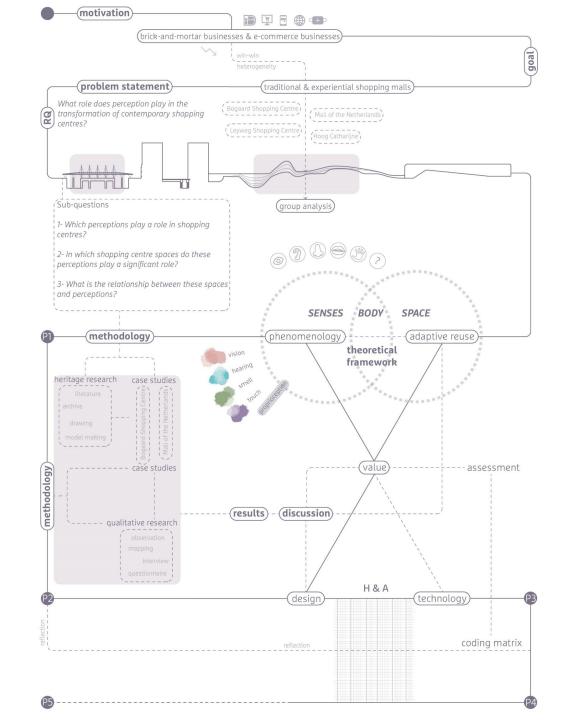


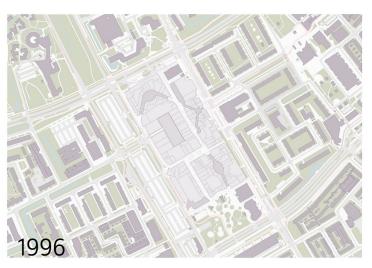
# Research



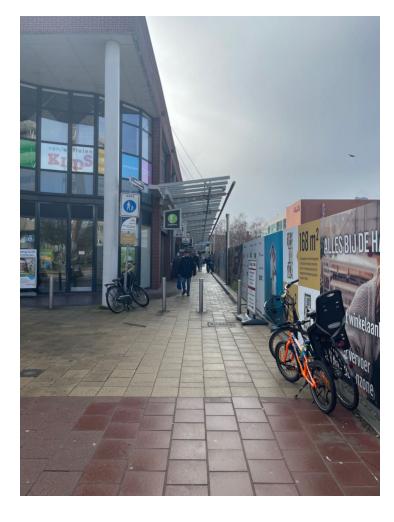
# Introduction







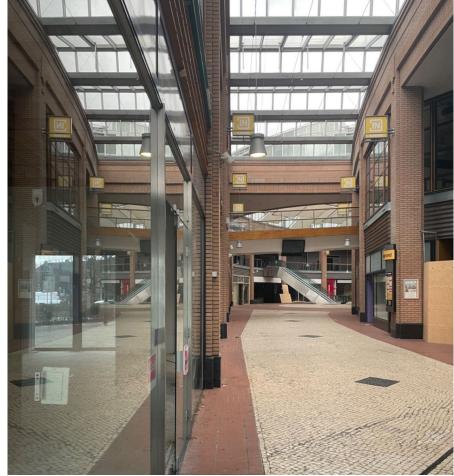
# Introduction





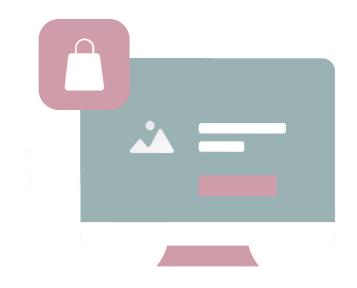
# Introduction



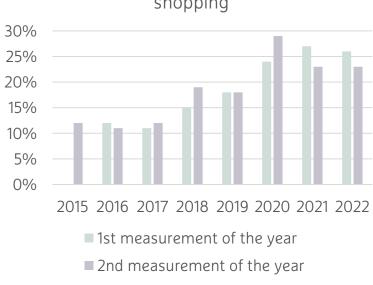


### **Problem Statement**

• E-commerce business



Penetration rate consumers online shopping



### • Brick-and-mortar business



### **Problem Statement**

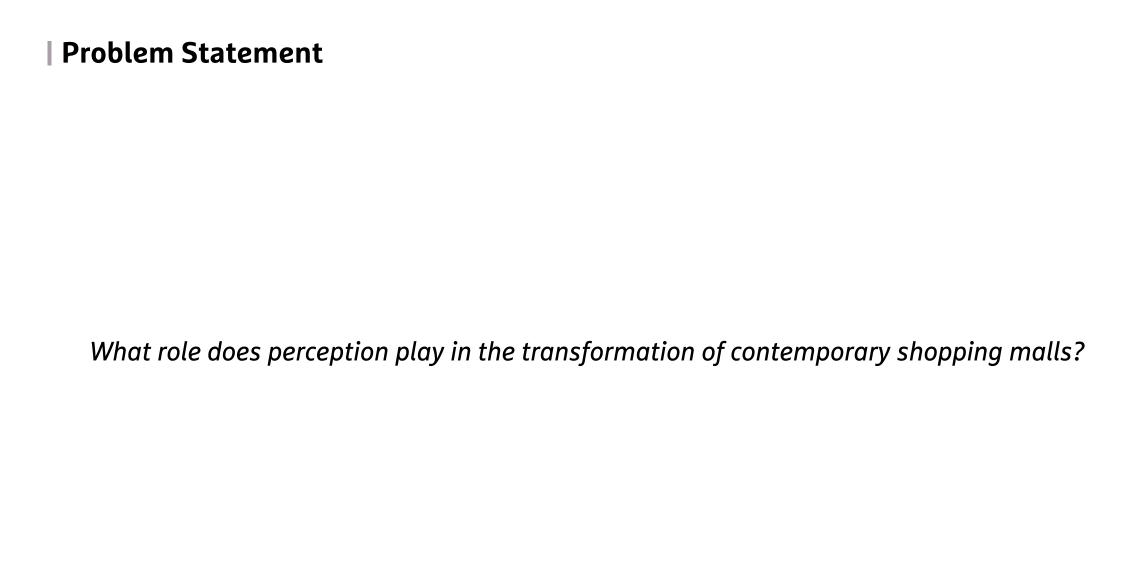












### Theoretical Framework

Maurice Merleau-Ponty

The acquisition of perception and experience takes place through the movement of the body through space and the environment.

PHENOMENOLOGY OF PERCEPTION

- Juhani Pallasmaa
- Eye

- Tongue

- Ear

- Skeleton

- Nose

- Muscle

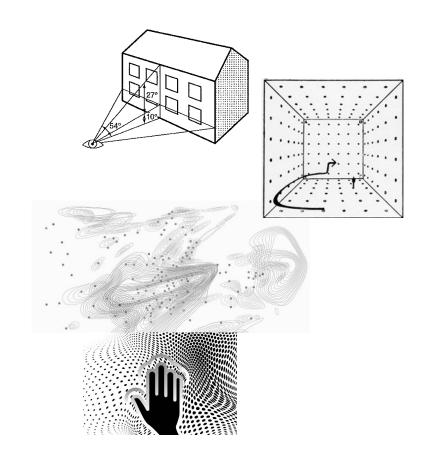
- Skin
- QUESTIONS OF PERCEPTION
  PHENOMENOLOGY OF ARCHITECTURE

- Jan Gehl
- Senses
- Communication
- Dimensions



### Theoretical Framework

- **Vision:** is the sense that humans rely on most. Sometimes it can cloud other perceptions.
- **Hearing:** can pick up sound in space after reflection, absorption, etc.
- Smell: can influence people's moods.
- **Touch:** can help us to identify materials.
- Proprioception: is your body's ability to sense movement, action, and location.





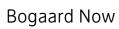
Bogaard Shopping Centre

Mall of the Netherlands





2016 Leidsenhage Shopping mall

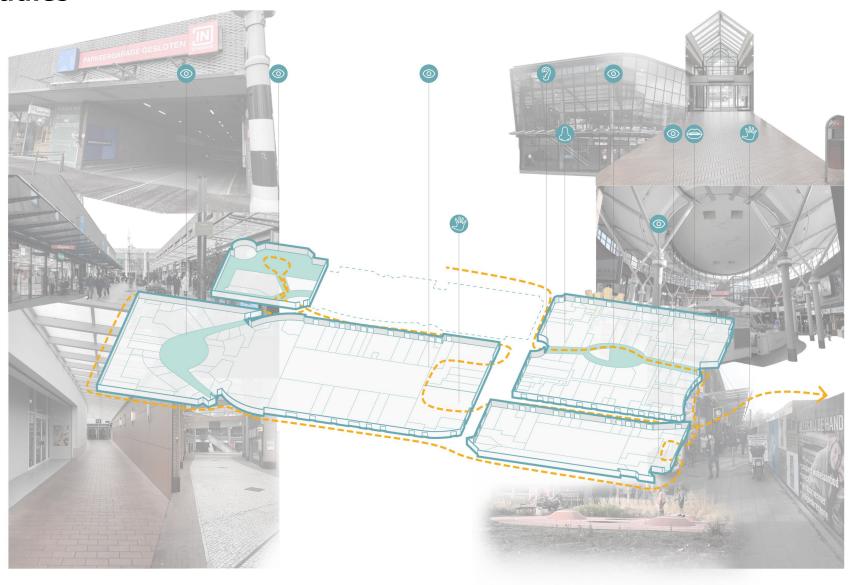


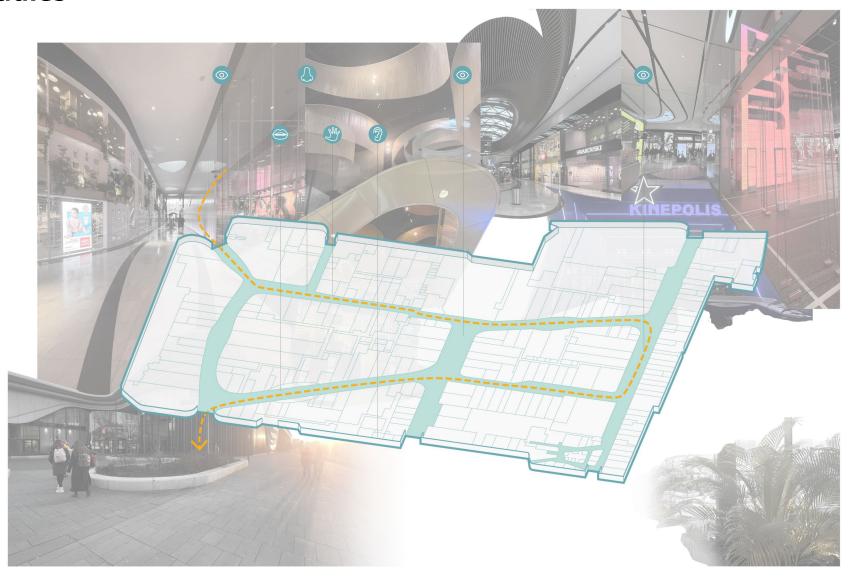


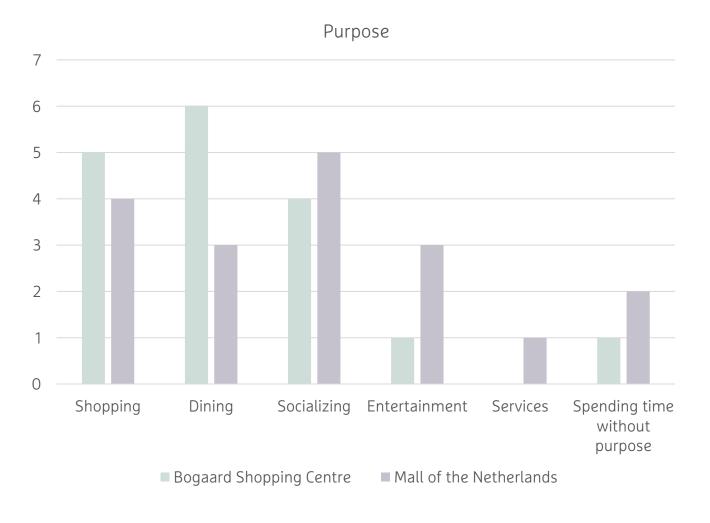


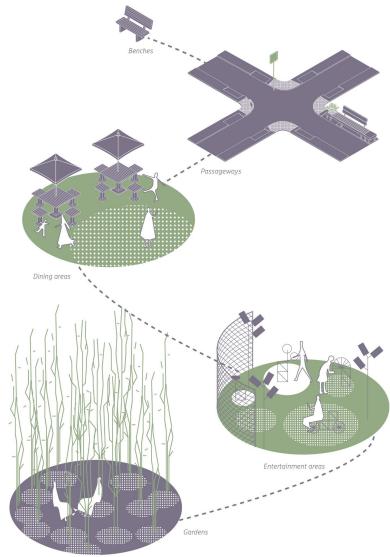






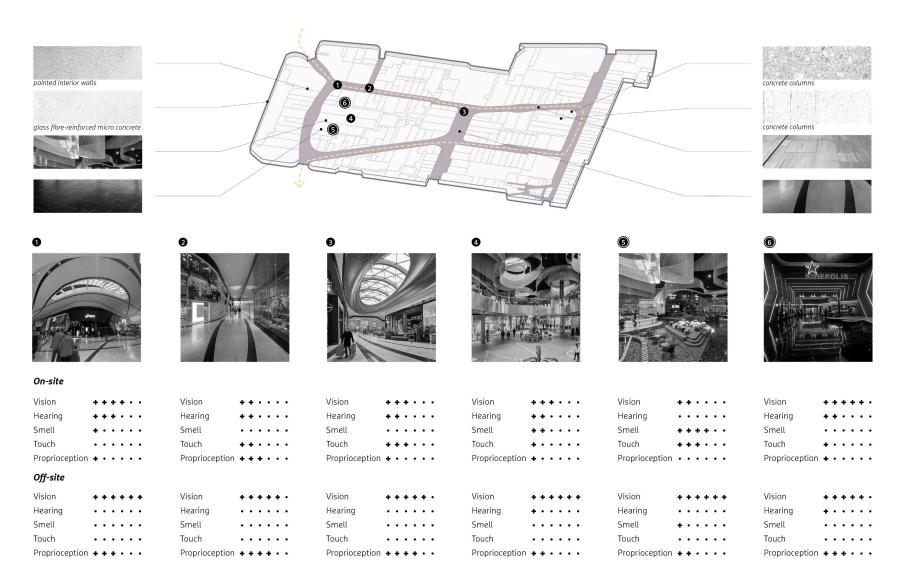






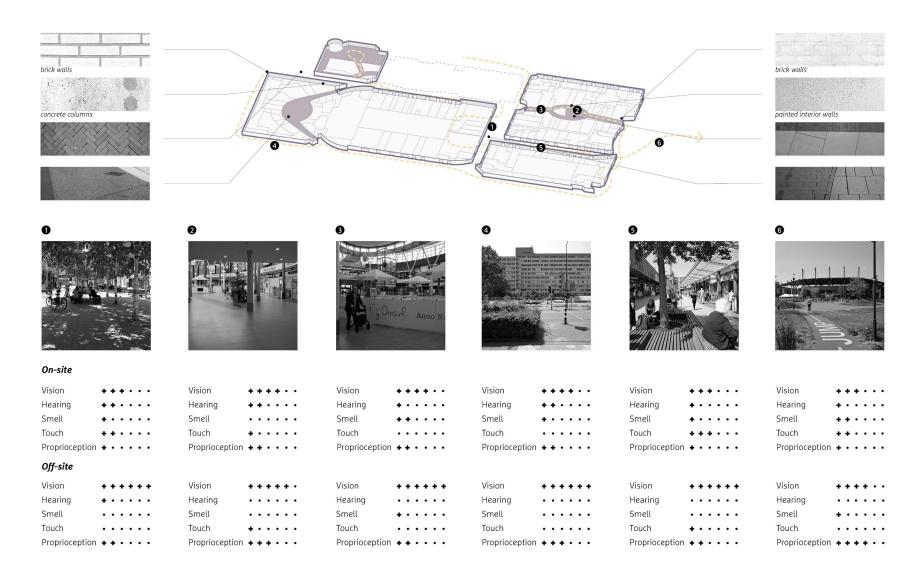
### | Case Studies - Questionnaire

#### Mall of the Netherlands



### | Case Studies - Questionnaire

#### **Bogaard Shopping Centre**



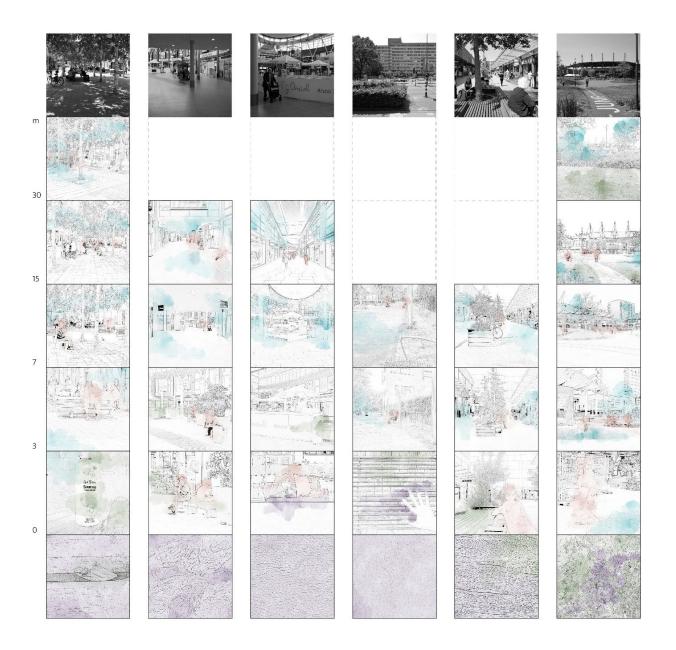
# **Disscussion- Senses & Spaces**

- Socializing?
- Senses Scales
- Intangible Tangible

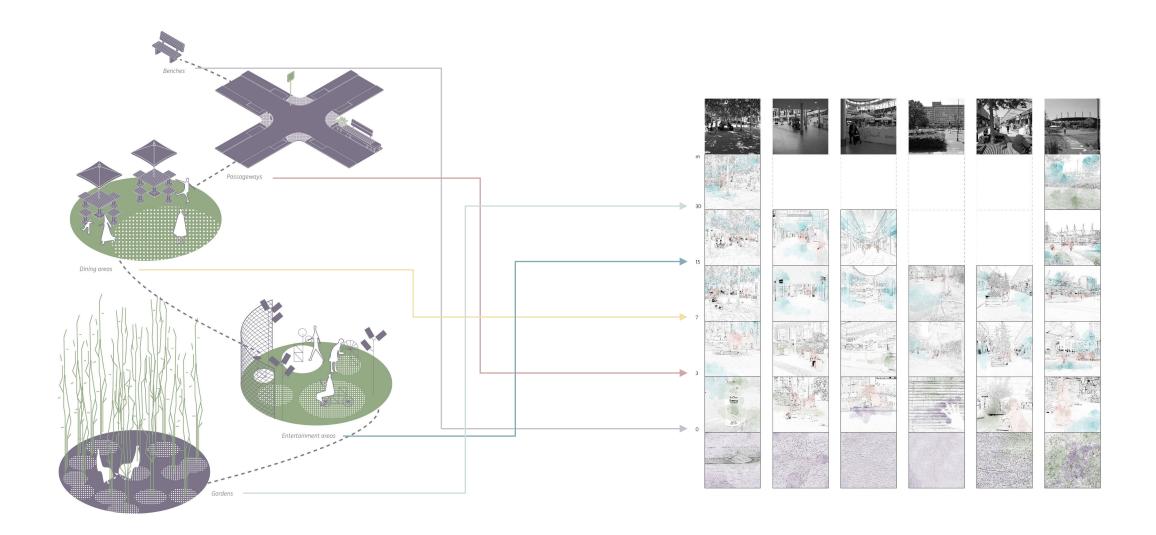


### Disscussion-Senses & Spaces

- The effective social distance is about 7 meters.
- The senses of touch and smell are more impressive within 7 meters.
- The senses of vision and hearing have a wider range of action.
- The larger the space, the more information people perceive.



# Disscussion- Senses & Spaces



### **Disscussion- Senses & Spaces**

- Most of the respondents preferred the atmosphere of Bogaard. Because the worn, warm-coloured brick walls and wooden benches make them feel relaxed.
- People linger over the open green spaces. On sunny days you can see many people gathering on the grass and children playing with water in the fountains.
- In the questionnaire about Bogaard, many locals said that they used to come to Bogaard when they were children, that it was part of their memories and that they had witnessed the transformation of the Rijswijk.

#### Pereira Roders' value framework

#### - Age

Maturity: piece of memory, reflecting the passage/lives of past generations.

#### - Ecological

Essential: identification of ecological ideologies on its design and construction.

#### - Social

Emotional individual: memory and personal life experiences; Emotional collectivenotions: related with cultural identity, motivation and pride, sense of "place attachment" and communal value.

### Heritage Values

Pereira Roders' value framework

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#### **ECOLOGICAL**

SPIRITUAL ESSENTIAL EXISTENTIAL

[COE,1975]

#### **SOCIAL**

SPIRITUAL EMOTIONAL (IND.) EMOTIONAL (COL.) ALLEGORICAL

[SPAB,1877]

#### **ECONOMIC**

USE NON-USE ENTERTAINMENT ALLEGORICAL

[COE,1966]

(PEREIRA RODERS, 2007; SPECKENS, 2010; TARRAFA AND PEREIRA RODERS, 2011)

#### **AGE**

WORKMANSHIP EXISTENTIAL MATURITY

[SPAB,1877]

#### **VALUES**

OTHER

#### **POLITICAL**

EDUCATIONAL MANAGEMENT ENTERTAINMENT SYMBOLIC

[1877-2005] [ICOMOS,1967]

#### **SCIENTIFIC**

WORKMANSHIP TECHNOLOGICAL CONCEPTUAL

[RIBA,1904]

#### **AESTHETICAL**

ARTISTIC NOTABLE CONCEPTUAL EVIDENTIAL

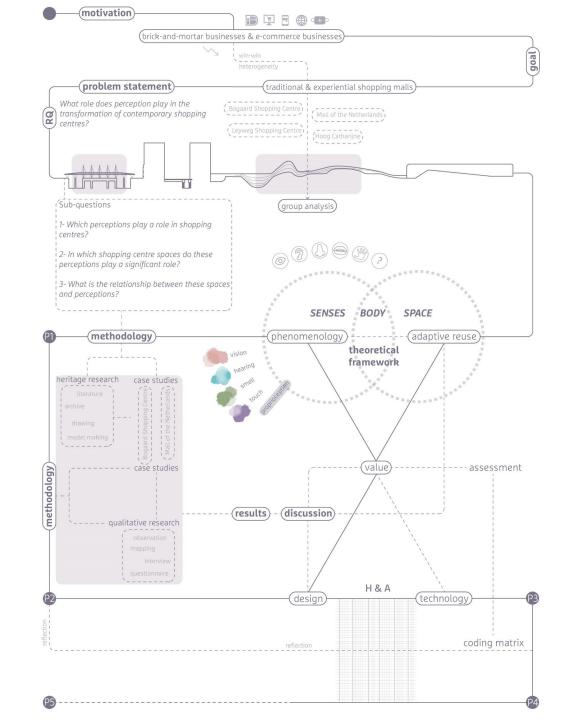
[SPAB,1877]

#### **HISTORIC**

EDUCATIONAL HISTORIC-ARTISTIC HISTORIC-CONCEPTUAL SYMBOLIC ARCHAEOLOGICAL

[SPAB,1877]

# Design



# Concept

How can we return city centre to residents?

# Concept

### **City Living Room**

- Reading
- Having a nap
- Watching TV/movies
- Working
- Having a party
- Chatting with friends
- Bonding with your family
- It is always open to you.



Pereira Roders' value framework

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#### - Ecological

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EDUCATIONAL HISTORIC-ARTISTIC HISTORIC-CONCEPTUAL SYMBOLIC ARCHAEOLOGICAL

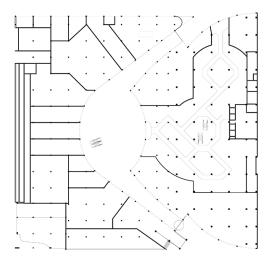
[SPAB,1877]

#### Pereira Roders' value framework

#### - Social

Emotional individual: memory and personal life experiences; Emotional collectivenotions: related with cultural identity, motivation and pride, sense of "place attachment" and communal value.

#### Atmosphere & Structure











Pereira Roders' value framework

- Ecological Essential: identification of ecological ideologies on its design and construction.

Green space



Pereira Roders' value framework

- Age

Maturity: piece of memory, reflecting the passage/lives of past generations.

Materials:

Brick

Wood







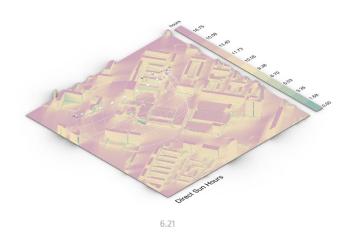


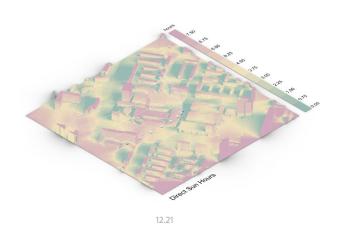
# | Design Process

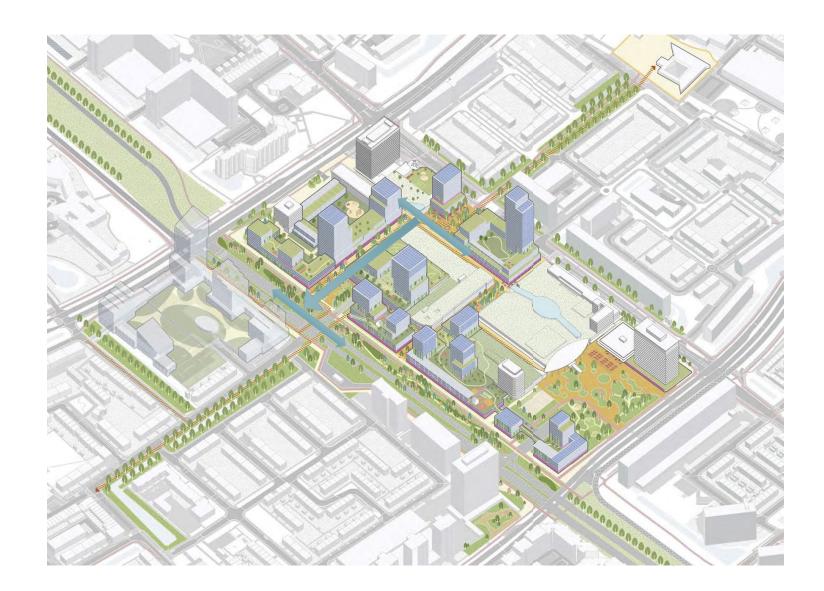
In de Bogaard masterplan



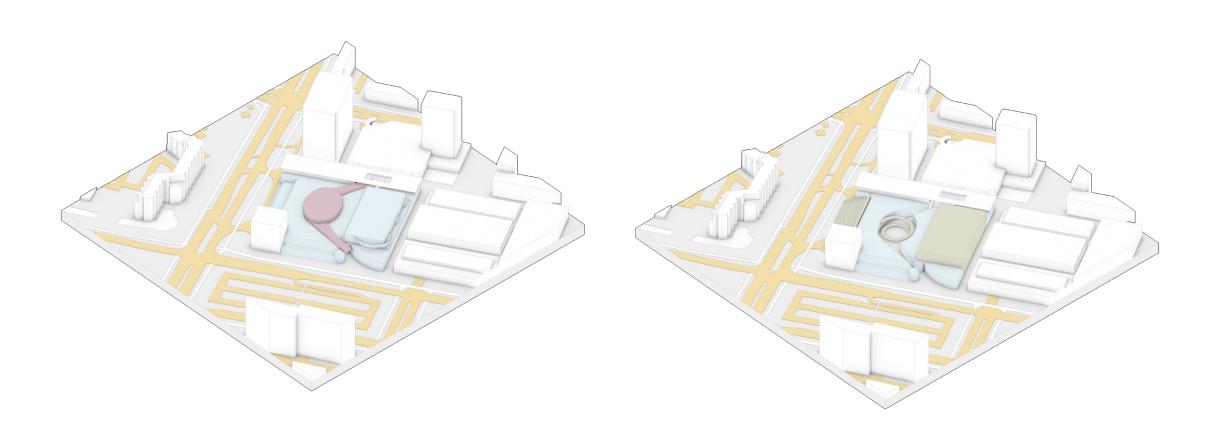
# | Design Process



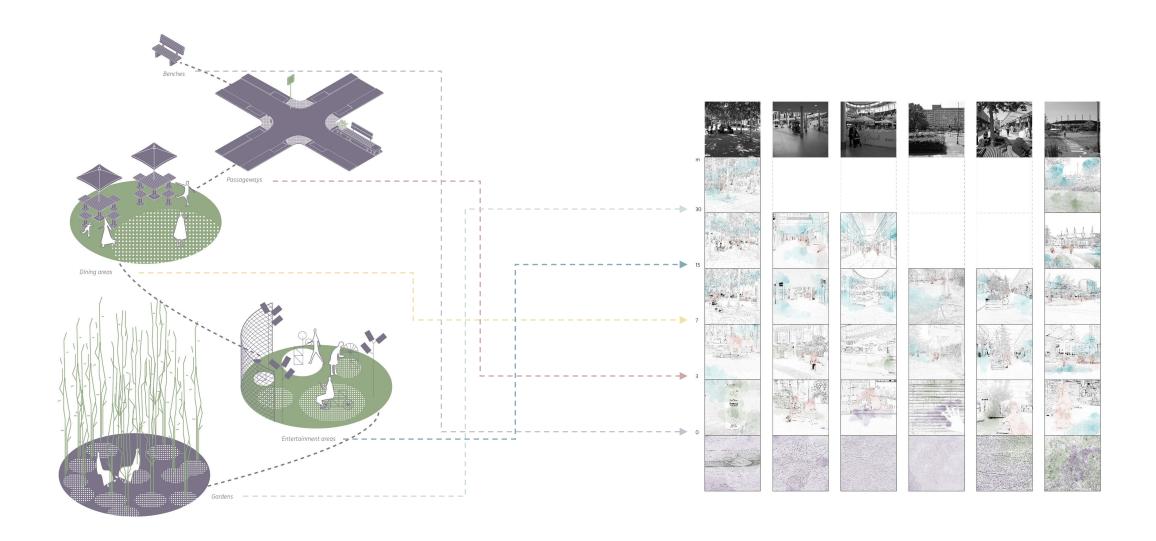




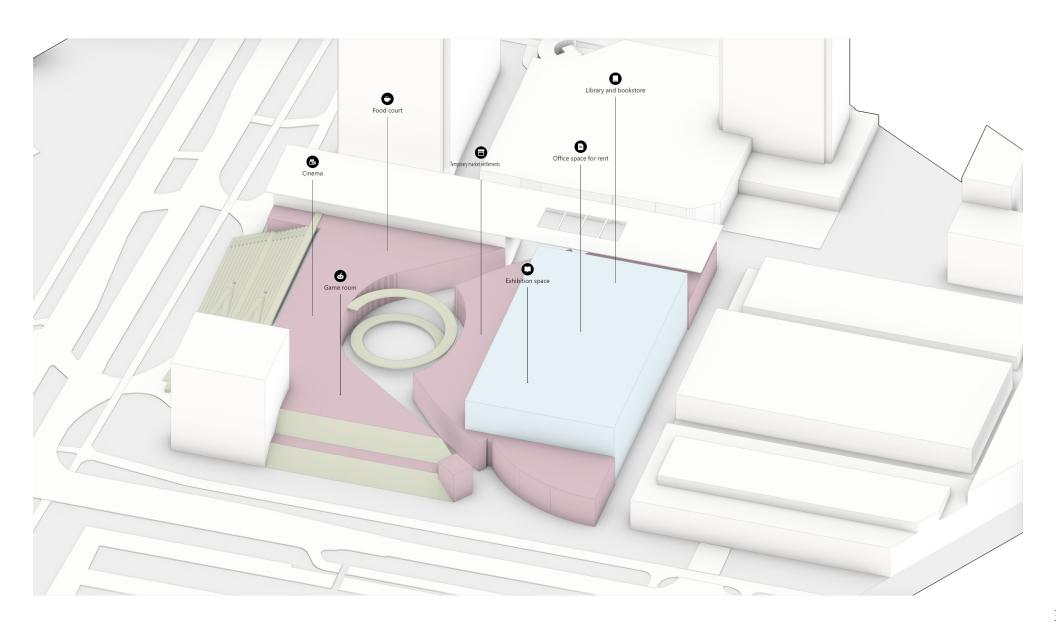
# Design Process



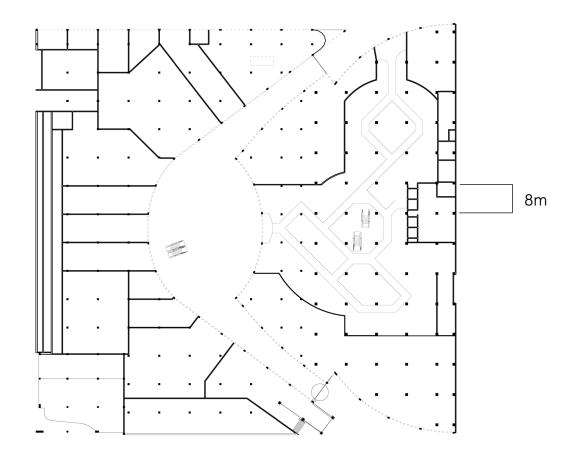
# **Design Process**



# | Design Process

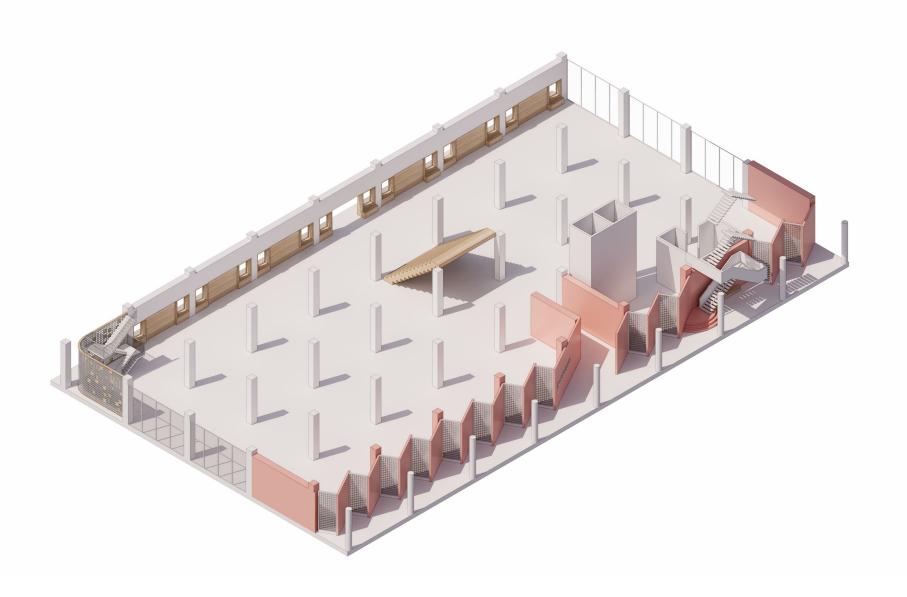


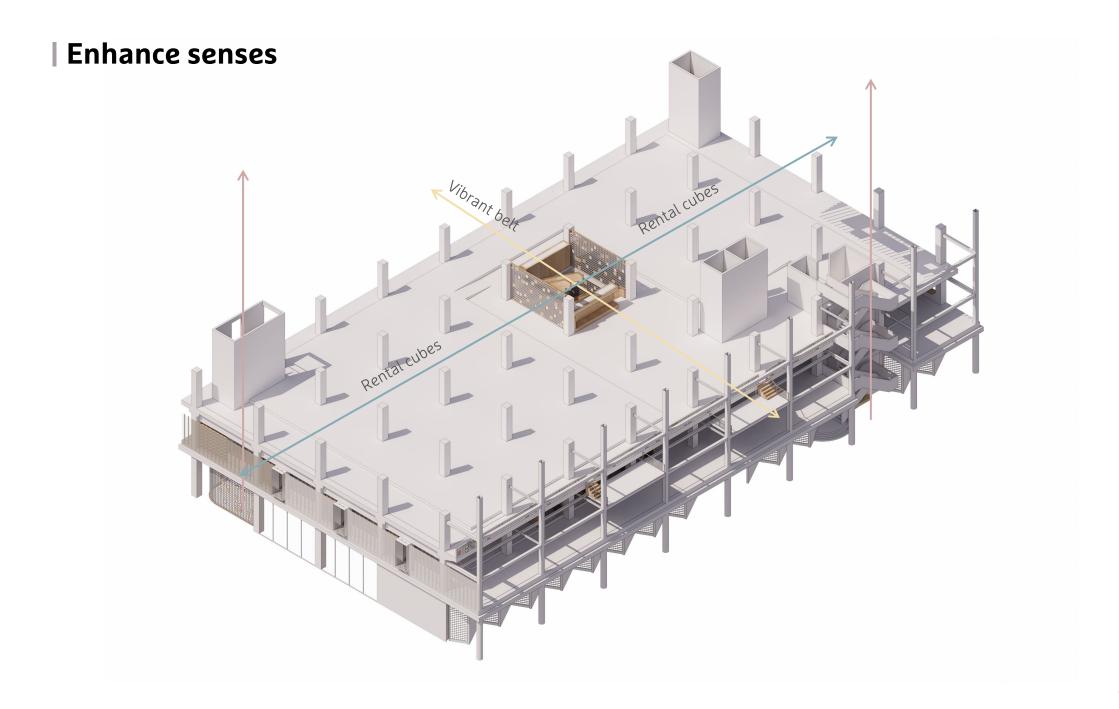
# Design Process – Smell & Touch

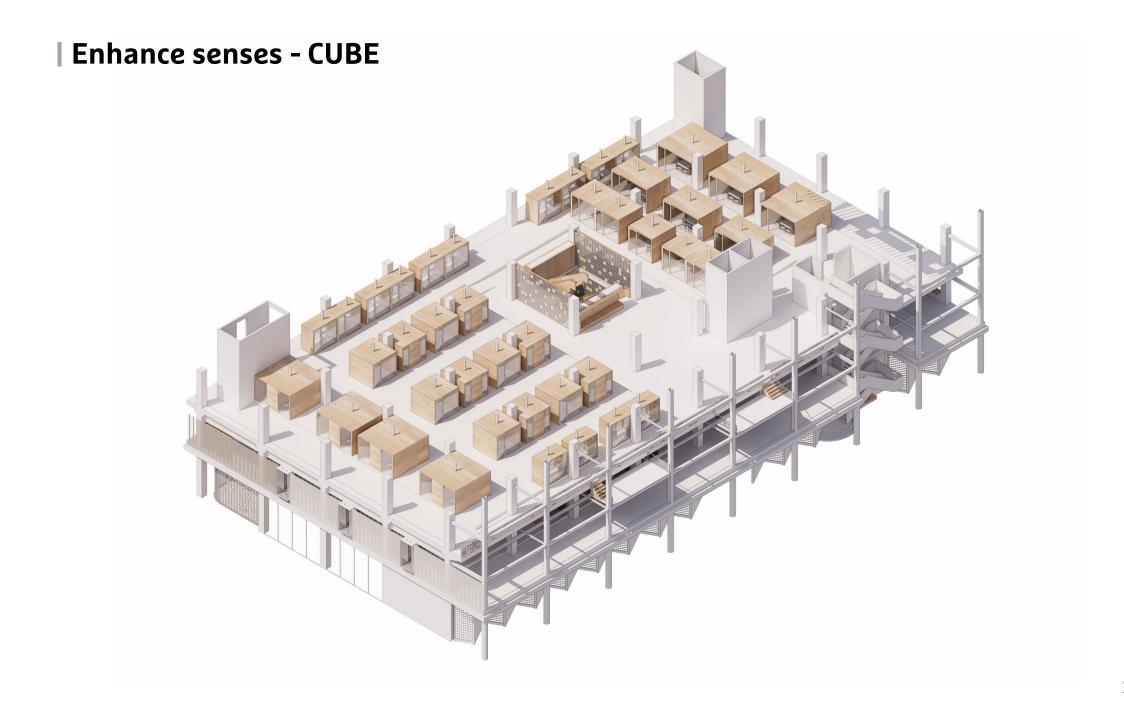


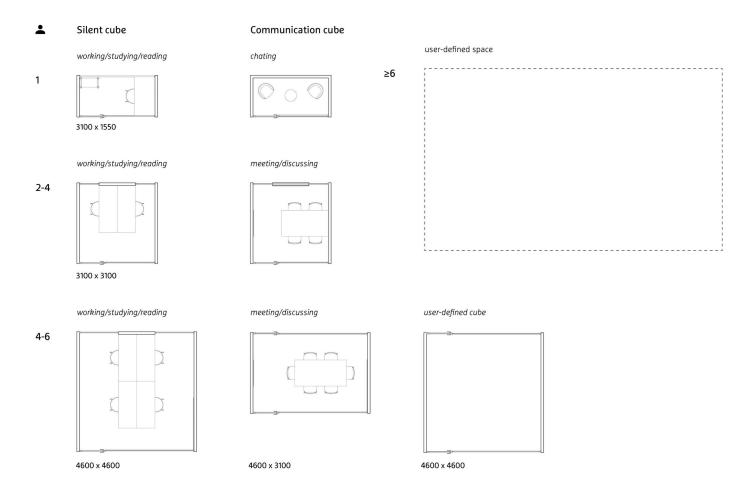


# **Enhance senses - Materials**

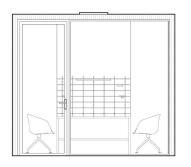


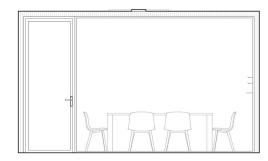












Personal comfort system

Positive pressure four fan ventilation system

Occupancy Sensor

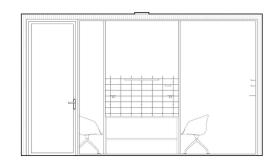
LED lighting

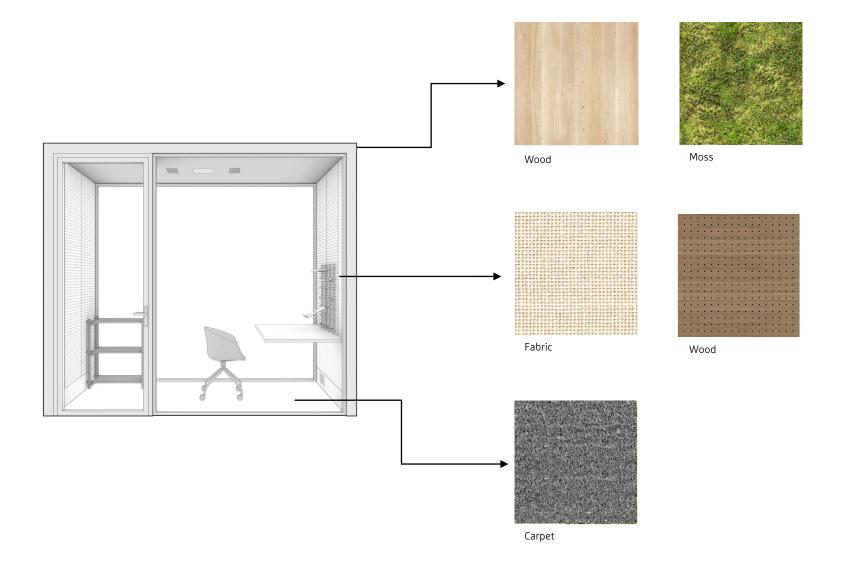
Standard power outlet (optional network and USB ports)

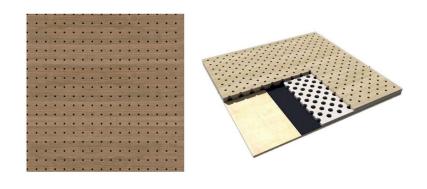
Concealed magnetic door closure

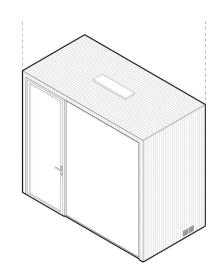


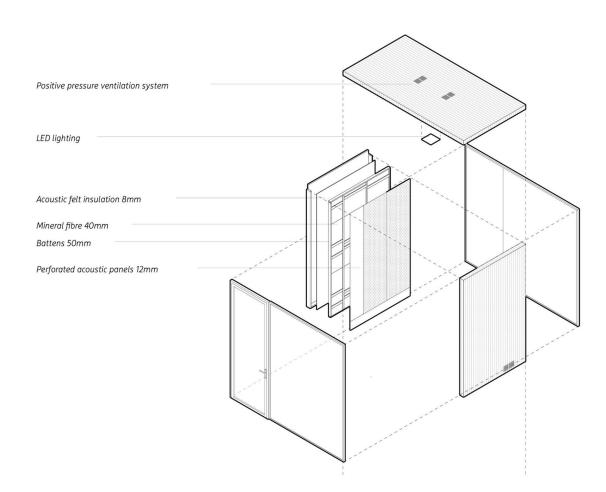


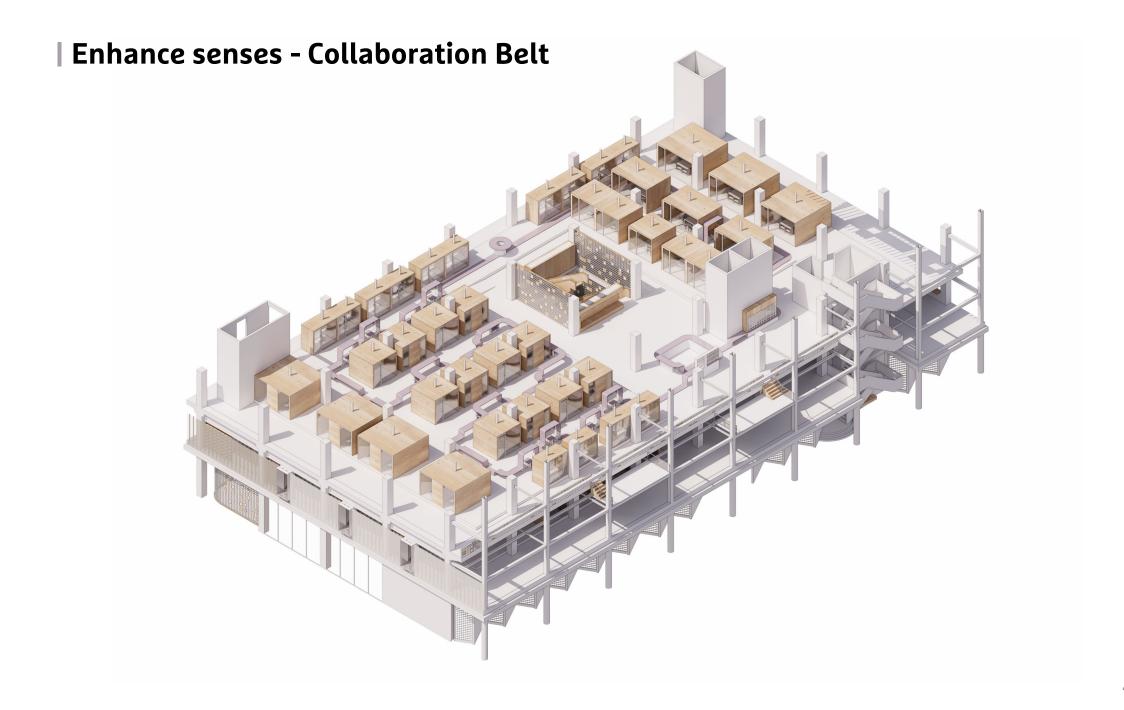


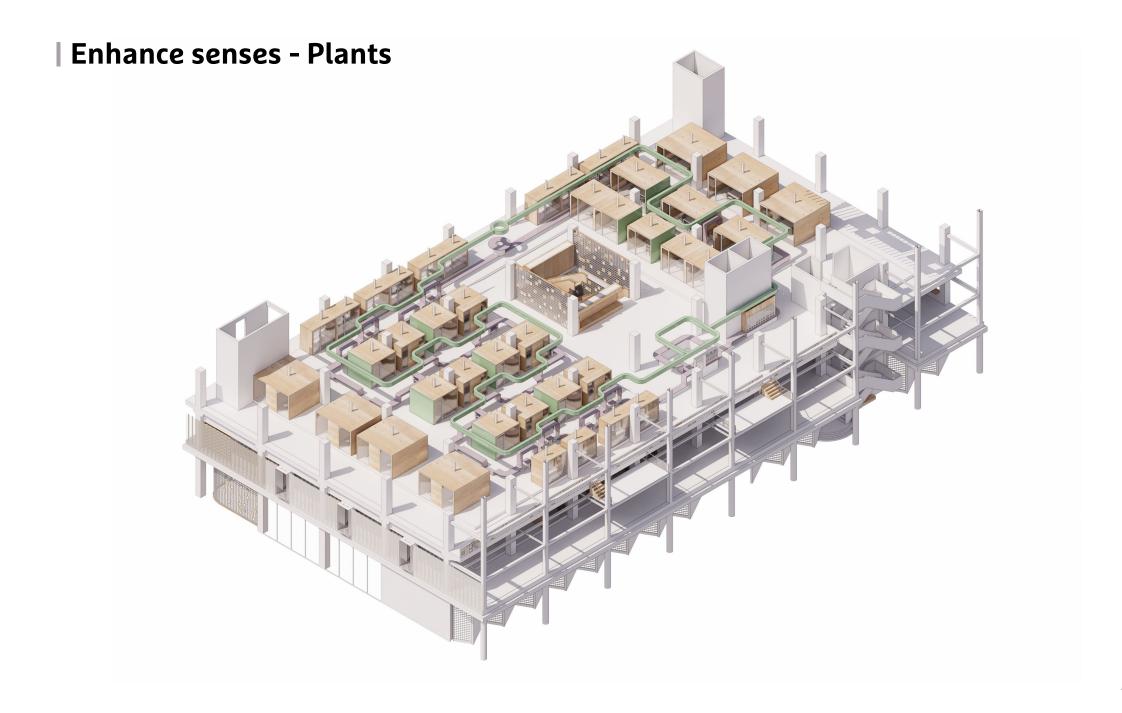


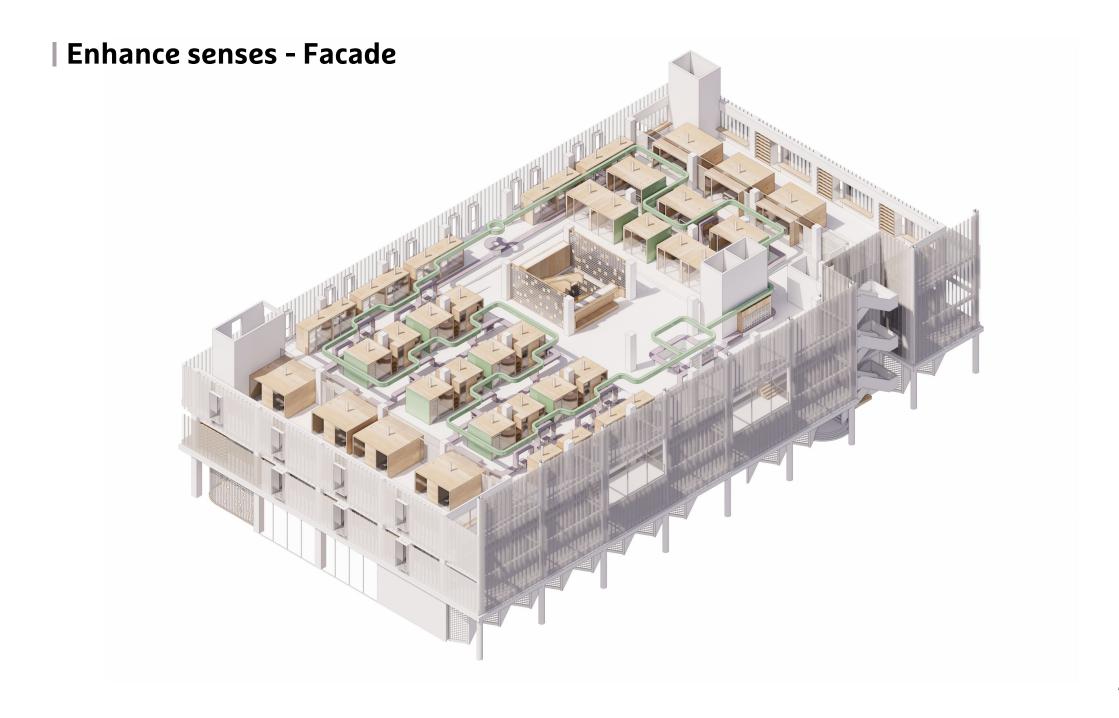












### Plan

01 Food Court

02 Cinema

03 Game area

04 Garden

05 Temporary market settlements

06 Stage & event area

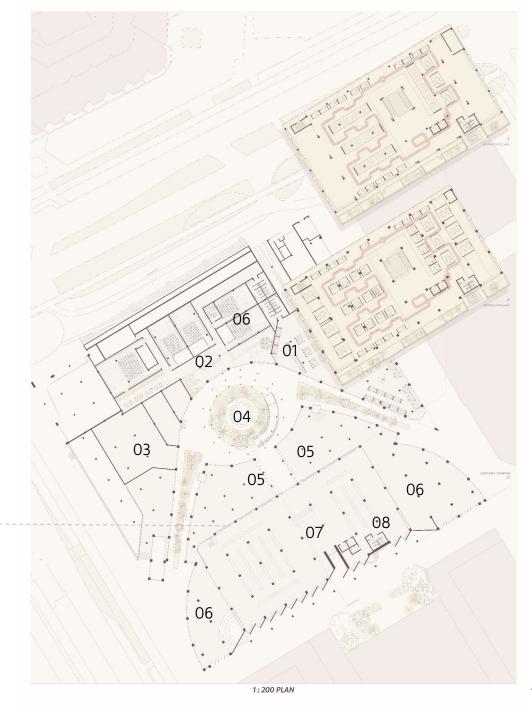
07 Exhibition

08 Toilet

#### Self-pickup cabinets & Vending machine

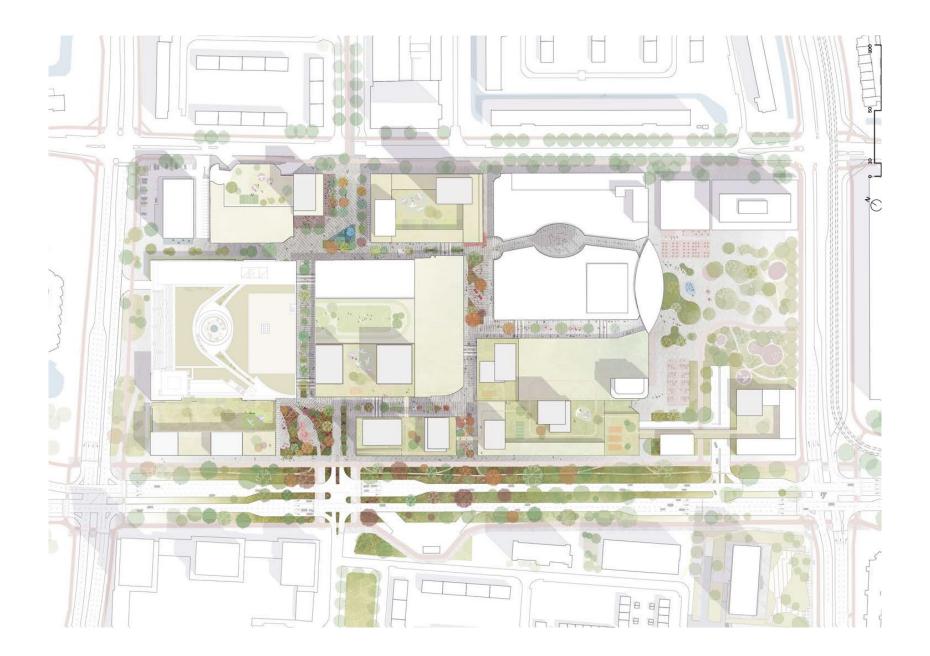






46

### **| Plan**



# **Elevation existing**



### **Elevation S**



### **Elevation W**



### **Elevation N**



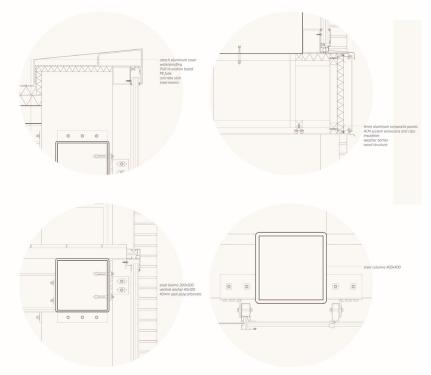
### **Elevation E**

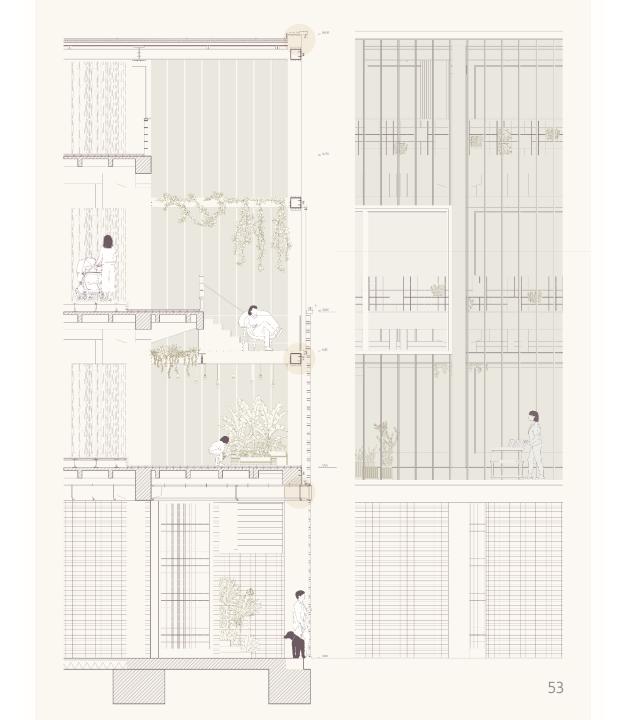


### BT

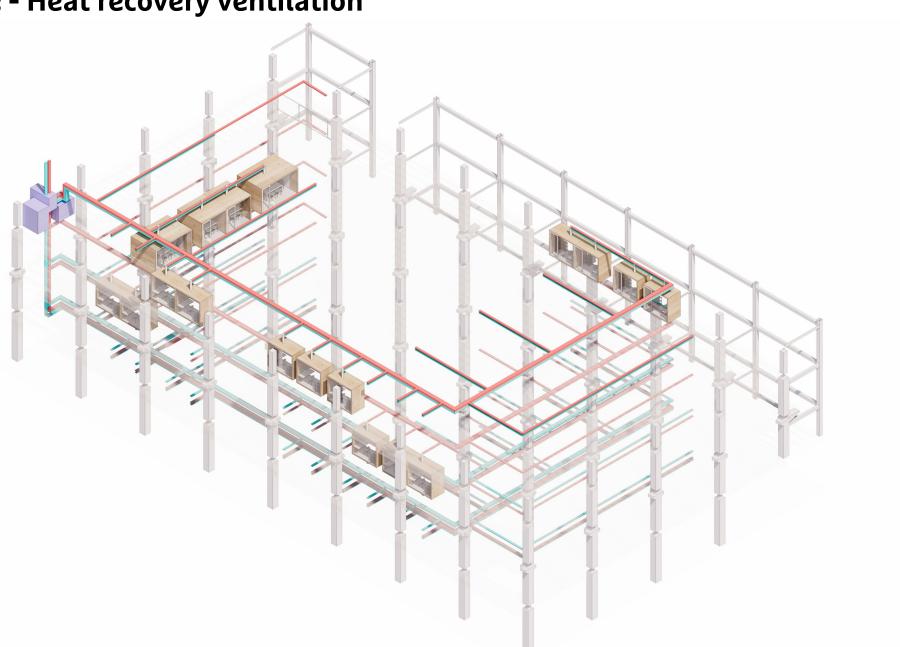
#### Polycarbonate panels

- Impact resistance
- Heat resistance
- Long service life
- Light Diffusion / UV Protection
- Easy to install

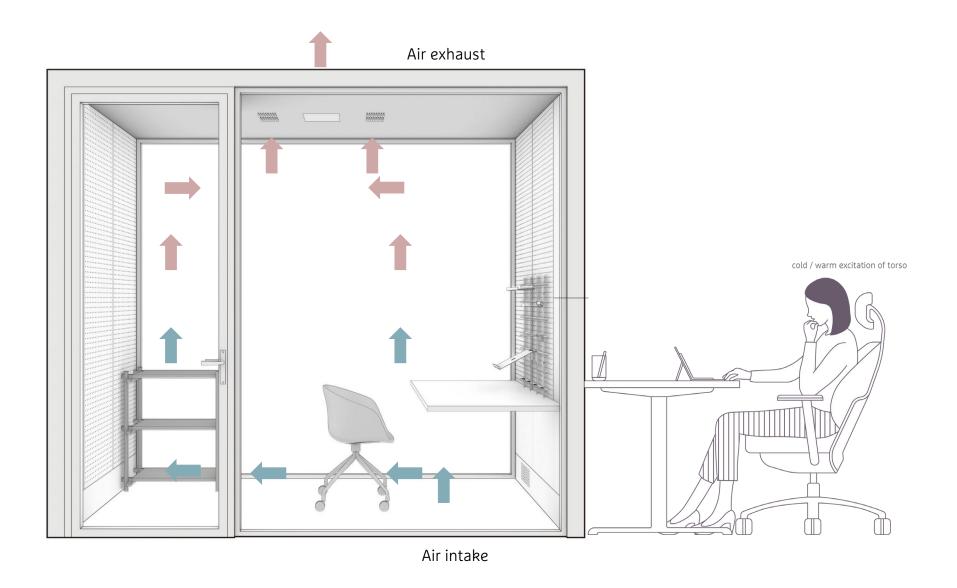




# | Climate - Heat recovery ventilation



## | Climate - Underfloor ventilation & Personal comfort system

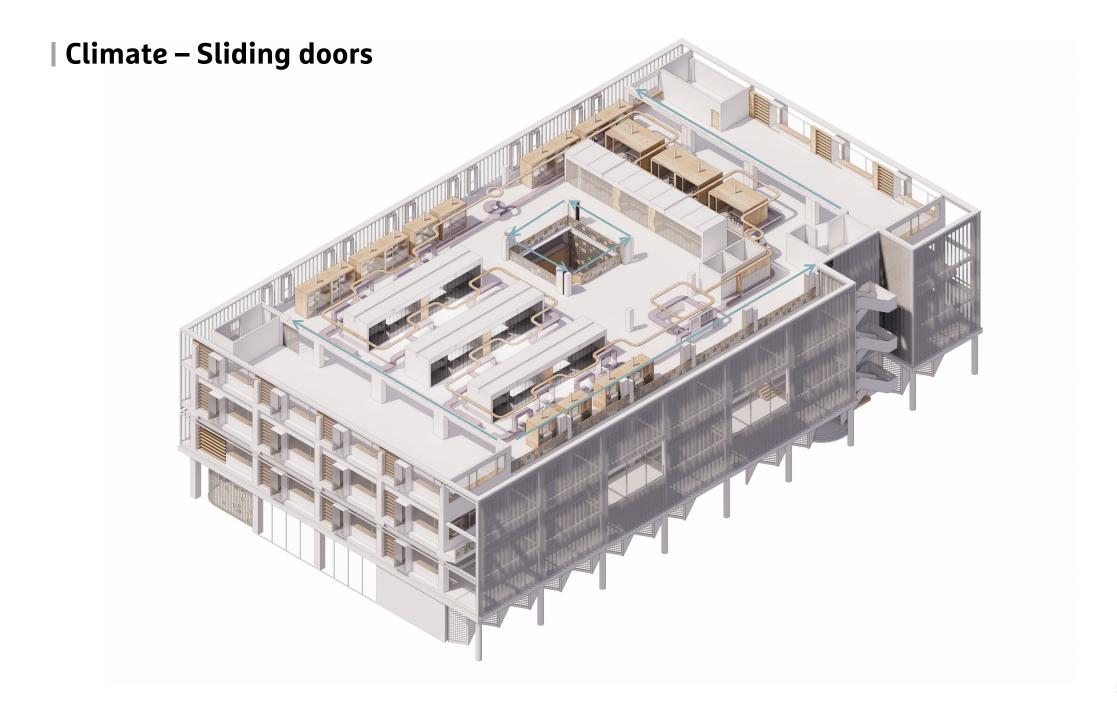


### | Climate - summer



### | Climate - winter





### Heritage values

#### Pereira Roders' value framework

- Age Materials
- EcologicalGreen space
- SocialAtmosphere & Structure

#### **ECOLOGICAL**

SPIRITUAL ESSENTIAL EXISTENTIAL

[COE,1975]

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(PEREIRA RODERS, 2007; SPECKENS, 2010; TARRAFA AND PEREIRA RODERS, 2011)

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WORKMANSHIP EXISTENTIAL MATURITY **VALUES** OTHER

EDUCATIONAL MANAGEMENT ENTERTAINMENT

SYMBOLIC

[1877-2005]

[ICOMOS,1967]

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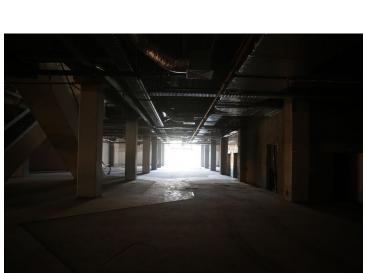
[SPAB,1877]







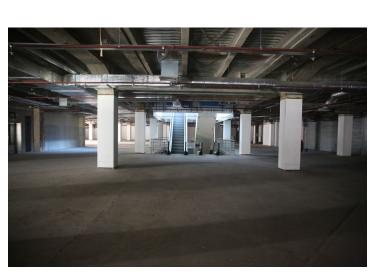




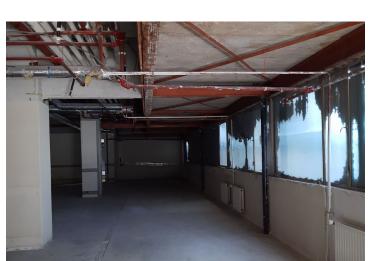










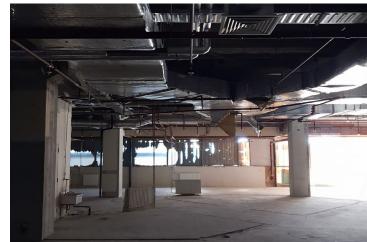


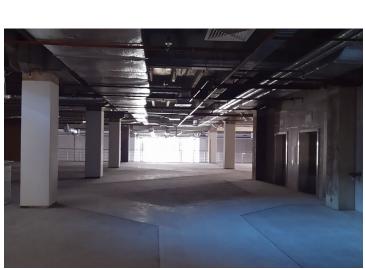


















# **Problem Statement**

What role does perception play in the transformation of contemporary shopping malls?

# Thanks