





# **Building 4 People: Impact of Better Buildings**

ECEEE annual policy seminar November 27 - Brussels





# **Building 4 People**: Key Parameters that influence Health, Wellbeing and Productivity



#### **Temperature**

reflecting the basic human need for protection from extremes of temperature



#### Light

pointing to the need for adequate workspace lighting and the effect of light on wellbeing



#### Αi

demonstrating the needs for clean, healthy air, free from harmful pollutants – many of which cannot be directly sensed, but can nevertheless cause serious health effects



#### Noise

showing that noise can be extremely disruptive, damage our hearing or cause distress, anxiety, hindered communication and reduced concentration



These four foundations impact the overarching outcome goal of:

Health, Wellbeing and Productivity

Download the White Paper: www.buildings2030.com/whitepaper







#### **Buildings in Context**

40%

90% 36%

35%

97%

energy consumed by buildings

Time is spent in buildings

of carbon emissions come from buildings

of buildings are over 50 years old

of buildings in the EU need an upgrade

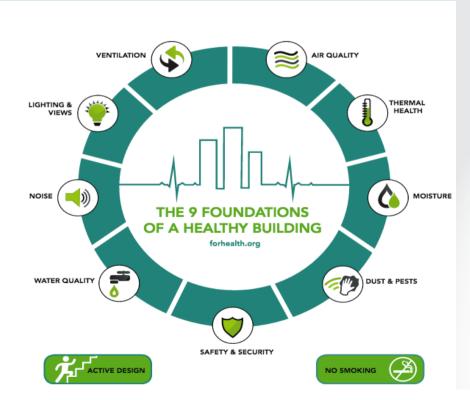
### Heathy Buildings in EU Policy

There is no clear champion within the European Commission and the issues are not well-addressed and resourced



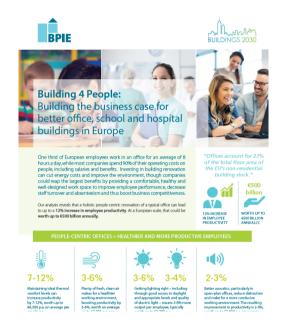
## Pr J. Allen (Harvard): "Green buildings bring nearly \$6 billion in combined health and climate benefits."

## THE 9 FOUNDATIONS OF A HEALTHY BUILDING





#### **Building 4 People: Discovering the Impact of Better Buildings**







#### Study Sponsored by:















## **Building 4 People:**

## Discovering the Impact of Better Buildings







Until recently, buildings have been designed to protect people from the cold or heat, it is time to consider the indoor climate and its significant impact on people's lives.

This research takes the first step at defining, measuring, quantifying and monetizing the impact of indoor air quality, thermal comfort, acoustics, and lighting on students, office workers and patients across Europe.

#### **PARAMETERS**



Indoor air quality



Temperature



Noise



**APPROACH** 

Identifying and linking beneficial impacts of Indoor Environmental Quality on people Quantifying health, educational and performance benefits Extrapolating quantified benefits to Europe

Putting a monetary value on the benefits

# **Building 4 People:**Discovering the Impact of Better Buildings



Align climate, energy, building, and health policy threads to ensure that indoor environmental quality is fully integrated into national long-term renovation strategies and other building-related policies, with specific targets and indicators to measure progress. Tools such as building renovation passports should be promoted and implemented to ensure that measures supporting health and well-being are integrated into renovation plans. A cross-departmental committee should be established to ensure that the energy and health agendas related to building policies are developed holistically.

Establish a "Healthy Buildings Observatory" to provide a sound evidence base and a good model on which to develop future policies. The observatory should gather, analyse and communicate data, information, studies and other relevant research so that the health, well-being and performance benefits from energy renovation of our buildings can be more widely recognised, at both EU and Member State level. In particular, it should fill the knowledge gaps identified above. Policy-makers should also ensure there are appropriate links to the work of

EU-OSHA, the European Agency for Safety and Health at Work.

Revise the cost optimality guidelines required by the EPBD such that the value of the benefits in health, well-being and performance count alongside energy cost savings when calculating minimum energy performance requirements.

**Provide clear and specific guidance to Member States** on how to address indoor environmental quality issues alongside improved energy performance within long-term renovation strategies. Exchange of best practices among EU countries, for example through Concerted Action, will be essential in this respect.

Make public funding for building renovation, e.g. from EU structural funds, conditional on achieving improved indoor environmental quality. Monitoring of such projects post-renovation will help build up experience and the knowledge base.

## Thank you!

## **CONTACT US**



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