



Intelligent buildings for wellbeing

# Sensitive Responsive Workplaces

---

Lenia Margariti

PhD student - Open Lab, Newcastle University



# Technology is shaping the workplace.

Technology changes the places and spaces that we work, and the ways we collaborate.

## Connected workers.

Distance matters less as work becomes more technology mediated.

## Remote (home) work.

Blending the office space with the domestic sphere.

## Environmental monitoring.

Office buildings that monitor environmental data to manage indoor climate.

## Adaptive space use.

Using IoT to efficiently manage work areas space use and enhance collaboration (hot desking).

Intelligent buildings for wellbeing

# Workplaces as data-rich ecosystems.



Urban Sciences Building, Newcastle Upon Tyne, UK

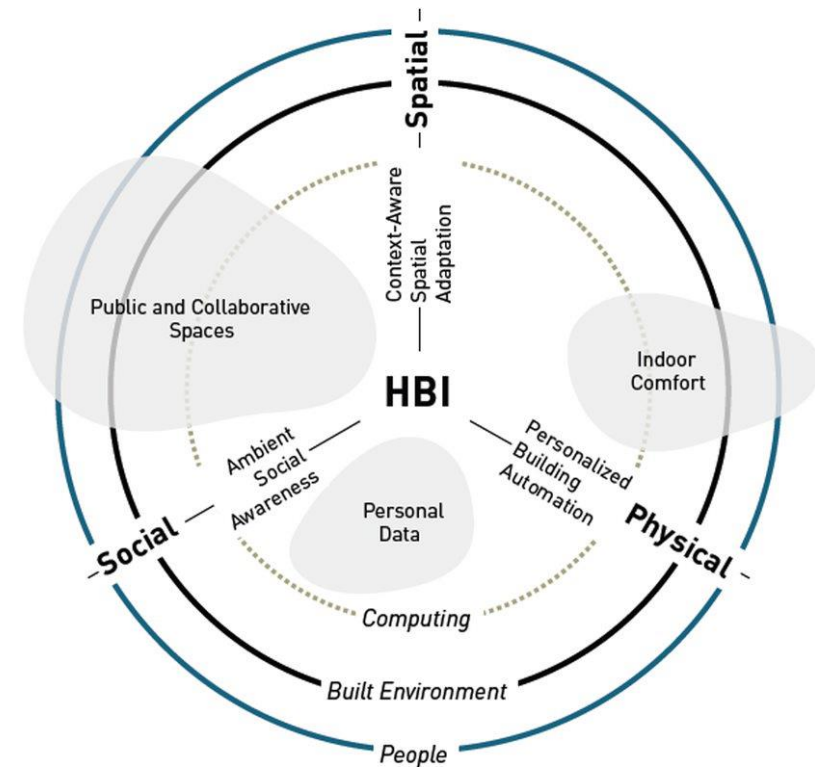
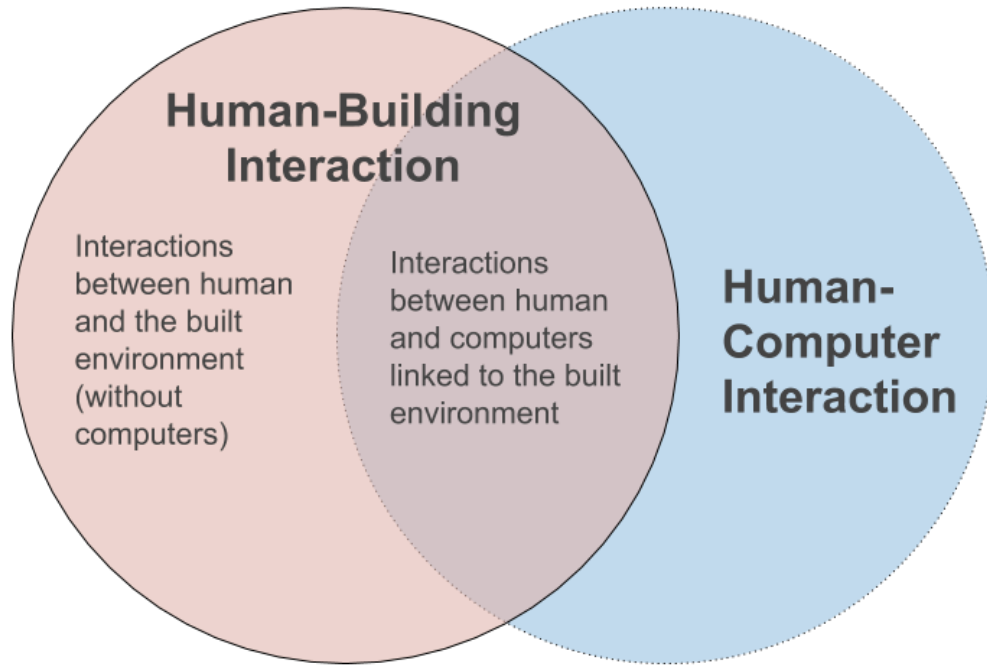
Intelligent buildings for wellbeing

# Workplaces as data-rich ecosystems.



The Edge, Amsterdam, NL

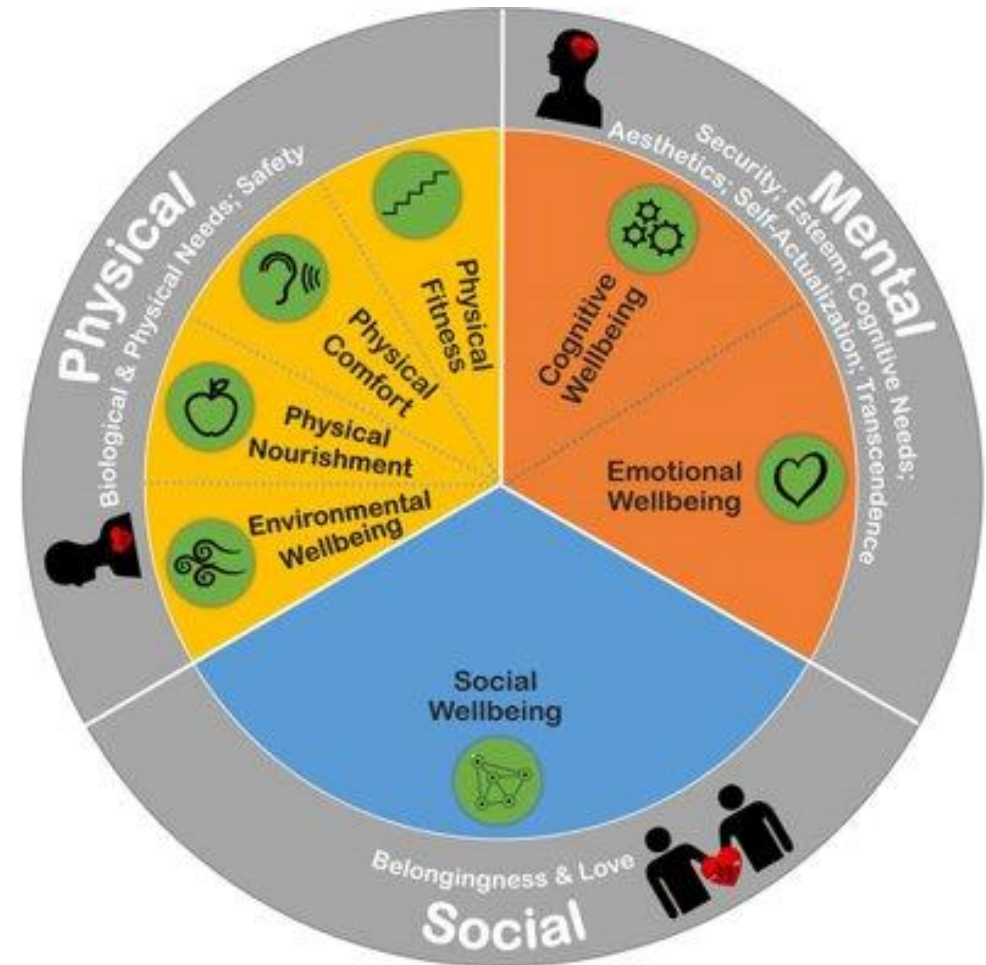
# Addressing **users** in intelligent buildings.



Users and their wellbeing needs remain under-addressed in the context of intelligent buildings. Human Building Interaction (HBI) research agenda seeks to address these gaps.

# Addressing wellbeing in the workplaces.

A model for assessing and evaluating wellbeing in the buildings for work.



PROWELL

# Workplace **wellbeing** design futures.

## Connected / Disconnected

Adaptive spaces to accommodate work – life transitions in hybrid and remote work;

Socially connected workplaces;

Privacy – friendly workplaces.

## Passive & Eco

Bio-design; passive & slow adaptations for climate control based on environmental data;

Workplaces that enhance climate awareness (eco-feedback);

Enhancing the physical and the tangible in the workplace.

## Aware & Happy

Workplaces that enhance self-awareness and social awareness through data interactions;

Surfacing data for wellbeing; engage the occupants to interact with the data.

# Designing **data-ecosystems** for a hybrid workplace wellbeing.

## Physical comfort.

Enhancing comfort and physical activity to any work-place.

## Environmentally aware office.

Environmental monitoring and calm eco-feedback to surface latent aspects.

## Socially connected workplaces

Enhancing social and emotional awareness in remote through ambient interactions.

## On / Off workplace.

Adapting to wellbeing in transition between online and offline work, and between work and domestic life.



---

# Thank you

Lenia Margariti

PhD student - Open Lab, Newcastle University

