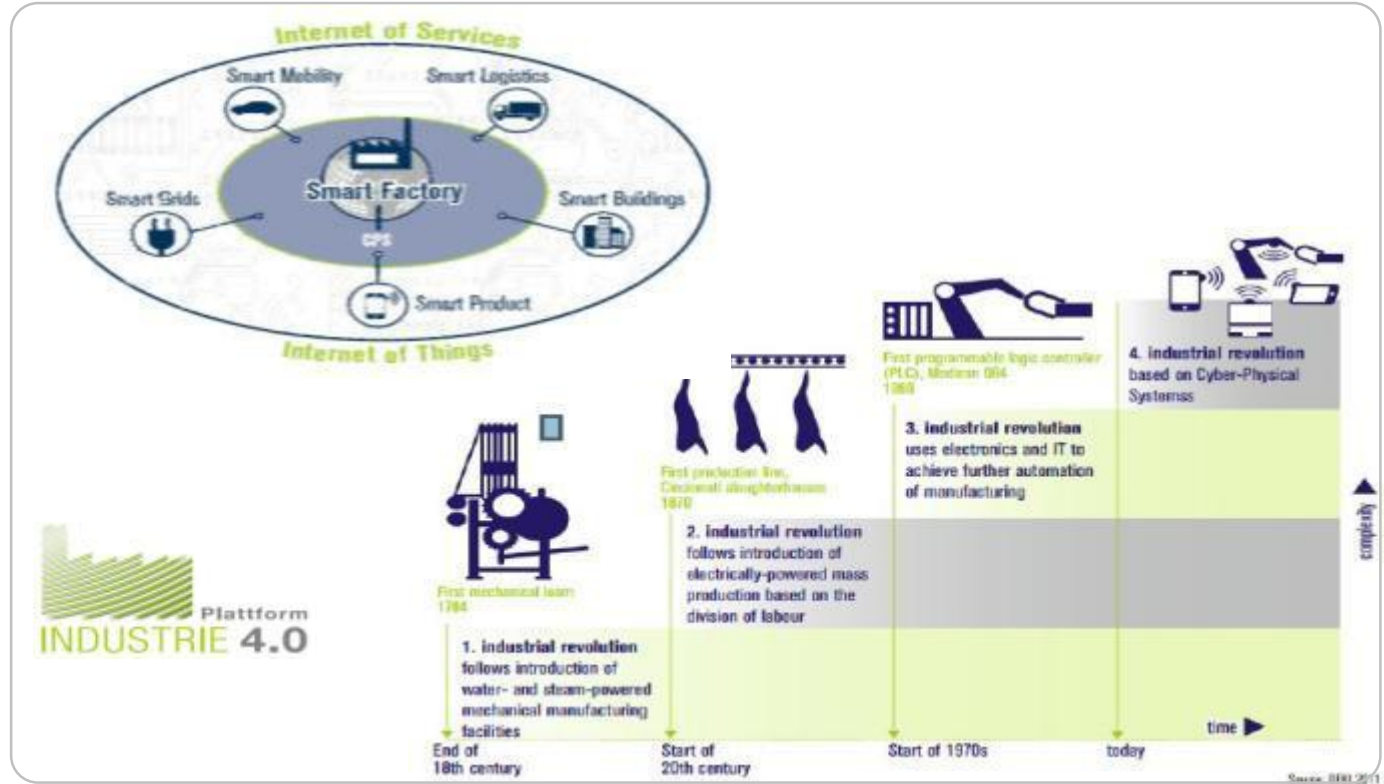


Flexibility



Cost optimisation

The technology drivers behind IIoT/Industry 4.0



A 20-year journey with foundations being defined today

SMART CONTROL

...Some Example of Schneider Solutions that you can buy today.



1996/1997 Web server in device patents

1997 Introduction of MB/TCP and 'Transparent Factory' for Automation

1999 Computerworld Smithsonian award winner

2000 Web service patents

>2000 Transparent Ready, Ethernet IP



Ethernet backbone

Empowering automation transformation through a common infrastructure



2013 Modicon M580: The world's first ePAC



Plantstruxure



Ethernet Backplane

Plantstruxure PES and SoMachine V4 as **single software** environments for **solution**

AUGMENTED OPERATOR

...Some Example of Schneider Solutions that you can buy today.

Wonderware SmartGlance

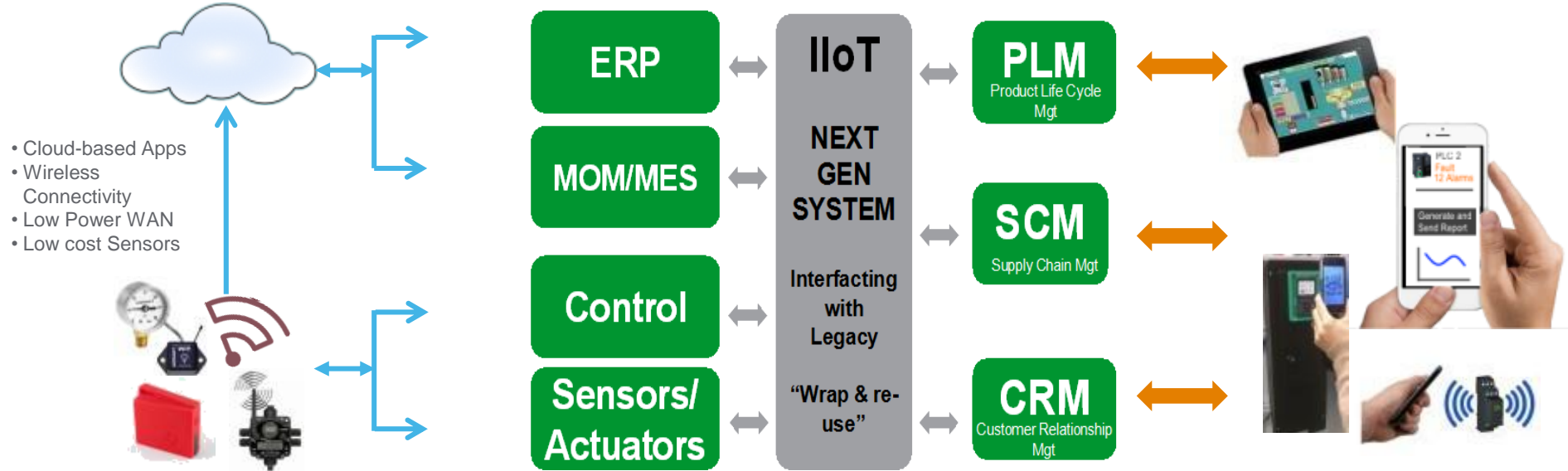
The augmented Operator

- Mobile reporting that provides real-time access to critical KPIs and process or operational data via popular smart phones and tablets
- Extend operational awareness
- Accelerate decision making
- Enhance collaboration
- Improve agility
- Reduce operational costs and improve productivity
- Security



Schneider Electric Vision

Tomorrow's Smart Manufacturing Enterprises will excel in 3 areas



Asset Performance

Using cost-effective wireless sensors, easy cloud connectivity (including WAN) and data analytics to improve the performance of an asset or set of assets

Focus of IloT

Smart Enterprise Control

Next generation IloT systems will allow better integration of legacy production, life-cycle and supply chain systems to improve overall enterprise efficiency & flexibility

Principle Objective of Industry 4.0

Augmented Operators

The combination of mobile devices, data analytics, augmented reality & transparent connectivity increase operator productivity

Device-centric to user-centric

Life Is On

Schneider
Electric

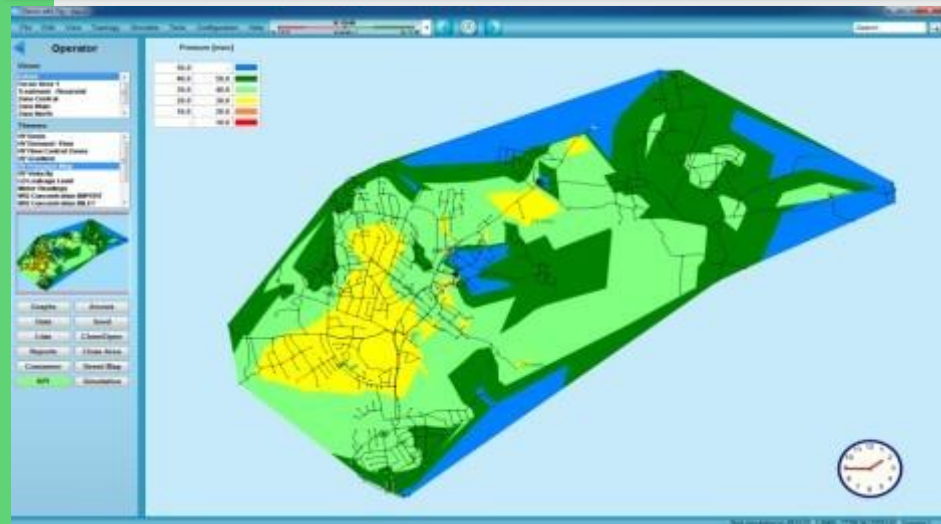
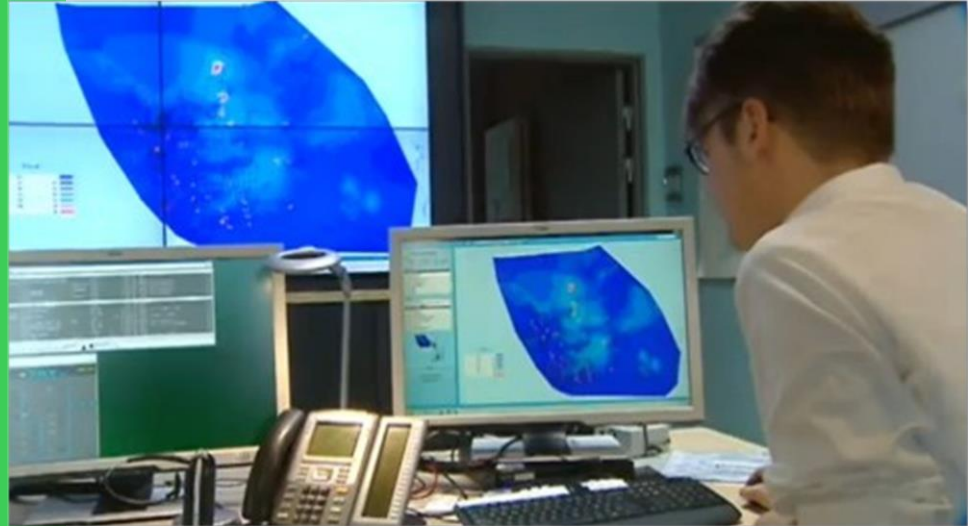
Smart City ... Aquis Solution

Aquis is an **advanced operation tool** for water utilities:

- Enables operators to **go back and forth in time** through simulation and real-time modeling
- **Anticipates the impact of planned and unplanned events**
- Recommends **best operational options** for day to day decisions



Reaches where SCADA does not get!



Aquis Overview

Benefit from a tool designed for operators and SCADA integration into Schneider Electric or 3rd party systems:

- **Forecast network behaviors**, what if scenarios based on real-time data
- **Pressure, pump and reservoir optimization** for energy cost reduction
- **Water quality monitoring** and water source mix overview
- **Pollution source tracing** capabilities
- **Utility consumer support** streamlined



No in depth hydraulic knowledge needed: Aquis is designed for SCADA operator use!

Up to
15%

Reduction of
Leakage
(NRW)

Up to
20%

Reduction of energy
costs

Up to
20%

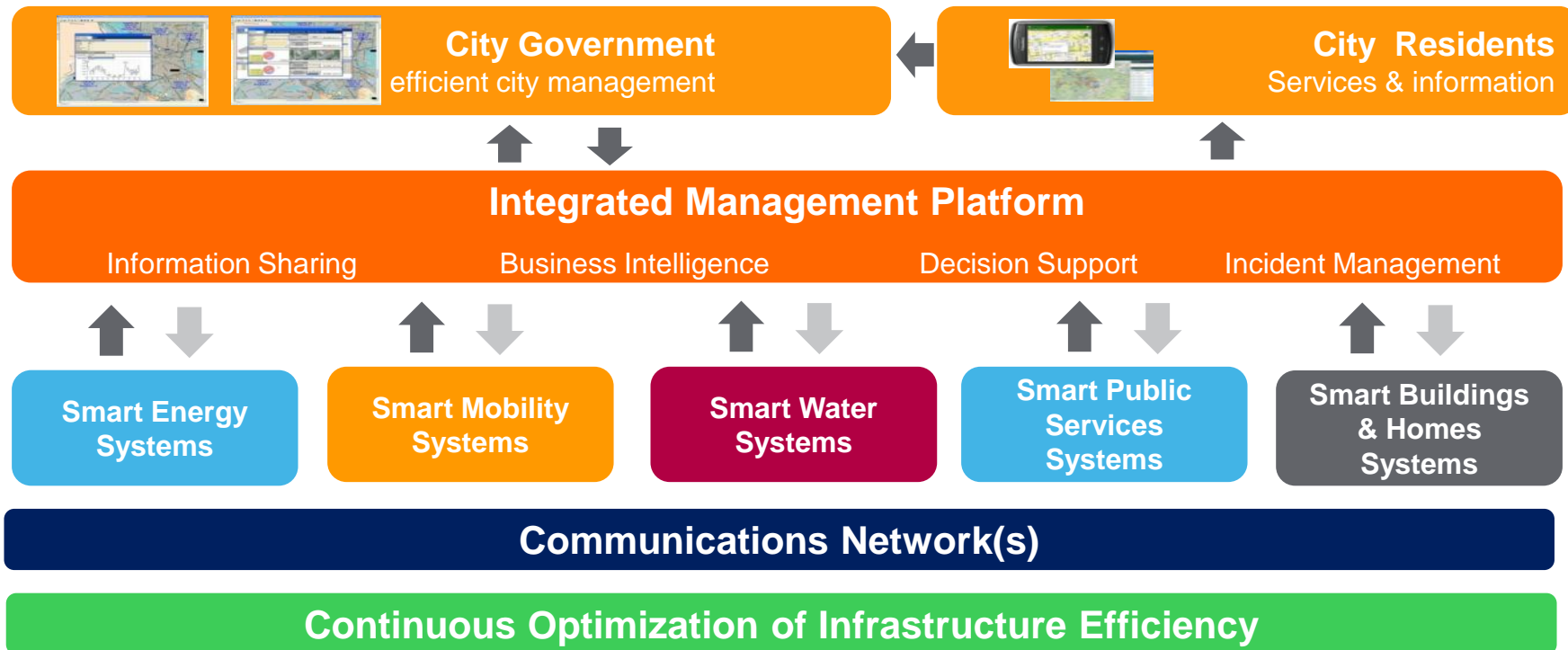
Reduction of CO₂

Additional Results

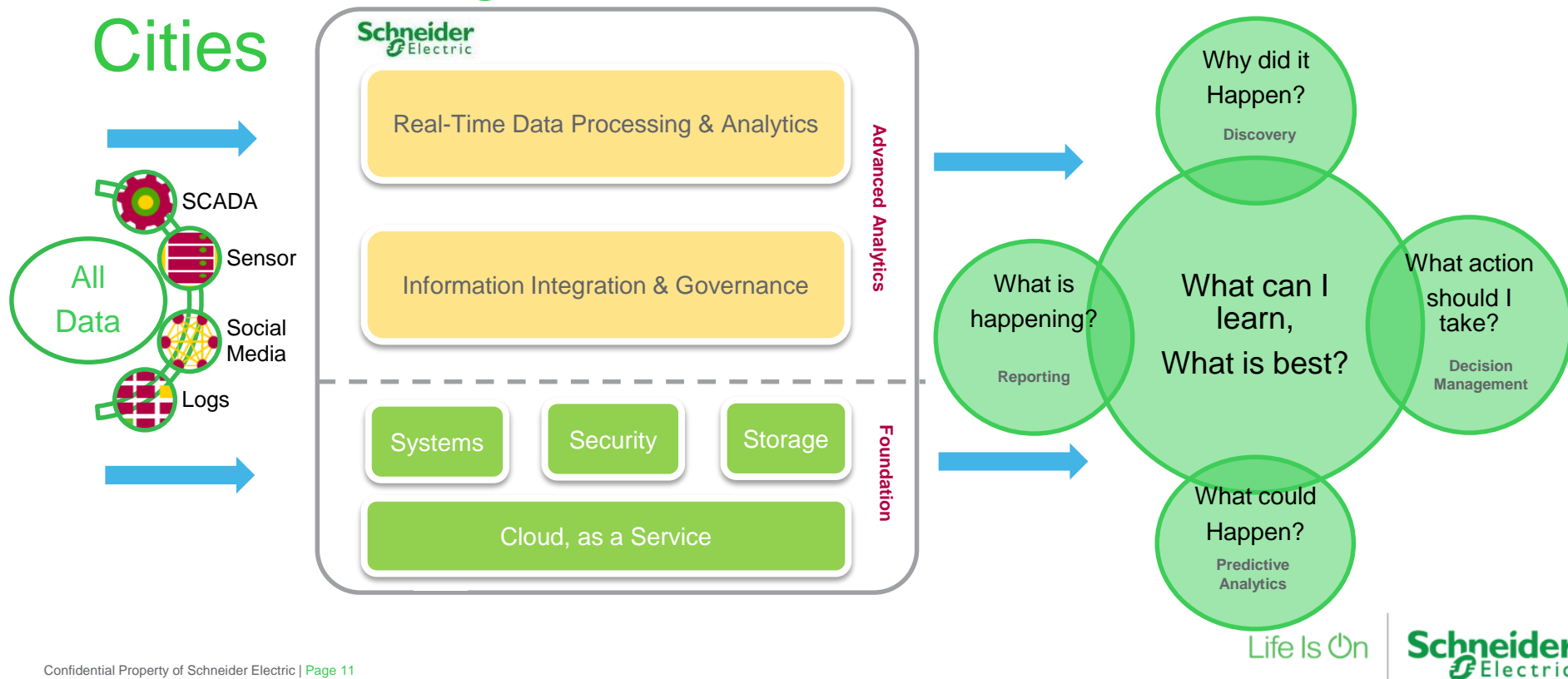
- ✓ Potential 25% increase in operational efficiency

Innovating for better Smart Cities tomorrow

Integrated city management platform to leverage efficient urban infrastructure and provide more effective public services as well as innovative citizen applications



Big Data & Analytics capabilities to address new challenges and opportunities in Smart Cities



Life Is On



Schneider
Electric