



# Smart energy efficiency in Retail

More sustainable and efficient spaces  
thanks to our Energy Management System  
(EMS) solution



Retail operates in environments where every degree of temperature, every minute of lighting, or any refrigeration failure directly impacts the bottom line. On top of that, businesses face increasing regulatory requirements and ESG commitments.

## Energy demand in the retail sector

### Refrigeration

Cooling systems for food and beverages in supermarkets and retail stores.

### HVAC

Air conditioning is the largest energy consumer, especially during peak hours and in extreme temperatures.

### Lighting

Present across different areas and use cases including shop windows, sales areas, and back office environments.

Improving energy efficiency in these systems is key to reducing costs and environmental impact. That's why traditional energy management is no longer enough. **What's needed now is intelligence, automation and full control.**

No matter your store size, layout, location or opening hours, you can optimise your energy performance and sustainability goals.

# Goals

## Efficiency

↓ 20 - 30%

**energy savings** in lighting and HVAC through analytics and automation.

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↓ 20%

**fewer on-site maintenance tasks** thanks to actionable insights and remote servicing.

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**ROI**

based on CAPEX in **under 5 years**.

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↓ 20%

**in operational costs** through data-driven analysis.

## Sustainability

↓ 20%

**reduction in CO<sub>2</sub> emissions** due to lower energy consumption, and up to 40% when renewable energy sources are used.

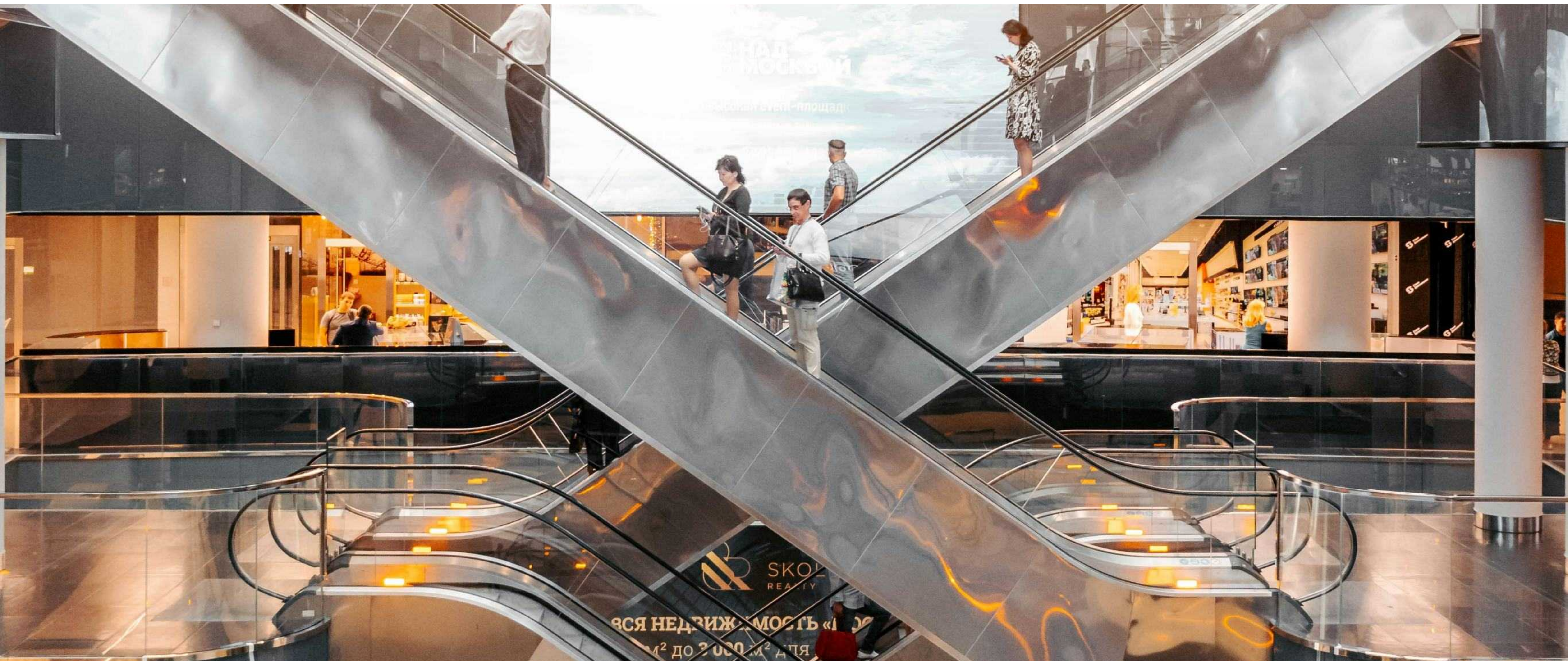
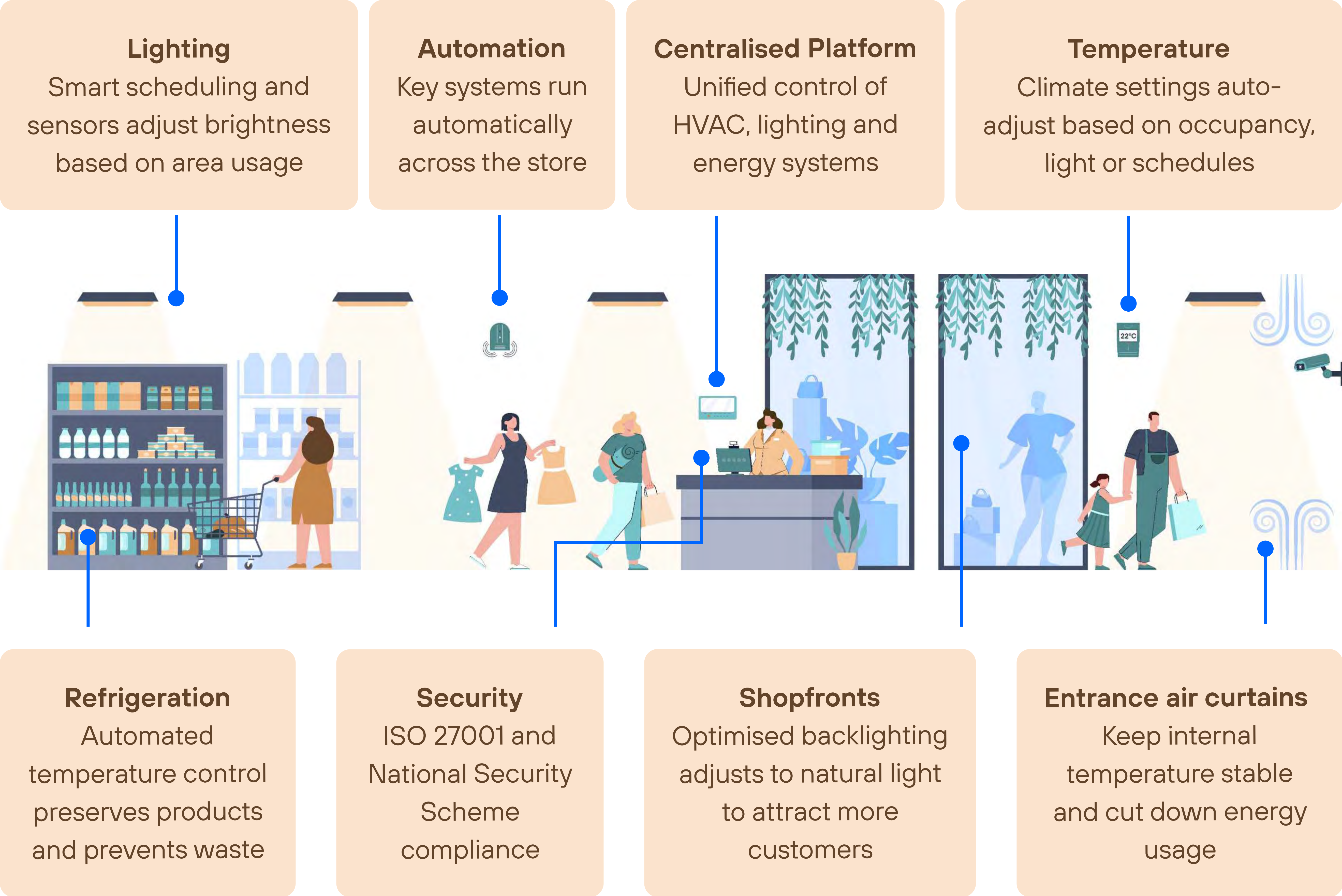
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**Maximum certification**

**under building standards** for both new builds and refurbishments: WELL, BREEAM, LEED...

# Our solution

This is how energy savings are achieved with our Energy Management System (EMS).



# Benefits

Telefónica Tech's EMS allows you to achieve unprecedented control over every aspect of energy consumption and maintenance operations.

The business impact is clear:

Significant reduction  
in energy costs.

Early prediction of  
failures and  
breakdowns.

Notable decrease in  
unexpected  
operational expenses.



## AI virtual assistant

Our virtual assistant Nerea supports your daily operations with more intelligence, speed and collaboration:

Ask for graphs, data  
or downloads as if  
talking to a person.

Change schedules  
and setpoints all  
at once.

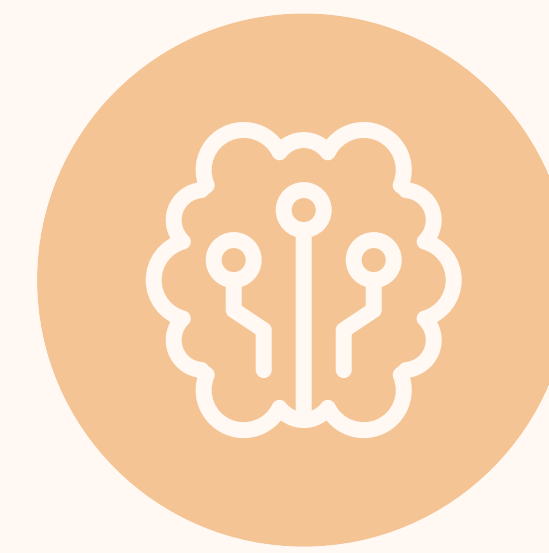
Automatically verify  
your energy bills.

# Advantages of Telefónica Tech's EMS



## Real-time centralised control

- Manage all your sites from a single platform.
- Apply efficiency measures quickly, easily and at scale.



## Smart automation

- Set alerts and automation rules.
- Auto-adjust setpoints via the events module.



## Monitor and analyse consumption

- View performance via dashboards, graphs and virtual metrics.



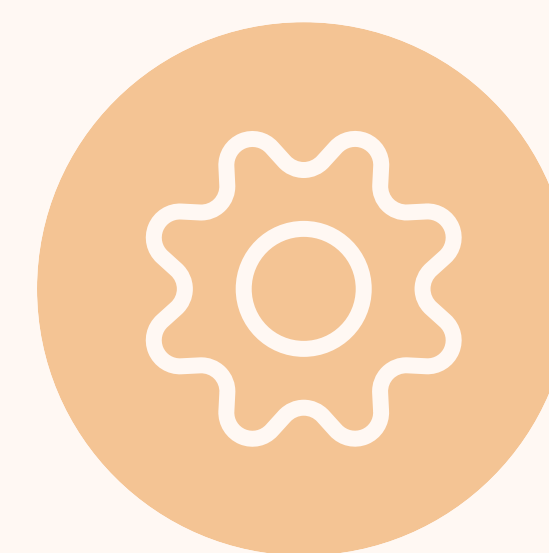
## Custom energy reporting

- Build your own reports or leave it to us.



## Data always available

- Export your full history or integrate via API with tools like Power BI.



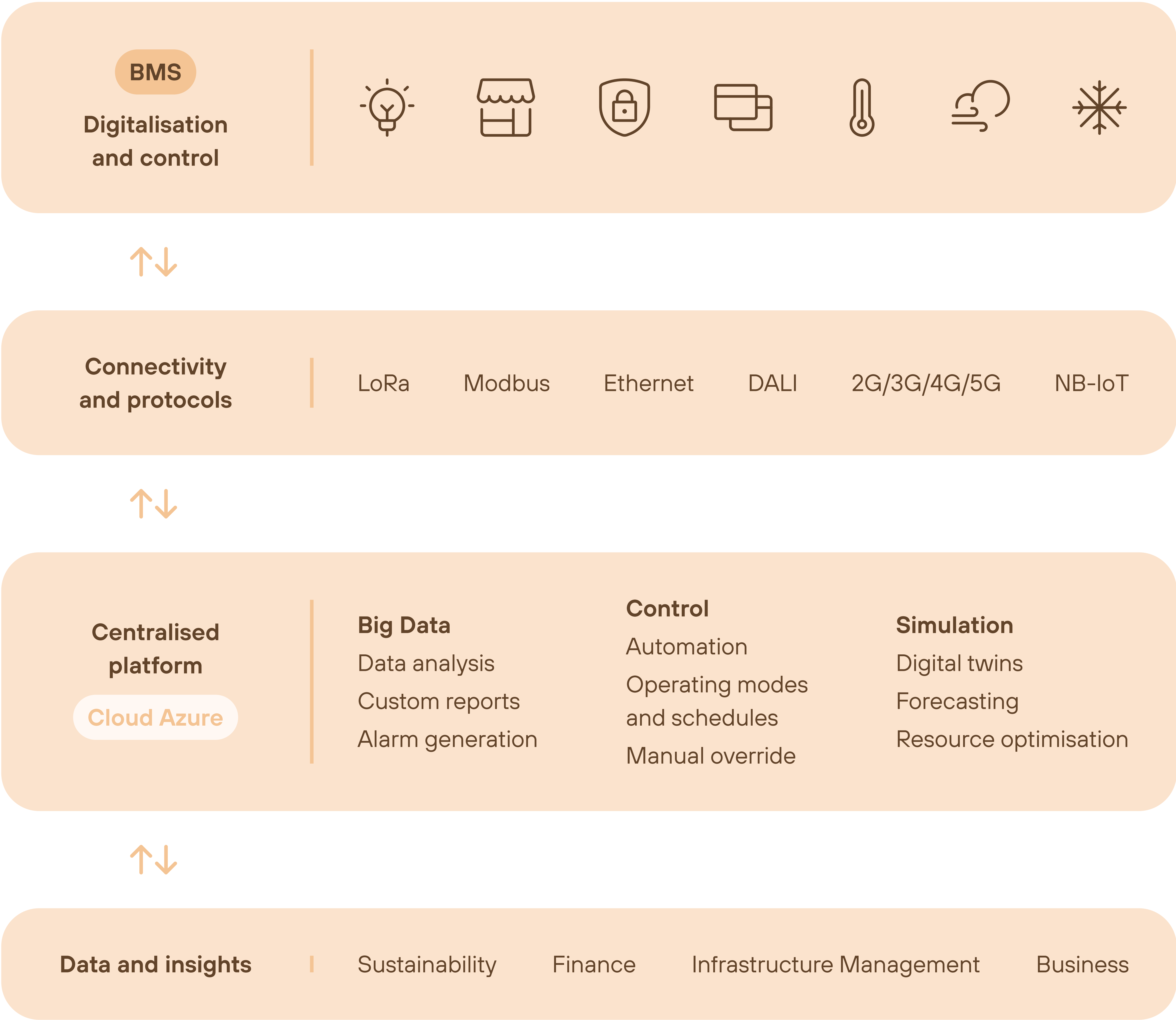
## Advanced management

- Design interactive maps.
- Manage user roles and permissions via the admin module.



# Smart building architecture

Our turnkey Energy Management System (EMS) is a centralised and interconnected network of hardware and software that monitors and controls your chosen systems in real time.





## Why choose us

- Digitalisation and sustainability on a single roadmap.
- You choose the scope, milestones and timelines.
- Interoperable tech: AI, proprietary API, Modbus TCP.
- End-to-end service: installation, data, automation and consultancy.
- Step-by-step proprietary methodology: analysis, design, deployment, training and integration.

- 360° value: efficiency, insights and action.
- One provider, fewer risks.
- Experts in software, hardware and data.
- One-stop shop with optimised costs.