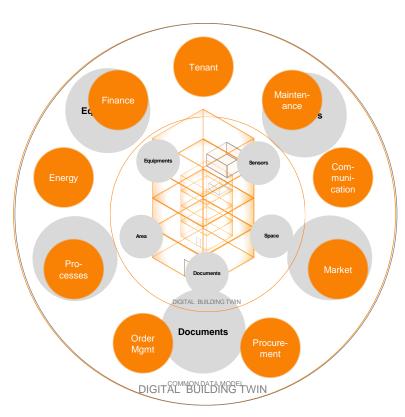




BuildingMinds Digital Building Twin and The Common Data Model

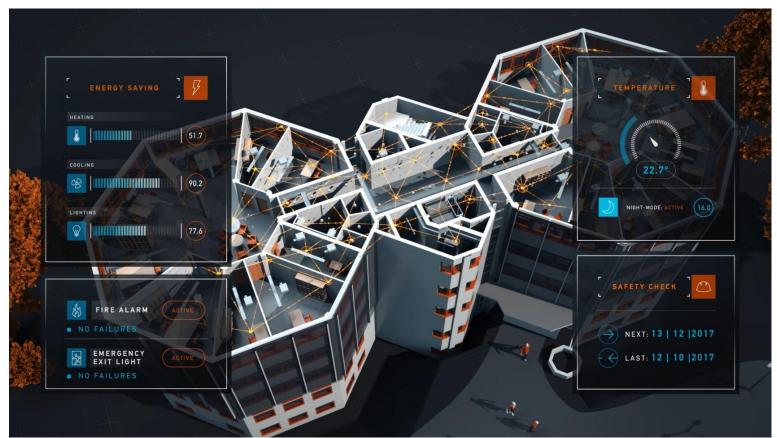


- Financial information
- Tenant information
- Energy consumption
- Contract information
- Service provider information
- Maintenance data
- Market information
- loT (Internet of Things)
- Reporting / disclosure

•



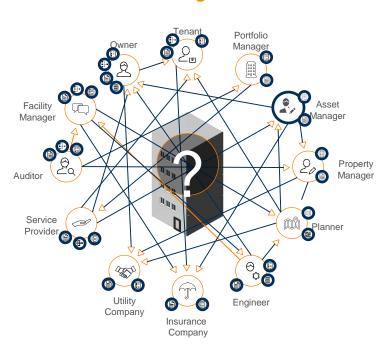
Digital Building Twin: Single Source of Truth fusing Physical & Digital



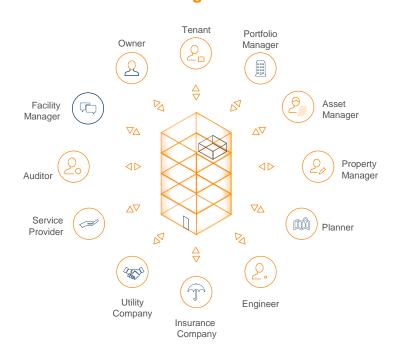


Digital Building Twin: Unleash the power of data

Without Digital Twin



With Digital Twin



Separate Data Silos

Integrated Solution





INTEGRATED FULL-SCALE PERFORMANCE ANALYTICS

LEARNING / ARTIFICIAL INTELLIGENCE

DIGITAL **BUILDING TWIN**

MANAGE PERFORMANCE FROM THE ENTIRE PORTFOLIO TO THE SINGLE BUILDING

COMMON DATA MODEL

BE THE MASTERMIND OF YOUR ASSETS

DATA NORMALIZATION AND AUGMENTATION

DATA INTEGRATION



ERP



CAFM







BMS



Market Data



COMMON DATA MODEL



DATA-DRIVEN INSIGHTS

OPEN API & CONNECTORS

















Energy management



Water and waste management



Scope 1, 2 and 3 CO2e emissions tracking



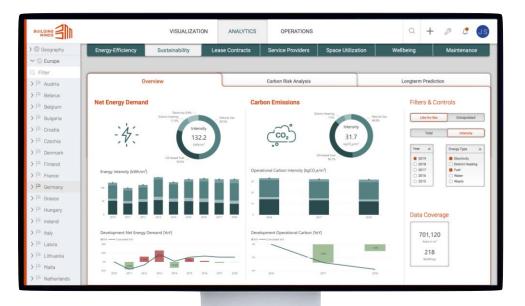
Transition Risk management





BuildingMinds Sustainability Cockpit

ENERGY CONSUMPTION & CARBON FOOTPRINT



Overview of Ressource Consumption

 Aggregated consumption data from portfolio down to buildinglevel for all types of energy, water & waste

Energy Consumption and Carbon Emission Details

- Breakdown into different energy-types and sources
- Intensity figures (per sqm) for portfolio, sub-portfolios, businessunits, regions or individual buildings
- Separation and reporting of scope 1, 2 & 3 emissions (from owner or tenant-perspective according to Greenhouse Gas Protocol)
- Development of energy consumption over time

Overview of Operational Carbon Footprint

 Total carbon emissions - from portfolio down to building-level for electricity, district heating, fuels, water & waste

Embodied Carbon Footprint

- Estimation of embodied carbon from portfolio down to building level based on RICS Database
- Option for detailed calculation of embodied carbon footprint based on digital building twin



BuildingMinds Sustainability Cockpit

CARBON RISK MONITORING



Stranded asset monitor (CRREW targets)

- Overview of energy-intensity and carbon-intensity in comparison to CRREM targets based on EU climate goals (max. +2°C)
- Building performance development over time based on energy mix and predicted consumption
- overview for entire portfolio, regions, business-units or individual buildings

Simulation of decarbonization paths*

- Calculation of operational carbon saving from transition to more sustainable energy sources or modernization efforts
- Estimation of carbon invest from modernization efforts (construction and materials) and break-even / "carbon ROI"

Simulation of carbon pricing

- setting individual carbon prices in €/tCO₂e to predict the impact on portfolio value and compare saving from modernization efforts
- Option to include carbon offset initiatives to carbon footprint calculation and carbon risk prediction



BUILDING THE FUTURE STANDARD INTERNATIONAL BUILDING PERFORMANCE & DATA INITIATIVE IBPDI

ADDRESSING TODAY'S CHALLENGES. AND TOMORROW'S.



Challenge: A fragmented market



Challenge: Ununified data



Challenge: Missing standards

"SPEAKING ONE DATA LANGUAGE. ADAPT JOINT INDUSTRY STANDARDS.
MAKE REAL ESTATE BUSINESSES TRUE MASTERMINDS OF THEIR ASSETS."



Solution: The initiative is a **collaboration hub** between all stakeholders, improving process efficiency and effectiveness.



Solution: A Common Data Model for Real Estate will enable to democratize and harmonize data to accelerate businesses



Solution: One common data language for the real estate industry will ensure seamless data exchange & accelerate the digitalization in the real estate industry.



FOUR STRONG, ENGAGED PARTNERS BUILD THE FOUNDATION.









BuildingMinds is a software company offering an integrated cloud platform, leveraging datadriven insights for advanced portfolio management.

www.buildingminds.com

RICS is a global organization with over 134,000 members and over 40 office locations all over the world.

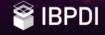
www.rics.org

Microsoft Corporation is an American multinational technology company with headquarters in Redmond, Washington.

www.microsoft.com

pom+ is a Swiss consulting company in the real estate industry.

www.pom.ch



THANK YOU

Contact us

JENS MUELLER

CEO

jens@buildingminds.com +49 151 44018 793

linkedin.com/in/jensmueller/

JENS HIRSCH

Domain Expert Sustainability jens.hirsch@buildingminds.com +49 151 4221 8019

https://www.linkedin.com/in/dr-jens-hirsch-612572139/

