



THE SMART BUILDING POTENTIAL

Building Sustainable Futures in the EU & KSA - Smart Buildings & Smart Technologies.

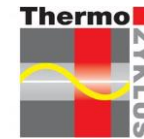
Riyadh, 6 March 2024

Gusts Kossovičs, Managing Director at eu.bac

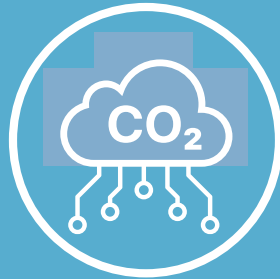
OUR MEMBERS



"A world where everyone thrives in smart, decarbonized, and efficient built environments"



REDUCE ENERGY AND CO₂
CONSUMPTION



IMPROVE
HEALTH AND COMFORT

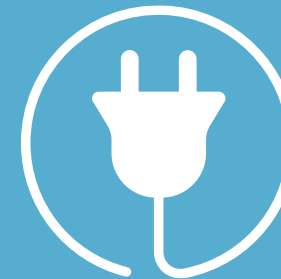


POTENTIAL
OF
DIGITALISATION

REDUCE
COSTS



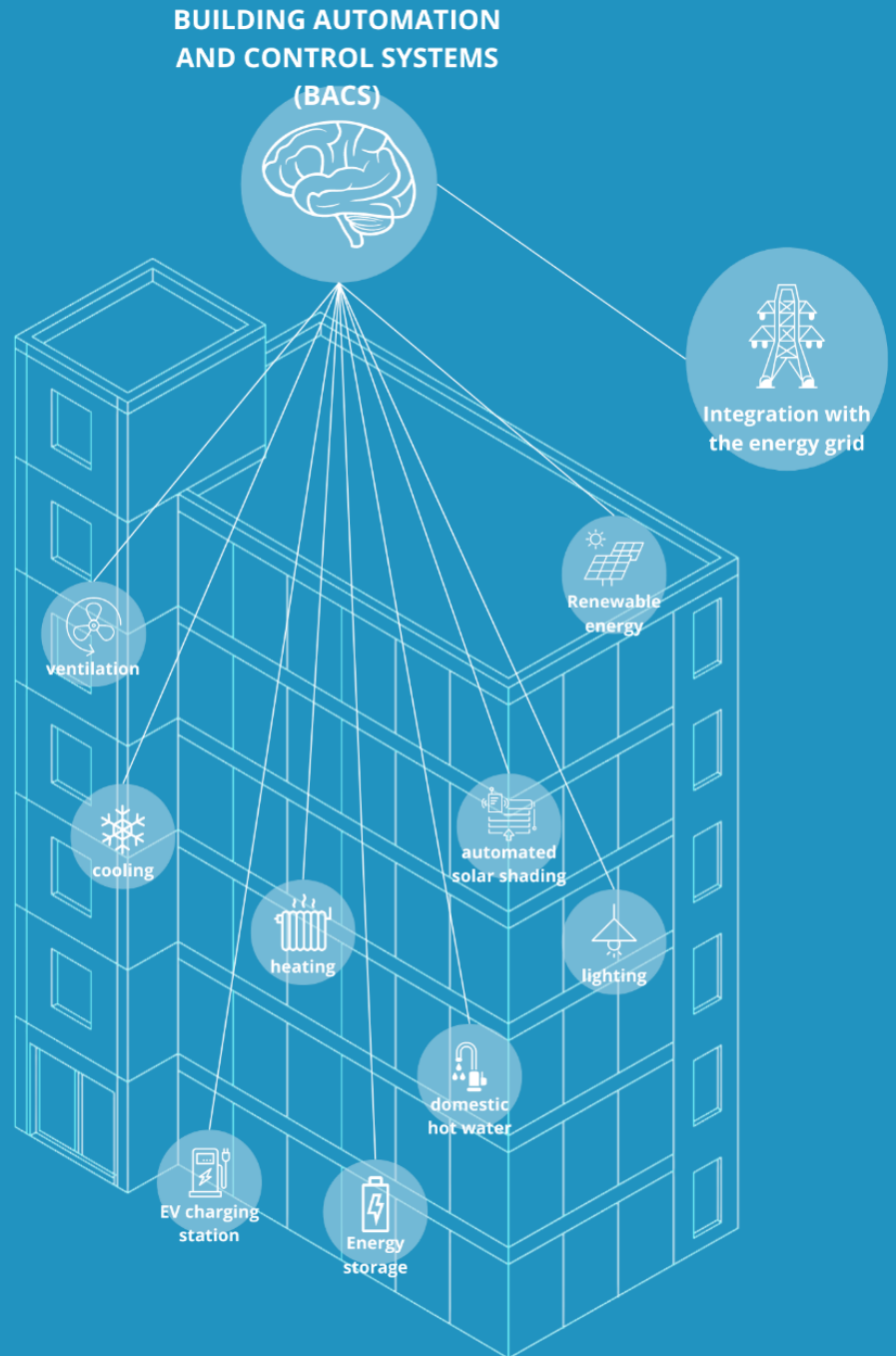
INCREASE
PROPERTY VALUE





WHAT ARE BACS?

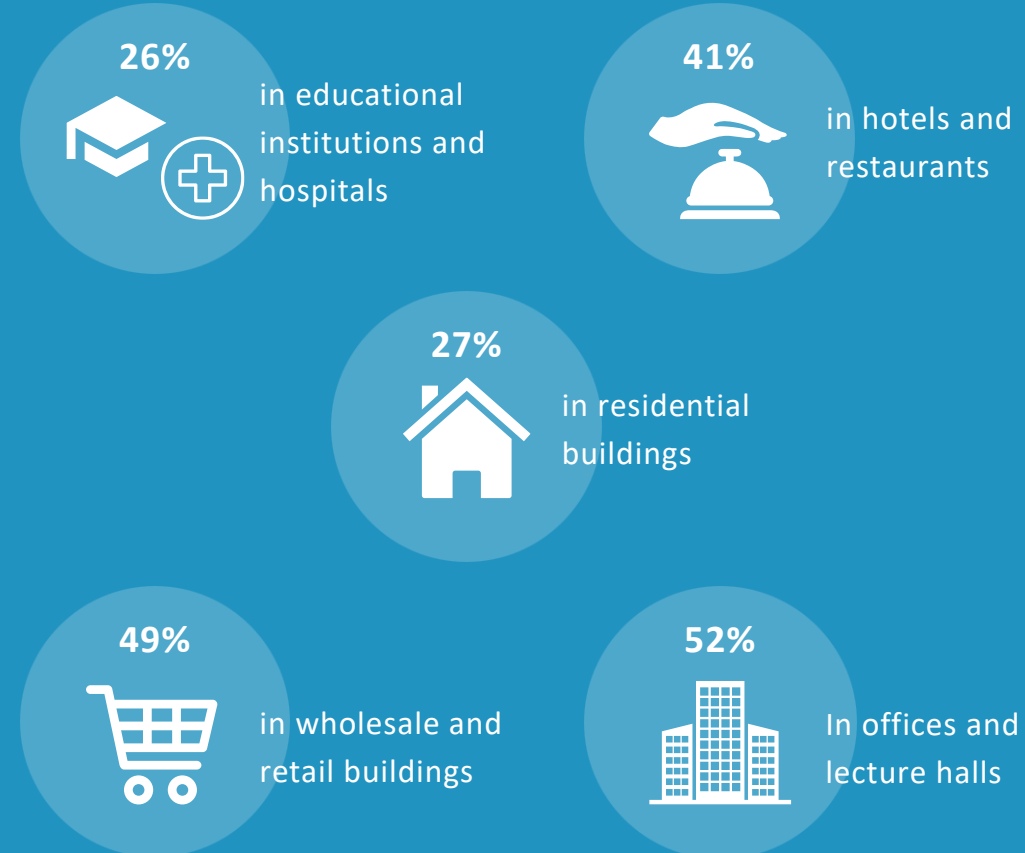
- **Smart brains for buildings:** building automation and control systems (BACS) monitor and adjust energy use for comfort and efficiency.
- **Scalable solutions:** From thermostats in homes to complex building management systems.
- **System symphony:** ensure different systems work together seamlessly, avoiding conflicts and malfunctions.
- **Future-proof energy:** enable buildings to respond to changing energy demand, predict consumption, and manage renewable energy sources.
- **Healthy & sustainable:** optimise temperature, air quality, and lighting for a healthy and sustainable environment.



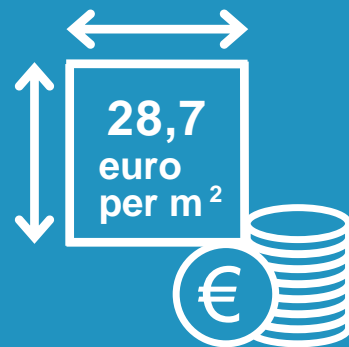
ENERGY SAVING POTENTIAL

75% of the EU building stock is energy inefficient, which amounts to losses of approximately € 270 billion annually. With a cost of €28.7 per square meter and a fast payback time of only 3 years, investing in BACS is a smart and cost-effective choice.¹

BACS can reduce energy consumption by up to:²



average
payback 3 years



1. Waide study, "The scope for energy and CO2 savings in the EU through the use of building automation technology"

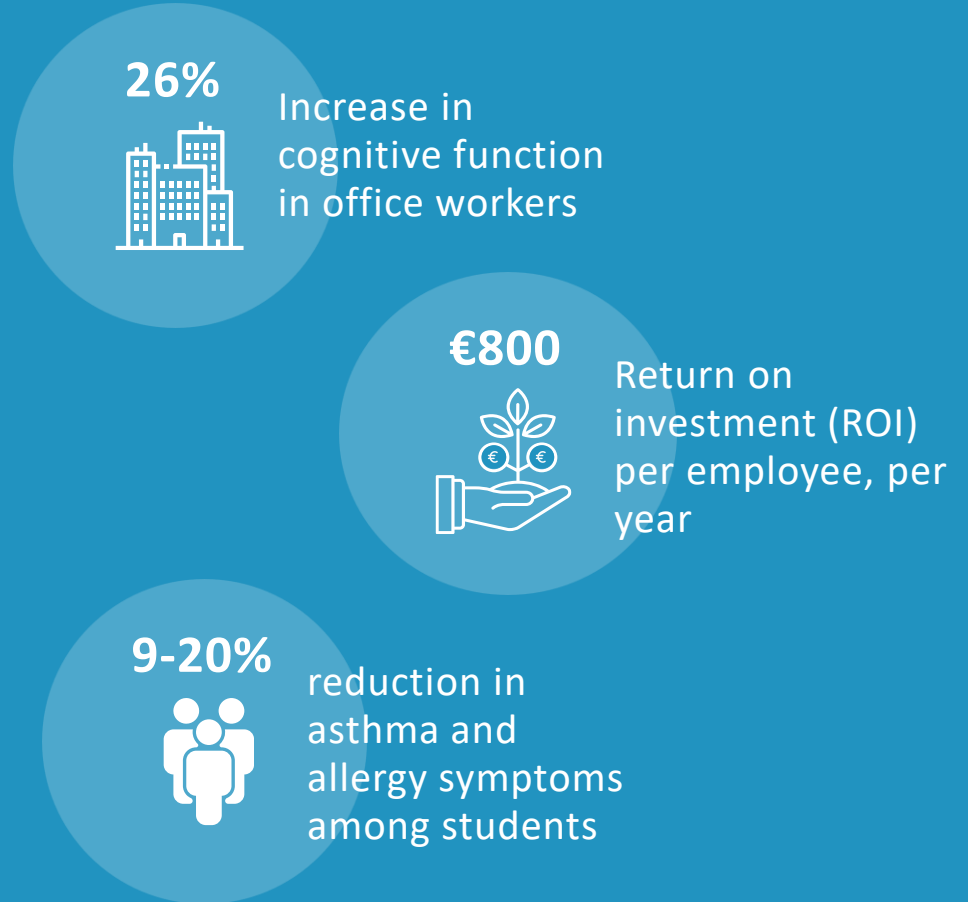
2. EN 15232, Impact of BACS and TBM on the energy performance of buildings

BENEFITS OF IMPROVED INDOOR ENVIRONMENTAL QUALITY

Alongside decarbonization, air quality is the most critical challenge facing the built environment:



- Poor Indoor Environment directly impacts the health, well-being and productivity of employees and other building occupants.
- BACS monitor and adjust ventilation, heating, and humidity to maintain healthy indoor air quality



1. World Green Building Council

2. Johnson Controls estimates based on well-documented costs from US-focused studies



SMART READINESS INDICATOR

- **Assess & Improve:** Measure your building's smart tech potential and identify areas for optimisation.
- **Data-Driven Decisions:** Invest strategically in impactful smart solutions.
- **Sustainable & Efficient:** Reduce environmental impact and optimise energy use.
- **Happy & Healthy Occupants:** Enhance comfort, convenience, and well-being in your building.
- **Future-proofed:** Stay prepared for evolving technology and regulations.
- **Increased Value:** A high SRI can boost your building's market appeal and value.

EFFECTIVE REGULATORY MEASURES



MANDATORY BUILDING AUTOMATION AND CONTROL SYSTEM (BACS) REQUIREMENTS, ESPECIALLY IN LARGE BUILDINGS

MANDATORY SMART READINESS INDICATOR

INDOOR ENVIRONMENTAL QUALITY (IEQ) MONITORING AND CONTROL

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THANK YOU!