

This presentation was live at:



Smart Buildings

SHOW

18-19 October 2023 • ExCel London



Helvar

BUILDINGS OF THE FUTURE

Presented by
ALAN JACKSON



THE FUTURE
IS
NOW

DO I REALLY SPEND

90%

OF MY LIFE
INDOORS?



POSITIVELY IMPACTING

- HEALTH
- SAFETY
- WELLBEING



WELL BUILDING STANDARD™ CONCEPTS



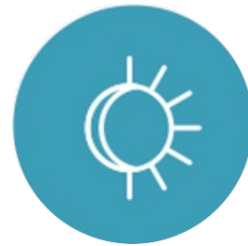
AIR



WATER



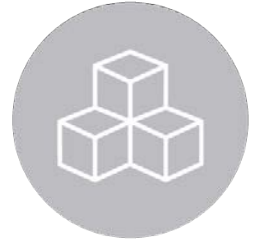
NOURISHMENT



LIGHT



MOVEMENT



INNOVATION



THERMAL
COMFORT



SOUND



MATERIALS



MIND



COMMUNITY



COULD
EVERY
BUILDING BE

- OPTIMISED
- INTELLIGENT
- FUTUREPROOF



SUSTAINABLE BUILDINGS



ENERGY SAVING

OPTIMISED
FOR ANY TASK
OR ACTIVITY

WHERE
TECHNOLOGY
UNLOCKS
POTENTIAL





EN12464-1

THE ORDER OF THINKING

OUTCOMES & BENEFITS

USER EXPERIENCE

SUSTAINABILITY

COST EFFICIENCY

FUTURE-PROOF



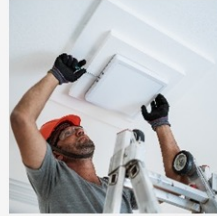
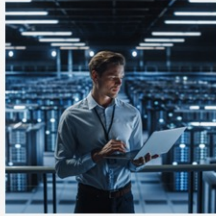
USER FUNCTIONALITIES

HEALTH & WELLBEING

PRODUCTIVITY

SAFETY & SECURITY

MAINTENANCE & OPERATIONS



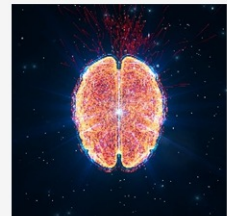
TECHNICAL FOUNDATIONS

LIFETIME OPTIMISATION

DIGITAL CONNECTIVITY

INTERACTIVE SYSTEMS

INSIGHTS & OPTIMISATION



CONSTANTLY MONITORING

- CONDITIONS
 - USAGE
- BEHAVIOURS





CONNECTED



WIRED
WIRELESS
HYBRID
CHOICE



WIRELESS

TECHNOLOGY
IS GROWING



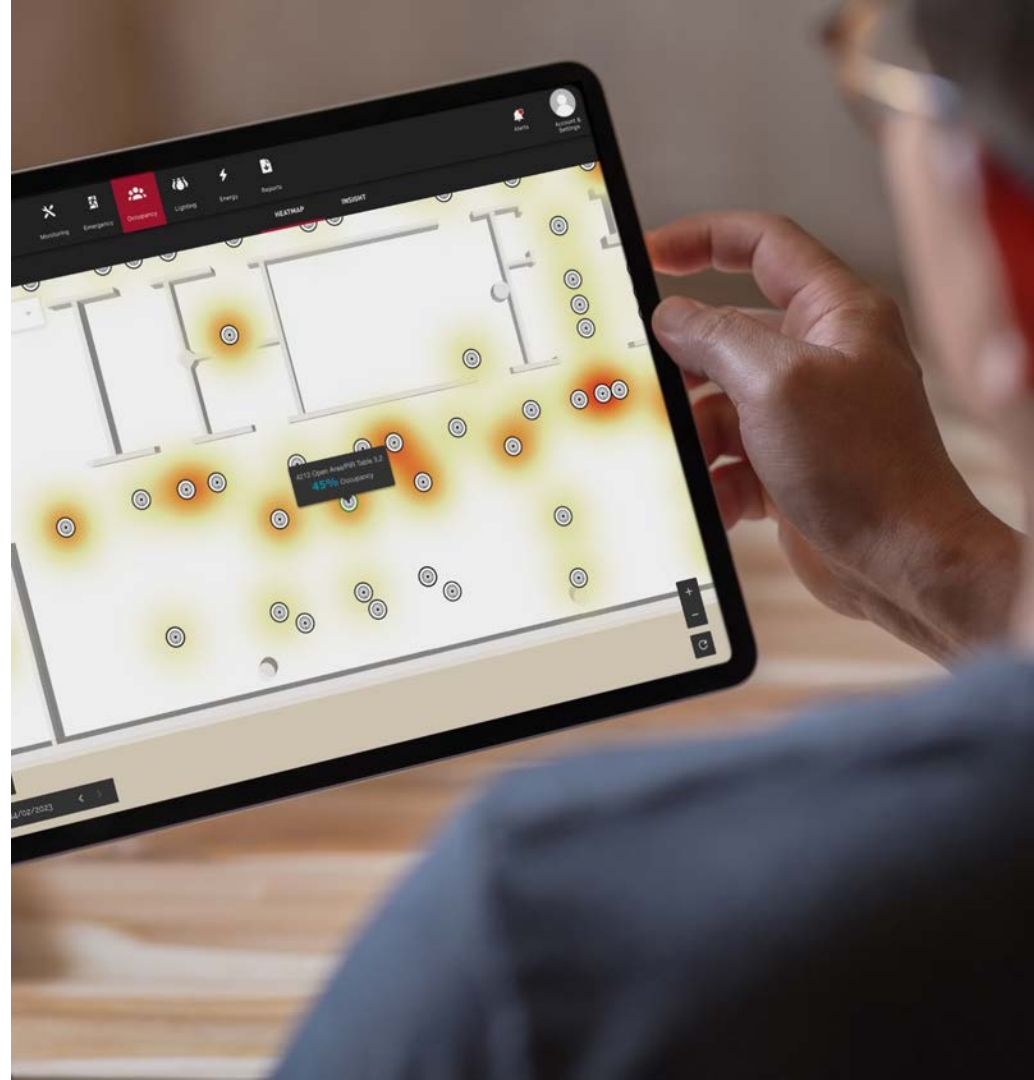


THE FUTURE

COULD BE WHERE
YOU ARE

RIGHT NOW

UNDERSTANDING OCCUPANCY





SENSING



ELEMENTS OF INTELLIGENT LIGHTING & SENSING



SENSING

COLLECTING DATA
TO UNDERSTAND
WHAT HAPPENS
IN A SPACE



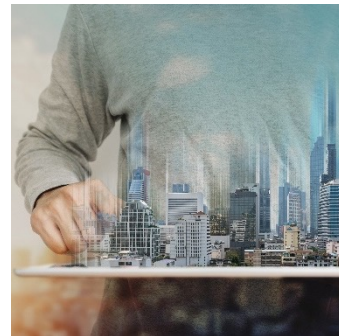
REFINING

ANALYSING
THIS DATA
TO CREATE
VALUE



INTERACTING

IMPROVE SPACE
CONDITIONS
COLLABORATING
WITH OTHER
BUILDING SYSTEMS



IMPACTING

ENERGY SAVING
OPTIMAL LIGHTING
USER EXPERIENCE
WELLBEING

LIGHTING CONTROL

LIGHT



OCCUPANCY



WELL BUILDING STANDARD™ CONCEPTS



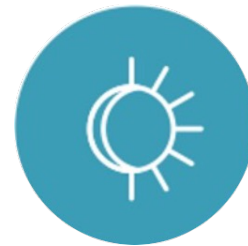
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FUTURE INNOVATION

Helvar

UNDERSTANDING THE INDOOR ENVIRONMENT



NATURAL ADDITION TO LIGHTING CONTROL

Typical Sensor Installation

- BMS HVAC
- Standalone
- Lighting Control + Environmental



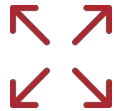
Highest **density** sensors
through LCS



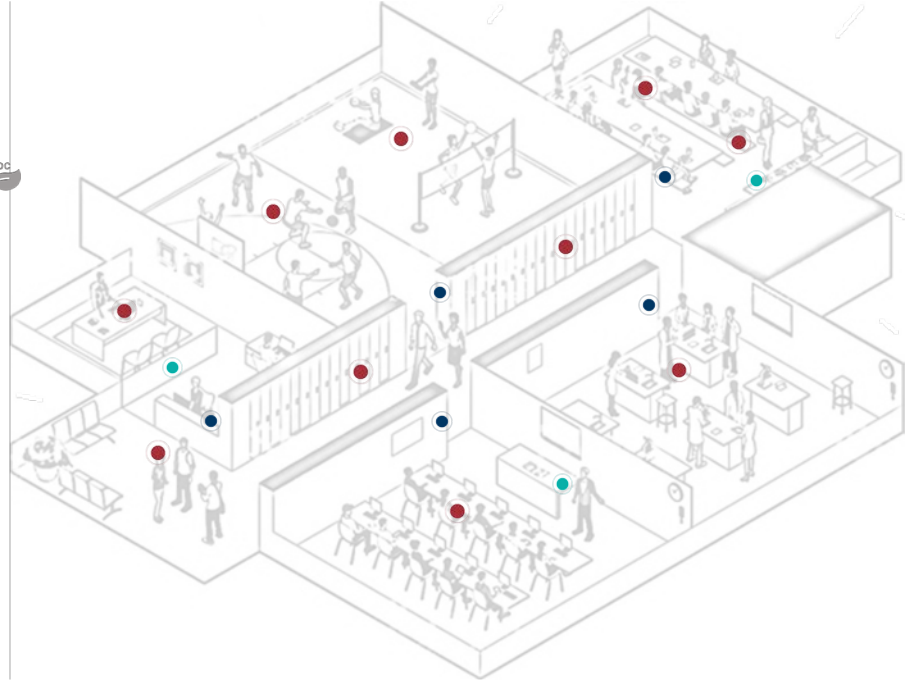
Reduced
installation



Better **Understanding** of
spaces



Networked, **Scalable**
Future-proof



WELL BUILDING STANDARD™ CONCEPTS



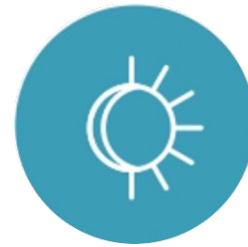
AIR



WATER



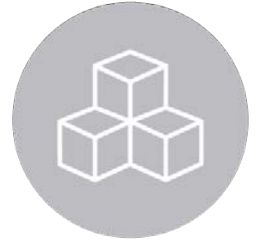
NOURISHMENT



LIGHT



MOVEMENT



INNOVATION



THERMAL
COMFORT



SOUND



MATERIALS



MIND



COMMUNITY

CONSUMPTION

EMISSIONS

COST





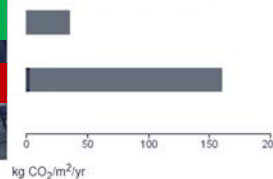
CLOSING THE
ENERGY
PERFORMANCE
GAP

INSIGHTS
DATA

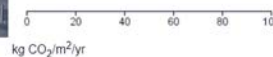
2 to 5 TIMES MORE ENERGY



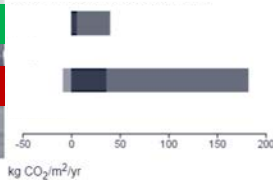
Project: 201 Bishopsgate



Project: Newcastle University Urban Sciences Building



Project: 450090: National Composites Centre



RIBA

BREEAM®



AECOM

XCO
ENERGY

UCL

FeildenCleggBradleyStudios

CarbonBuzz
an RIBA CIBSE platform

Design Vs Actual

THERE IS
VAST
AMOUNTS OF
DATA

OPERATING INSIGHTS



Maintenance



Energy

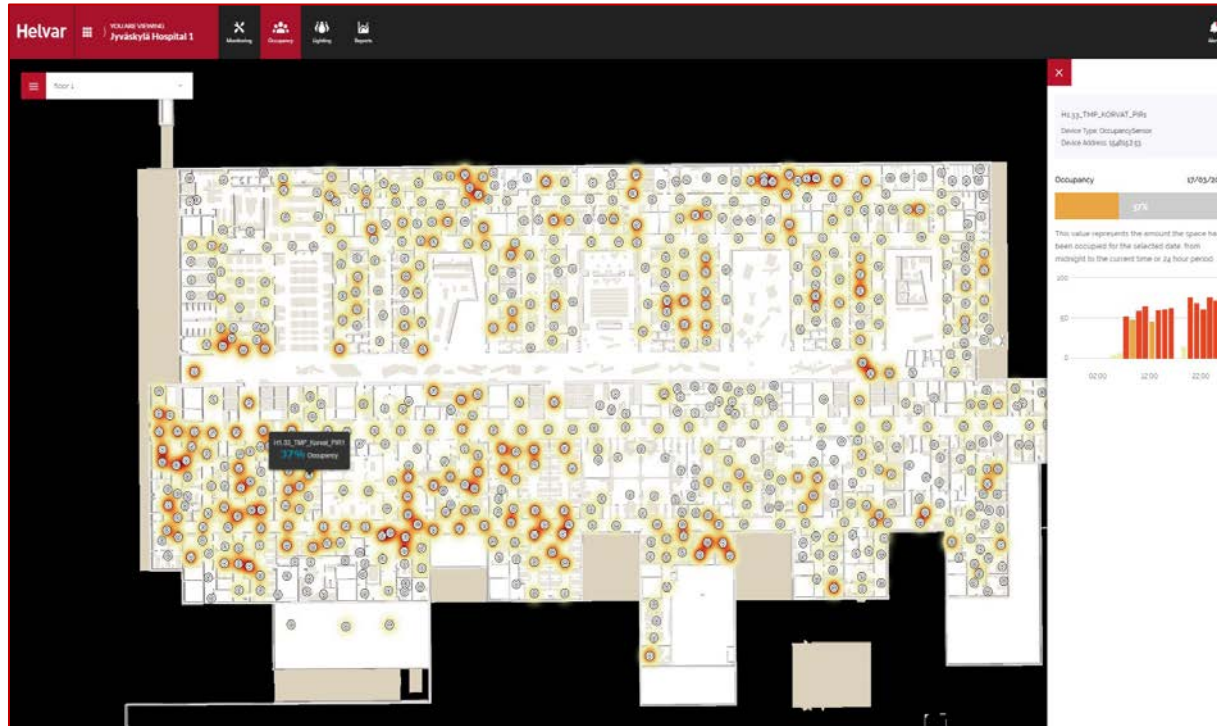
OCCUPANCY INSIGHTS



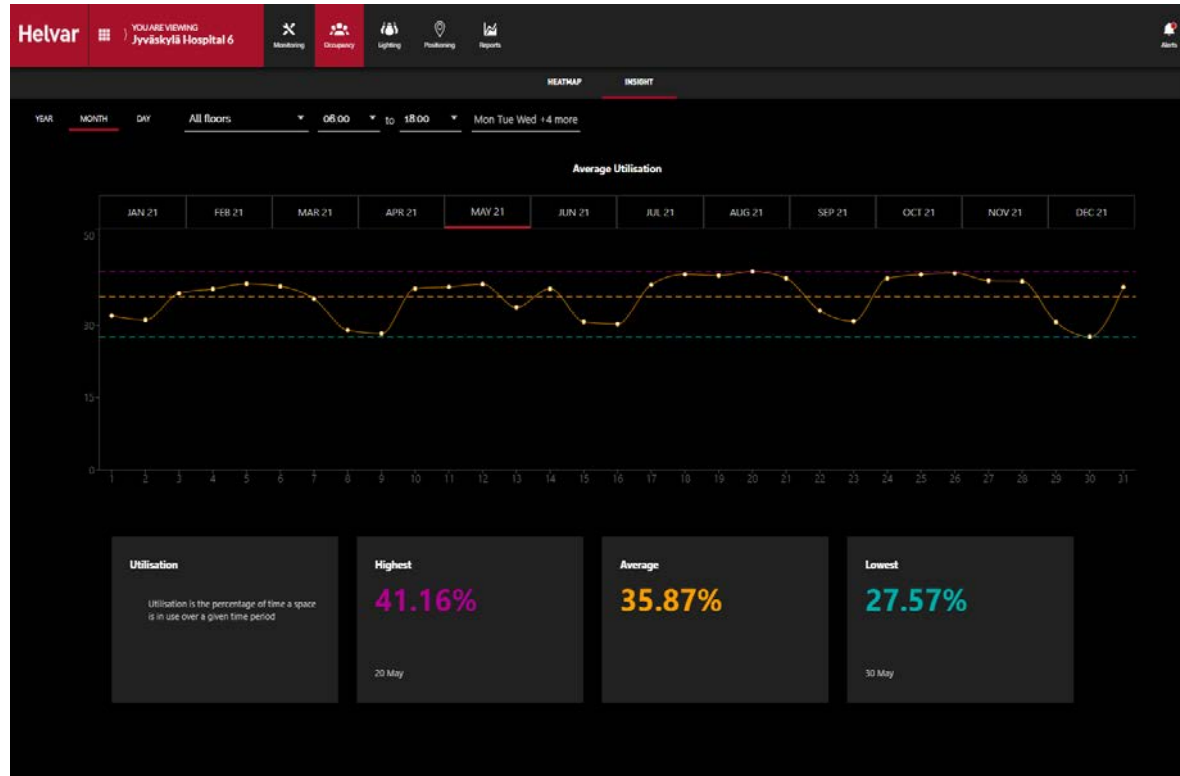
WELLBEING INSIGHTS



Optimise building utilisation with **Occupancy Insights**



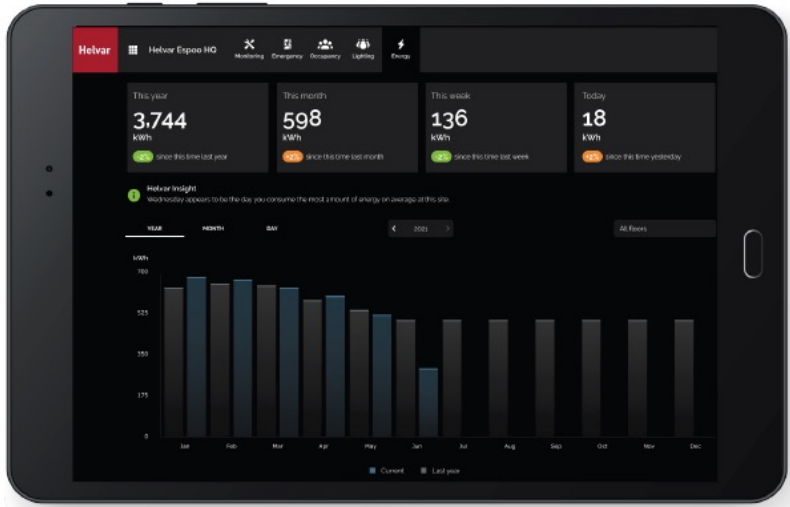
Optimise building utilisation with **Occupancy Insights**



LIGHTING + ENVIRONMENTAL INSIGHTS



DATA-DRIVEN DECISION MAKING



Monitoring and Reporting



Floorplan Visualisation



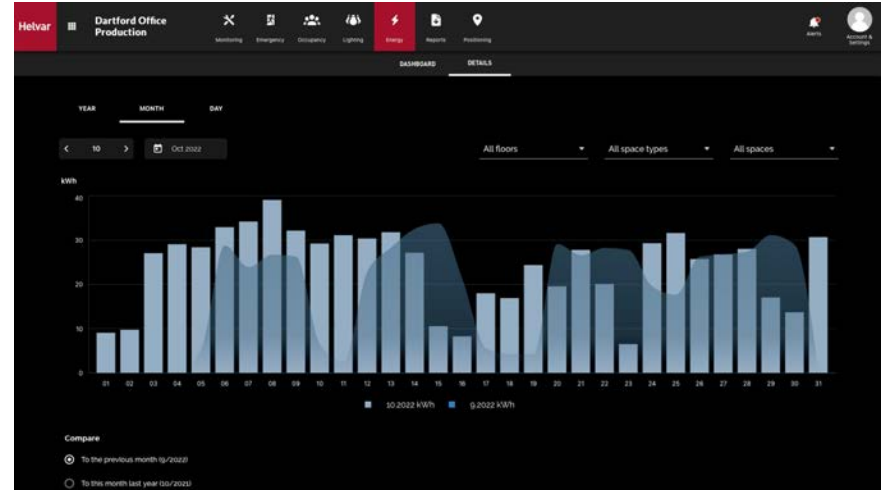
Insight



Alerts



Notifications



HEALTHIER, SMARTER BUILDINGS



USER EXPERIENCE



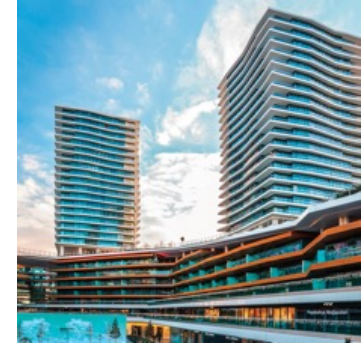
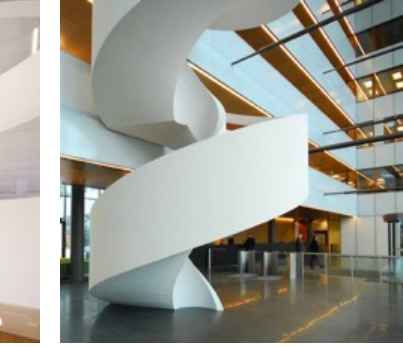
ENERGY EFFICIENCY



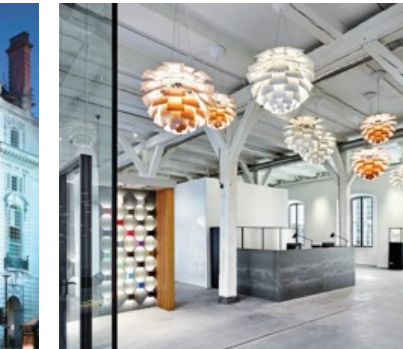
COST EFFICIENCY



FUTURE-PROOF



SO, WHAT IS A
BUILDING OF THE
FUTURE?





MAKING THE RIGHT
TECHNOLOGY
CHOICES
WILL SECURE A

BRIGHTER
FUTURE



BUILDINGS
OPTIMISED
FOR

ENERGY
SAVING

CARBON
NEUTRAL

ENERGY
POSITIVE



IN TIME
BUILDINGS
WILL ALL BE

PEOPLE
CENTRIC





BUILDINGS
OF THE
FUTURE
ARE ABOUT
YOU



Smart Buildings **SHOW**

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We look forward to seeing you in 2024