Presented by:
Alan Chalmers, Manager of Services, South Australia

Look Inside Schneider Electric "Buildings"

Schneider Electric,
the global specialist in energy management and automation

€25 billion
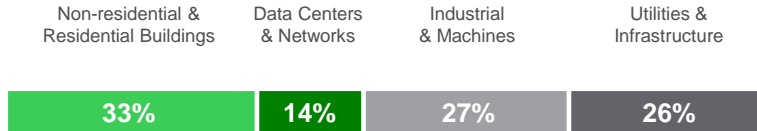FY 2016 revenues

~5%
of revenues devoted to R&D

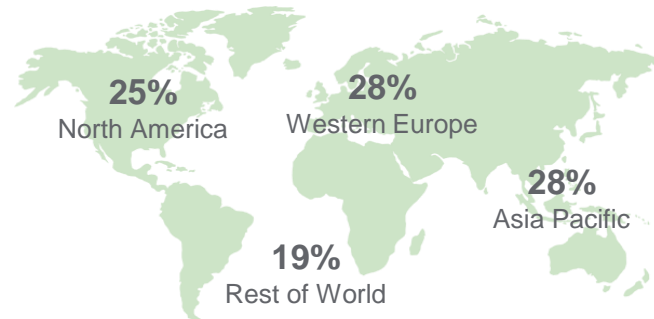**~170,000**
people in 100+ countries

~240+
Factories Globally

~61,500
Asia Pacific Employees

~80,000
Employed in R&D

Diversified end markets

Non-residential & Residential Buildings	Data Centers & Networks	Industrial & Machines	Utilities & Infrastructure
33%	14%	27%	26%

Balanced geographies

25%
North America

28%
Western Europe

28%
Asia Pacific

19%
Rest of World

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Our **Adelaide team** serving **your business ...**

- are the 1,200 employees involved in sales, delivery and manufacturing ready to support our clients
- are the 50 "Buildings" Segment employees engaged in delivering and supporting our clients maximize their facility efficiencies
- are the 20 "Buildings" Mobile Services team providing 24/7/365 support to our customers

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Megatrends are provoking a rise in Energy Demand

URBANIZATION
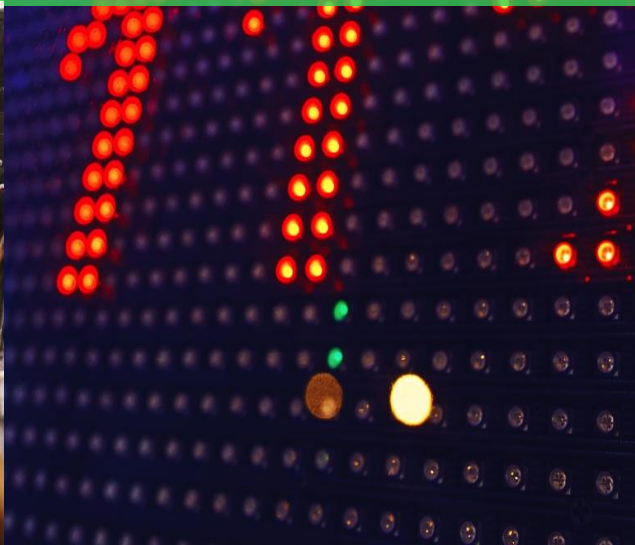+2.5B people in cities by 2050

Source: United Nations, DESA

DIGITIZATION
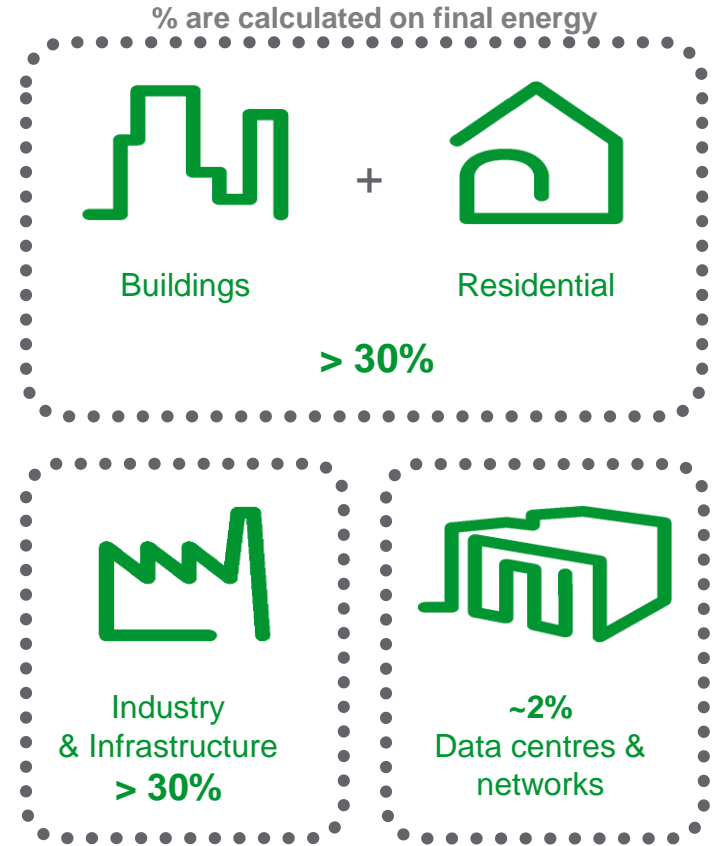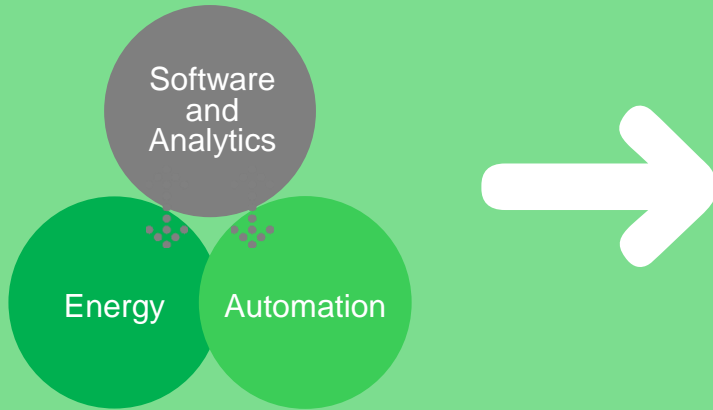50B connected things by 2020

Source: Cisco

INDUSTRIALIZATION
+50% Energy consumption by 2050

Source: IEA

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At Schneider Electric , we combine **Energy Management, Automation** and **Software** serving 4 markets, i.e. 70% of the world energy consumption

Software and Analytics

Energy

Automation

% are calculated on final energy

Buildings + Residential

> 30%

Industry & Infrastructure
> 30%

~2%
Data centres & networks

Source: IEA Explore 2015

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BIG DATA / IOT – Just for the sake of it – We don't think so!

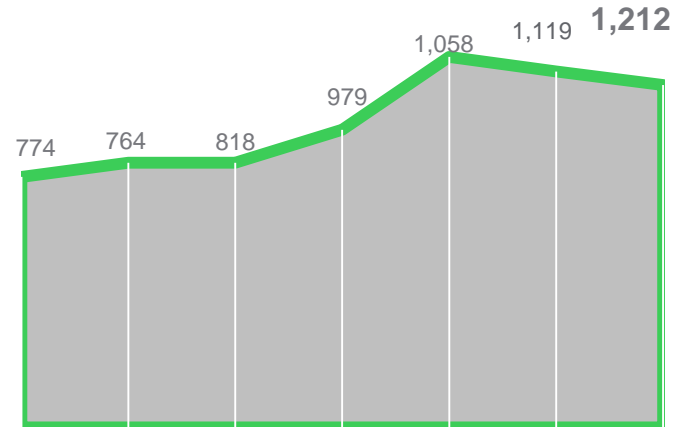# BIG DATA / IOT – Just for the sake of it – We don't think so!

Application Example # 1
SMART THERMOSTATS

- Apple, Google, Schneider Electric, Honeywell….. Room Thermostats

- 2016 Application of an 1840's Scottish Invention

Application Example # 2
PREDICTIVE LOAD MODELLING

- Predictive Building Load modelling
- Pre-Cool
- Occupancy Planning

774   764   818   979   1,058   1,119   **1,212**

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BIG DATA / IOT – Just for the sake of it – We don't think so!

Application Example # 3
REAL TIME LOCATION SERVICES

- Occupancy Management
- Load Applications
- Asset Management

Application Example # 4
SMART POWER

- Maintenance Efficiencies – Physical and Test
- Reduced install
- Reduced down time
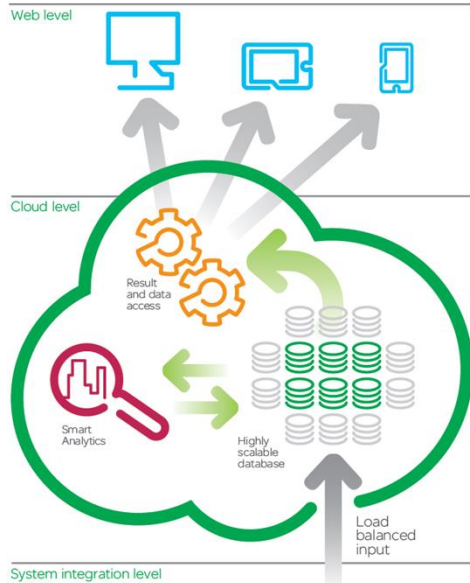- Improved Planning/Continuity
- Supply Validation

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BIG DATA / IOT – Just for the sake of it – We don't think so!

Application Example # 5
ANALYTICS

- Predictive Analytic Algorithms
- (Weather)
- Maintenance
- Efficiency

Application Example # 6
USER ENGAGEMENT

- WEB Interfaces
- Smartphone APPs – Data, After Hours ….
- Hardware Interfaces

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Example # 6 cont'd - Match the needs of your occupants

You can provide as much, or as little, information as needed to your occupants… in their language:

English, French, Spanish, Chinese, Russian, Arabic, Czech, Danish, Dutch, Finnish, German, Hungarian, Indonesian, Italian, Norwegian, Polish, Portuguese, Slovak, Swedish and Turkish.

Occupancy status

Short network message[3]

Date and Time[1]

Fan status

System status

Set point and override

Outdoor temperature[2]

Help menu

Preferred language

Celsius or Fahrenheit

Indoor humidity

Fan mode

Heating/Cooling

2013.09.26   12:54 PM
Room 1705
Occupied
Indoor °F
73.5°
74.5
Humidity   Outdoor
45%   64 °F

Life is On with Schneider Residential Solutions:

From **grid to living space**, we ensure **Peace of Mind, Comfort, Sustainability**

Connected Home System

Switches and Sockets
Weather proof Switches and Sockets

Uninterrupted Power SupplySurge Protector & Power Conditionning

Main Circuit Breaker

Solar Power systems

Luminous storage units

Motion & light Sensor

Indoor and outdoor Light Control

Smoke detector

Door Entry System

Temperature sensor

Curtain Control

"by 2050, 75% of the existing will still be standing"

EcoStruxure

Software & Analytics

Energy

Automation

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Life is On with Schneider Electric Building Solutions:

From **grid to floor space**, we ensure **safety, comfort, reliability, efficiency and sustainability**

Security Management   Building Management   Power Management

Circuit Breaker

Power factor correction Power meters

Busways

Cable Management Systems

Switches and Sockets
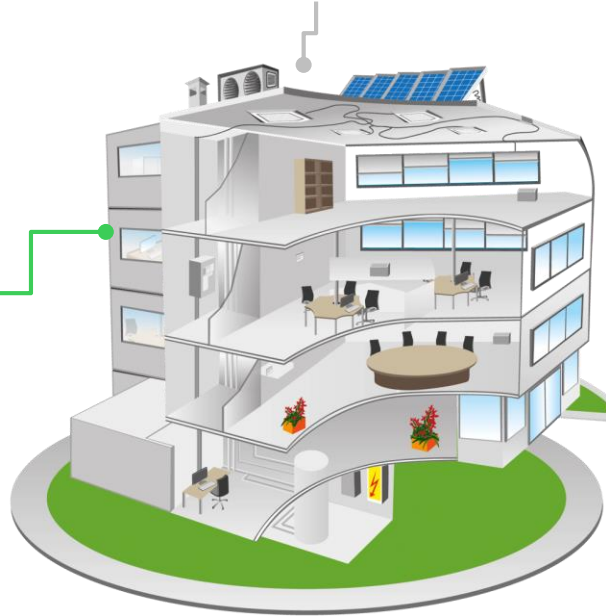
HVAC Controllers, Sensors, valves and actuators

Life Space Controls

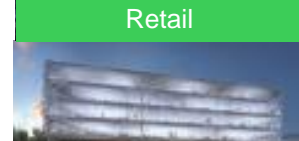Voice Data Image
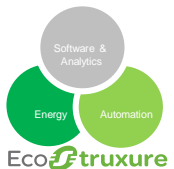
Cameras

Key Buildings Sub-Segments

Hotel

Hospital

Retail

Office

Life Science

Software & Analytics

Energy   Automation

Eco**⚡**truxure

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Life is On with Schneider Electric Smart City Solutions:

From **downtown** to **suburb** , we deliver **urban efficiency today**

Smart Water

- Plant & Network Energy Performance
- Water Distribution Optimization & Loss Mgt
- Stormwater management and Urban Flooding
- Irrigation Management

Smart Energy

- Smart Grid Asset Management, Smart Generation, Demand Side Management, Utility Services
- Renewables Integration & Micro Grid
- District Heating/Cooling Management
- Gas Distribution Management
- Shore Connection

Smart Buildings & Homes

- Multiple Disparate Buildings Management
- High Performance Buildings
- Flexible Buildings
- Efficient Homes

Smart Public Services

- Public Safety: Video Surveillance
- Smart Street Lighting Management

Smart Mobility

- EV Charging Infrastructure & Supervision Services
- Traffic Management
- Tunnel Management
- Tolling Management
- Railway Management
- Airport Solutions

Smart Data Center

- Efficient Data Centers
- Prefabricated Data Centers
- Infrastructure Enabled Management Services

Smart Integration

- City-wide Platforms
- Energy & Sustainability Resource Management
- Urban Efficiency Platform
- District Energy Management Information System

- Cross-domain Application
  - Weather
  - GIS
  - Asset Management

- City Strategy Services
  - Sustainability Services
  - Smart Cities Advisory Services
  - Energy Performance Contracting

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