

# **Creating smarter future of homes, buildings and mobility**





# Megatrends shape the future of buildings



## Urbanization

70% of the world's population will live in cities by 2050<sup>1</sup>

UN study



## Digitalization

By 2020, 33bn+ internet-connected devices will be used worldwide<sup>2</sup>

Strategy Analytics study



## Integration of flexible supply

The solar market will grow to 150 GW in 2025

Frost&Sullivan

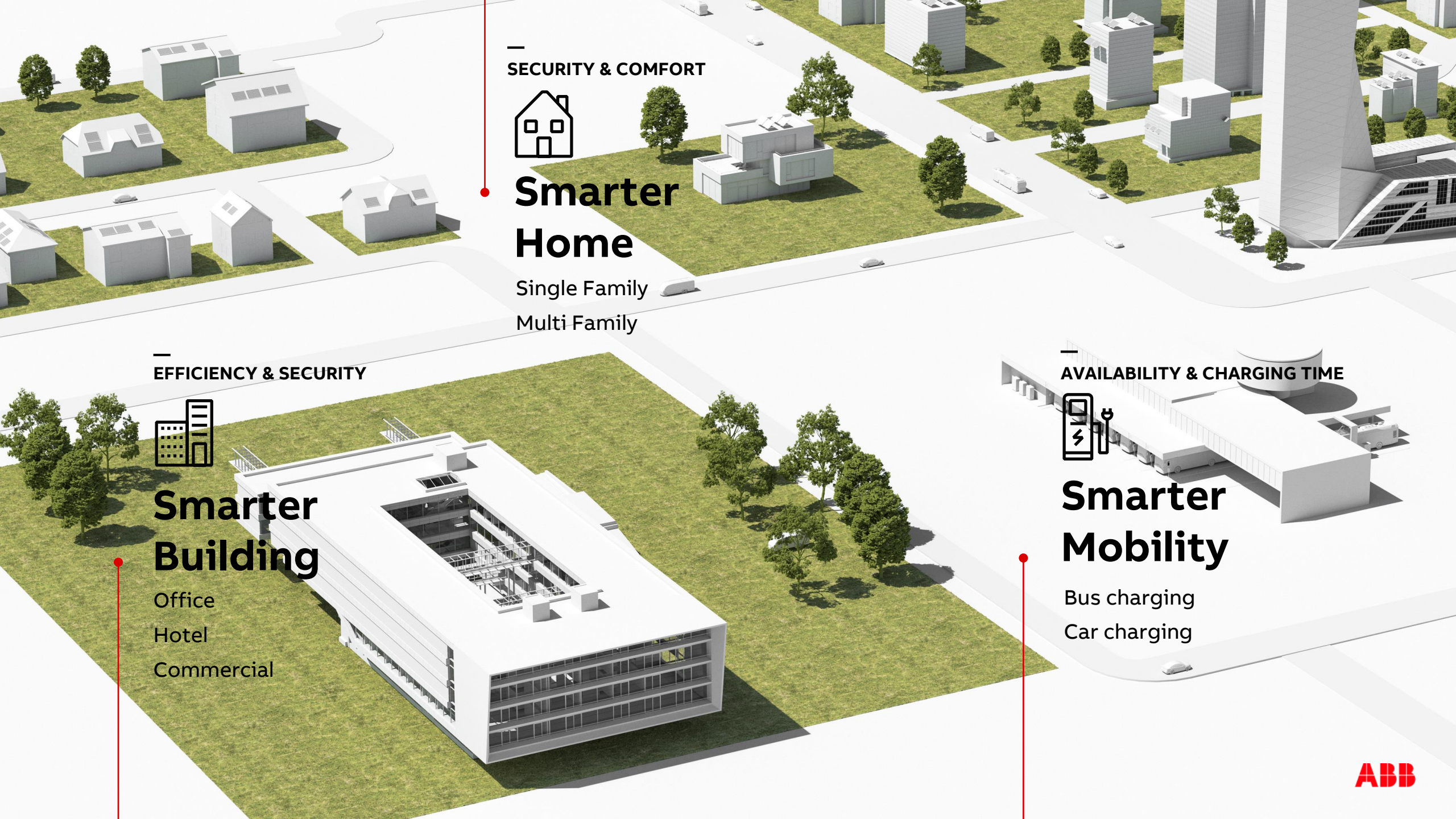


## Integration of flexible demand

EVs will represent over 55% of the market by 2040

Bloomberg





—  
SECURITY & COMFORT



## Smarter Home

Single Family  
Multi Family

—  
EFFICIENCY & SECURITY



## Smarter Building

Office  
Hotel  
Commercial

—  
AVAILABILITY & CHARGING TIME



## Smarter Mobility

Bus charging  
Car charging

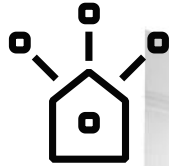


# Current possibilities

To increase security and comfort

## ABB Ability™

Remote control, maintenance,  
commissioning



## Smarter Home

# Current possibilities

To increase security and comfort

## EFFICIENCY



Solar, EV Charging

## CONTROL



Control via smartphone or tablet inside or remote

## FLEXIBILITY



Sonos, Alexa, Google,  
Apple & Philips Hue Integration  
Smarter Home Developer Program

ABB Ability™

## SECURITY



CCTV, Sirens, Home security, Door  
communication, Access control

## COMFORT



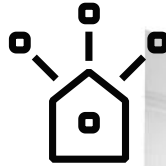
Light, Blinds, Heating

# Current possibilities

To increase security and comfort

## ABB Ability™

Remote control, maintenance,  
commissioning



## Home Automation

ABB-free@home®

ABB-secure@home

ABB-Welcome

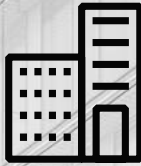


# Current possibilities

To increase efficiency and security

## ABB Ability™

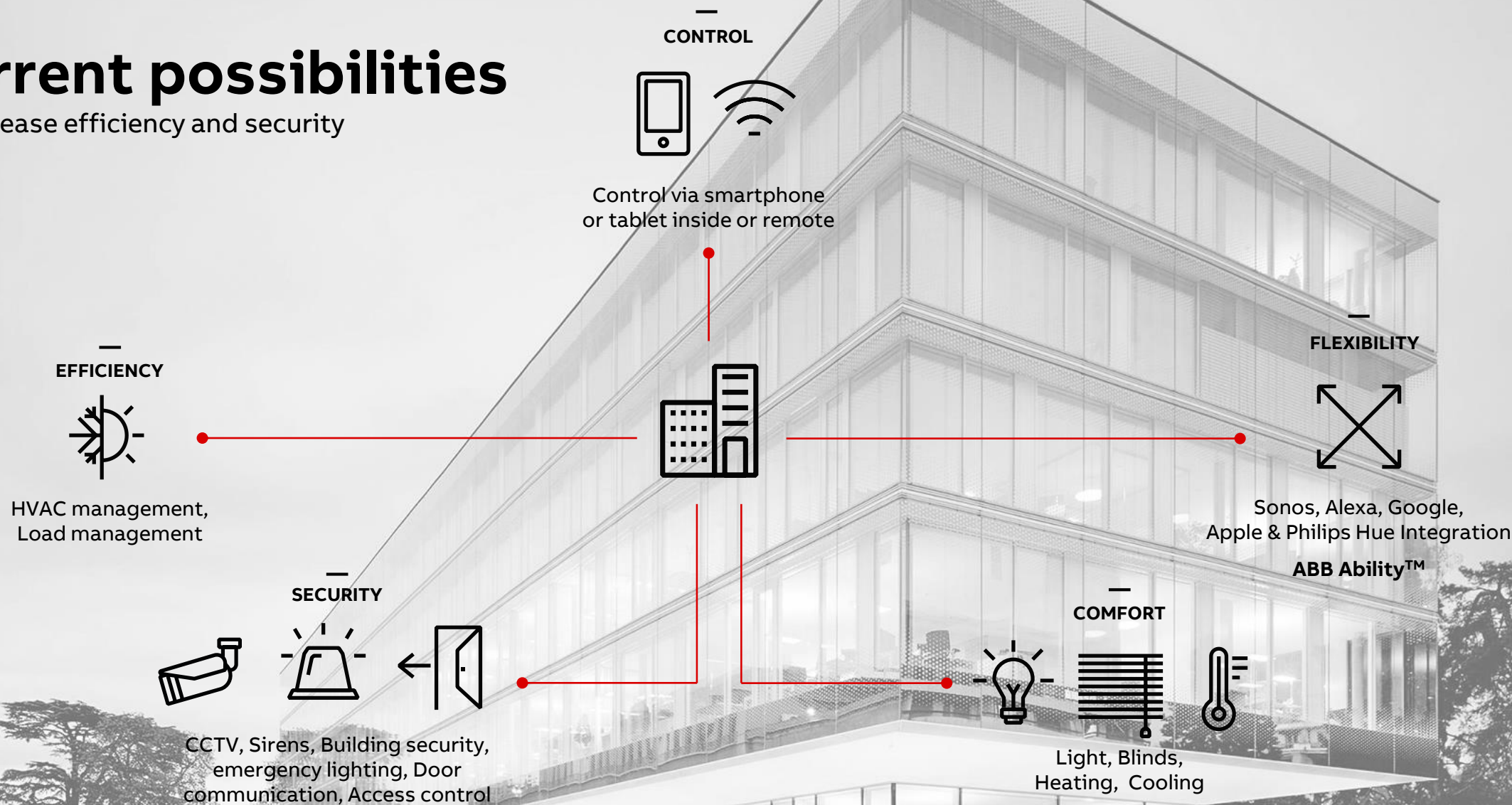
Remote control, maintenance,  
commissioning



**Smarter  
Building**

# Current possibilities

To increase efficiency and security



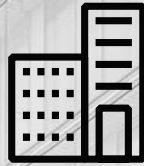


# Current possibilities

To increase efficiency and security

## ABB Ability™

Remote control, maintenance,  
commissioning



## Building Automation

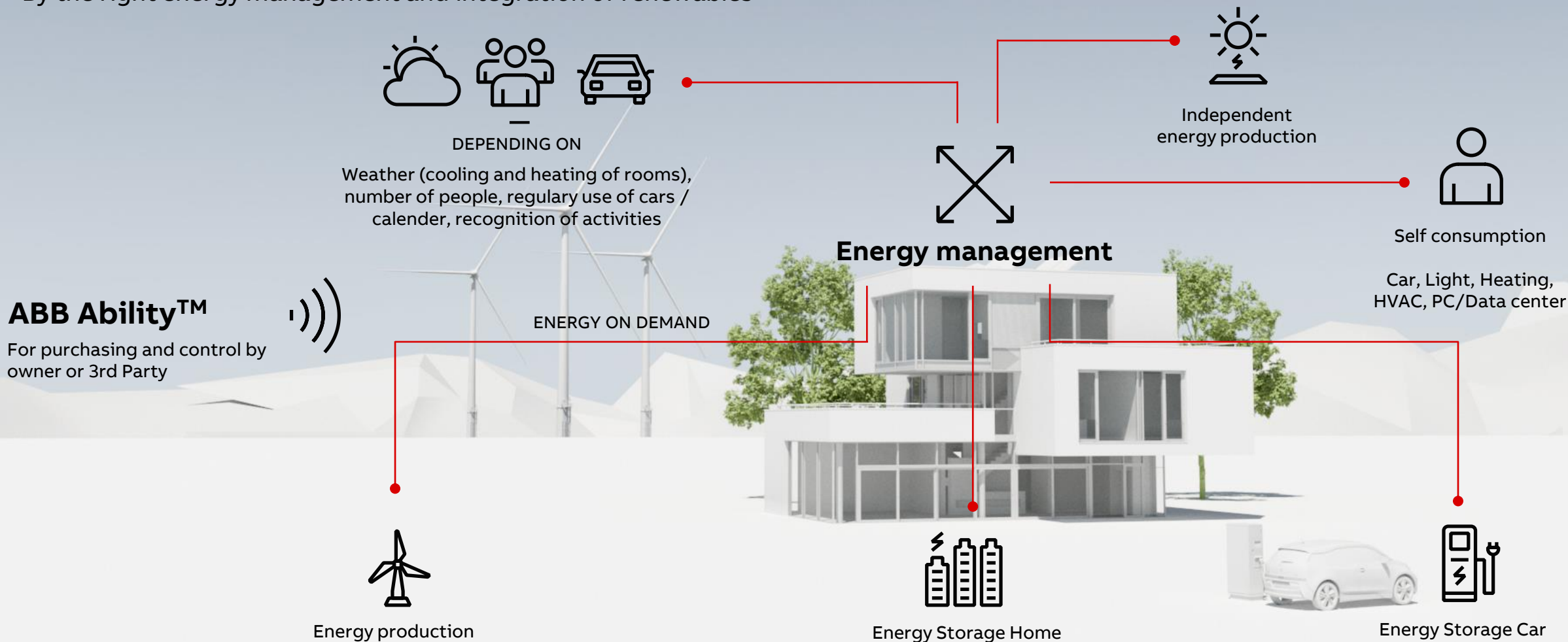
ABB i-bus® KNX

ABB-Welcome IP

**ABB**

# Future possibilities – energy efficiency

By the right energy management and integration of renewables





# Future possibilities – AI and face recognition

For supporting individualization and well being

## ABB Ability™

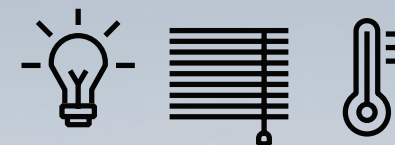
For purchasing and control by owner or 3rd party



Personalization through face recognition  
Building knows who you are and changes the setup



CONTROL

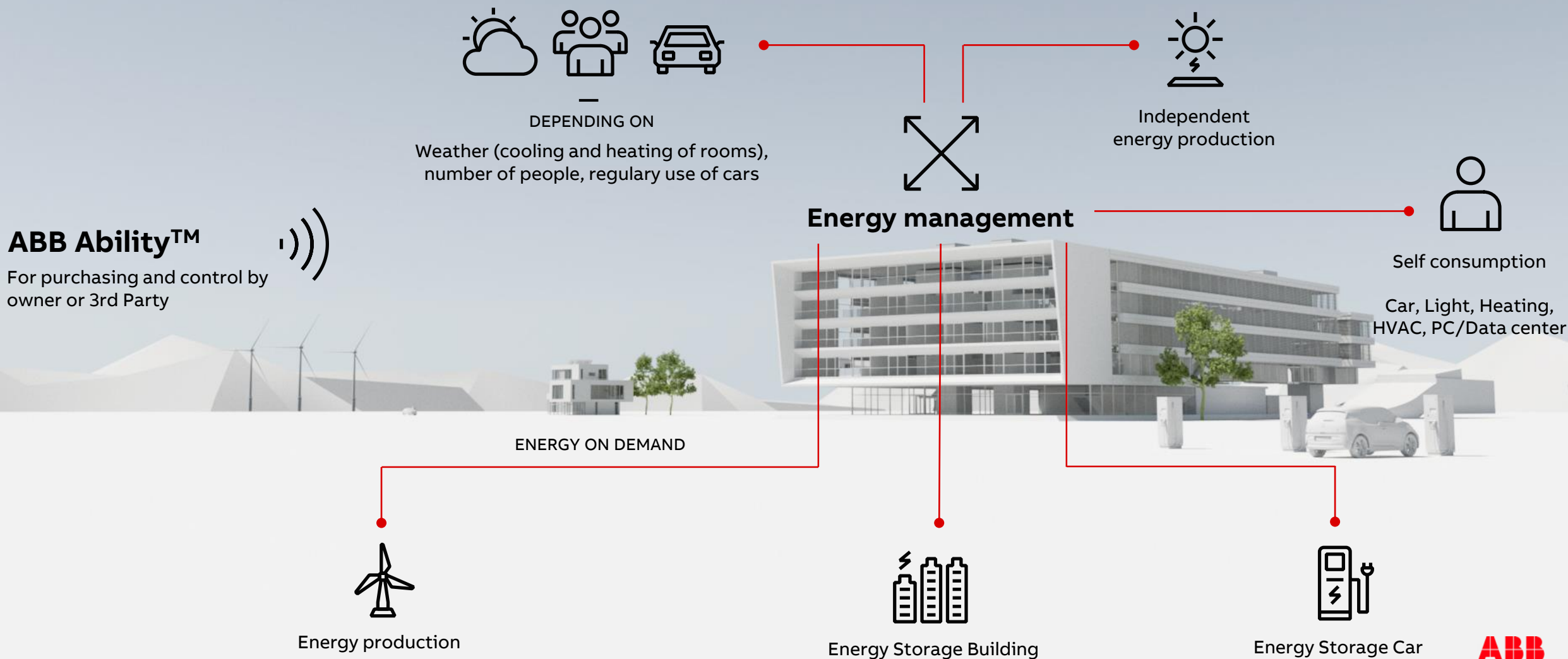


Based on experience AI changes the setup of the house



# Future possibilities – load management

By the right energy management and integration of renewables





# Future possibilities – easy integration

To reduce construction and maintenance time

## ABB Ability™

Configuration, ordering,  
commissioning and control



Professional configures  
and orders via ABB Ability



Installation of  
the devices



Light



LEARNING BUILDING

Building recognize the  
devices automatically

Commissioning  
via ABB Ability



CCTV



HVAC

# Future possibilities – personalization

To increase the security level and have convenient usage



Camera  
recognition



Personalization through face  
recognition

Building knows who you are

INDIVIDUAL NEEDS



Temperature, light  
time Management, routing,  
work space management  
meet right people



# Future possibilities – personalization

To increase the security level and have convenient usage



Camera  
recognition



Personalization through face  
recognition

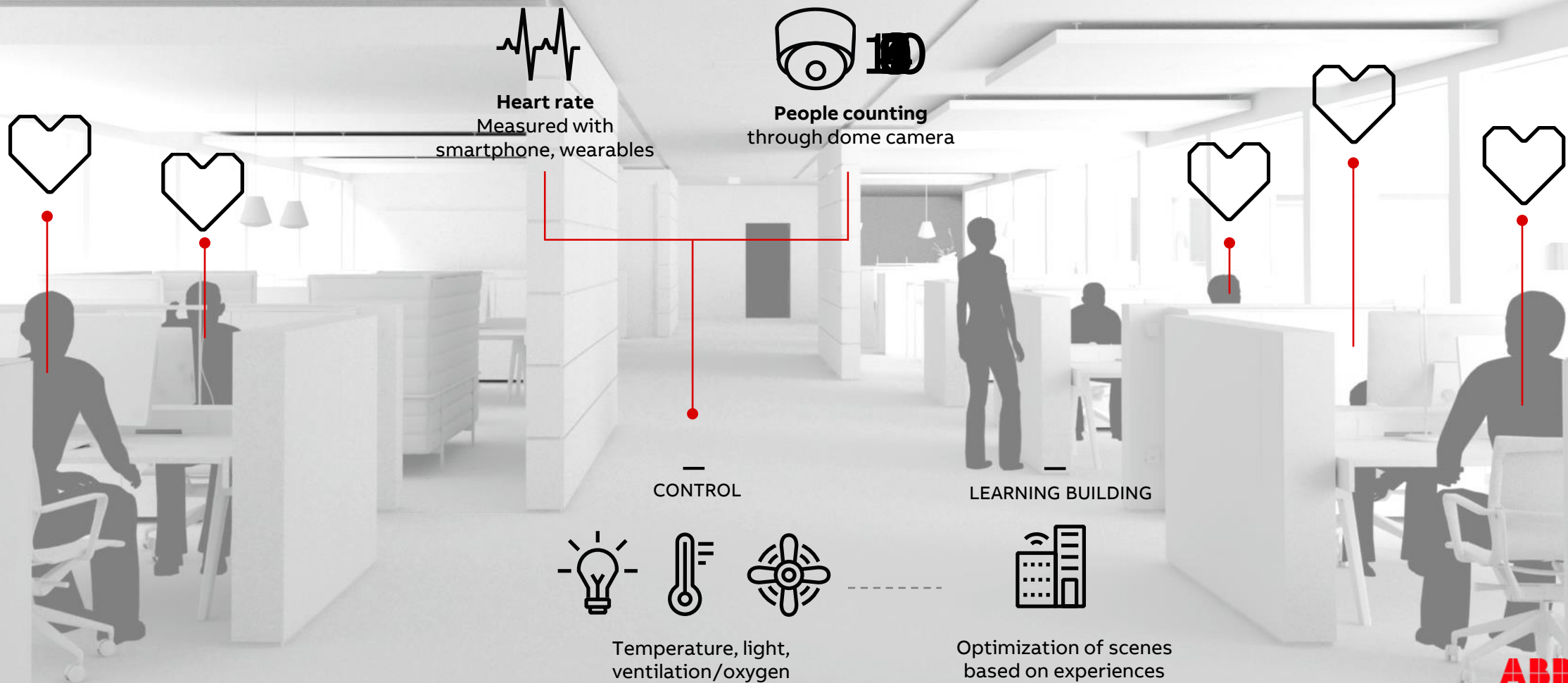
Building knows who you are



Temperature, light  
time Management, routing,  
work space management  
meet right people

# Future possibilities – well-being

To create healthy working places





# Future possibilities – routing

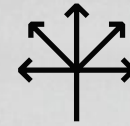
To increase the safety level and have convenient usage



Routing Light



Emergency Exit

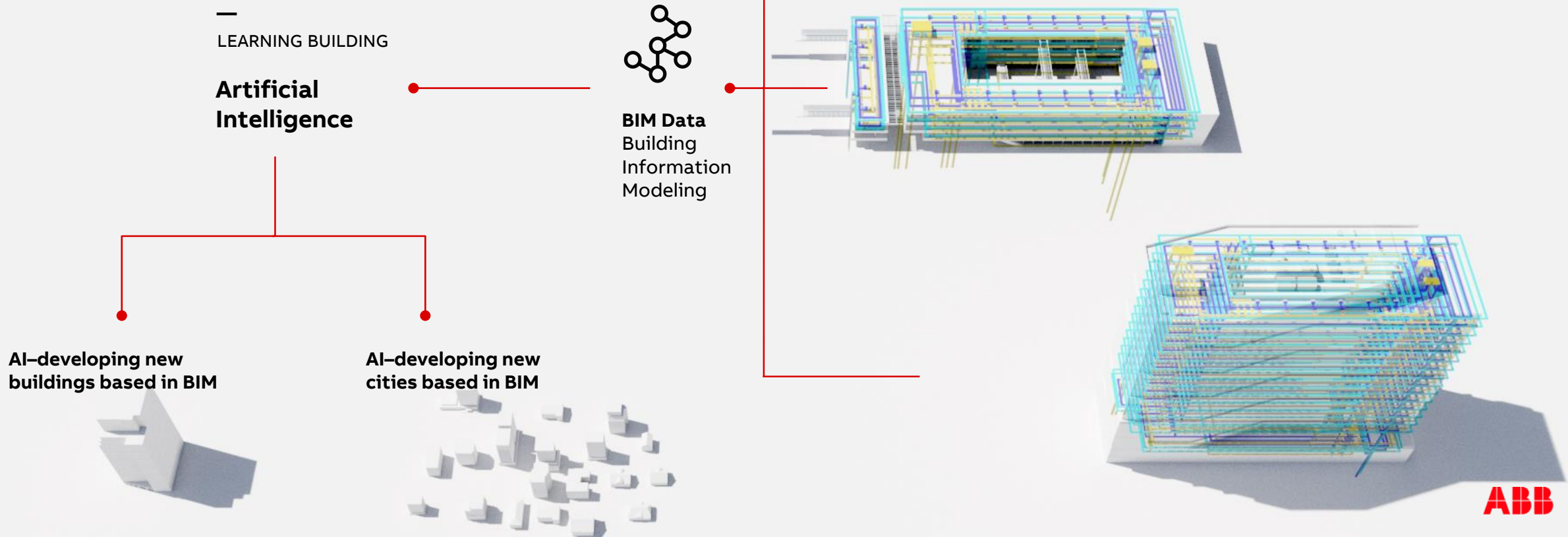


ROUTING

Guiding through the building, access control, calendar functions, sirens, escape routing, overview of people inside the building

# Future possibilities – BIM data

To improve building applications during lifetime





# Conclusion

## Megatrends

Urbanization



Digitalization



Flexible demand



Flexible supply



## Expectations

Control

Comfort



Security

Efficiency

Flexibility

## ABB Ability™ solutions

Smarter Home



Smarter Building



Smarter Mobility





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SECURITY & COMFORT



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