Intelligent Buildings / Aalto University

Intelligent Buildings in Practice

09th November 2020

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Agenda

Welcome!

Expectations & Insights for the Lecture   Jaakko Ketomäki, Professor, Smart Buildings and Services

13.00-13.45

Short Introduction to Schneider Electric   Eija-Riitta Uitto, Talent Acquisition Specialist

Intelligent Buildings - Now and in the Future   Jani Miettinen, Technical Solution Expert

13.45-14.30

Virtual Tour to Innovation Hub
- EcoStruxure
- Machine
- Plant
- Smart Panel
- EVlink
- Security Expert
- Buildingd & Dali
- Fire Expert
- Valvomo

- Mika Kepponen
- Heikki Hietanen
- Heikki Hietanen
- Tuomas Mattila
- Tuomas Mattila
- Mika Kepponen
- Jani Miettinen
- Mika Kepponen
- Jani Miettinen

Schneider Electric leading the digital transformation of energy management and automation

Key figures for 2019
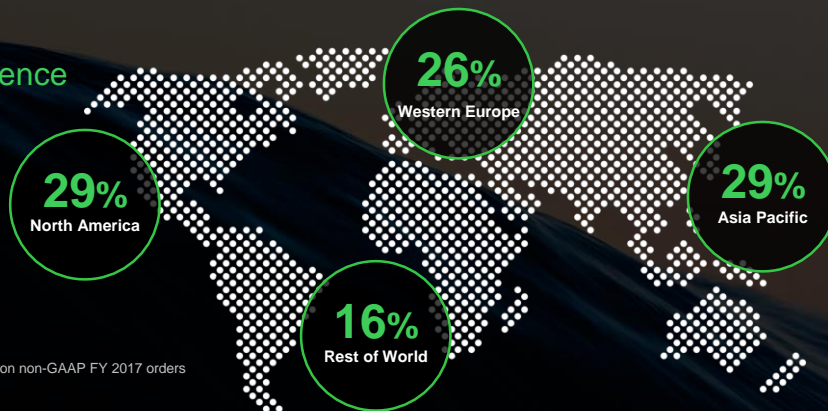
135,000+
Employees in over 100 countries

€27.2 billion
2019 revenues

c.5%
of revenues devoted to R&D

A well-balanced global presence
2019 Rewenues breakdown

26% Western Europe

29% North America

29% Asia Pacific

16% Rest of World

*Based on non-GAAP FY 2017 orders

Two synergistic business

Energy Management	Industrial Automation
77% - 21billion	23% - 6 billion

BUILDINGS   DATA CENTERS   INFRASTRUCTURE

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Intelligent Buildings

Now and in the future

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Jani Miettinen – Technical Solution Expert

What is Intelligent Building and what it could be?

- Built for a decade

  - Less sensing past and more in future

- Sensors and Edge computing

- Person identification and adaptive environment

  - Lights, blinds, temperature and so on.

  - In meeting rooms system recognize how many person in room

- Easier to create decentralization of systems with new, innovative technology

- Future is still open and lot of possibilities

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Architecture

How Intelligent Building?

- Less energy to bought to maintain good living and working environment

- Less parallel systems for sensing environment

  - Example: Human detect to lights, heating/cooling, air ventilation and security

- More integration to all level

  - All system should be monitored from one interface

  - Weather forecast to optimize HVAC

- Level of intelligent Building depend how it's made!