

# Technology , Energy Performance & Behaviors

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Jean-Jacques MARCHAIS - Schneider Electric

IEA workshop influencing business behavior and  
decision-making towards increased energy efficiency





Energy is the base of life.

# Life Is On

when energy is on.....

We ensure energy is on by making it

- Safe
- Reliable
- Efficient
- Connected
- Sustainable

# Schneider Electric, the global specialist in energy management and automation

€25 billion

FY 2014 revenues

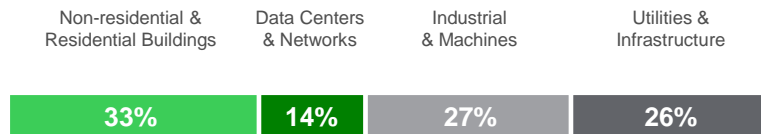
~5%

of revenues devoted to R&D

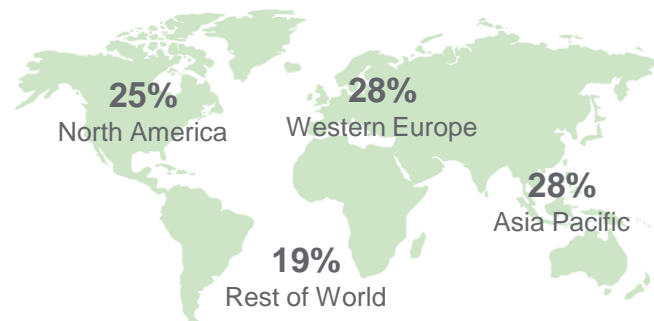
~170,000

people in 100+ countries

## Diversified end markets – FY 2014 revenues<sup>1</sup>



## Balanced geographies – FY 2014 revenues<sup>1</sup>



# Technology , Energy Performance & Behaviors

- Measuring , metering is the initial step of energy management and can change behaviors
- Then comes Control - Automation & Management
- With Increasing level of system deliverables
- In a more and more holistic performance coverage
- Within the New World of Energy : Distributed & Connected

# Metering is the initial step of energy management and can change behaviors by :

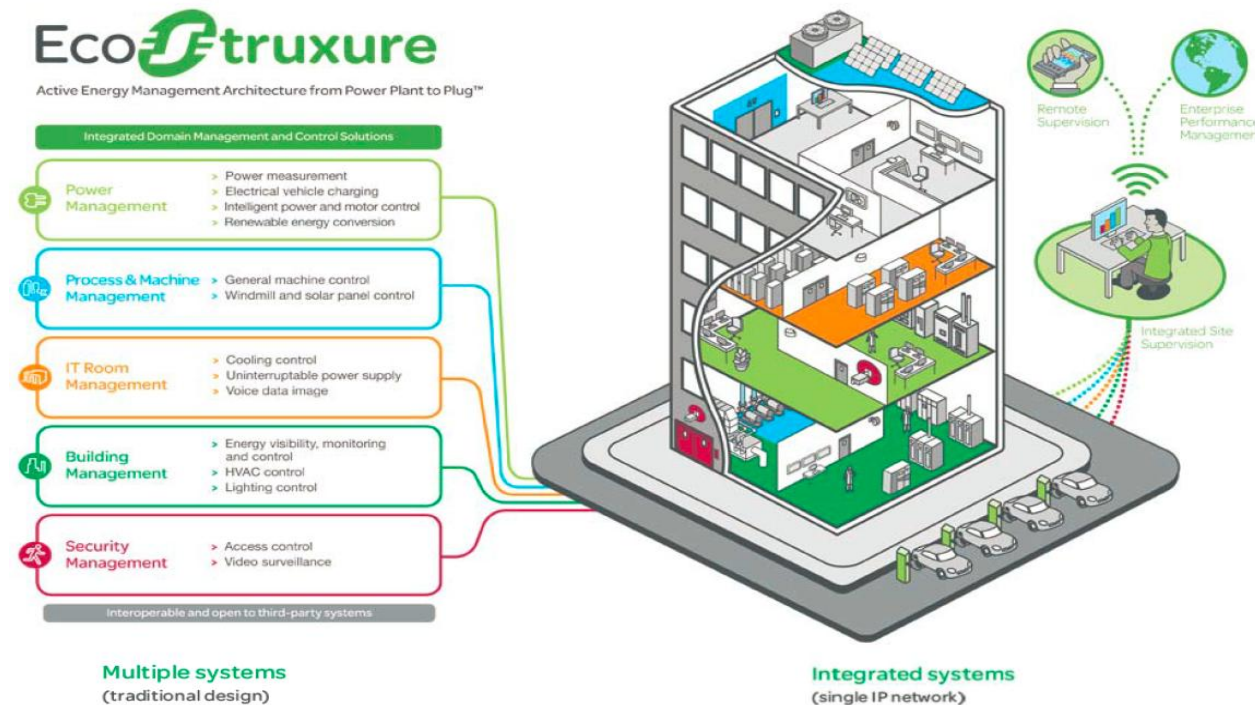
- Energy consumption & cost allocation
- Energy sub-billing
- Energy usage analysis
- Building energy performance benchmarking
- Electrical distribution asset management
- Energy consumption alarming
- Bill auditing (shadow metering) and energy procurement
- Regulatory or certification compliance



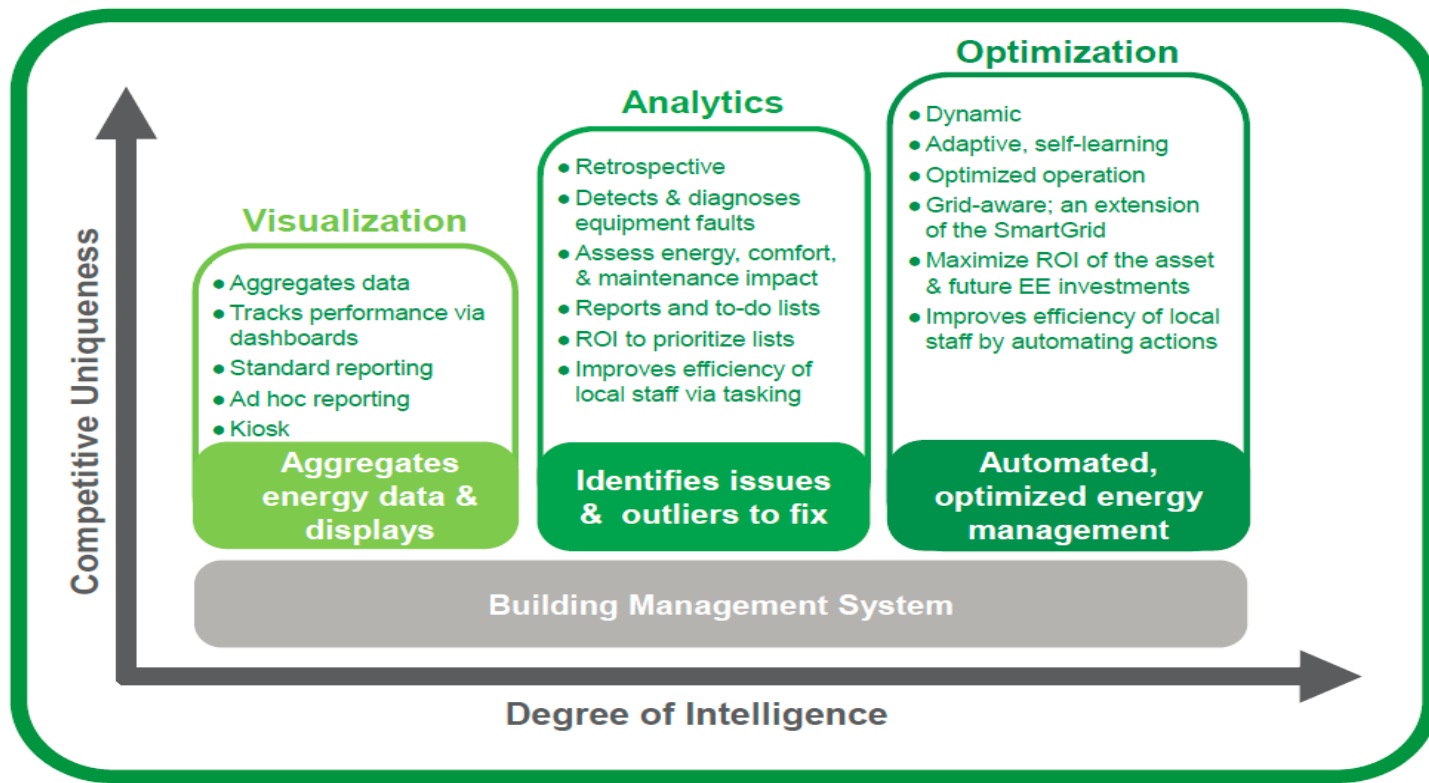
# Then Control - Automation & Management -

## Key Challenges

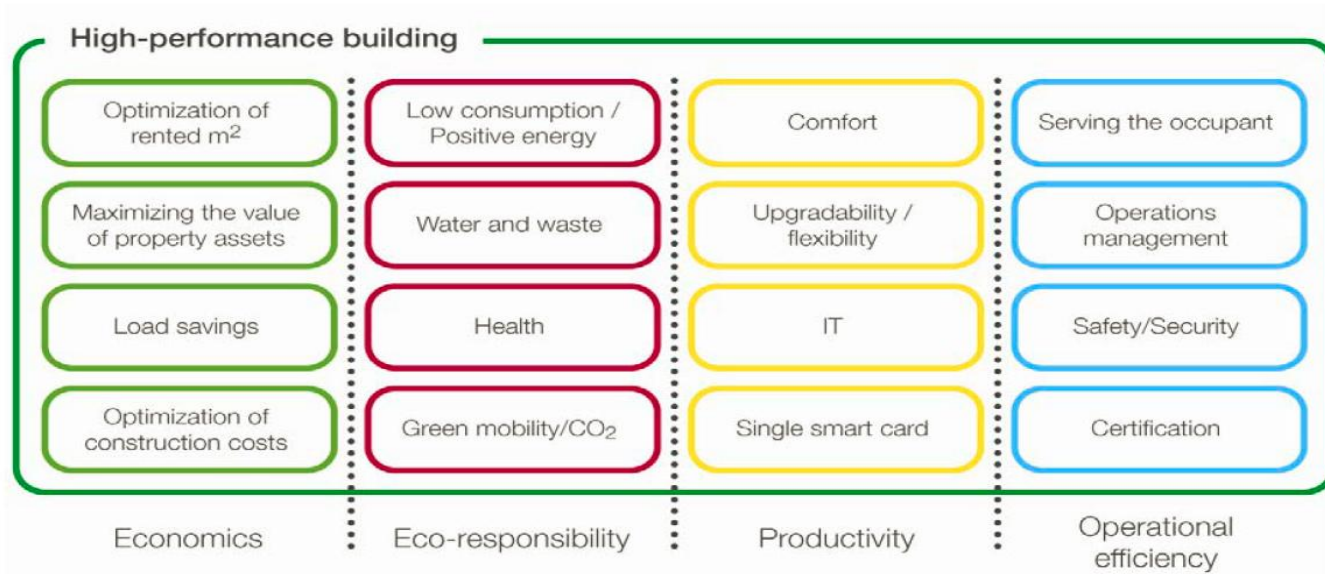
- Integration
- Convergence
- Openness



# With Increasing level of system deliverables



# In a more and more holistic performance coverage





# Within the New World of Energy : Distributed & Connected

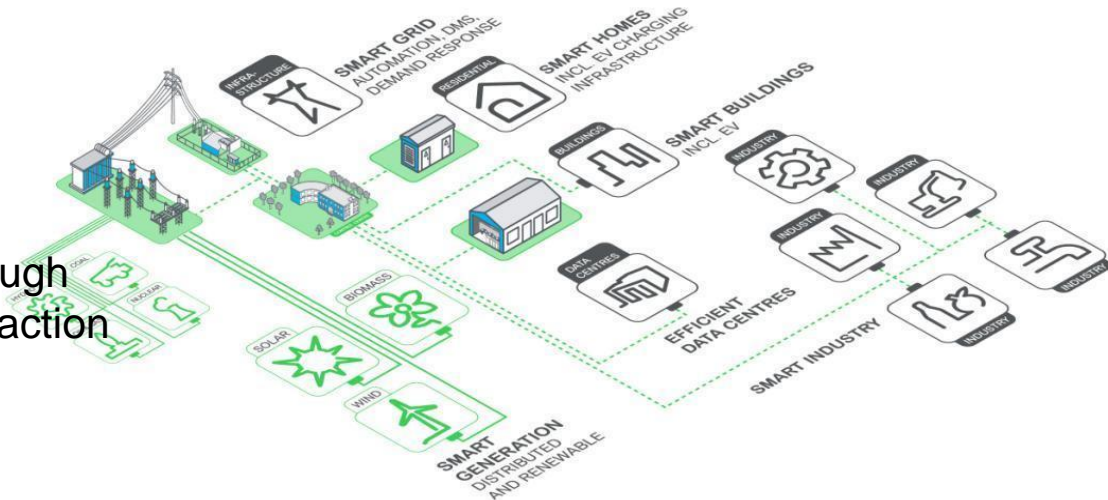
Capacity to fit into  
demand response scenarios

Integration of renewable energies  
and local storage capacities

Integration of the electric vehicle through  
Electrical Management System interaction

balancing out the charge for  
each operator in the district

Etc.....



Smart Grid

Distributed Generation

Efficient Demand

CONNECTED FROM PLANT TO PLUG

However to fully deliver , technology need be deployed in a behavior and cultural change , including in policies and regulations



# THANK YOU.

Life Is On

