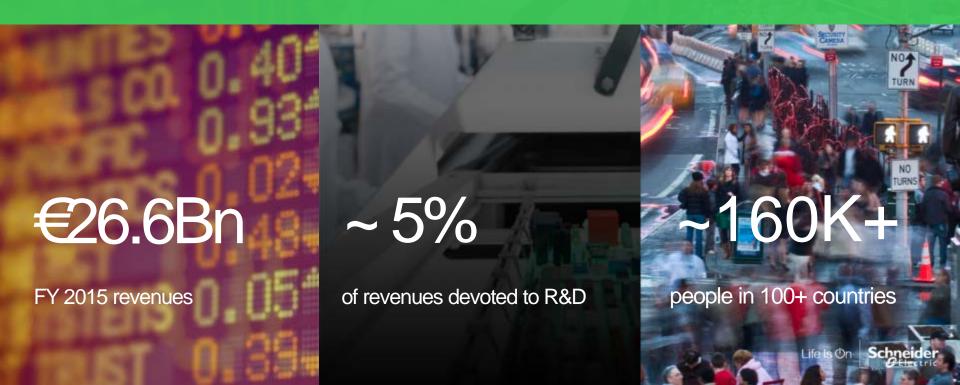


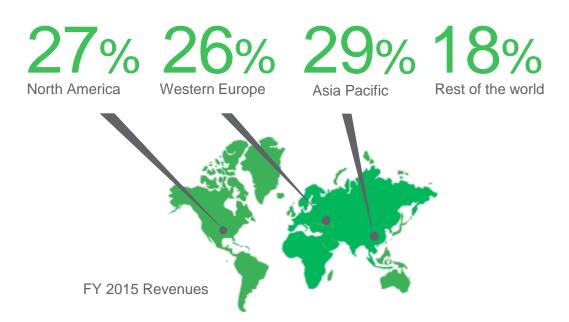
Arthur M. Silva
VP, Segment & IoT Marketing Strategy



### Schneider Electric, the Global Specialist in Energy Management and Automation



#### ...with Balanced Geographies



#### ...with Diversified End Markets









14%

45%

20%

21%

FY 2015 Revenues





Our technologies ensure that

# Life Is On

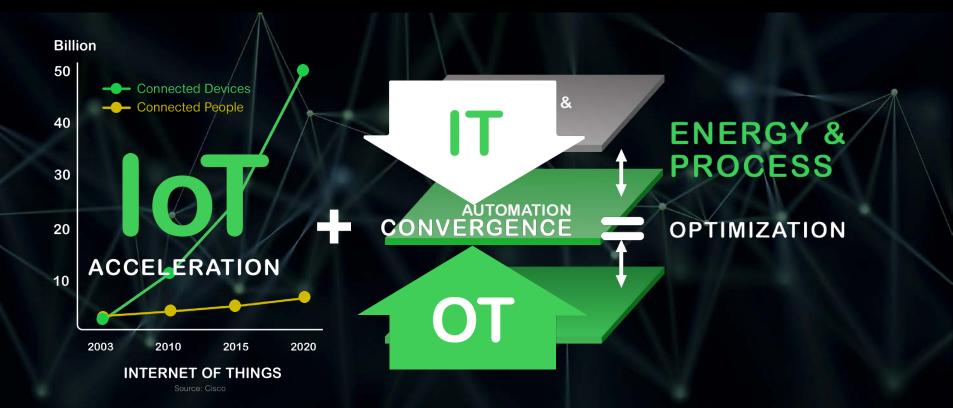
everywhere, for everyone, at every moment.

Energy is the base of life, so we help to ensure that energy is:

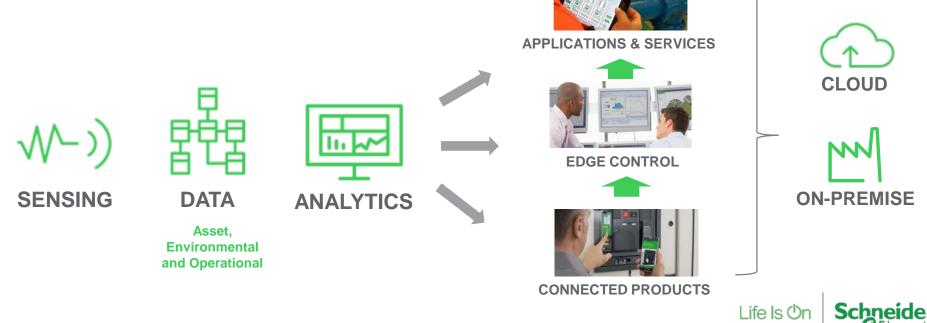
Safe

- Connected
- Reliable
- Sustainable
- Efficient

#### Efficiency gains will come from IT/OT convergence



#### A simplified view of the Internet of Things





#### Three very key innovation drivers



Cloud-first strategies are the foundation for staying relevant in a fast-paced world (Gartner)



#### IoT-enabled innovation areas in the industrial world



**Smart Products** 



**Augmented Operations** 



Mobile Applications



Advanced Engineering, Automation, and Control



Smart Machine & Smart Plant Solutions



**Predictive Analytics** 



Cloud-based Software and Managed Digital Services



Asset & Energy Performance Management as a Services





#### Increasing safety, efficiency, productivity, and sustainability of...



**ASSETS** 



PEOPLE



**OPERATIONS** 



**FACILITIES** 



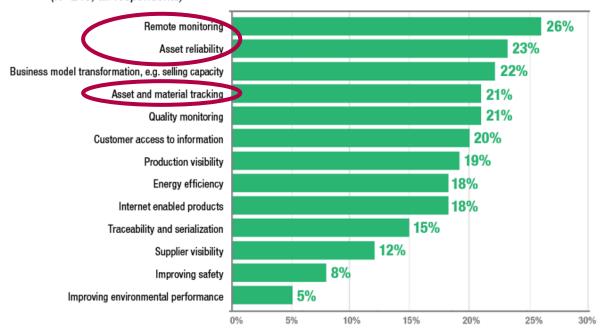
**ENERGY** 





#### Asset related use cases are the logical first choice

What are the top IIoT use cases your company will start pursuing in the next year? (N=249. all respondents)



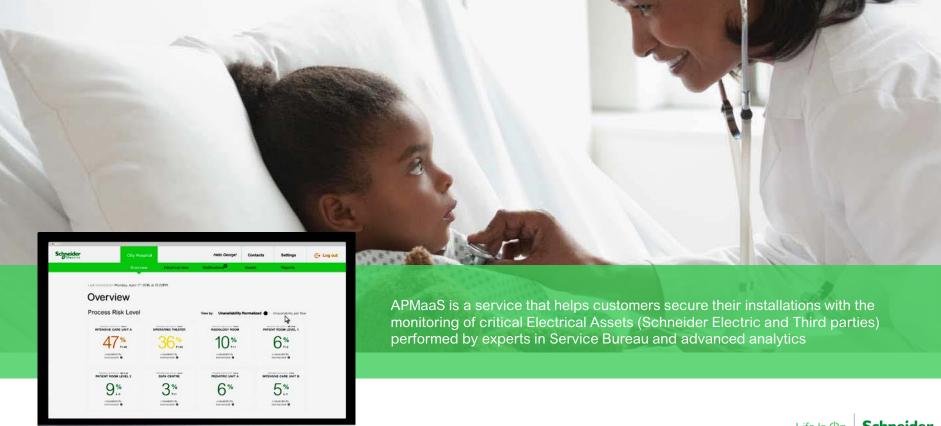
**LNS IIOT Research Study - 2017** 



#### Predictive analytics delivers savings for energy utilities



#### Asset Performance Management as a Service ensures power availability







# Mobile control applications increase situational awareness



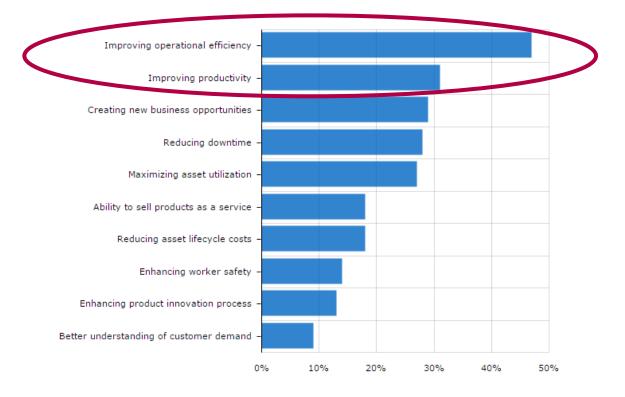
"The ability for our engineers and operators to use tablets and smart phones for controlling city services has greatly increased situational awareness and allowed us to become more efficient."

Darren Schulz, Deputy Public Works Director Carson City, Nevada





#### Efficient & productive operations are major drivers of IIoT adoption



2015 survey of about 200 automation executives conducted by Morgan Stanley and Automation World magazine



#### 1st ever connected variable speed drive built for process control









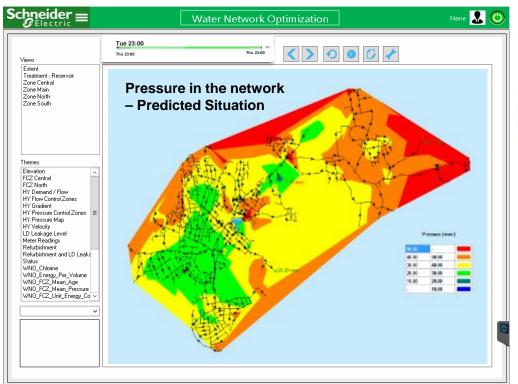
#### Traceability app monitors milk quality from collection to the plant



Life Is On Schneider

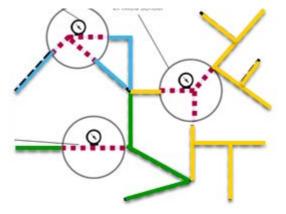


#### Water network optimization software predicts and prevents shortages











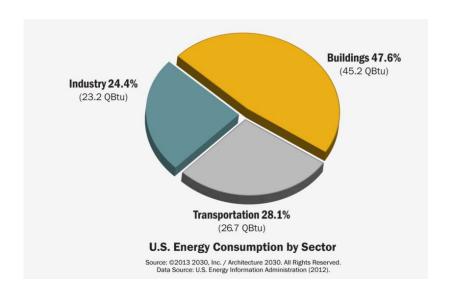


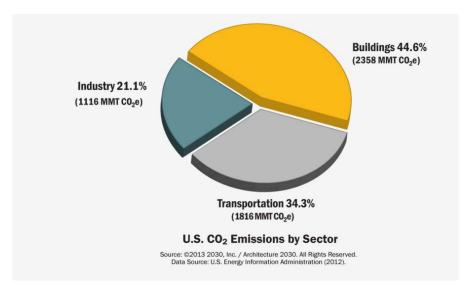




#### Did you know....

#### Buildings consume the most energy and create the most CO2 emissions



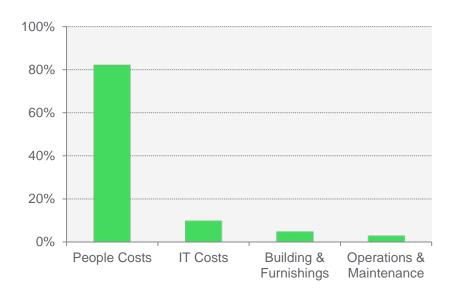




### At the same time, businesses are challenged to increase profitability and worker productivity

#### **Average Annual Enterprise Costs**

- People costs can be 10 40 times the maintenance and operation costs over the lifetime of a building
- Even small increases in staff
   efficiency can have a huge impact
   on business than just reducing costs



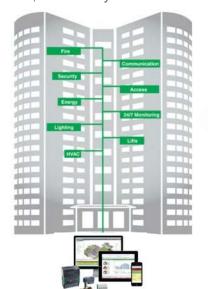
Source: CABA Intelligent & Integrated Buildings Council (IIBC), CABA White Paper, Improving Organizational Productivity with Building Automation Systems, page 7, 2014.



### Advancing Building Control and Automation increases efficiency, comfort, and space management

#### **Building Management System**

Metering, Monitoring, Analysis and Management of Electrical, HVAC, Lighting, Blinds, and Safety.



#### **Workplace Efficiency Services**

Employee badges with RFID sensors transmit people location data to an automation server in the cloud

Visitors and employees can connect to a "service portal" enabling **control of lighting, temperature, and blinds** 







# The world's most sustainable office building



Schneider Electric is the single backbone so we can connect everything and also get the building data into a data analysis platform. 

\*\*Frik Ubels, CIO\*\*

Deloitte Netherlands









#### Utilities can boost operational and energy efficeincy





**MERALCO** 

SAIDI/SAIFI indicators reduced by 22% with outage management systems



- Efficient operations
- Predictive maintenance



 Visual Situational Awareness & Real Time control

Information System



energy



Capturing Data

Grid efficiency improved through GIS data transfer into Distribution Management System





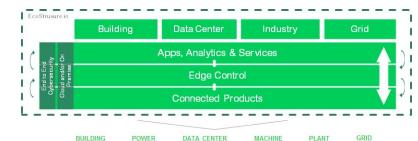
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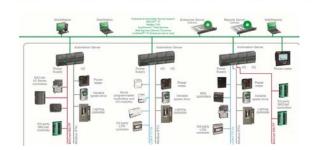


### Industry leading TECHNOLOGY STACK





### Tested and validated REFERENCE ARCHITECTURES



#### **IOT PLATFORM**

Core technology capabilities for solutions at scale





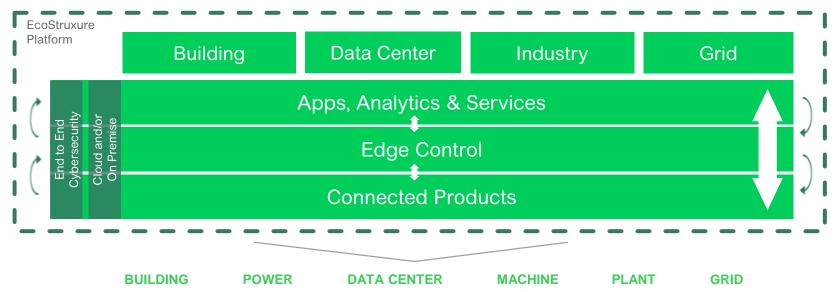






#### EcoStruxure: 3 Innovation Layers, 4 End Markets, 6 Architectures





### Eco Ftruxure Platform

Core technologies for Embedded **Connectivity & Intelligence** 



Enables smart sensing, embedded computing, IP networking, and edge analytics

foundation for **Smart Operations** 



Serves as the buildings blocks for control, management, automation, and optimization of an entire operation on premise and in the cloud



Enables the delivery of cloud-based connected apps, analytics, services, control, and monitoring







Configuration & messaging





learning & analytics



applications



templates



models & visualization



Application modules



lifecycle management



raw storage











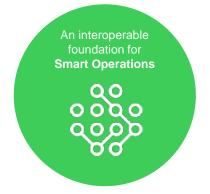






# Eco Struxure Platform Partnerships







The platform capabilities have been built on best-in-class technology partnerships



















































Eco # truxure

INDUSTRY





### IIoT is accelerating

Cloud, mobile, & services

Use IoT data for actionable intelligence

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Real world Industrial lotticuse cases

**EcoStruxure Architecture & Platform** 

It takes an ecosystem

