EP Building Products - Intro
Aalto University
Jami Sorsa, Product Marketing Director, EPBP – Domestic sales
Megatrends and market demands

Megatrends will change the world and our business
Megatrends and market demands

Today's customers' and people requests

„I want access to all relevant information. Any time, any place.“

„I want solutions from one source.“

„I want to act in simple processes.“

„I am thinking globally, but acting locally and personally.“

„I want to act responsibly and in a sustainable way.“

„I want to live my lifestyle.“
Our mission

Making life safe & easy

- With innovative and integrated solutions, we want to make buildings and industry applications intelligent and shape the future.

- With energy-efficiency and future-oriented technology, we want to ensure that people feel at home in buildings, have a maximum sense of safety and can work in a sustainable productive way.
BU Building Products
Overview Product Segments

Building Automation
- Building Control
- Smart Home
- Door Entry System
- Access control & security

Wiring Accessories
- Conventional Wiring Accessories
- Design orientated light switches & socket outlets
- Industrial plugs & sockets

DIN-Rail Products
- Miniature Circuit Breakers
- Residual Current Devices
- Surge Protective Devices
- Measurement Products
- Modular DIN-Rail Components
- SMISLINE TP

Distribution Enclosures
- Consumer Units
- Sub Distribution Boards
- Interieur fittings
- Automation Boards
- Installation Material

EV Infrastructure
- Fast chargers for cars
- Multi-standard fast chargers
- Single-standard fast chargers
- DC fast chargers for buses
BU Building Products

The customer segments

Living Space®

Building Space®

Industry Solutions
For all building types where people live

- Single family houses
- Row houses
- Luxury houses
- Apartments
- Residential buildings
- Hotels
Living Space®

The future is home

- Energy-efficiency
- Future-proof
- Sustainability
- Design
- Security
- Comfort
Living Space®

Home Automation

Comfort, efficiency and safety

ABB Intelligent Home Automation solutions are helping to provide comfort, efficiency and safety to all kinds of buildings where people live.

- Lighting control and regulation
- Heating, ventilation, cooling
- Blinds and shutter control
- Security, alarming and monitoring
- Door communication / access control
- Energy and load management
- Visualization and operation
- Central automatic
- Remote control / maintenance
- Interfacing to other control systems
For all commercial and public building types

- Office buildings
- Banks
- Shopping centers

- Hotels
- Hospitals
- Schools / Universities
- Theatres / Museums / Churches

- Industrial facilities
- Exhibition centers
- Airports
- Sport stadiums
Creating the future

- Future-proof
- Energy-efficiency
- Economy
- Security
- Design
- Sustainability
ABB Intelligent Building Automation solutions are helping to provide comfort, efficiency and safety to all kinds of commercial buildings.

- Lighting control and regulation
- Heating, ventilation, cooling
- Blinds and shutter control
- Security and monitoring
- Energy and load management
- Visualization and operation
- Central control
- Access control
- Remote control / maintenance
- Interfacing to other control systems (Building Management Systems)
Reference cases
Kalasatama Fiskari & Fregatti
Real time monitoring and control of individual loads within homes

95 flats + 48 Electrical Vehicle charging station.

**ABB solution:**

- KNX-automation at apartments
- 18 controllable loads, Electricity, hot & cold water measurements

**MicroSCADA/Historian gateway**

- For real time controls & measurement
- History for trending
- Interfacing with Service providers (Helen) via CIM data model

ABB has already implemented KNX home automation in 100 homes, and will do further 400 homes to be completed within Q3 2017.
Kalasatama Fiskari & Fregatti

Consumer interface
Airut Project in Jätkäsaari Helsinki

KNX automation monitors energy consumption of Jätkäsaari Airut

- 68 apartments 1st stage (Total of 500 apartments to be done)
  - Measuring and visualization of hot, cold water consumption
  - Measuring and visualization of energy consumption different controllable loads
    - Possibility of consumption decrease
  - Room-specific heating control and decrease
  - At home / away / long time away -controls
  - Possibility to participate electricity market (DR)
- Electric car charging
- Construction begin May 2016
- Completed August 2017
Airut Project in Jätkäsaari Helsinki

Energy display from Nuuka solution
All together 27 apartments are equipped with ABB free@home home automation system. Apartment owners were allowed to choose from 4 different levels of system.

Available options:

**Standard**
- ABB Welcome-door communication and free@home-remote control via smart devices
- Home/Away functionality with On/Off light switching as well turning off socket outlets
- Easy to extend with additional functionalities incl. F@H wireless devices

**Basic**
- All lighting points controlled by free@home system, additional connected loads, door communication with touch display

**Basic +**
- Dimming functions incl. with free@home, alarms, movement detectors, blind control

**Extended**
- All of the above + heating and cooling controlled by free@home
Significant digital opportunities @Buildings segment

Digital S-Curve

Level of digitalization vs. Time

- ABB end-market
- Other industries

Source: ABB analysis