



#### TURNING EVERYDAY PLACES INTO BRIGHTER SPACES

Sustainability, Wellbeing and Insights for Smart Buildings

200+

**EMPLOYEES** 

AT HELVAR

85+

**PARTNERS** 

WORLDWIDE

300,000+

**PROJECTS** 

REFERENCED

85m+

**DALI POINTS**WORLDWIDE

**75+** 

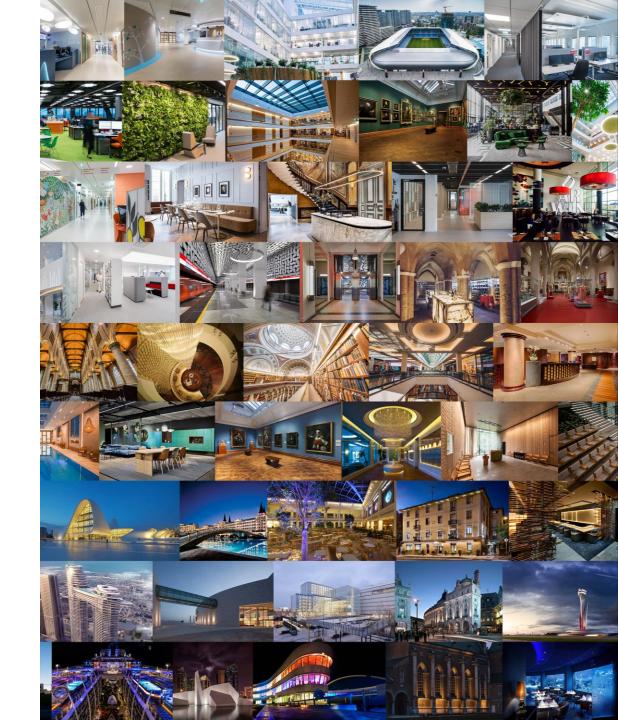
**COUNTRIES** 

**USING HELVAR** 

135+

**PATENTS** 

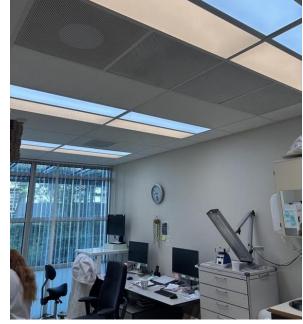
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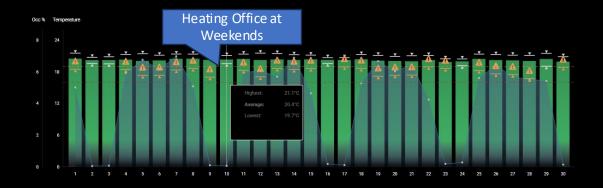


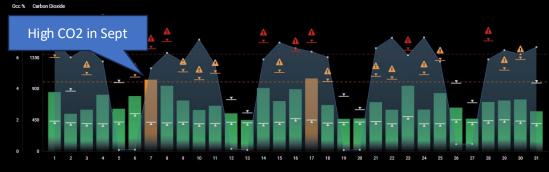
# Lighting Renovation with IEQ





## **AVL Hospital Outcomes**







#### **Further energy saving**

Heating empty spaces during the week and at weekends

**Improved IEQ** 

**CO2** Lowered since October





To achieve the Paris Agreement, the global buildings & construction sector must almost completely decarbonise by 2050

UNEP, 2021







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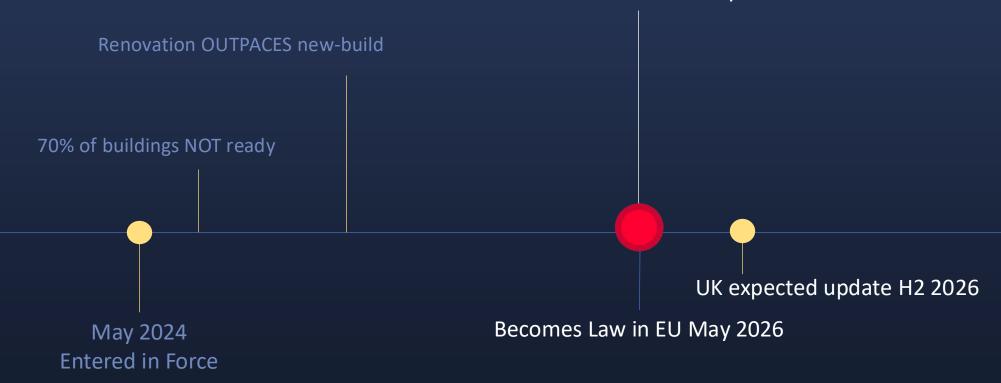
EN ISO 52120-1



EN ISO 52120-1

#### Must have

AUTOMATION if TBS output >290kW then lowers to >70kW by 2029
SMART Ready Indicator and EPCs
Indoor ENVIRONMENT Quality standards



EN ISO 52120-1



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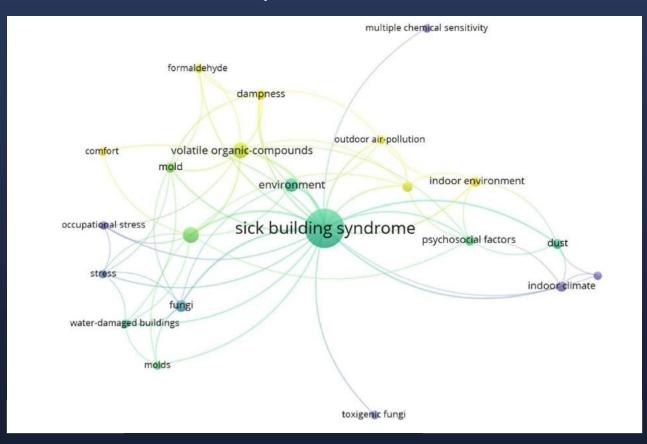
Entered in Force

EN ISO 52120-1



# Indoor Environment Quality - IEQ -

#### Poor IEQ - Causes and Effects



#### Where we can Impact

Light

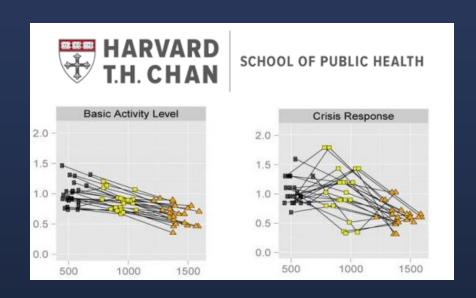
Climate

Air (IAQ)

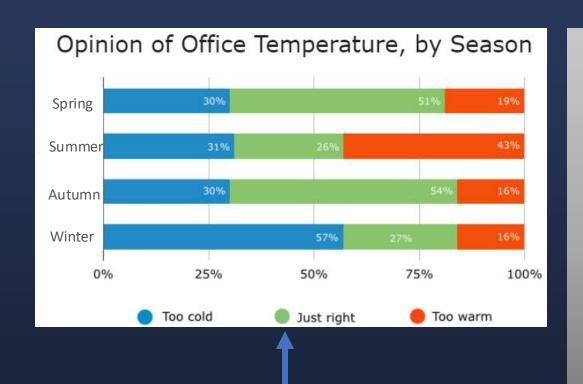
#### Air (IAQ)

For most of human evolution and modern history, CO2 levels in the air were in a fairly narrow and low range of 180 to 280ppm

- Joseph J. Room, climate experi



 $\uparrow$  100ppm CO2 =  $\downarrow$  ~5% Cognitive Score



Increased attendance & Productivity  $\uparrow$  1°C above 22°C =  $\downarrow$  3.6% Productivity

#### Climate

"Finding an office temperature to please everyone, all the time is basically impossible"

BBC Worklife article

But....typically Between 19-22°C

#### You now know...

- → 2026 legislation will drive change
- → Energy Efficiency and IEQ
- → Renovation wave has started

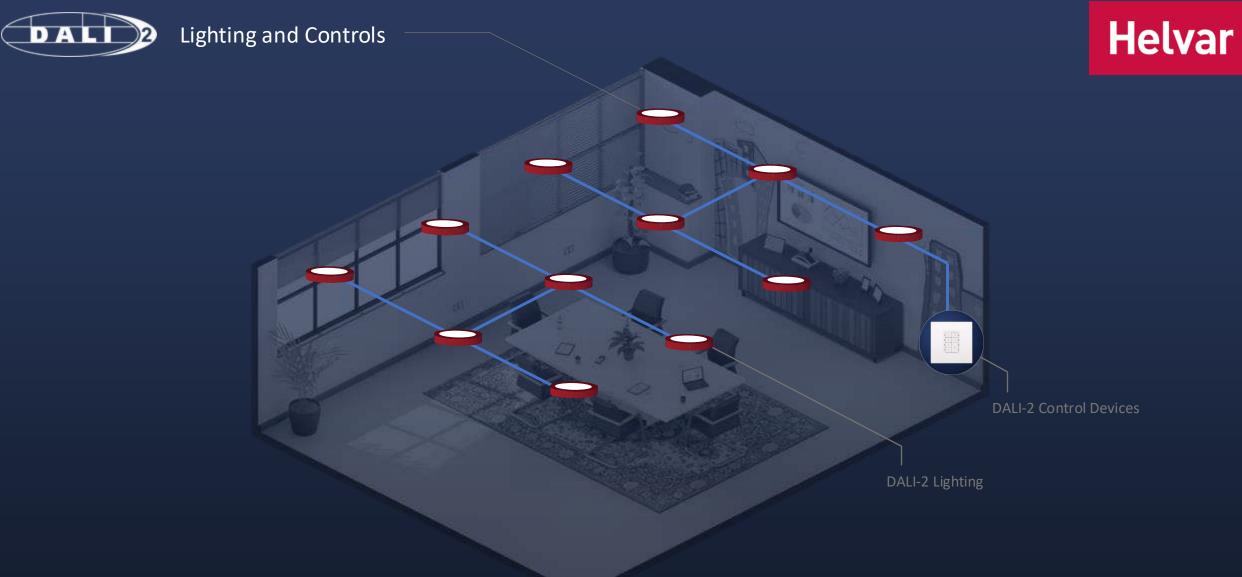
What's Helvar Doing? What should you do about it?



Design Projects to be
Compliance Ready
for Smarter, Greener Buildings



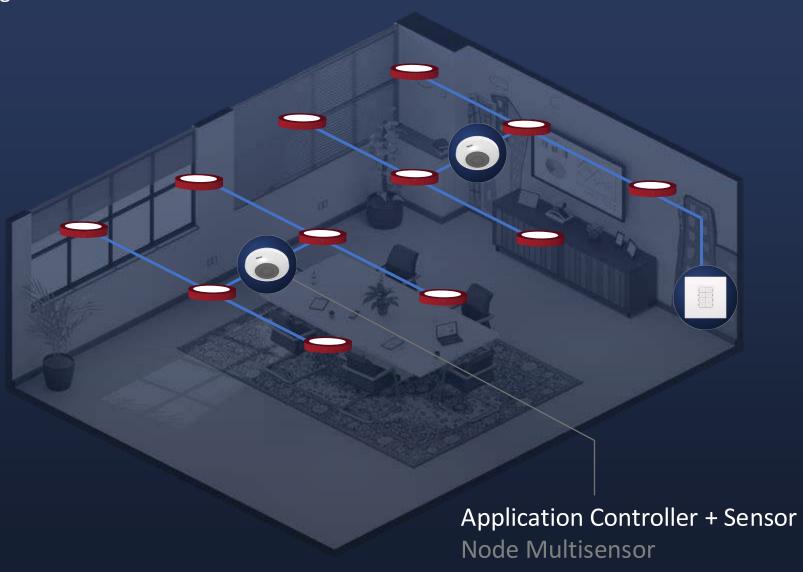






Lighting and Controls







Lighting and Controls



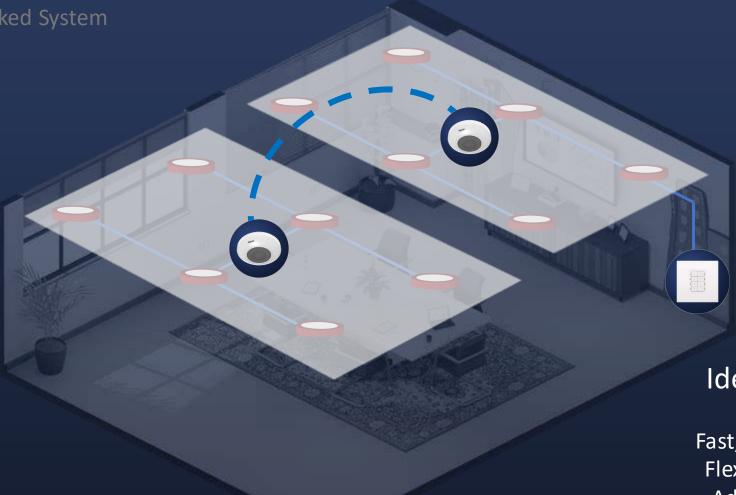












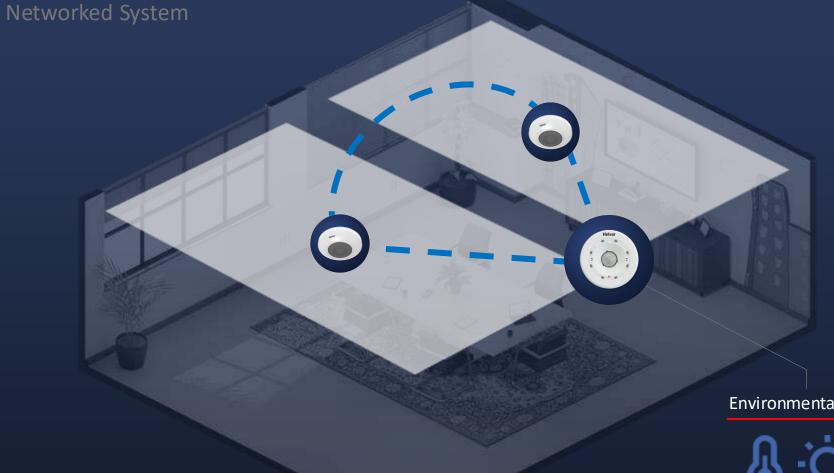
Ideal for Renovation

Fast, Easy Installation & Setup Flexible to scale and change Add Lighting Management









Environmental & Occupancy Sensor



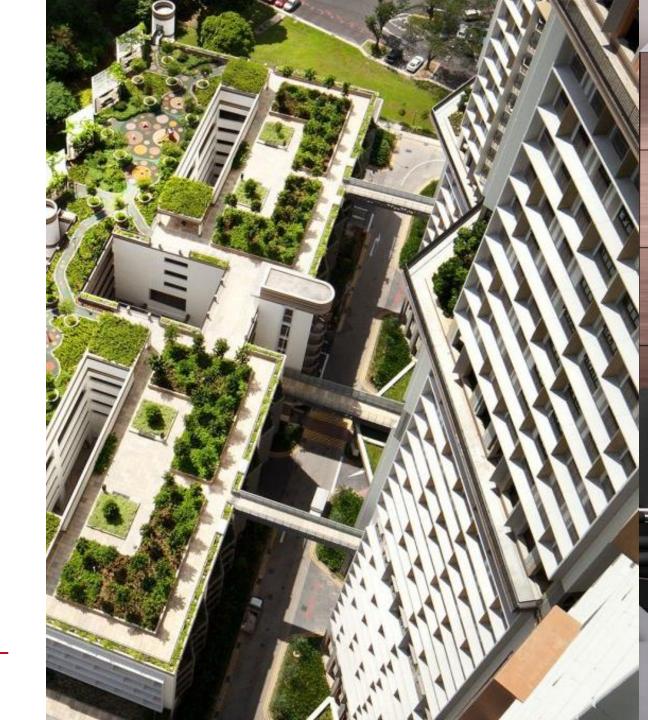






Meet legislation, enhance experience

Solution Scale Up





DALI-2 Lighting & Control Devices Environmental Sensor

Single Room

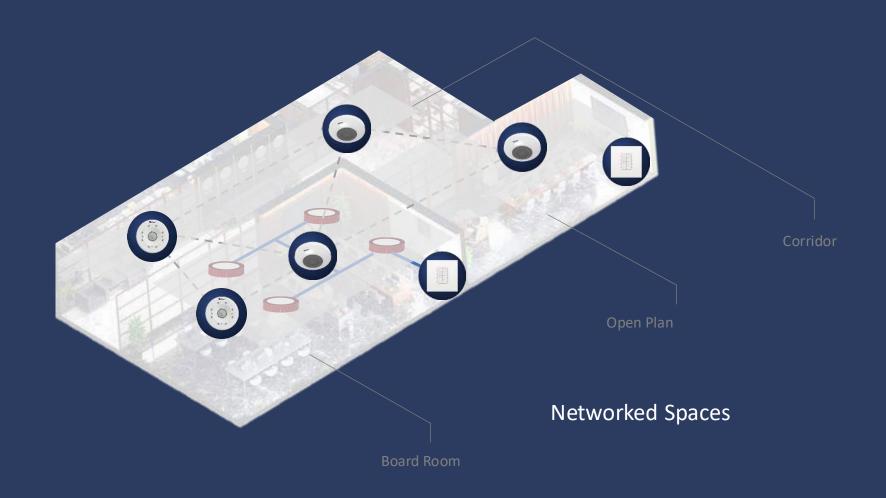


#### Lighting and Controls





Networked System





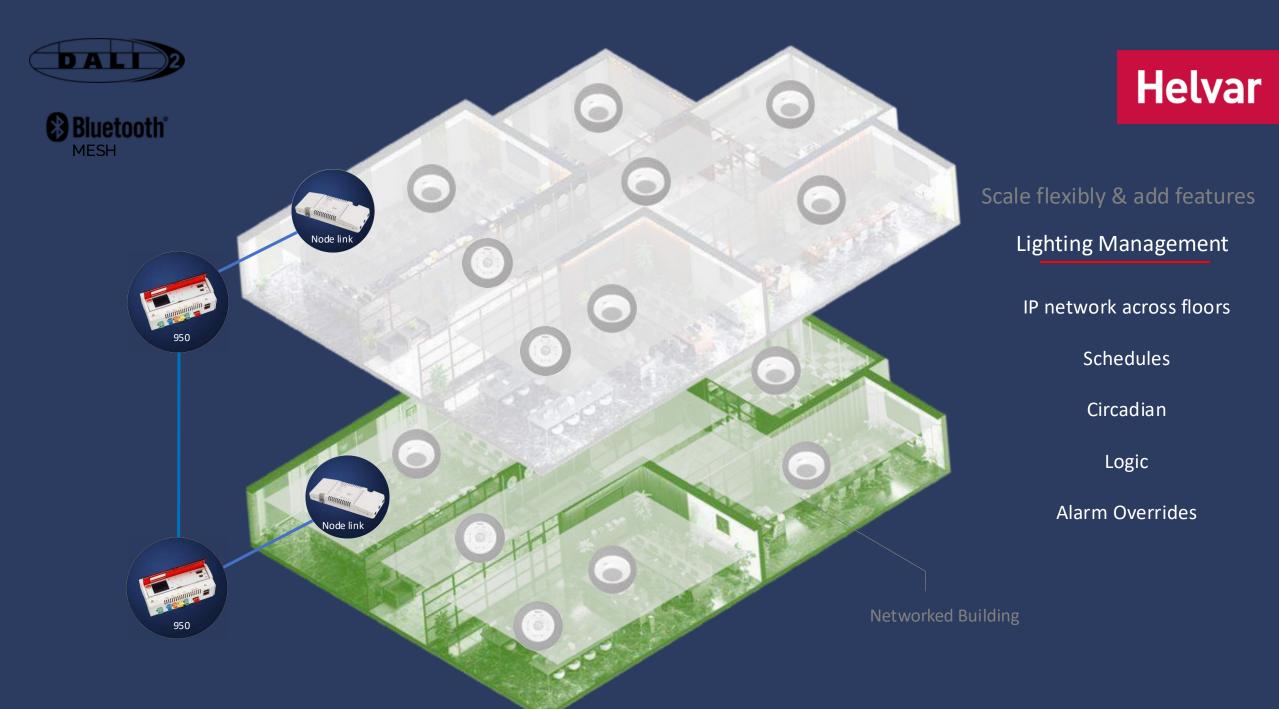




Scale flexibly & add features

Adapt to space changes

Add Features











Scale flexibly & add features

Lighting Management

**Smart Data and Connectivity** 

24/7 Monitoring & Control

Space Utilisation

**Energy Monitoring** 

**Emergency Test & Reports** 









Scale flexibly & add features

Lighting Management

Smart Data and Connectivity

Include IEQ

Air & Environment Quality

Monitoring

Next Level Energy Saving
Improved IEQ











Scale flexibly & add features

Lighting Management

**Smart Data and Connectivity** 

Include IEQ

Data Integration and BMS

**REST API** 

BACnet

