



# Smart buildings and performance monitoring, the role of BACS

**Bertrand DEPREZ**  
Vice President EU Government Affairs,  
Schneider Electric



## How does it start



**Efficient**



**People centric**

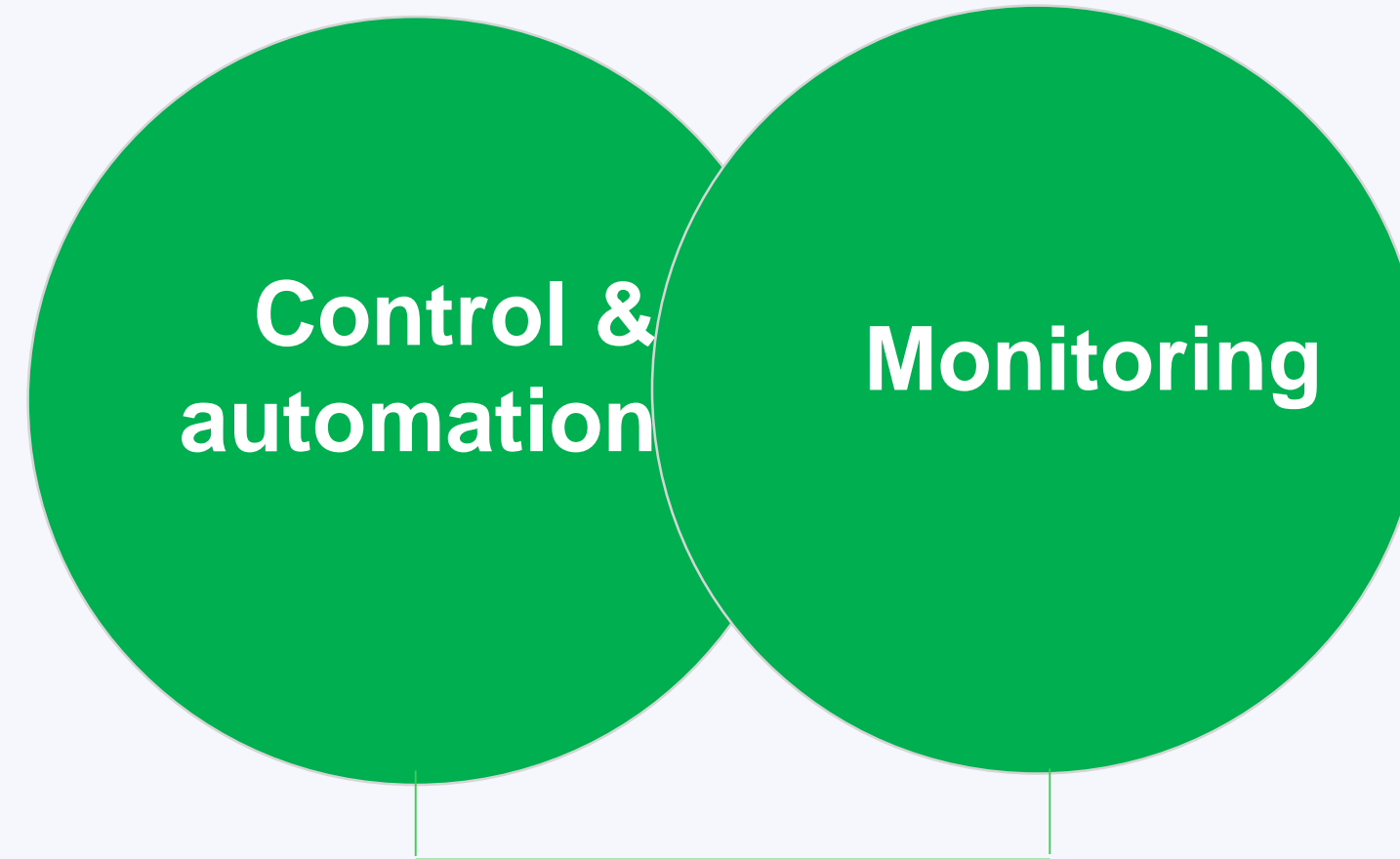


**Safe and reliable**

**EUSEW19 session "lucky" 13: Wednesday 19 June, 9h00 – 10h30  
NEW EPBD: THE VALUE OF ACTUAL PERFORMANCE AND  
DIGITALISATION**

17-21 JUNE 2019  
SHAPING EUROPE'S ENERGY FUTURE  
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# Building automation and controls offer tremendous benefits for improved buildings smartness and performance



Step up building automation and controls roll-out  
For significant benefits

Energy efficiency  
Up to  
**~65%**  
Average (30 %)

Indirect jobs created by  
a ++ policy framework  
**+3.7M**  
By 2030

Reliability and Safety  
**50%**  
Fewer incidents

Sustainability  
Aiming at  
**0**  
Carbon emissions

# Connecting the dots

## EcoStruxure™ Architecture



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# The Edge (Deloitte) Amsterdam

The world's most sustainable office building



## Customer Challenges

- Maximize energy efficiency and sustainability
- Ensure the comfort, health and productivity of occupants

## Solutions

- EcoStruxure Building Operation\*
- EcoStruxure Power Monitoring Expert\*\*
- Automation servers, electrical distribution and field devices
- Installed by an EcoXpert

## Customer Benefits

- Leverage single IP backbone for all building ecosystems
- Improve occupant control room comfort via smartphone
- Access building data via simple dashboards

The Results: Life is On with...  
Awarded highest score ever by Building Research Establishment (BRE) **98.36%**

*"Sustainability is about more than a great BREEAM rating. It is also about a building's overall comfort and efficiency for its occupants."*

**Coen van Oostrom,**  
Founder and CEO of OVG Real Estate  
(owner/developer of The Edge)

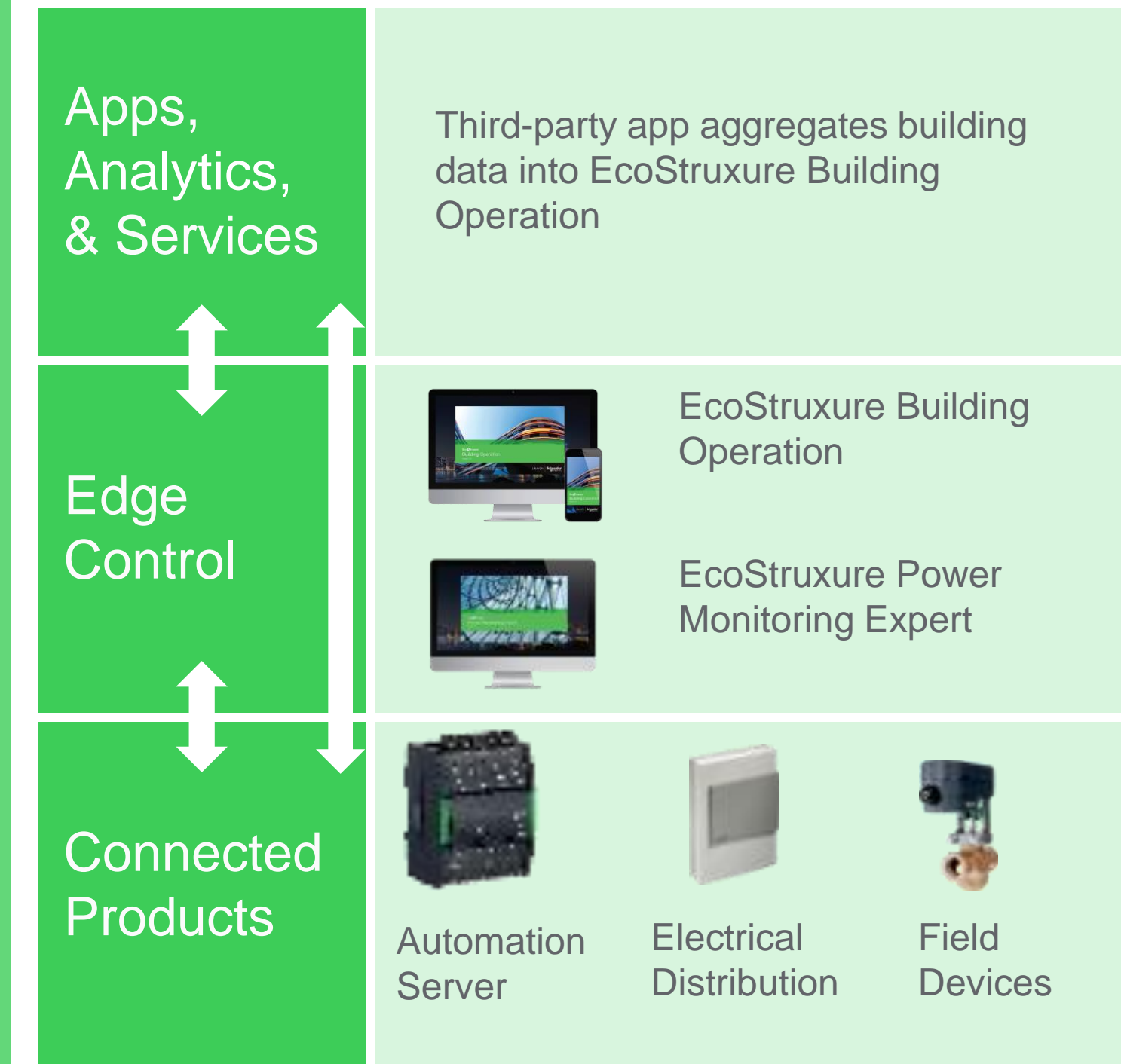
[Watch video](#)

\*Formerly known as StruxureWare Building Operation Software  
\*\*Formerly known as Power Monitoring Expert

**40,000 m<sup>2</sup>** multi-tenant office building in Amsterdam consumes **<0.3 kWh/m<sup>2</sup>/yr**



**EcoStruxure™ For Building**  
Innovation At Every Level



# Cost of disruption

- Financial trading: €6,000,000 per hour
- Data center: €750,000 per event
- Telecommunications: €1,8M per hour
- Steel works: €350,000 per event
- Glassindustry: €250,000 per event

**However, investment for energy renovation is still very low (deep energy renovation less than 0,1% of total renovation work in non residential buildings)**



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