

Smart Building CONFERENCE

Integrated Systems Europe 2023

Smart Building System Integration:
Turning Idea into Reality

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SmartScore
CERTIFIED



WiredScore
CERTIFIED

what are the **DRIVERS**

for Smart Buildings?

**ENERGY
EFFICIENCY**

**SPACE
OPTIMIZATION**

**WORKSPACE
EXPERIENCE**

SmartScore & WiredScore **CERTIFICATIONS**



SmartScore
CERTIFIED



WiredScore
CERTIFIED





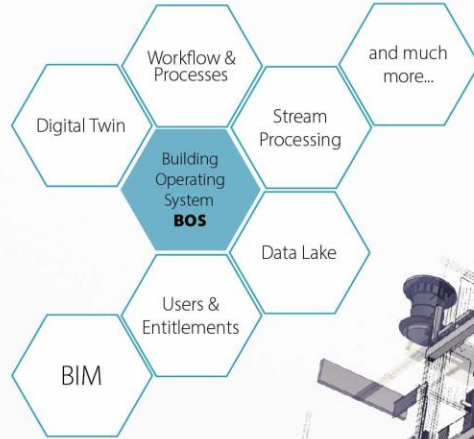
NEW vs. RETRO

New builds are the exception



Setup of a Smart Building

Next Generation
of Smart Building





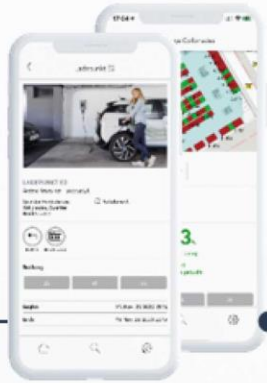
A DAY in a MODERN WORKPLACE

Digital, secure & efficient

1. What do I need to consider for my day at the office?



2. E-Mobility / parking / find / book



3. Book your workplace



4. (Touchless) access to the building



5. Which colleague is in the office?
Optional function



Microsoft 365
10. Meeting rooms find / book



9. Point of Interest (POI), Chat, Pinboards,



8. Canteen utilization
Order / pay for menu internal / external



7. Guest invitation



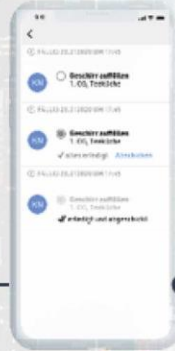
6. Smart Locker Integration



11. Indoor- and Campus-Navigation



12. Work request



13. Building control

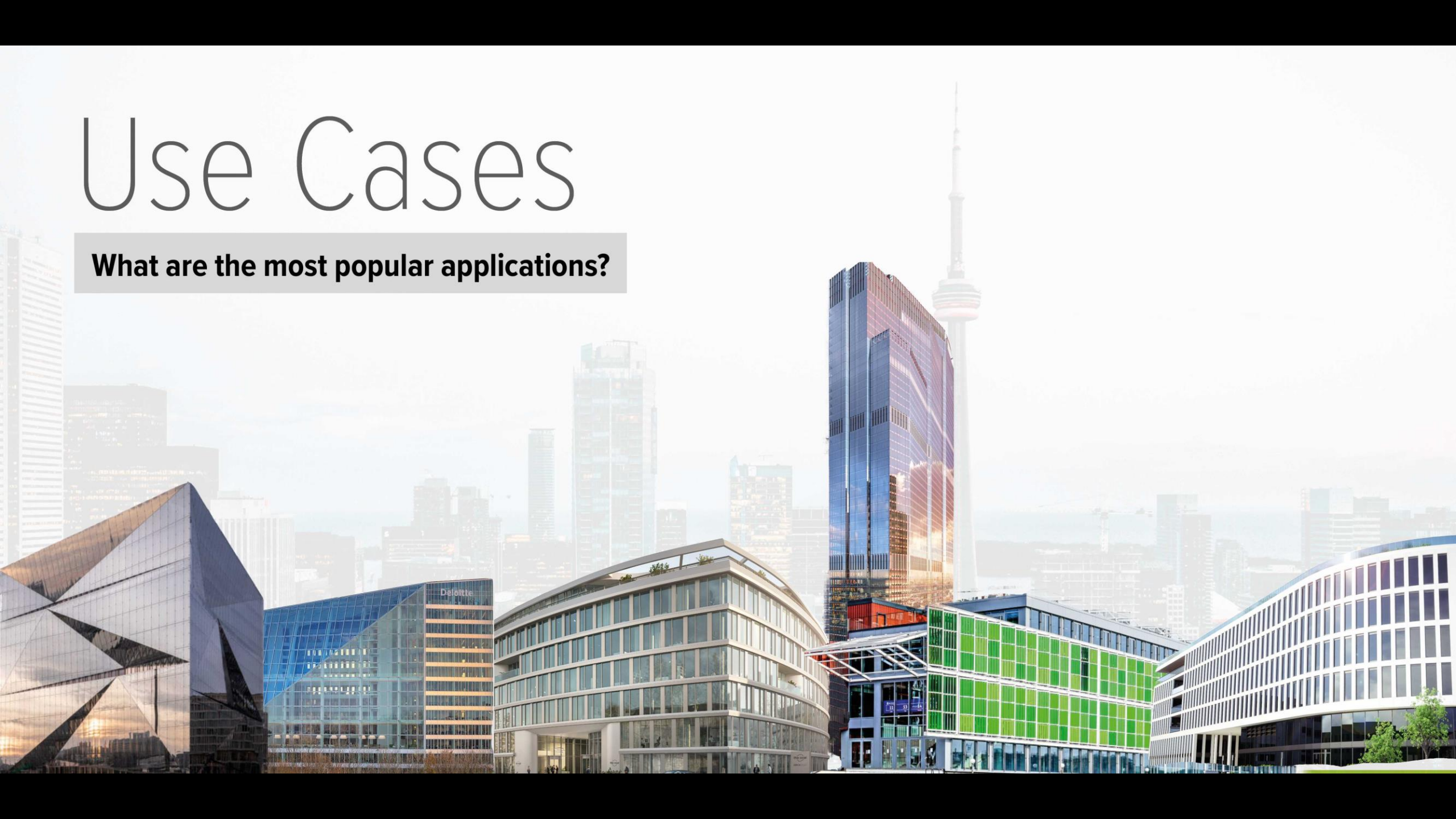


14. Info about the surroundings / public transport



Use Cases

What are the most popular applications?



Intelligent booking

- ✓ Optimize space utilization
- ✓ Adjust spaces to meet demand
- ✓ Improve the workplace experience
- ✓ Avoid idleness and non-productive periods

Room bookings

How can I effectively book and manage spaces in the smart office?

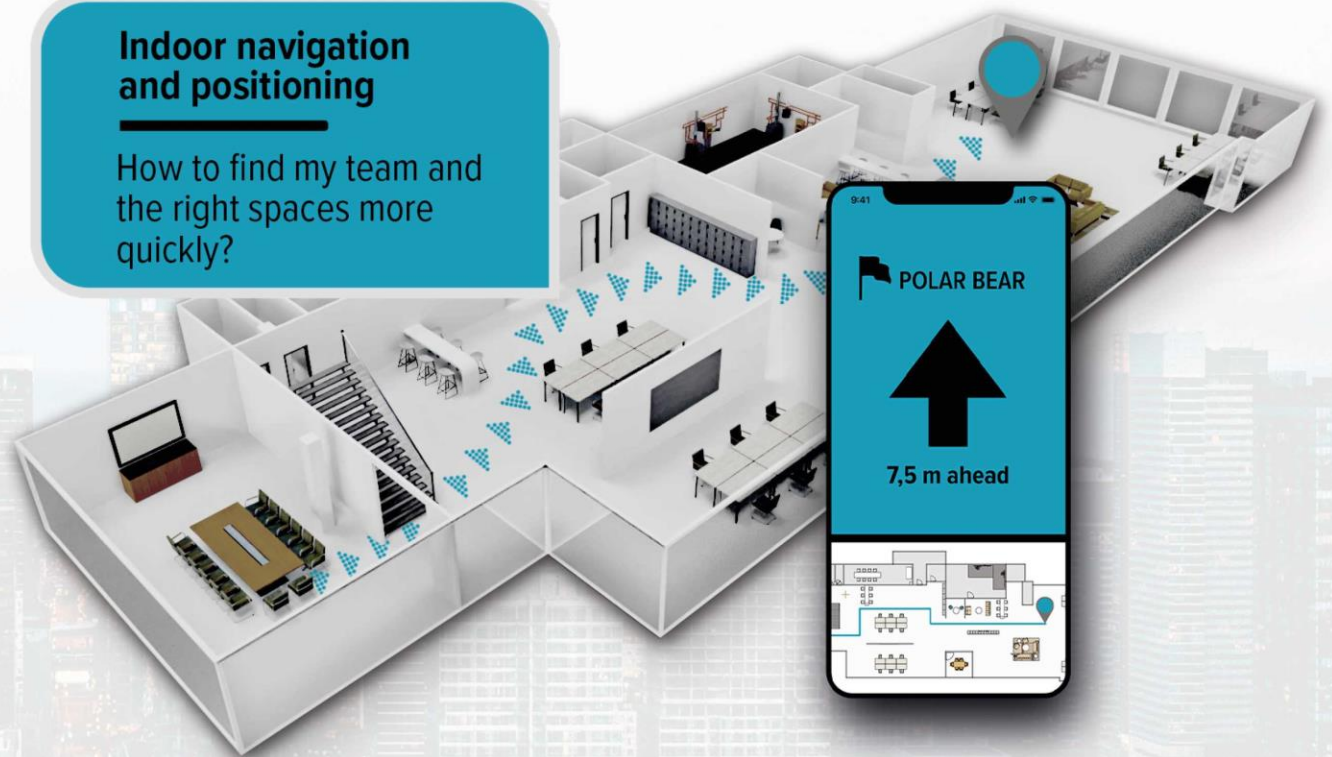


Indoor Navigation

- ✓ Improves sense of orientation
- ✓ Avoid unproductive wandering
- ✓ Find people, places, and things
- ✓ Especially important for a multi-building campus and companies with multiple locations

Indoor navigation and positioning

How to find my team and the right spaces more quickly?



Building control

- ✓ Saving energy
- ✓ Improves wellbeing of staff and visitors
- ✓ Advantage for existing building control components

Building control

How to control the lights, temperature, AV tech, and other things?

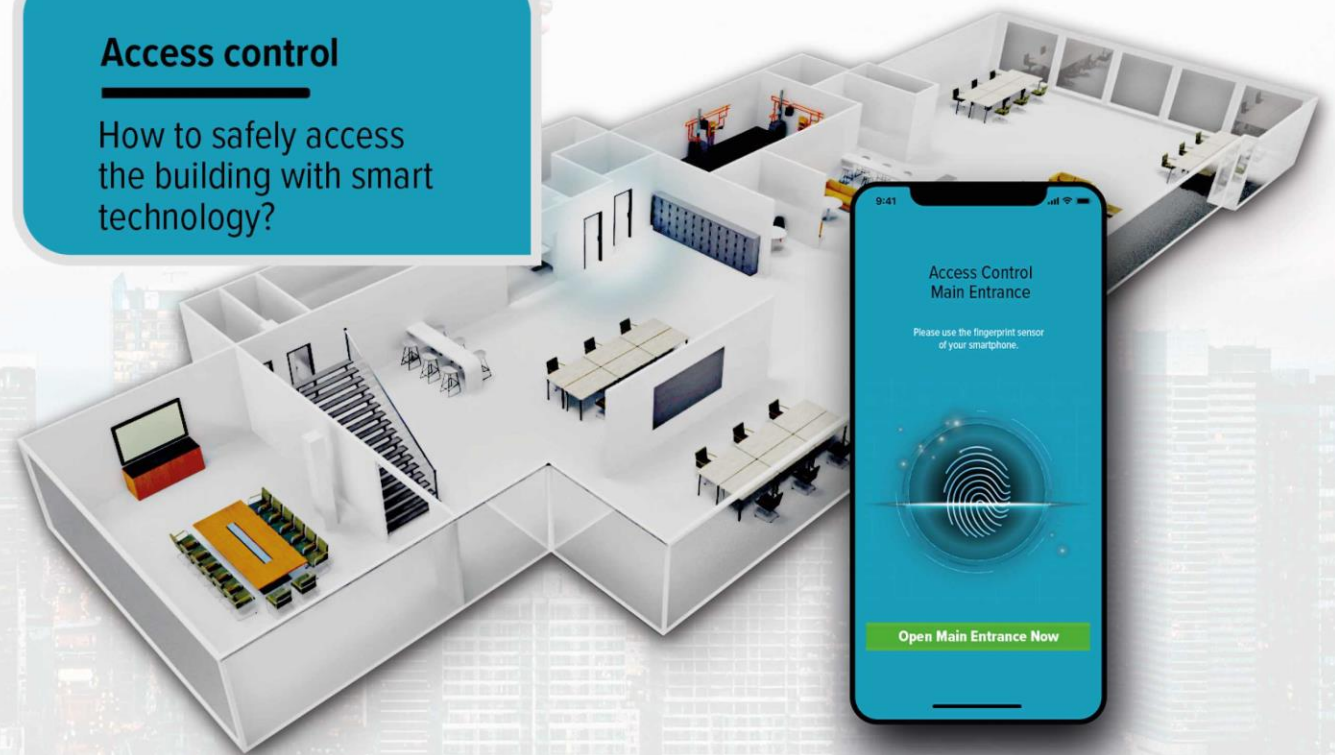


Access Management

- ✓ Saving time
- ✓ More flexibility
- ✓ Modern security aspects

Access control

How to safely access the building with smart technology?





real world
EXAMPLES

of smart buildings!

Skypark Business Center

Luxembourg Airport

The Skypark Business Center is designed to be a truly Smart Building. In business, having up-to-date and transparent data is one of the biggest challenges for those responsible for corporate real estate management and facility management. Unfortunately, reality often consists of outdated, incomplete information that provides few opportunities for optimization or recommendations for improvement in CREM/FM. This will not be a problem at the Skypark Business Center in Luxembourg. A digital twin will provide reliable building and user data in real-time there in the future with more than 77.000 sqm space and 80.000 sqm parking.

- Building OS and integration layer for all associated systems
- Integration of building control systems
- User app for enhanced visitor experience
- Datapoints for all systems and business intelligence
- Access management, car parking, e-charging solution



1

Use cases using the example of **Allianz Sky Office Düsseldorf**

Building Operating System from vayandata.
Data is stored in the cloud and processed into a clear dashboard.

- People counting
- Air quality measurement
- Utilisation analysis via WiFi access points
- Counting of door openings and closings
- Intelligent electricity metering

2

Use cases using the example of **Unite (Mercateo)**

Mercateo develops its new HQ building in Leipzig with more than 11.000 sqm. The primary focus is the workspace experience due that they are in need of talented employees as a fast-growing company.

- Smart booking of Desks and Meeting Rooms
- Locker Integration based on Vecos
- BACnet Integration for Energy Monitoring
- Smart Access Control
- Sensor-based Occupancy Analytics
- Beacon-based Indoor Navigation



Allianz 

3

Use cases using the example of **The Oval Düsseldorf**

Based on the leading Smart Building Platform Thing-it, various use cases are available in the Oval with more than 15.000 sqm Office Space.

- Indoor Navigation via Bluetooth Beacons
- Sensor-based Occupancy Analytics
- Access Control with HID
- Building Automation via BACnet
- Automated Facility Management Workflows

4

Use cases using the example of **KII Düsseldorf**

The KII building with Europe's largest green facade has already won the award for best new building in Germany. The KII is also one of the finalists in the „Best Mixed-Use Development“ category at the international real estate trade fair MIPIM.

- Occupancy Analytics
- BACnet Integration
- Beacon-based Indoor Navigation



GPA and GMS as one

International projects at the highest level



GMS in facts and figures

- » Founded in 2004
- » 60 members of the team
- » HQ in Schwalbach (Frankfurt/Main)
- » ISO certifications (9001 and 27001)
- » Privately owned
- » New branch in Berlin

GPA - biggest global integrator

- » 164 Cities
- » 50 Countries
- » 4.500+ Employees
- » 1,6 Bn USD annual turnover

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TOP 50
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