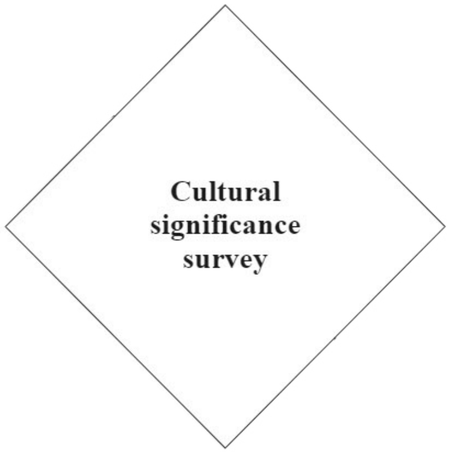
Value and Attachment

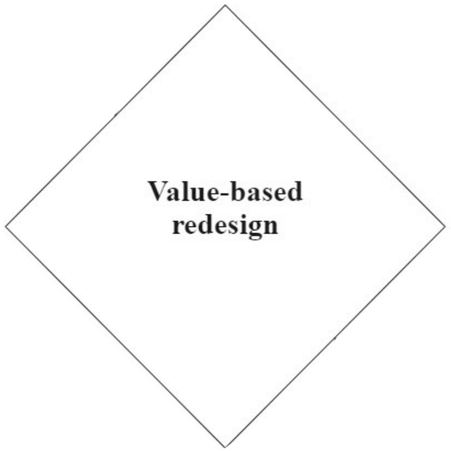
SOCIAL AND ECOLOGICAL SPACES IN VALUE-BASED REDESIGN OF FORMER MILLING FACTORY IN ESTAÇÃO, FARO

P5 presentation MSc3 Heritage & Architecture

Tao Qiyang, 5260582

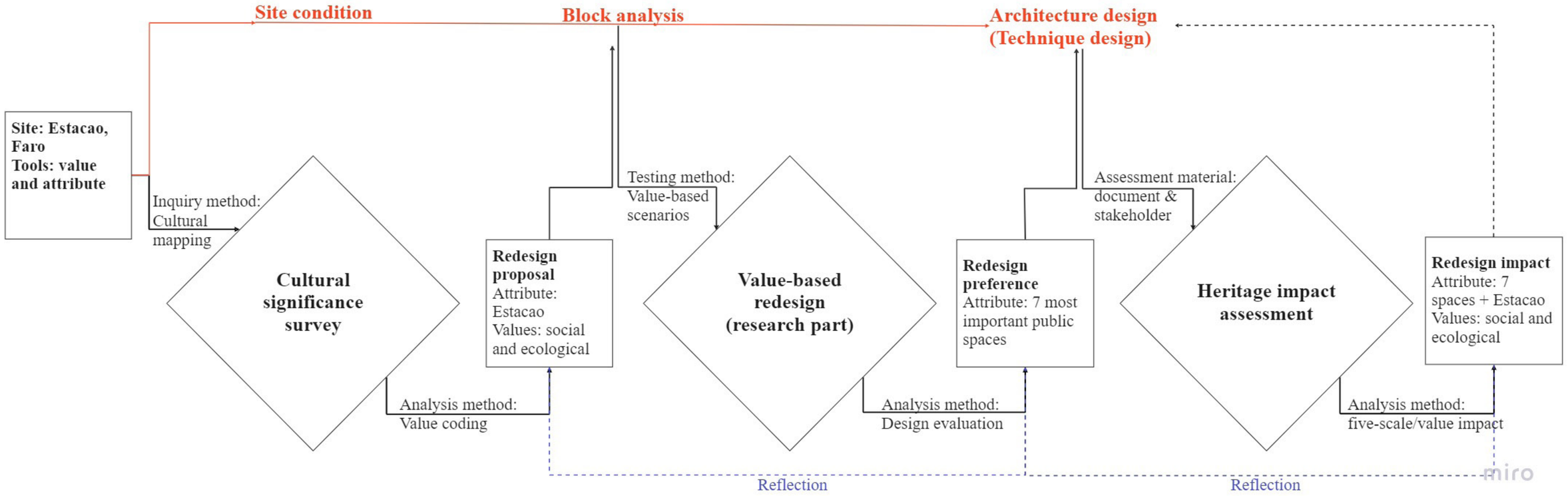
Content


Cultural
significance
survey

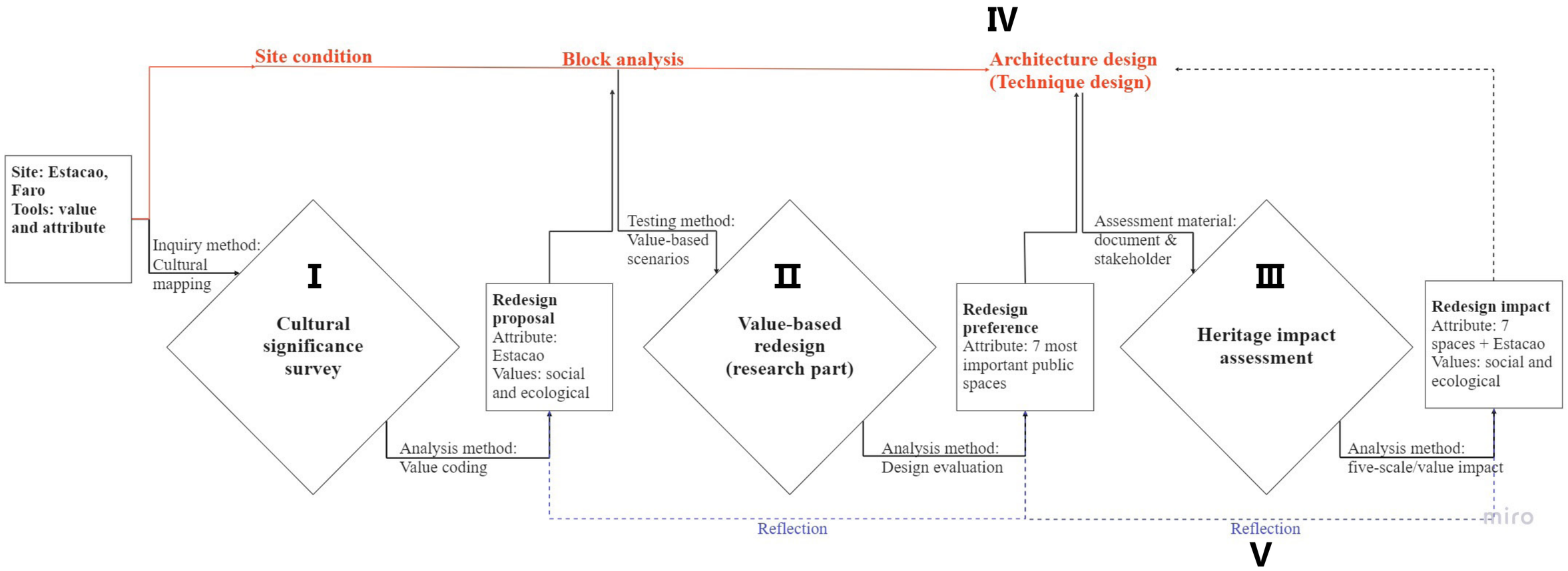

Value-based
redesign

Heritage impact
assessment

Content


Site condition
Block analysis
Architecture design
(Technique design)
Site: Estacao, Faro
Tools: value and attribute
Inquiry method: Cultural mapping
Cultural significance survey
Analysis method: Value coding
Redesign proposal
Attribute: Estacao
Values: social and ecological
Testing method: Value-based scenarios
Value-based redesign (research part)
Analysis method: Design evaluation
Redesign preference
Attribute: 7 most important public spaces
Assessment material: document & stakeholder
Heritage impact assessment
Analysis method: five-scale/value impact
Redesign impact
Attribute: 7 spaces + Estacao
Values: social and ecological
Reflection
Reflection
miro

Content


IV
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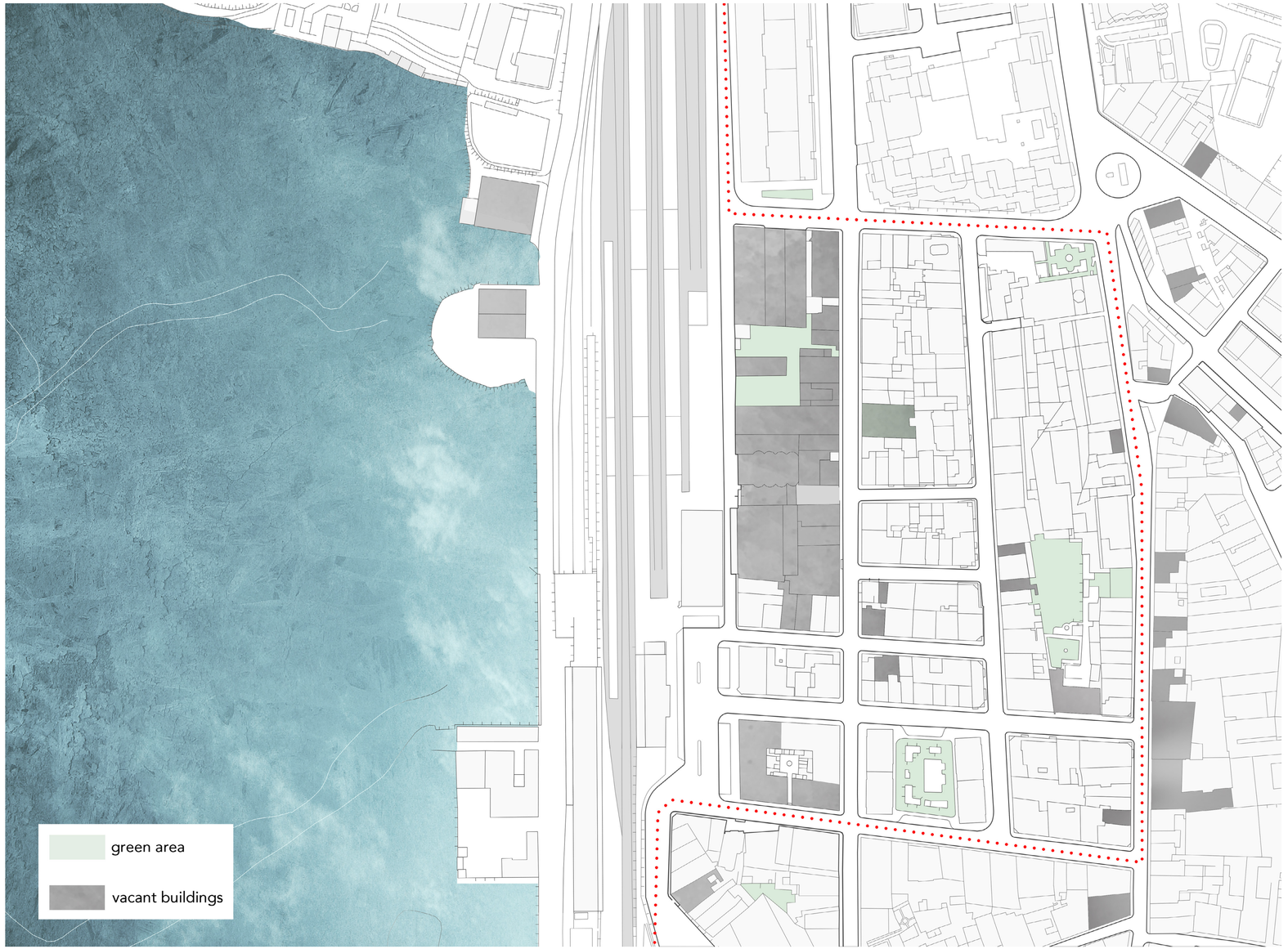
miro

Part 1

Cultural significance survey

Research question

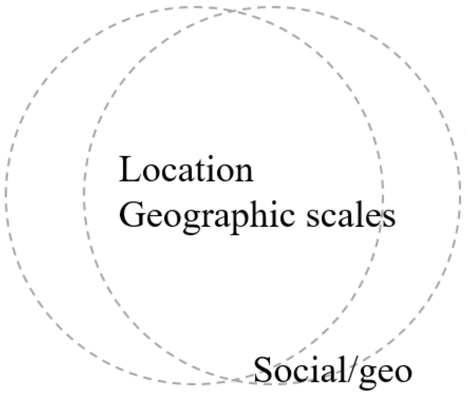
How could the values and attributes affect residents' (the elderly and adults')place attachment to the Estação neighborhood, Faro?



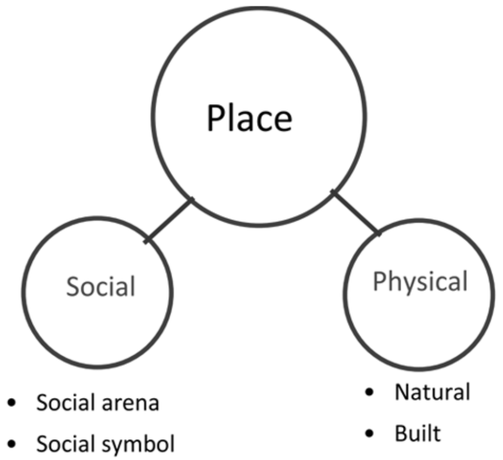
Theoretical framework

Place attachment: a bond between people and place.

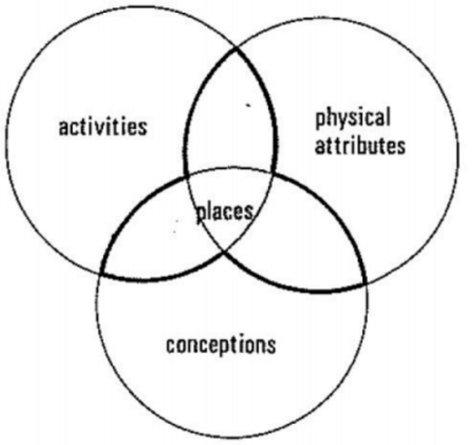
Place: a spatial or psychological scope including three factors:
1) physical settings
2) activities with people
3) meanings



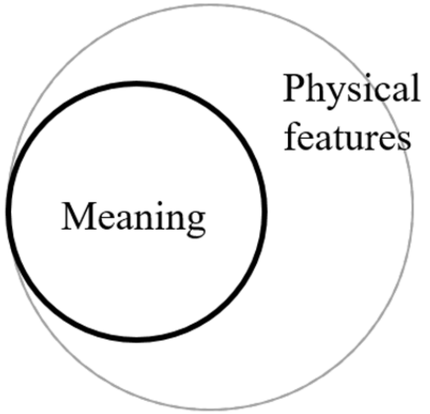
(a)



(b)



(c)

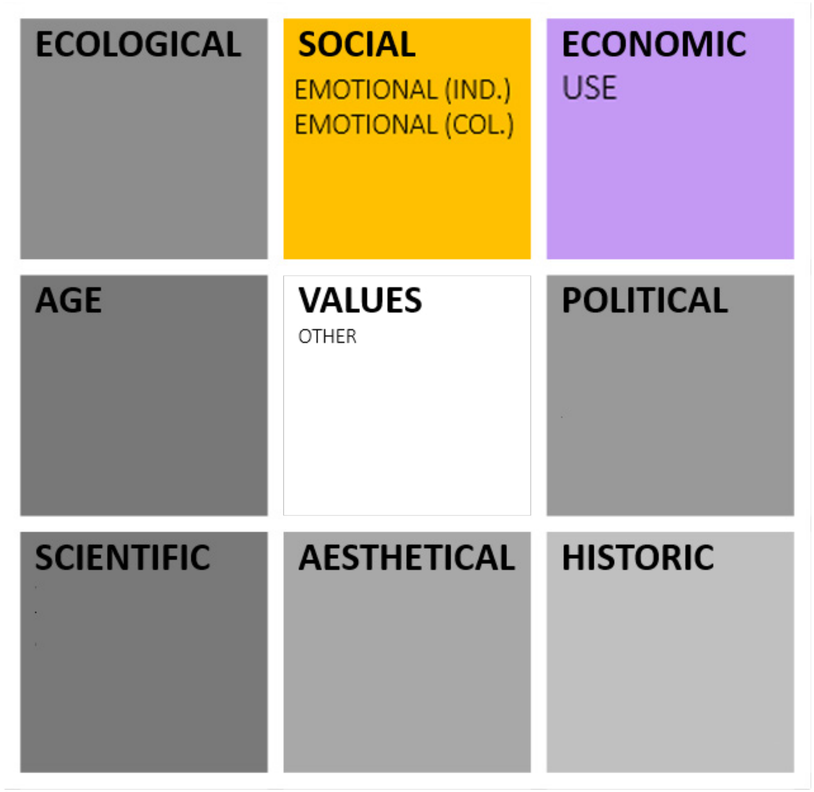


(d)

Fig 1-1. diagram for four space models
(b) Leila Scannell, Robert Gifford. (2009), Defining place attachment: A tripartite organizing framework, Department of Psychology, University of Victoria, Victoria, British Columbia, V8W 3P5 Canada
(c) Canter, D. (1977). The Psychology of Place. London: The Architectural Press Ltd.
(d) Stedman, R. (2003). Is it really just a social construction? The contribution of the physical environment to sense of place. Society and Natural Resources, 16, 671–685.

Theoretical framework

1. The place brings convenience to my life.
2. I feel the place is part of my life.
3. I like to get involved in this place's activities.
4. I love this place.
5. I don't want to leave this place.

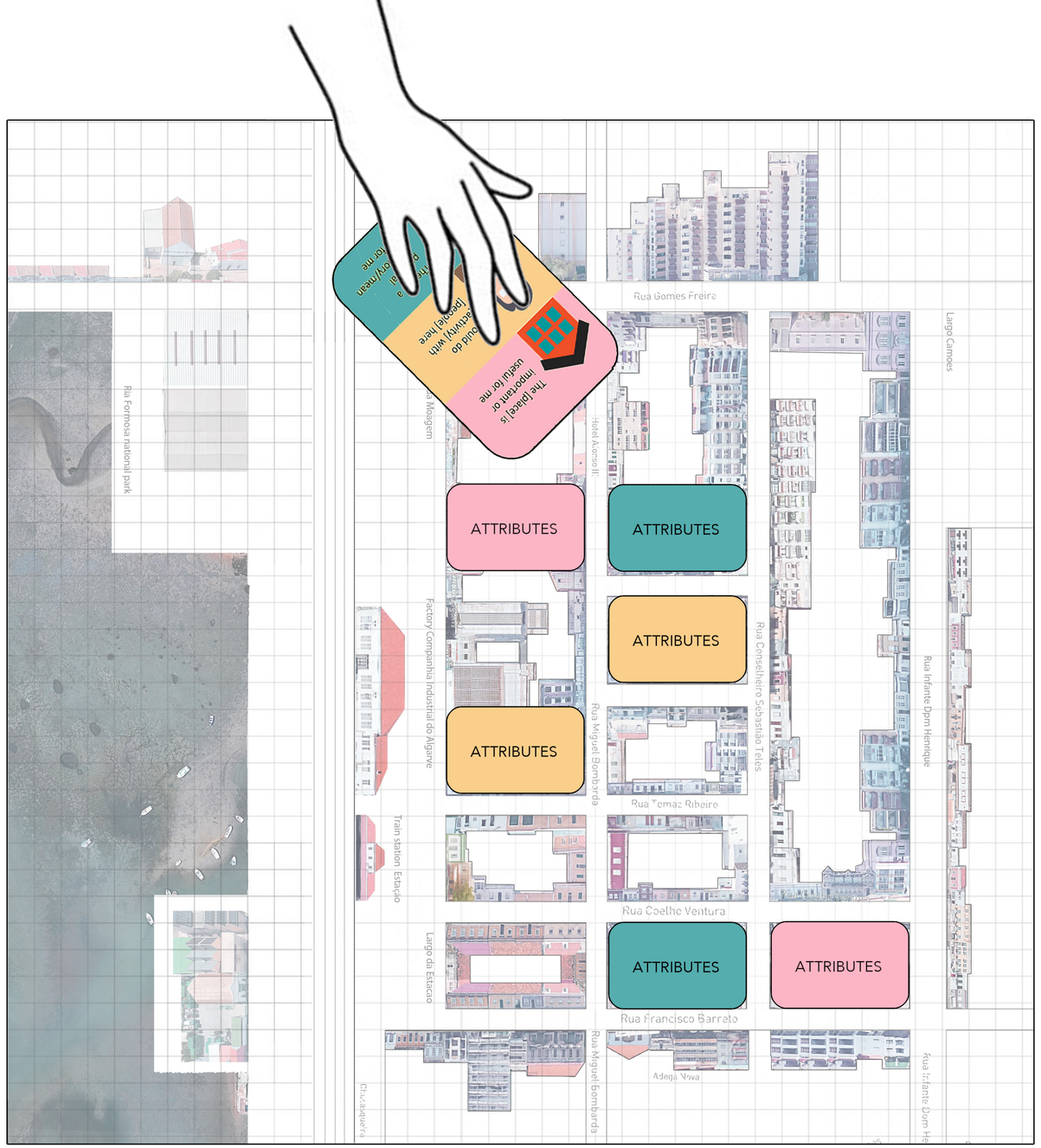


ATTRIBUTE TYPES	Tangible attributes	Intangible societal attributes	Intangible relation attributes
PLACE FACTORS	Location/ Architectural elements	People/ Activity	Meaning
INTERVIEW TECHNIQUE	Draw on pictures and map	Your daily route in neighborhood	Life events happened here

Methods and tools

Step 1 mapping what participants like or dislike in Estação (attributes)

Step 2 measure participants' level of place attachment



Methods and tools

Step 3 point out relevant attributes and explain reasons (values)

Step 4 Coding values and attributes, overlapping attribute cards.

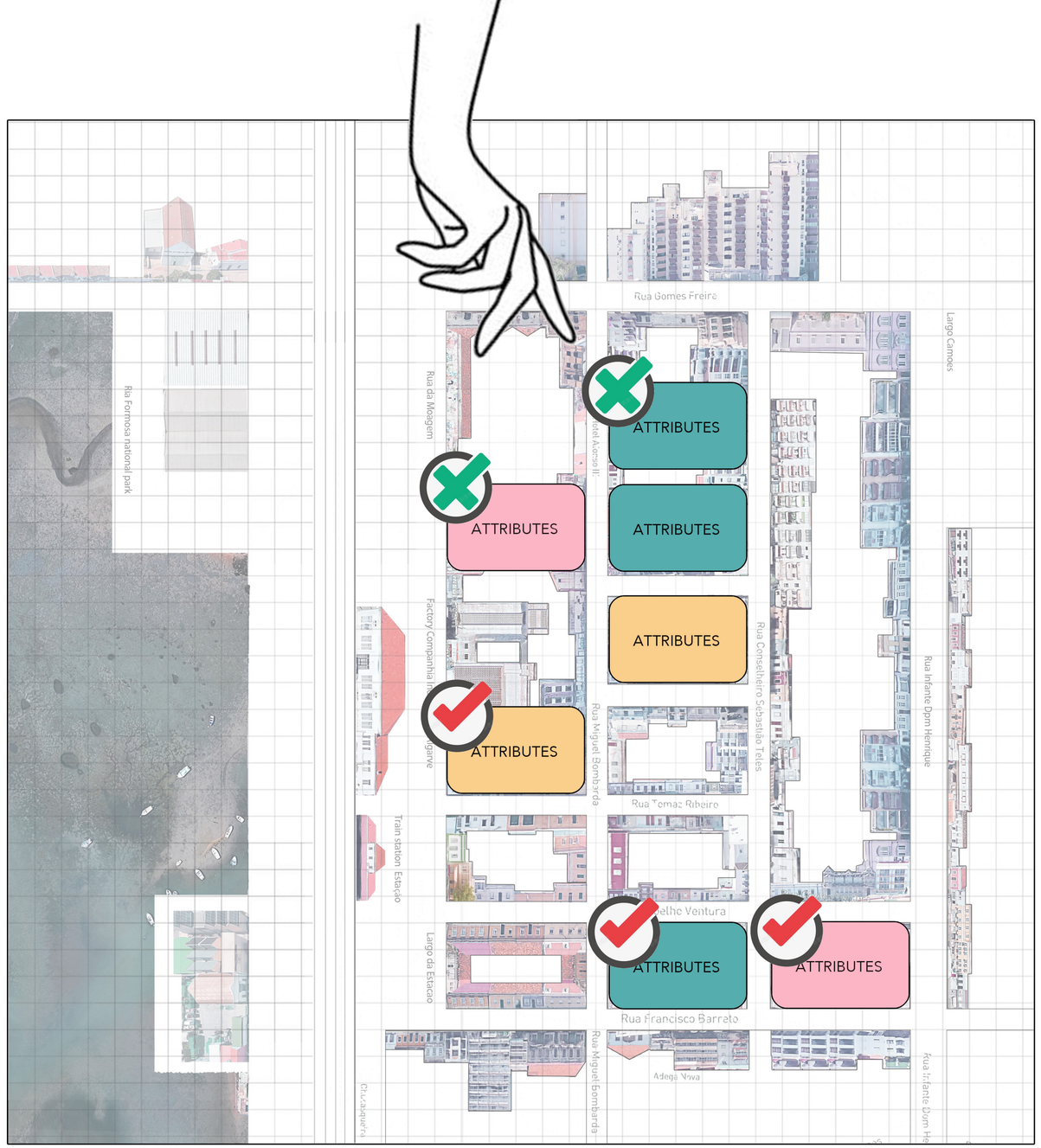
I like Estação because I could **meet different people** here, **the train station** provides this .....

I like the **little square** between two pink buildings because .....

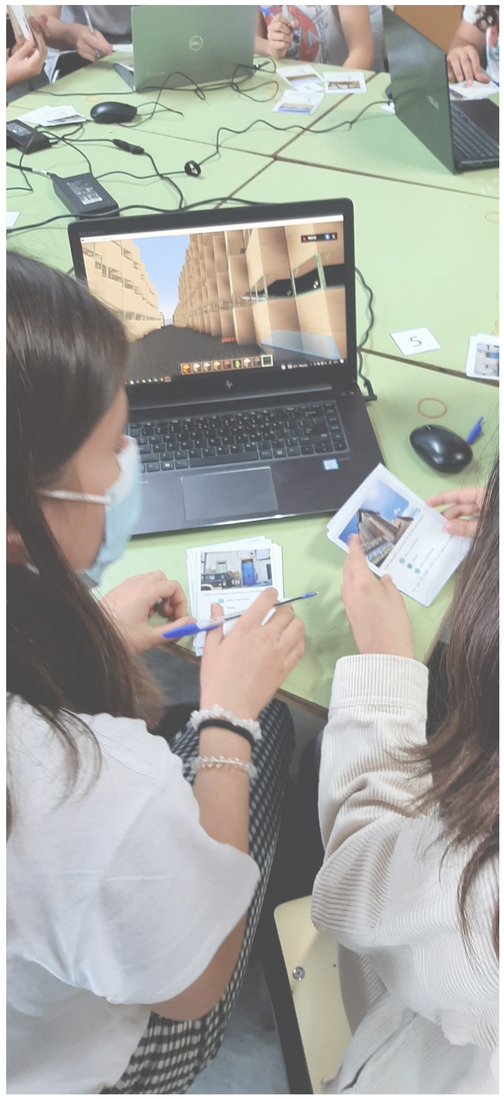
This is **very few public spaces** in Estação to support **activities** ....

There is **no activity** in Estação so I cannot participate .....

I don't like the poor condition of **the factory** because .....



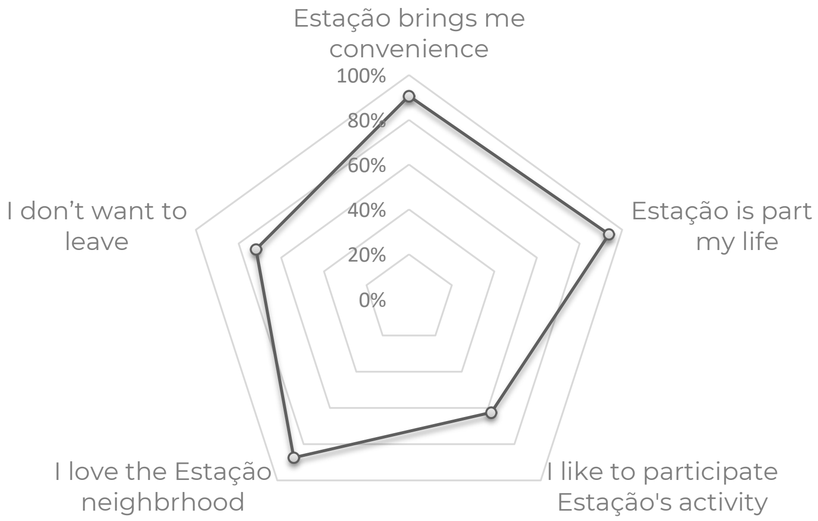
Fieldwork

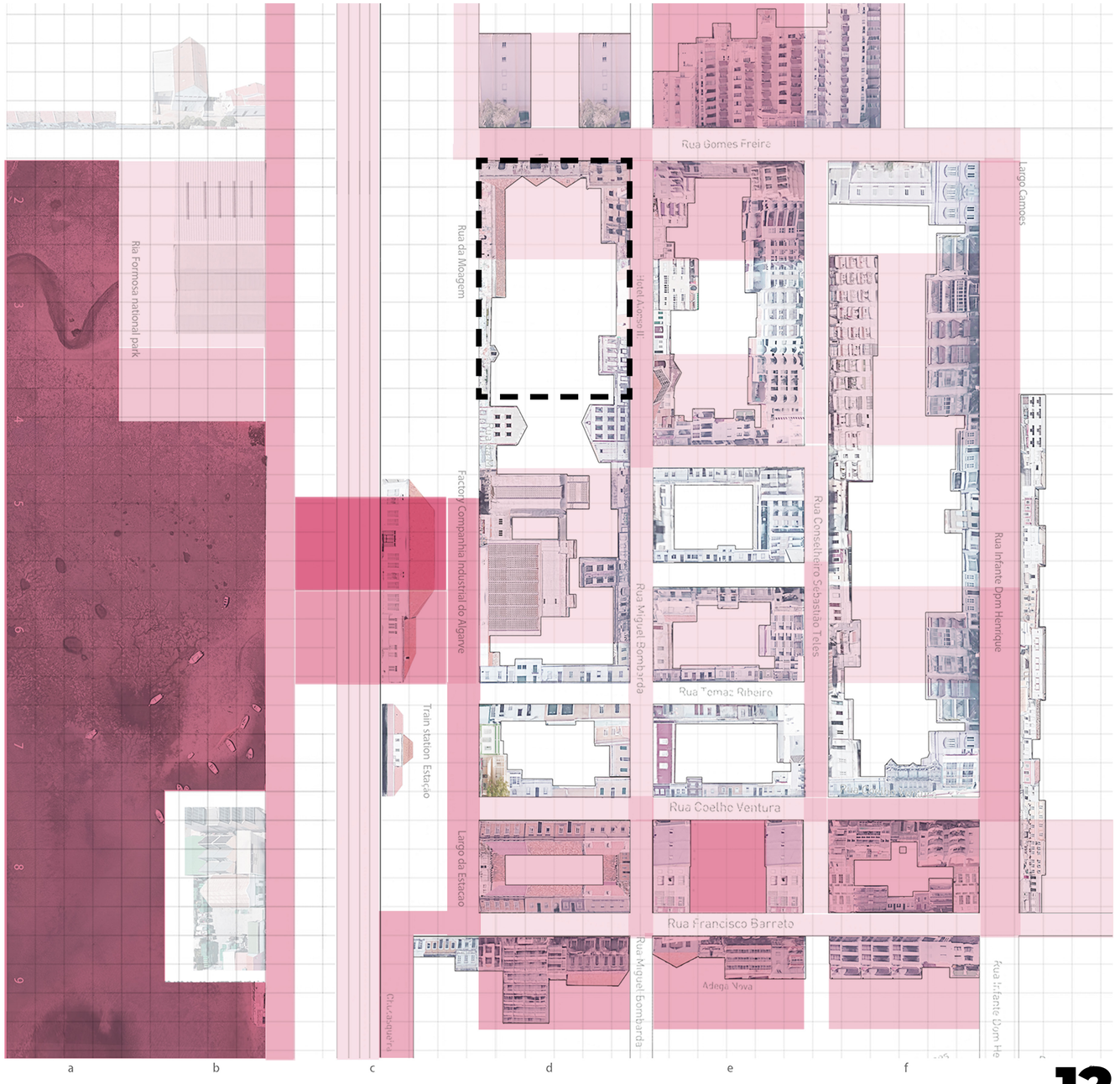


Result 1

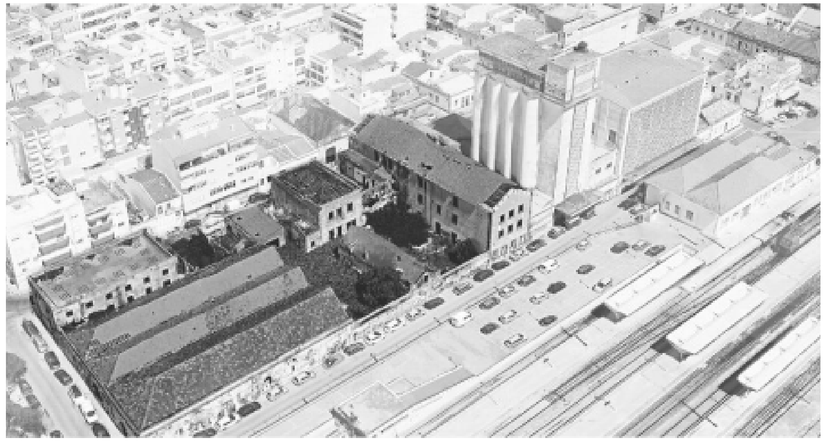
Sub-question : What is the level of place attachment of locals to the Estação neighborhood? Which areas do they feel more attached to?

People love Estação, they feel more attached to the edge areas of the neighborhood.





Site selection



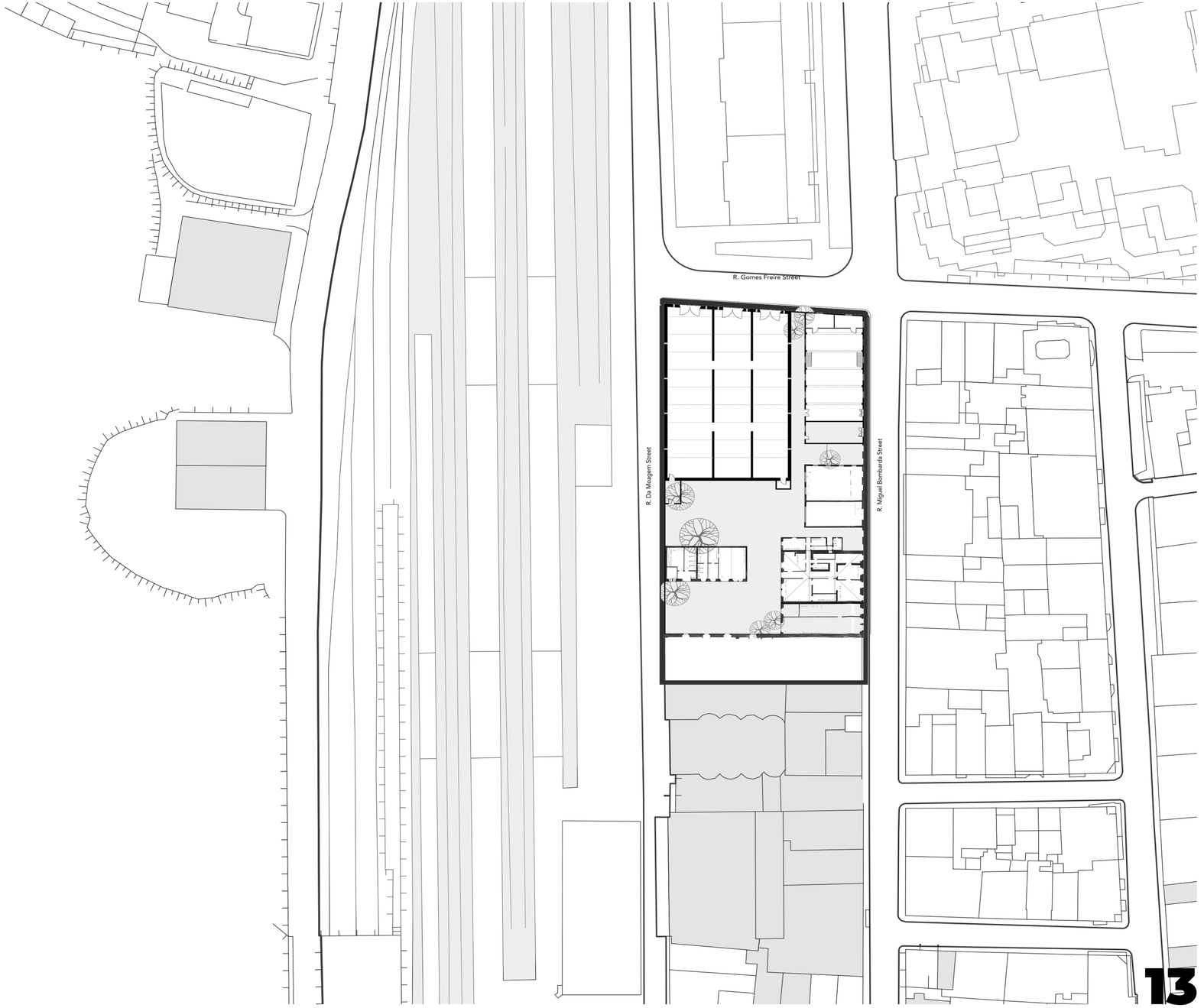
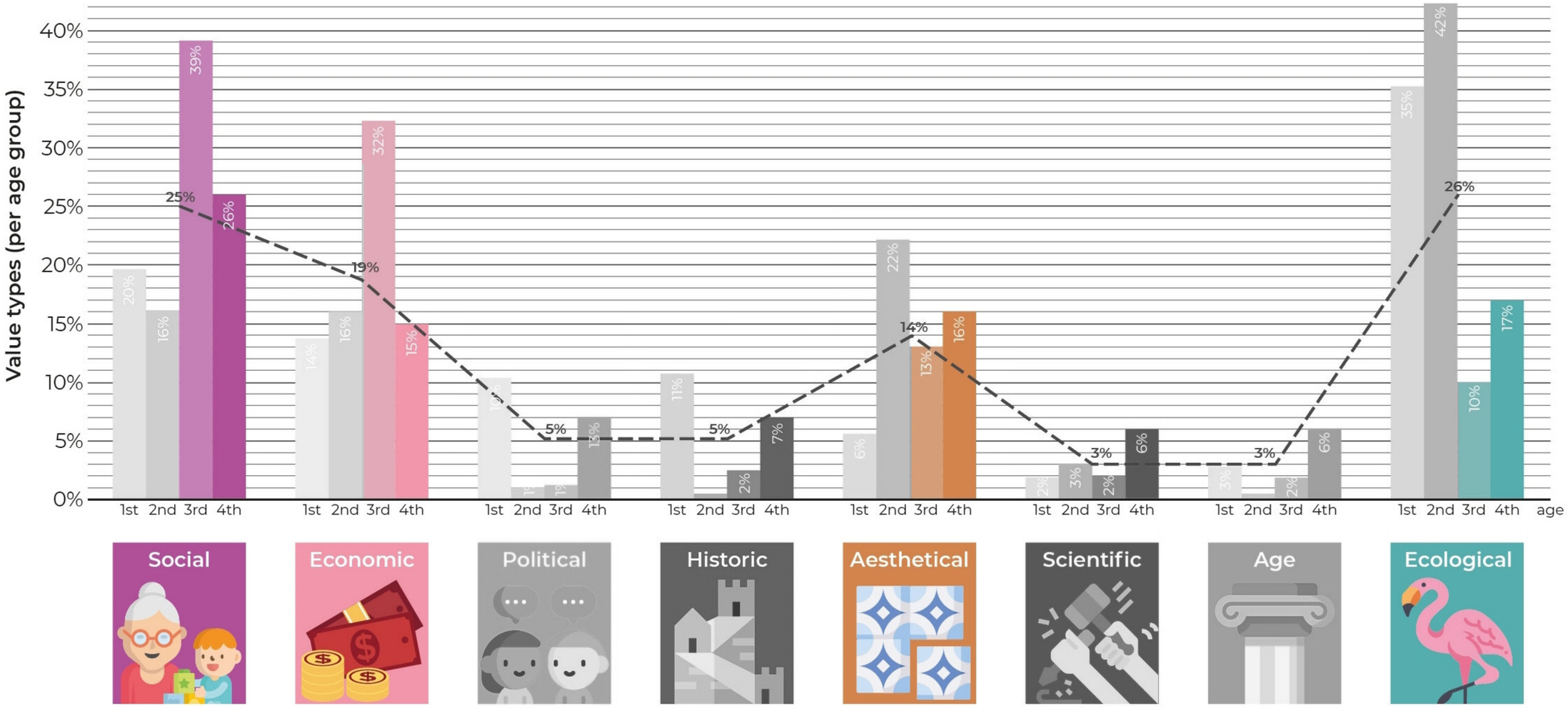


Fig 1-2. New project rendering from internet

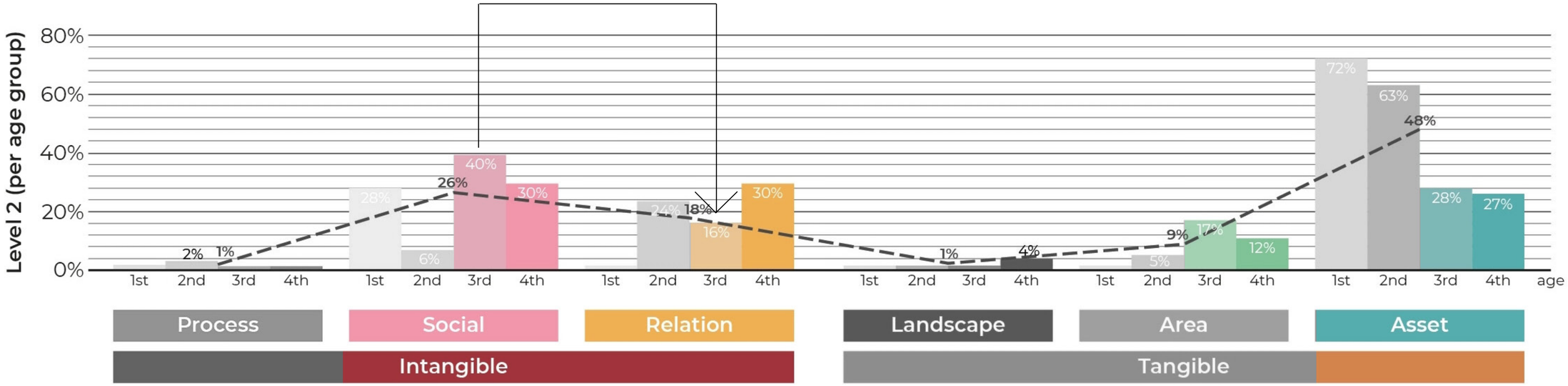
Result 2

Sub-question : Which values are more relevant to residents' place attachment?
Value type hierarchy: Social > Economic >> Ecological > Aesthetical >> Others

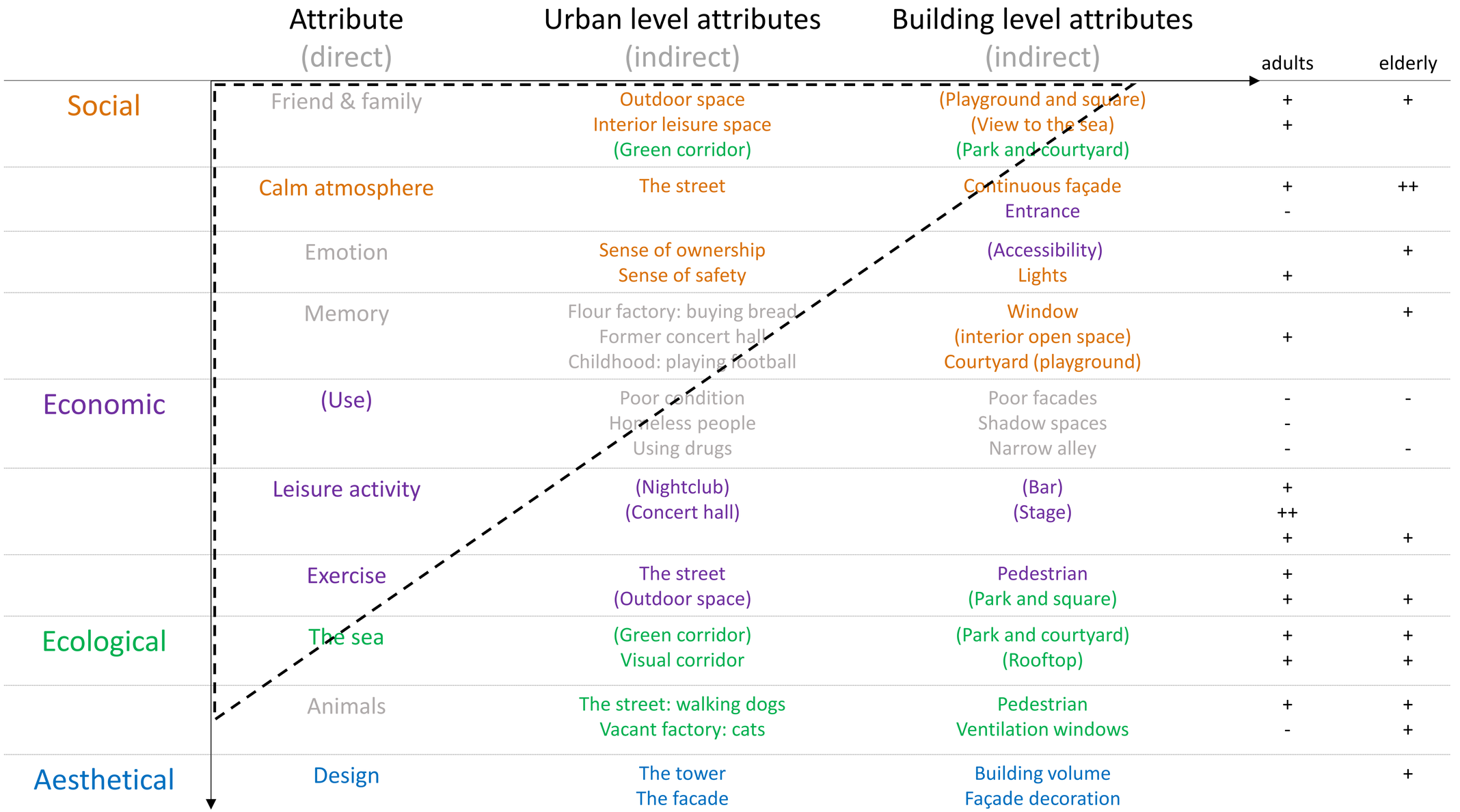


Result 2

Sub-question: What are the differences between the elderly and adults' place attachment?
There is a translation from (I) social attributes to (I) relation attributes between adults and the elderly.



Design proposal



Design proposal

Target: improve place attachment

1. (ADD) Make use of the outdoor space with nature and potential indoor activity spaces to support people's interaction with family and friends, relaxation, and exercise.

2. (KEEP) Activate the abandoned areas without affecting the calm atmosphere of the neighborhood. Introduce new leisure use for the young generation without affecting the elderly's memory and sense of ownership.

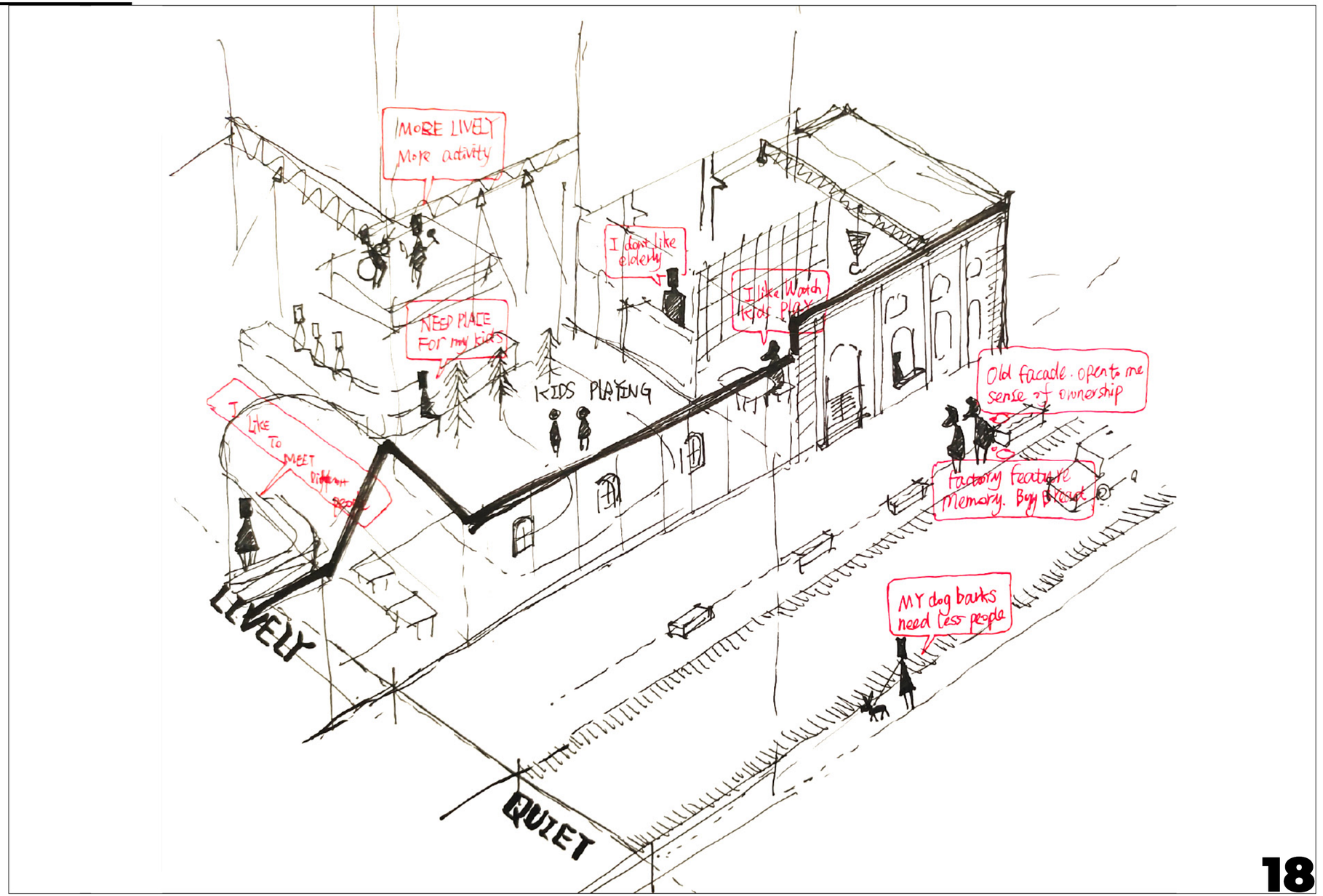
Research to design

Value - social and ecological

Attribute - milling factory

Research - cultural mapping

Desgin - design proposal



Part 2

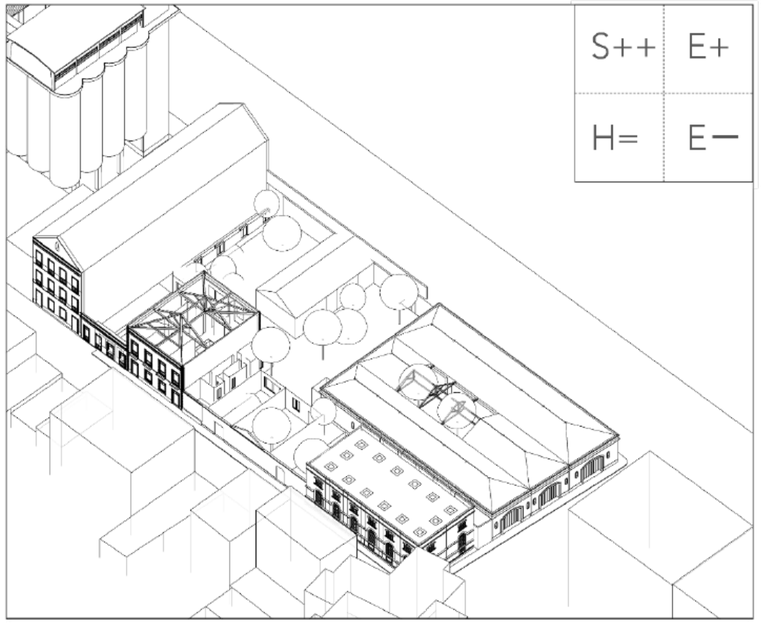
Value-based redesign

Block analysis

Entertainment use

(ecological value +)

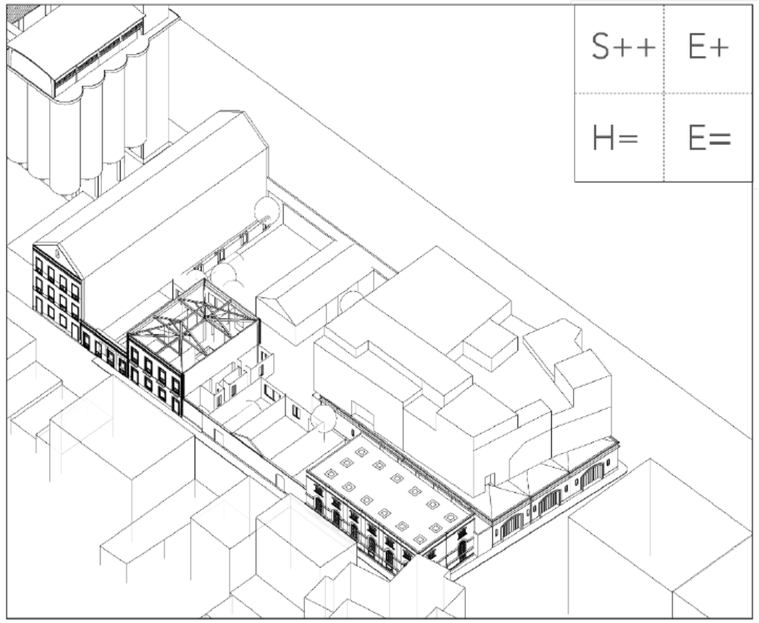
no waterfront



Commercial use

(social value +)

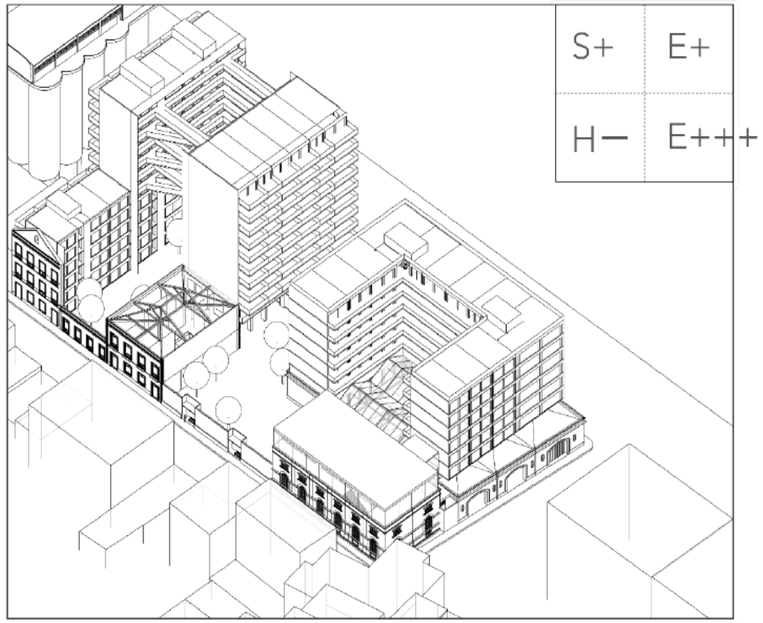
no public center or high-density area



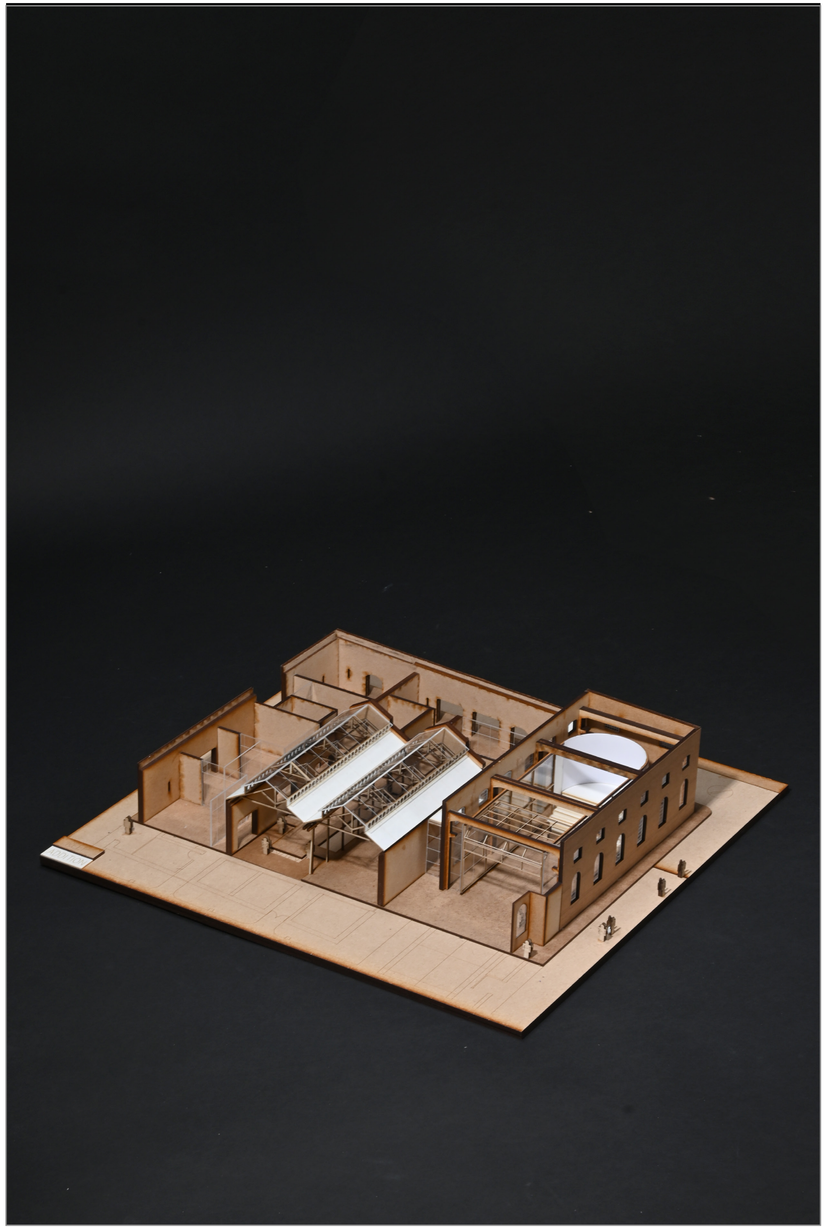
Residential use

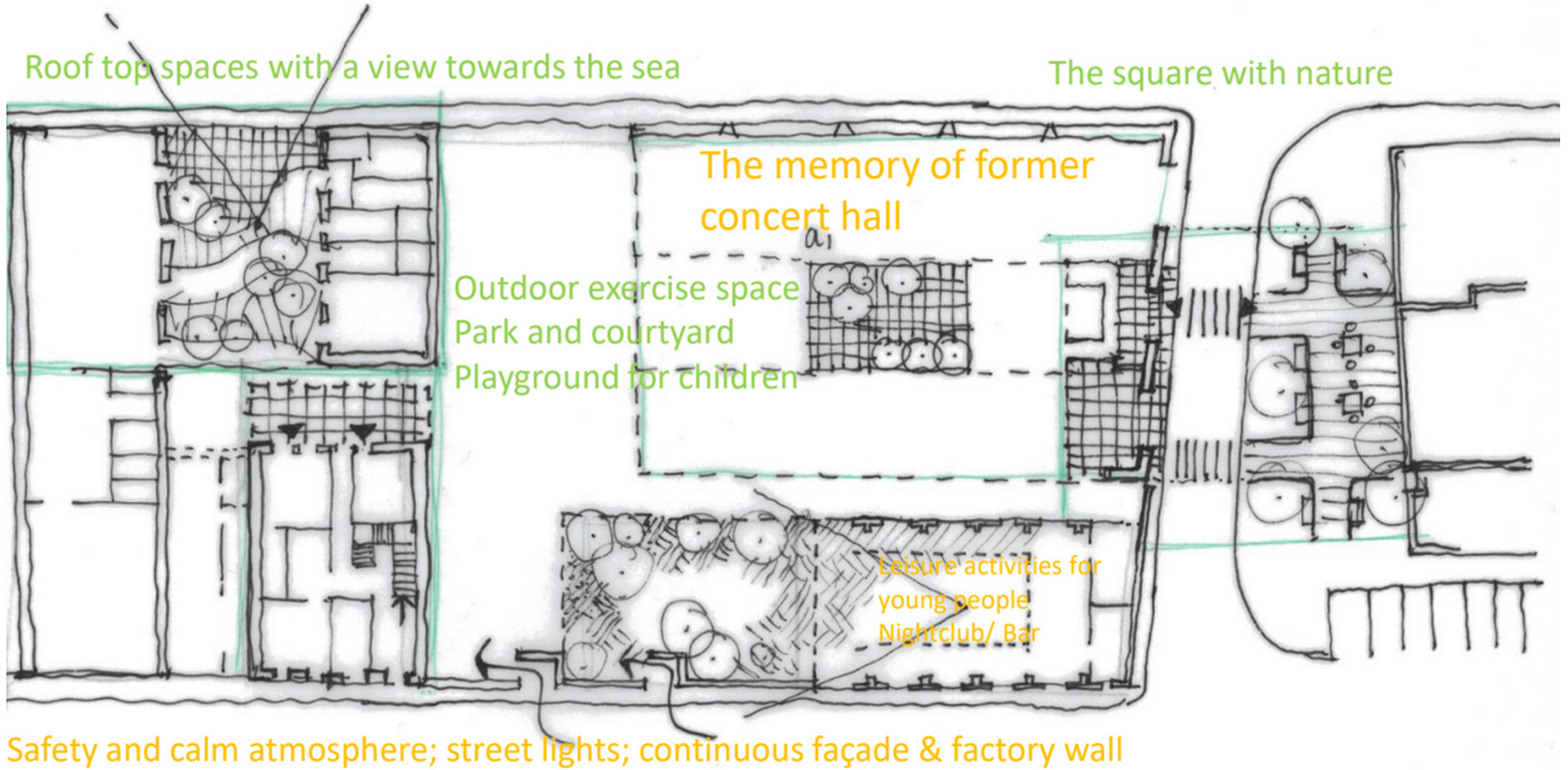
(economic value ++)

make use of the accessibility



Block analysis





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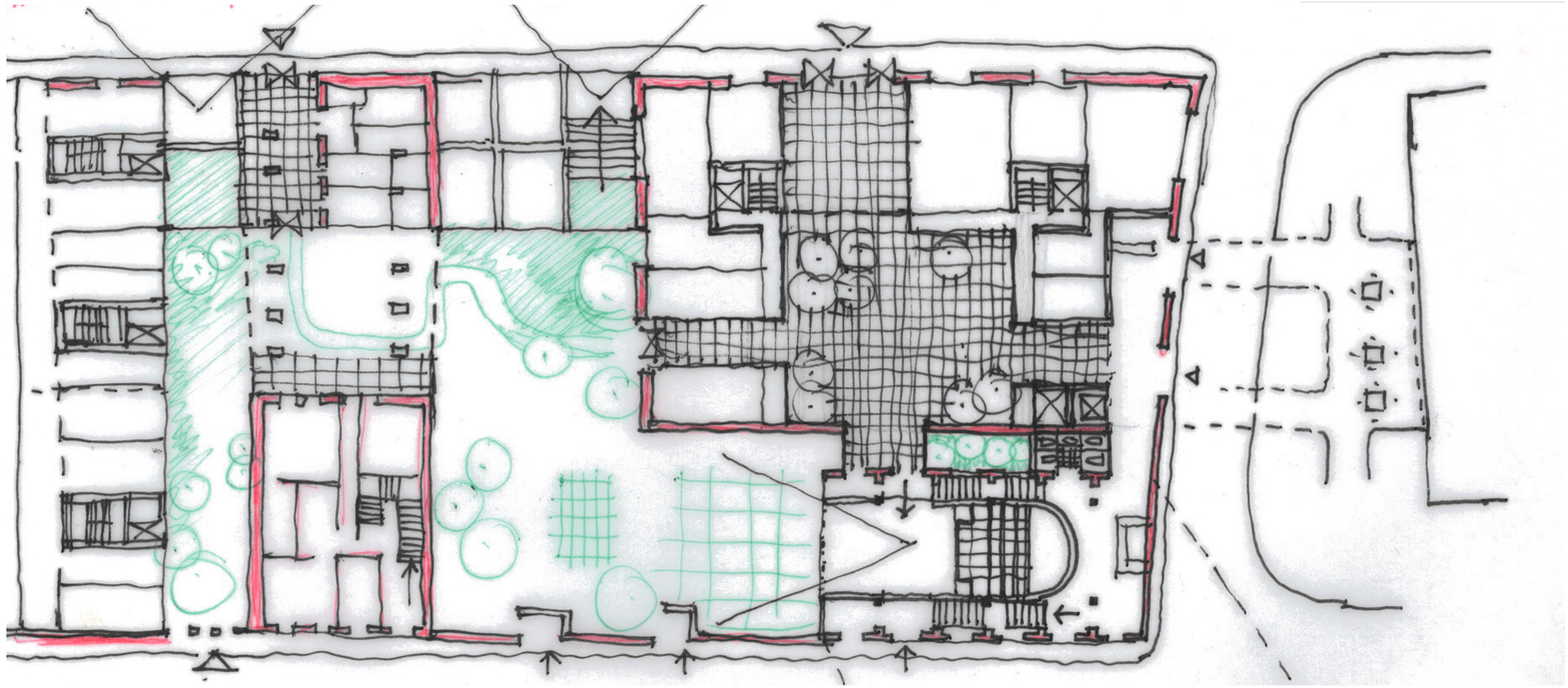
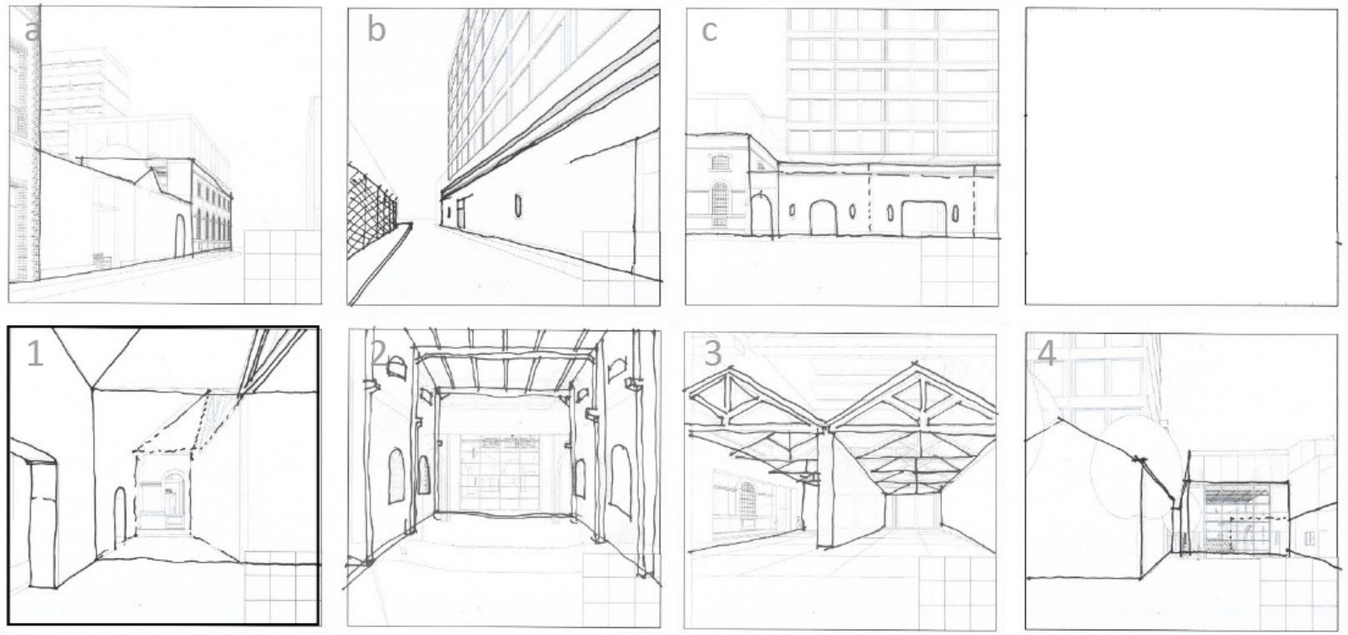
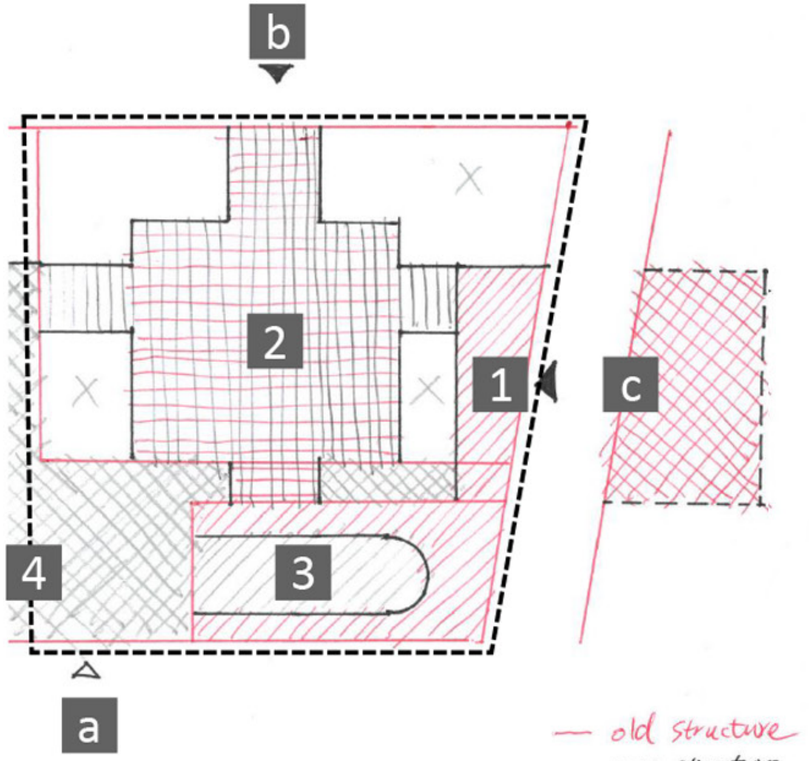


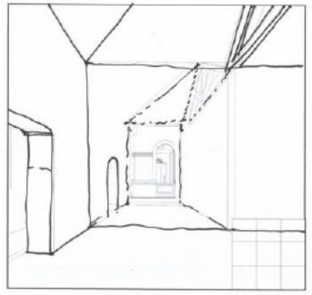
Value-based scenarios

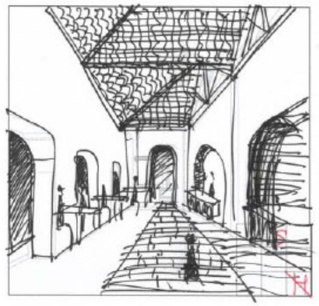




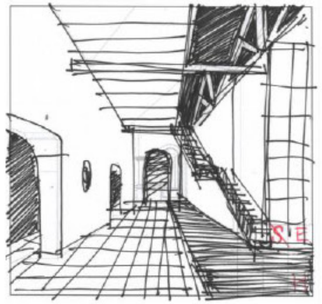
1 west entrance & café
2 public living room
3 multifunctional theater
4 outdoor playground

Value-based scenarios

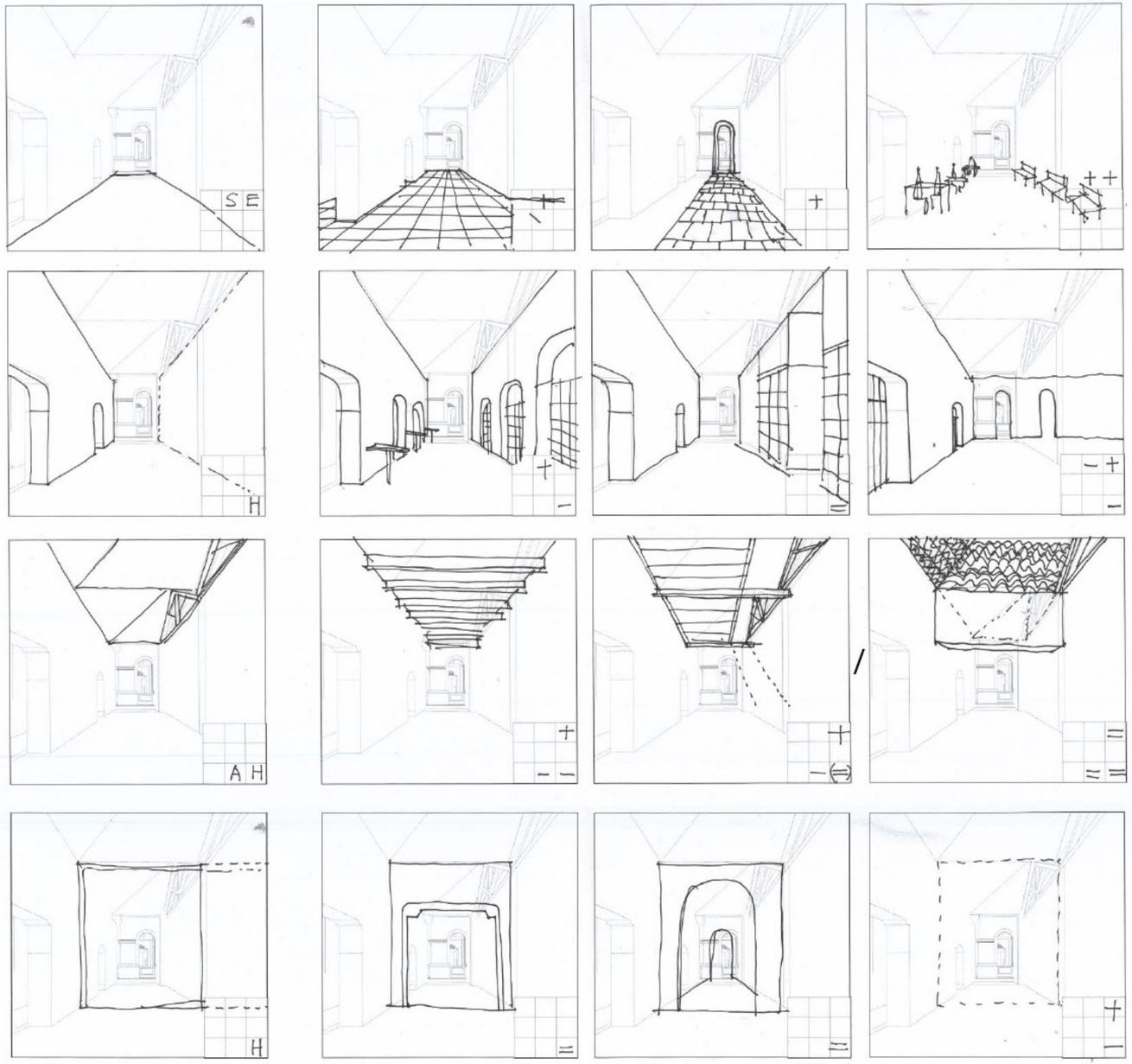




Scenario 1-1
Historic value



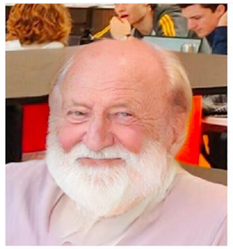
Scenario 1-2
Economic value



Value-based scenarios

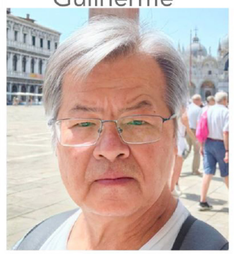
"4th age"

The period of dependancy and frailty



Guilherme

Sara

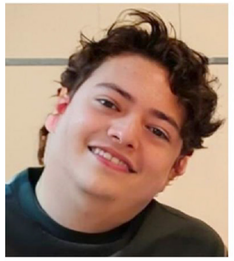


Estatao

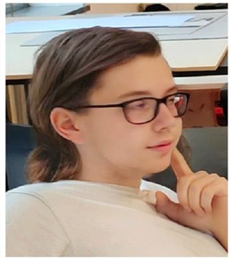
Maria

"2nd age"

The period of responsibility and work life



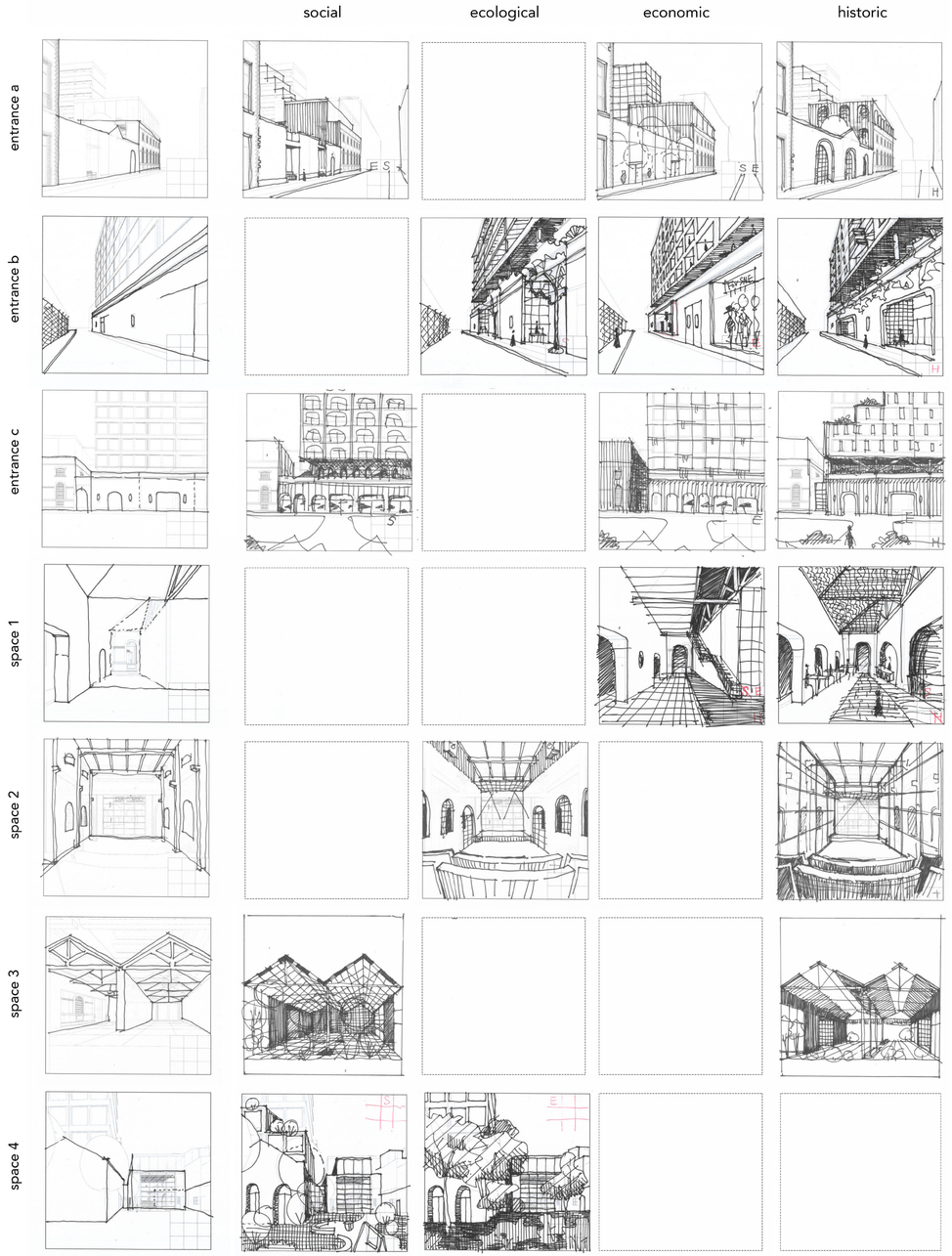
Joao Costa



Roio

Elena

Judite Bandeira

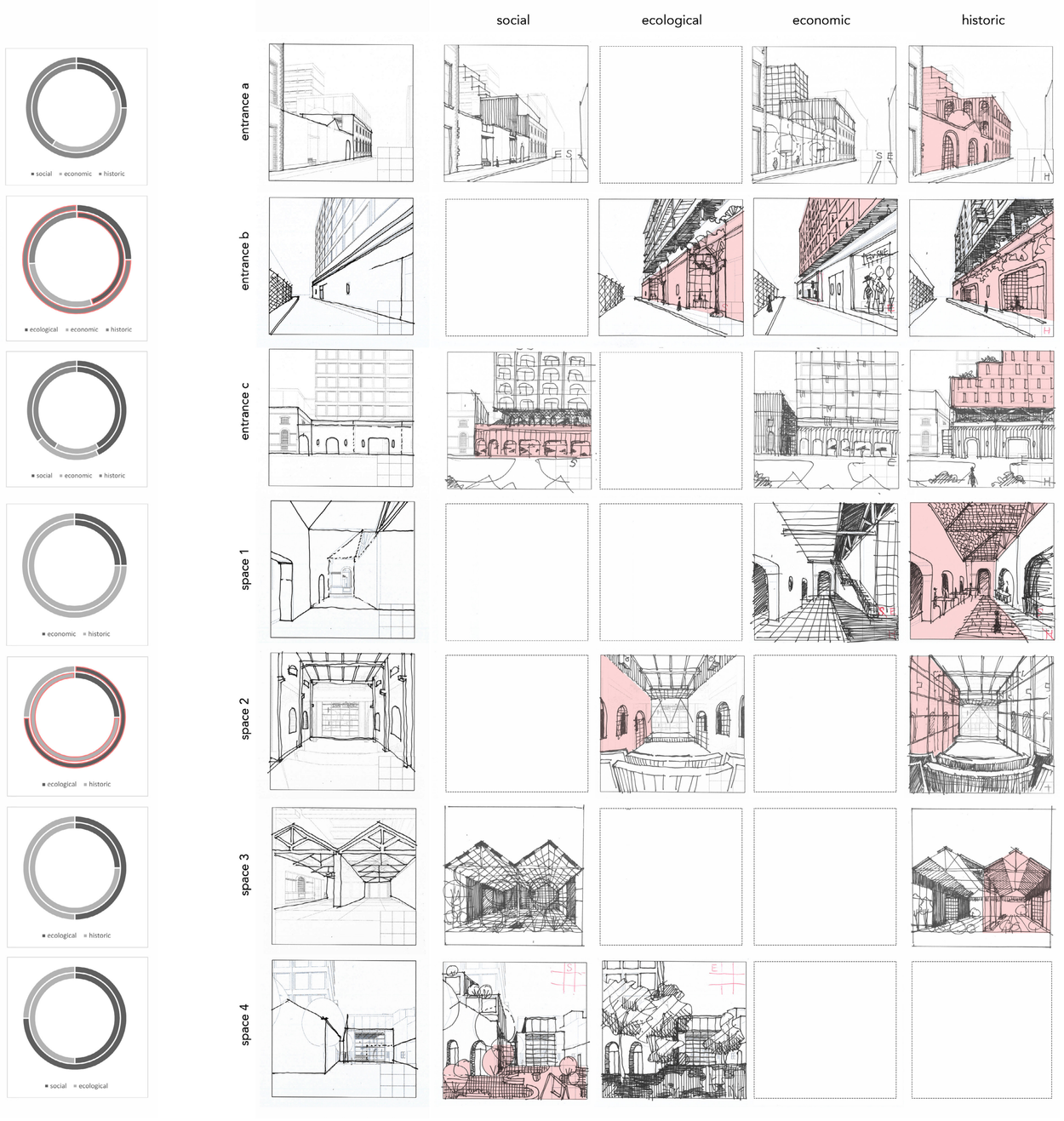


Research results

The keywords for preferences:

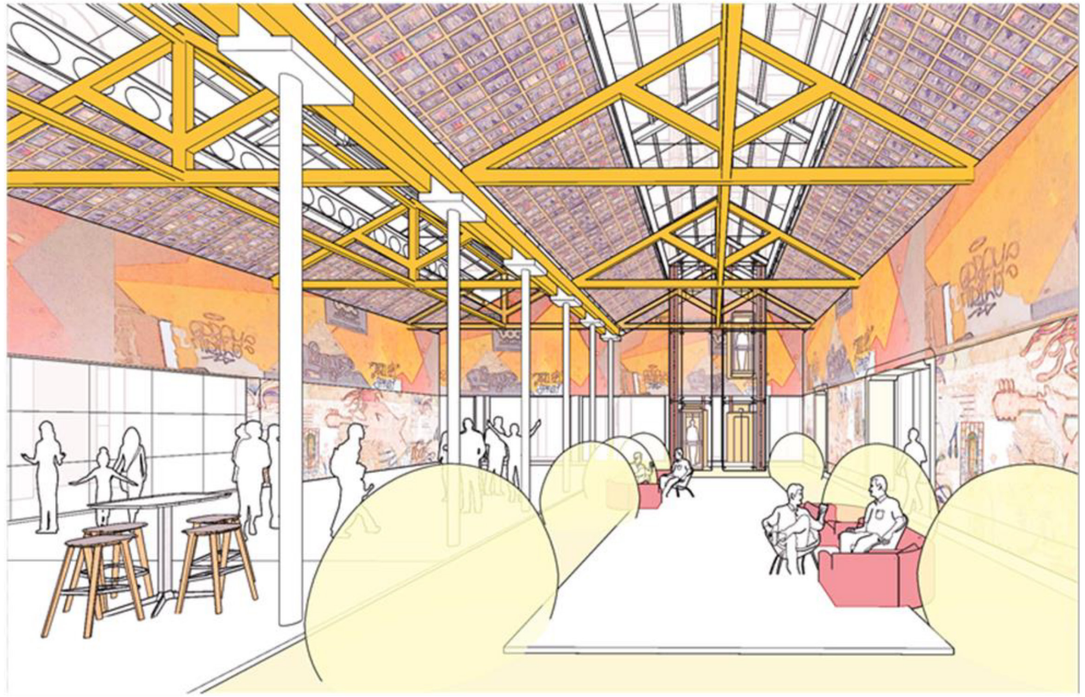
The typical arch form (entrance a); openness of the ground floor and lively building outline (entrance c).

Keeping the original roof (space 1); the well-organized order from the former division of space (space 3); more furniture to support activities happening (space 4).



Research results

The application of preferences:
“Fruit salad problem” & further decoding



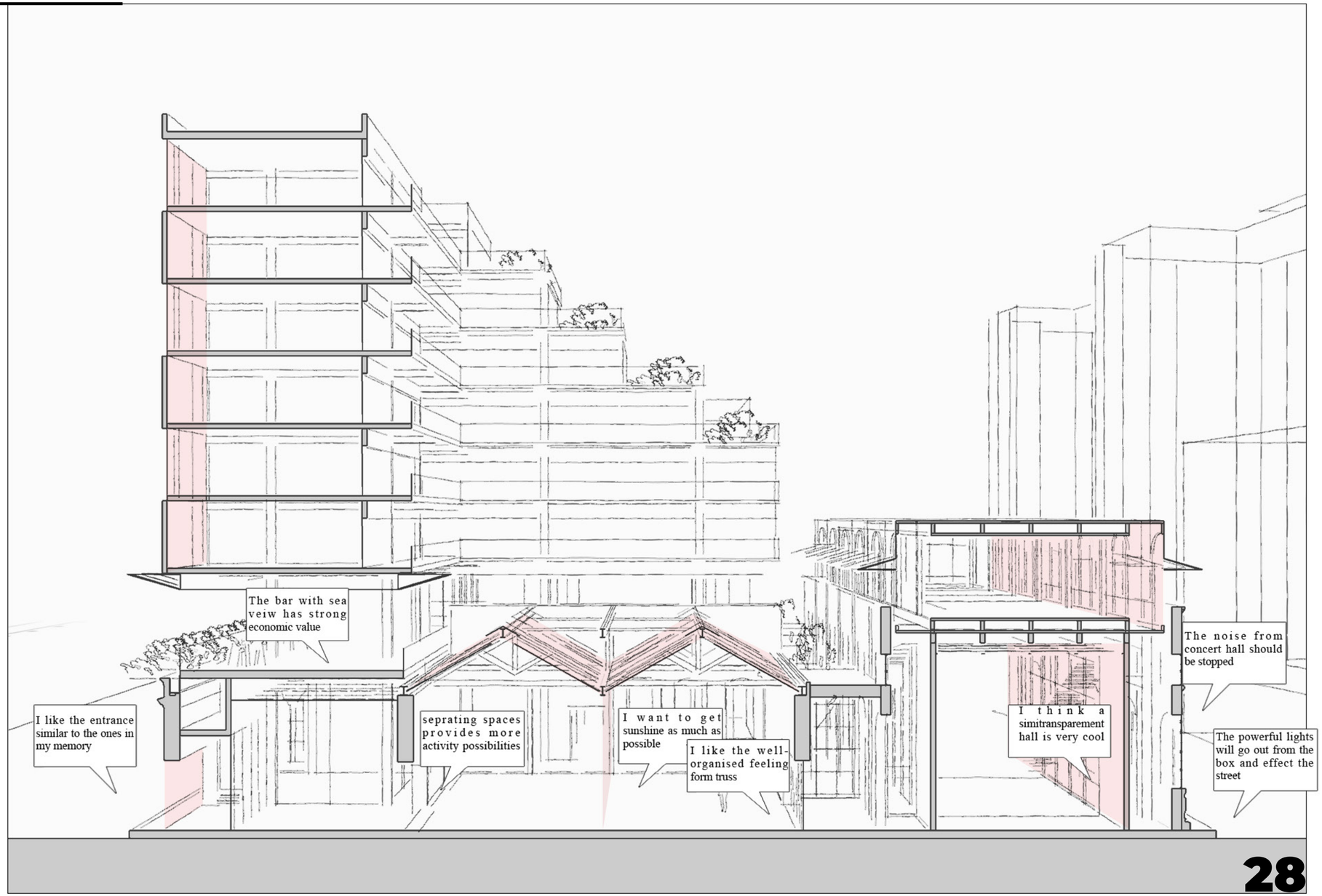
Research to design

Value - social and ecological

Attribute - 7 core spaces

Research - value-based scenario

Desgin - controversial enclosure



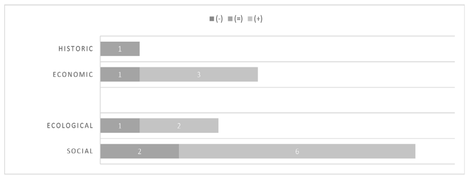
Part 3

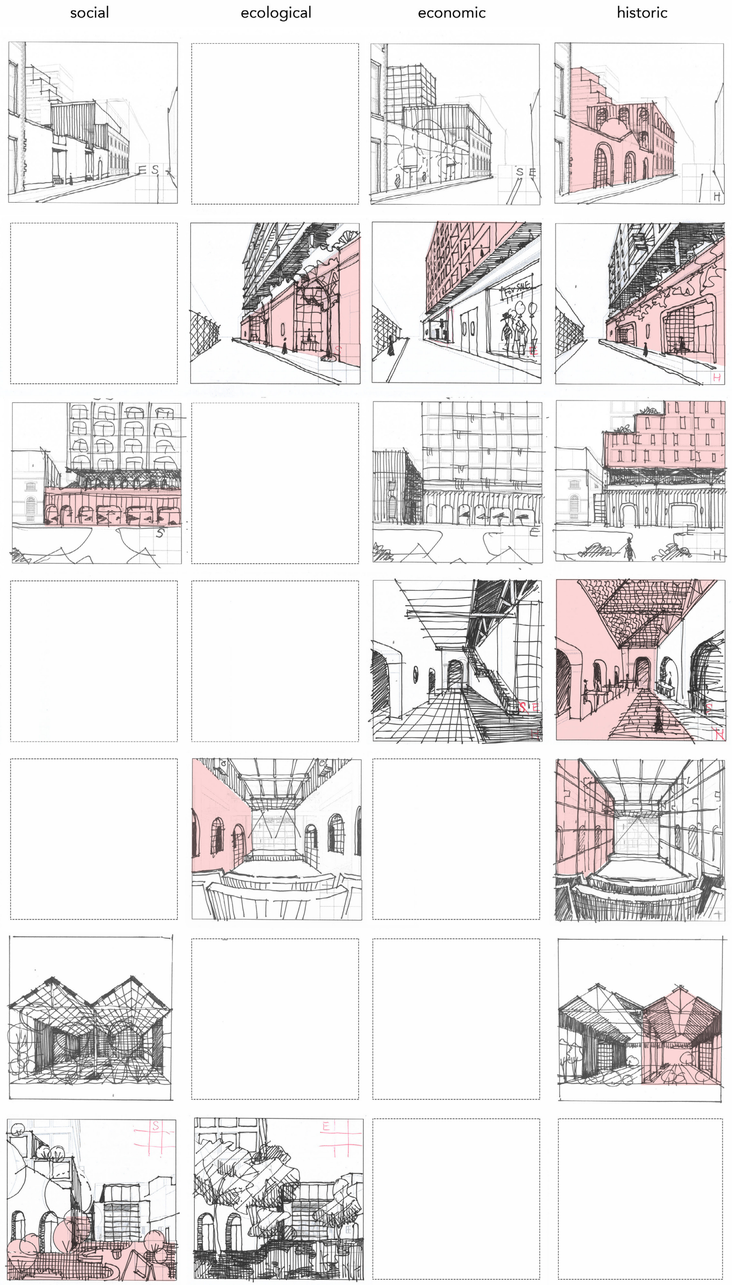
Heritage impact assessment

HIA approach

The general value-metioned frequency from heritage impact assessment:

Historic value: from 15 to 10
Economic value: from 7 to 25
Social value: from 8 to 44
Ecological value: from 4 to 19





HIA results

This project has caused a “moderate change” to the original site, around 40% of the attributes have been changed.

It greatly improves the ecological value and social value of the site at the cost of reducing part of the historical value.

Impact grading	Description
Major	Change to key historic building elements that contribute to OUV, such that the resource is **totally altered**. **Comprehensive changes** to the setting.
Moderate	Changes to many key historic building elements, such that the resource is **significantly modified**. Changes to the setting of an historic building, such that it is **significantly modified.**
Minor	Change to key historic building elements, such that the asset is **slightly different**. Change to setting of an historic building, such that it is **noticeably changed**.
Negligible	**Slight changes** to historic building elements or setting that hardly affect it.
No change	**No change** to fabric or setting.

No change	Negligible change	Minor change	Moderate change	Major change
0%	1% - 10%	11% - 30%	31% - 70%	71% - 100%

40%

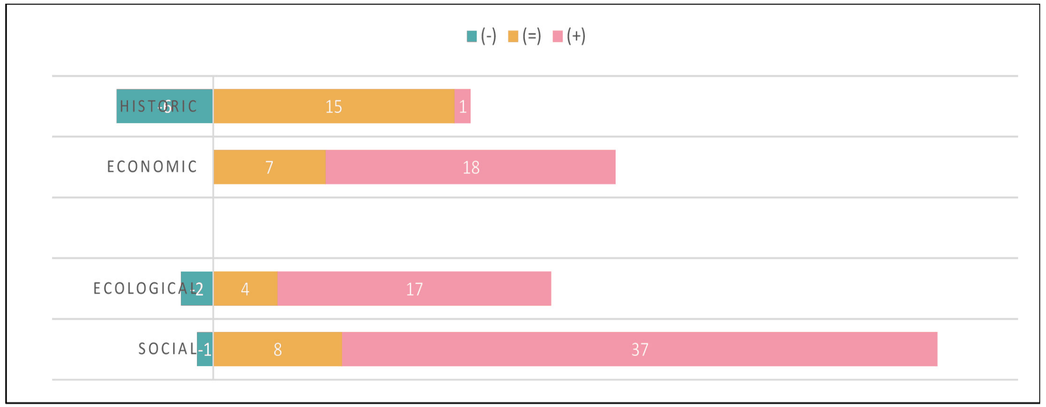


Fig 3-1. 5-scales for assessment of magnitude of impact (Yavari, P. 2015)

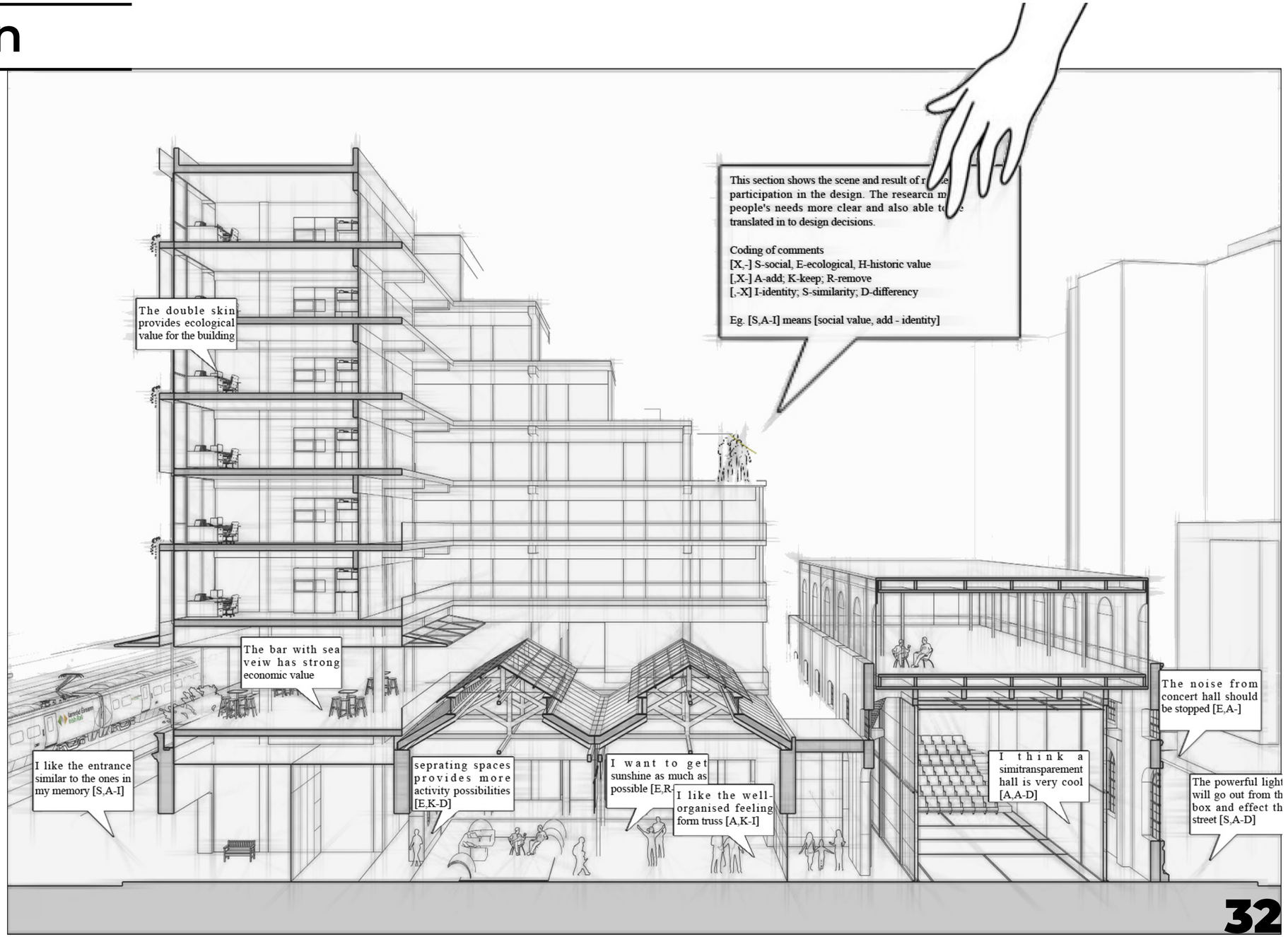
Research to design

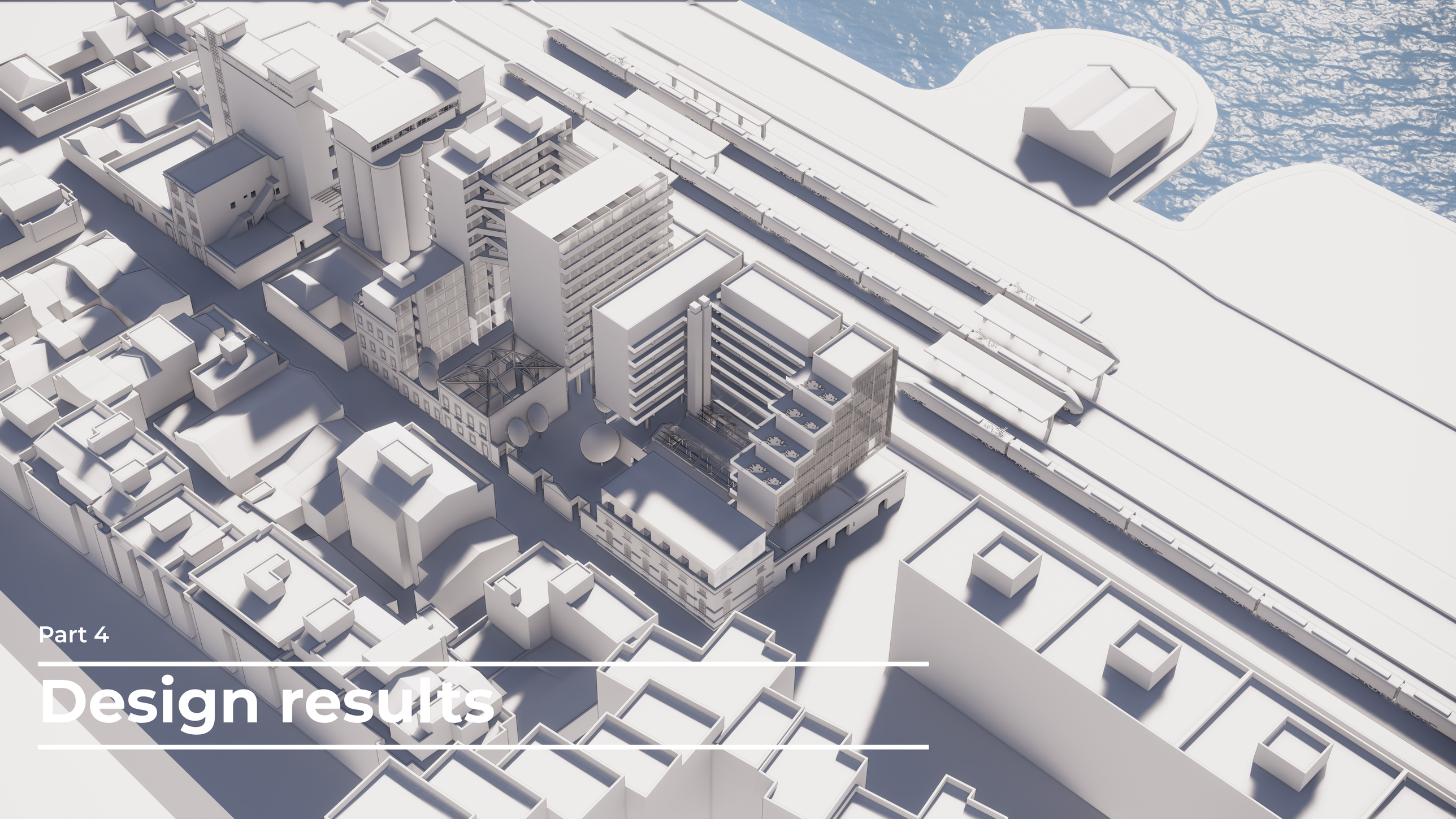
Value - social and ecological

Attribute - redesign project

Research - heritage impact assessment

Design - material & detail



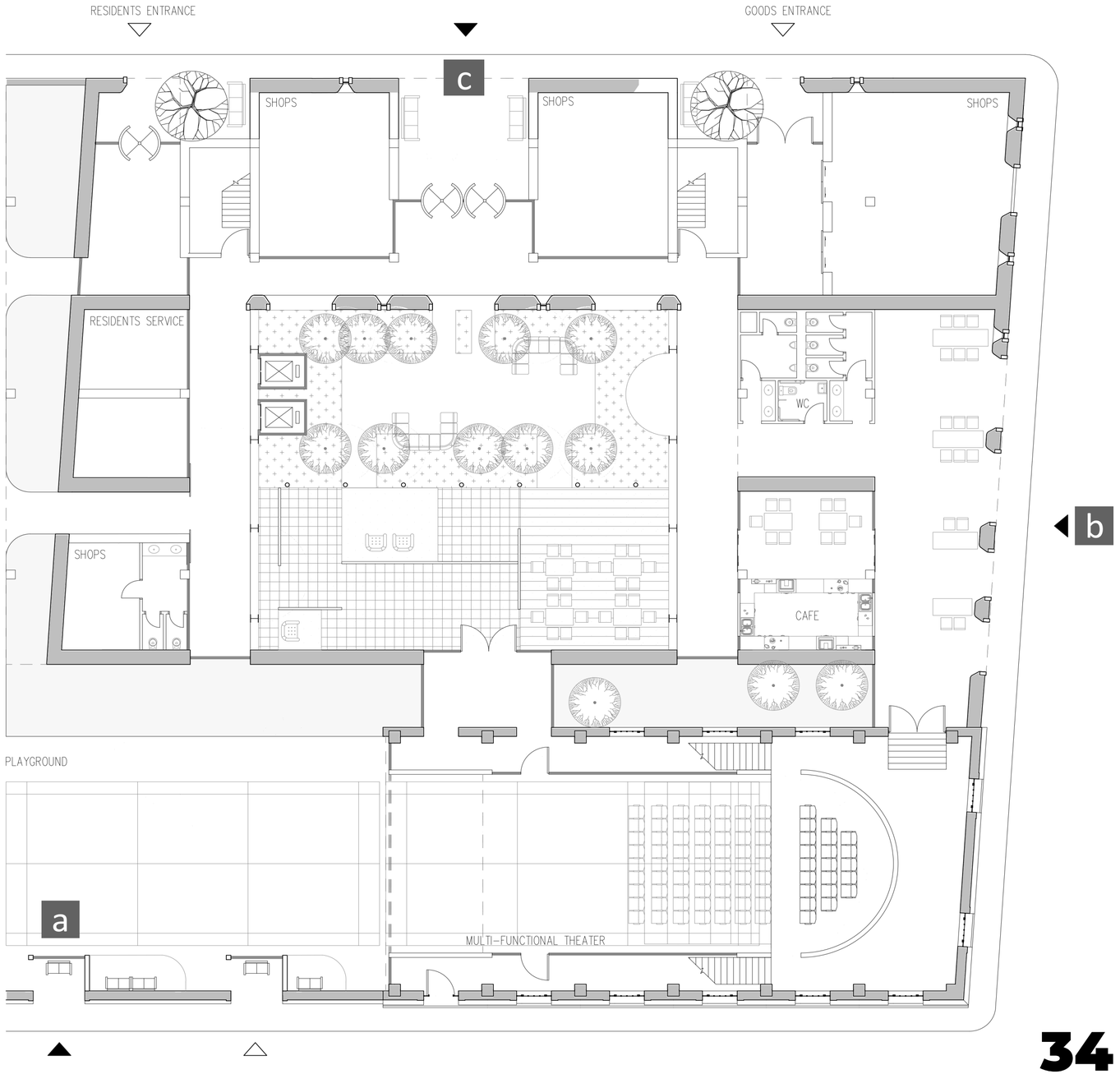


Part 4

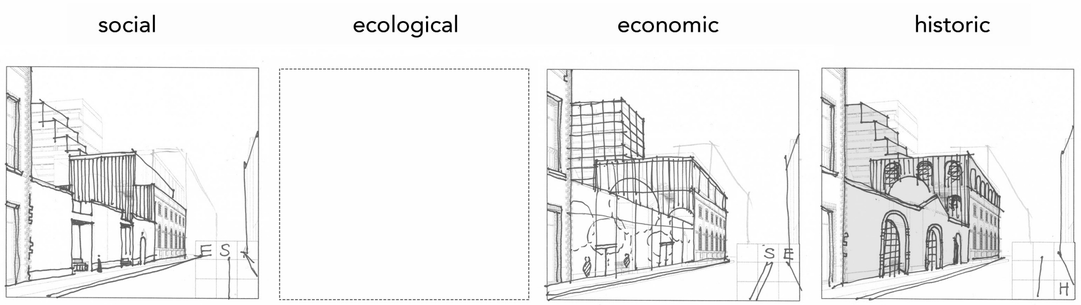
Design results

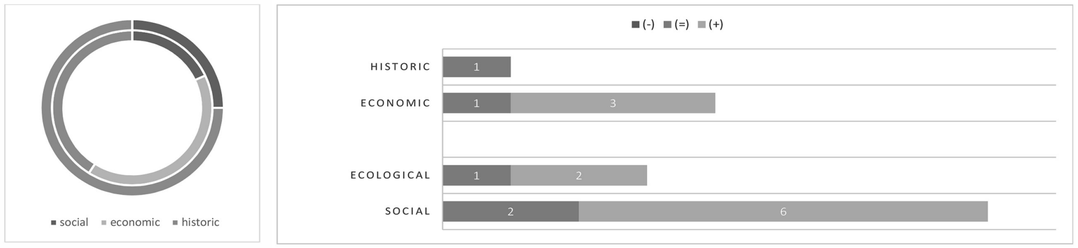
Ground floor plan (a-c)

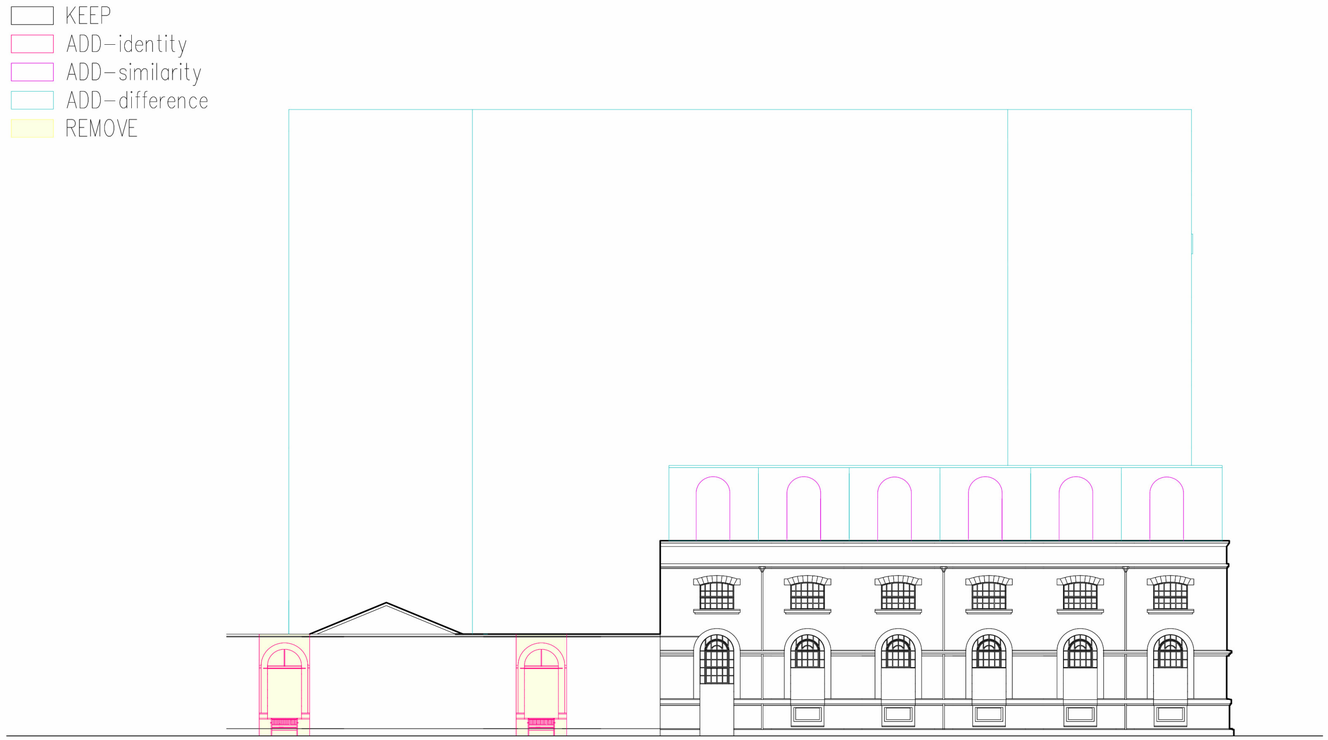
a entrance from neighborhood center (outdoor playground)
b entrance from street corner (semi-outdoor relaxing)
c entrance for dwelling building (service, dwelling)



Entrance a-north elevation



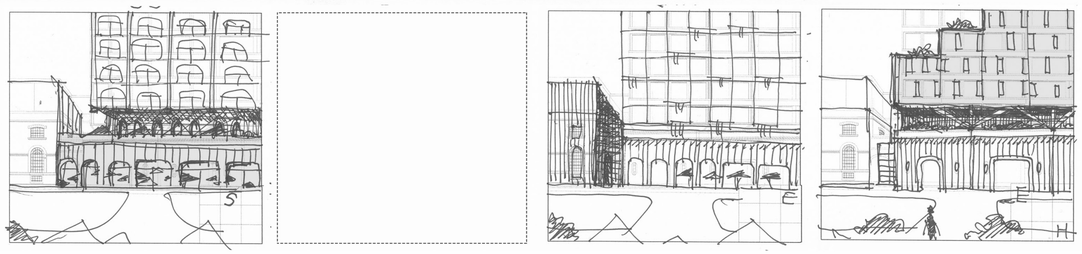




Entrance a-north elevation

Entrance b-west elevation

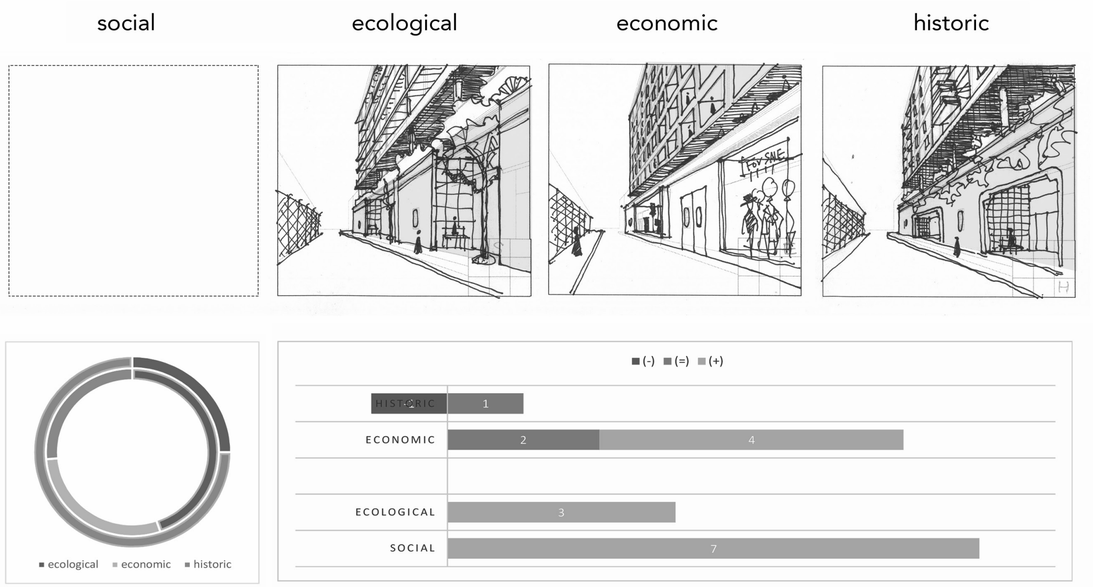
social ecological economic historic

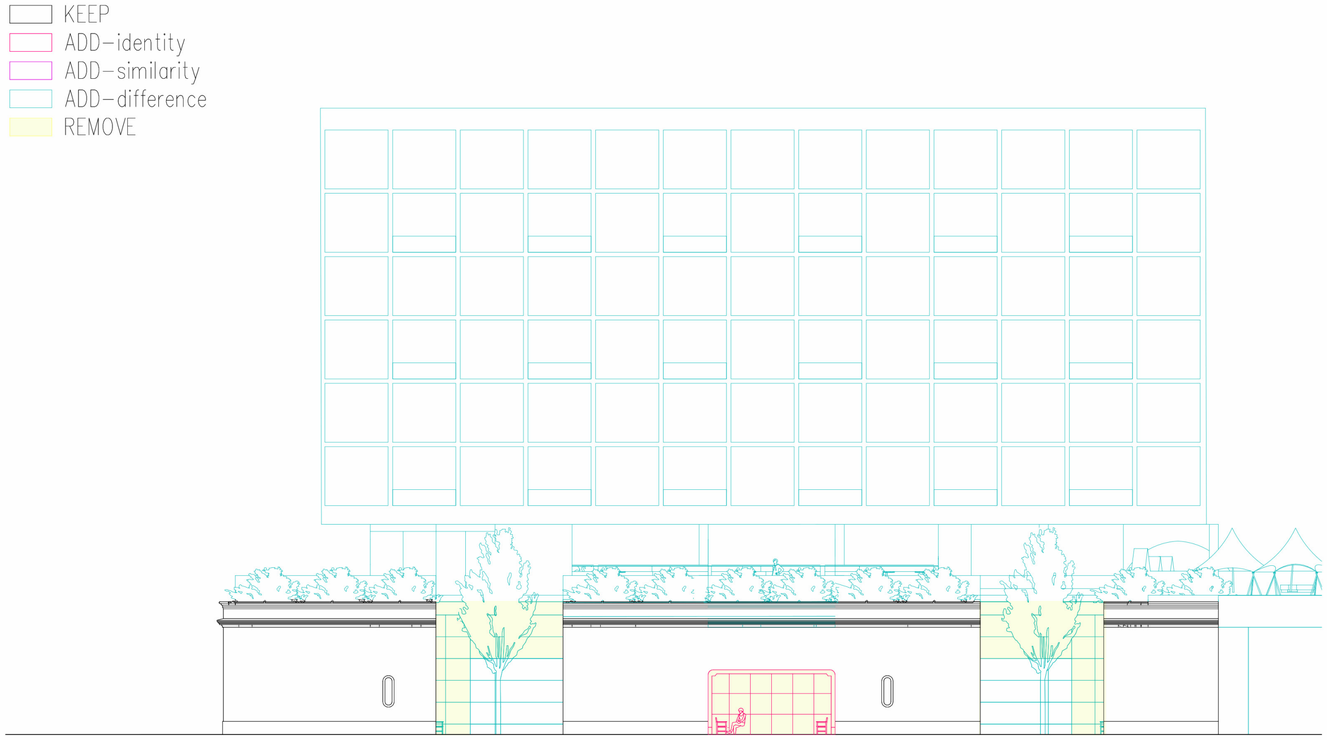


KEEP
ADD–identity
ADD–similarity
ADD–difference
REMOVE

Entrance b-west elevation

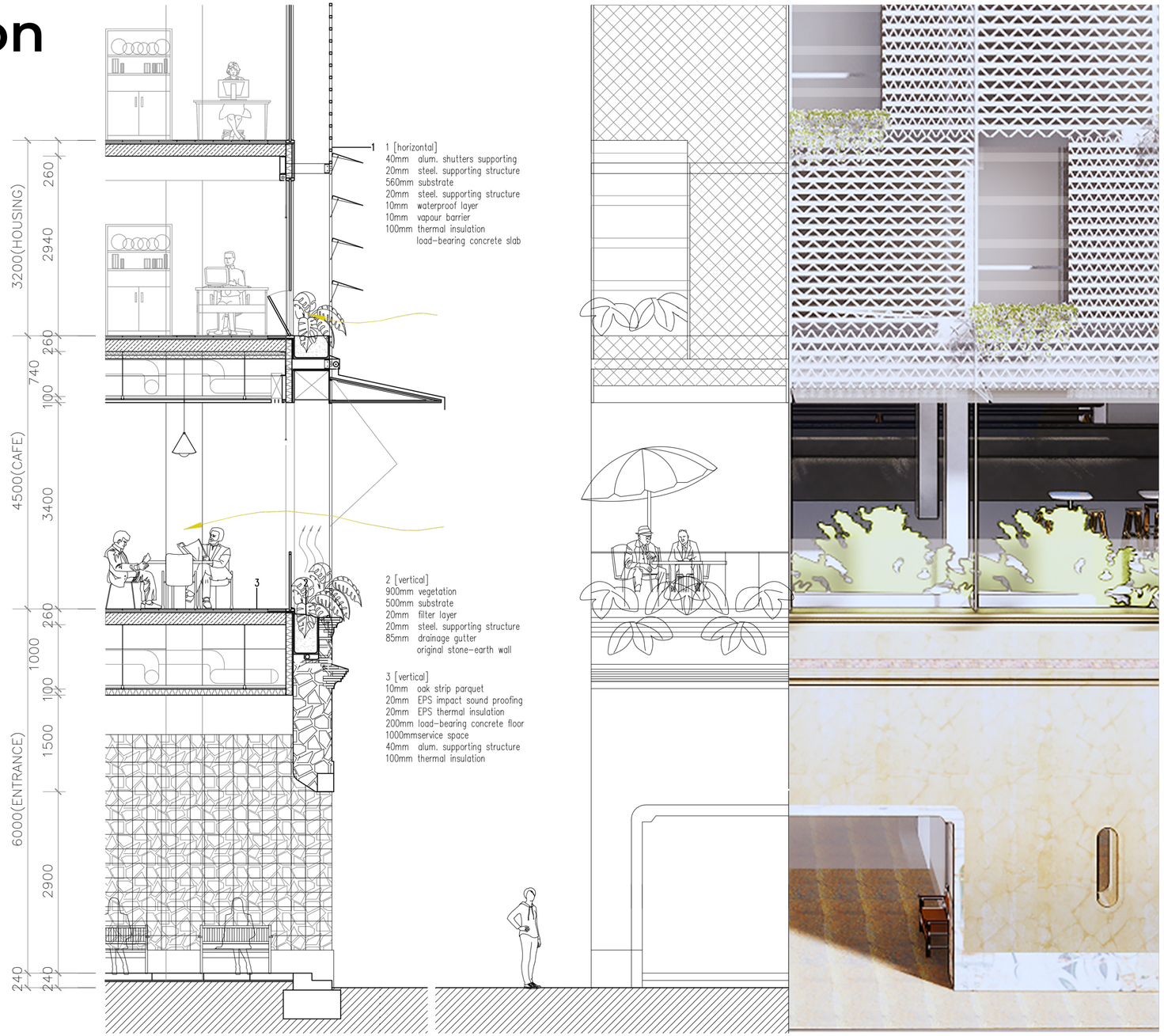
Entrance c-south elevation





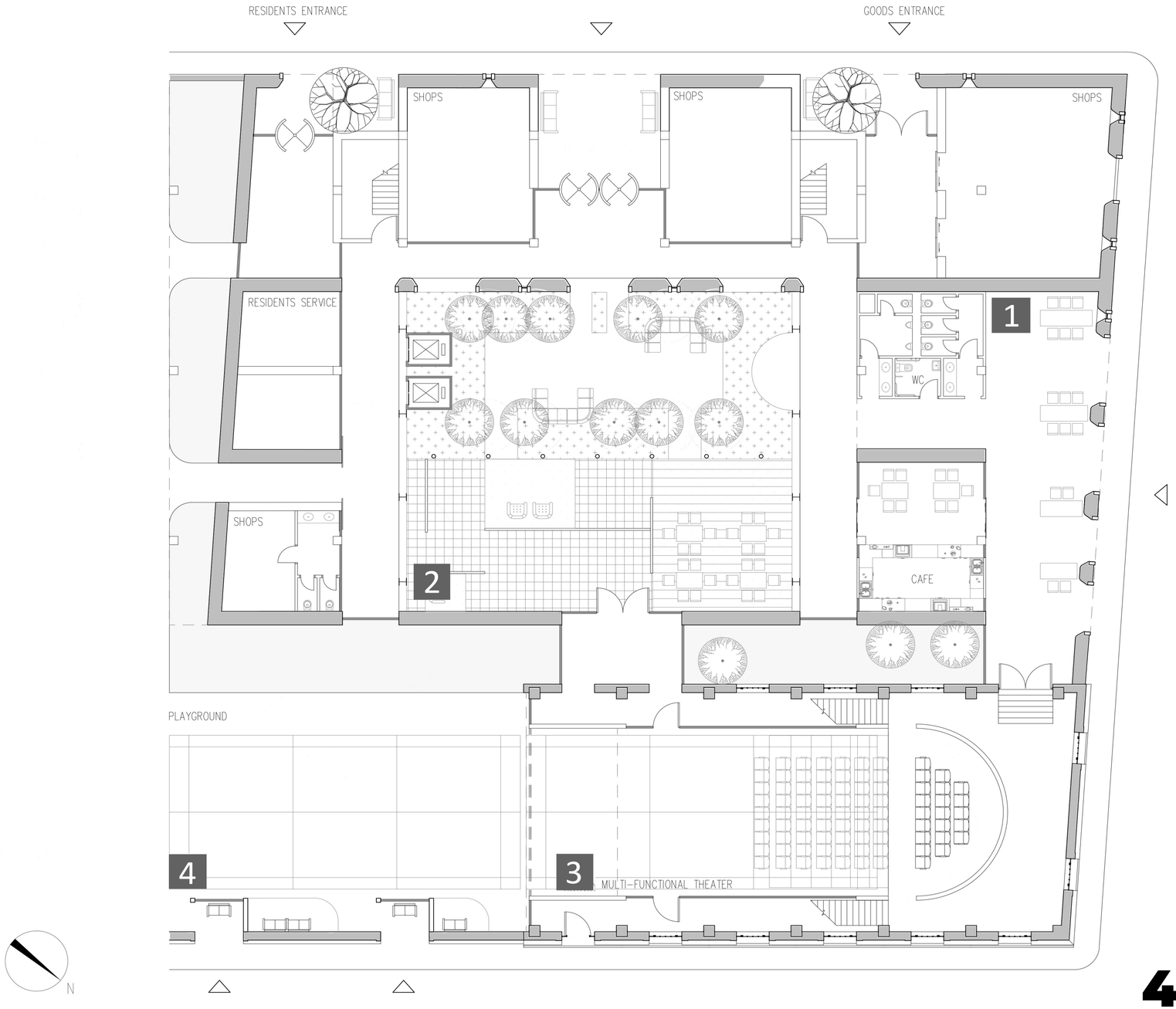
Entrance c-south elevation

Entrance c-south elevation



Ground floor plan (1-4)

1 west entrance & café
2 public living room
3 multifunctional theater
(nightclub/ indoor playground)
4 outdoor playground
(sports/ children playground)

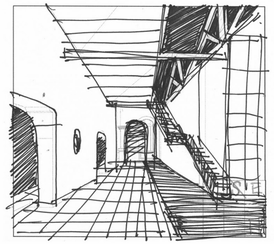


Space 1 West corridor

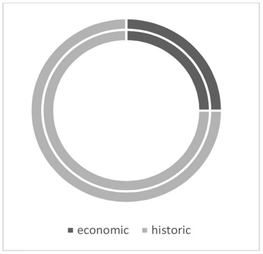
social

ecological

economic



historic



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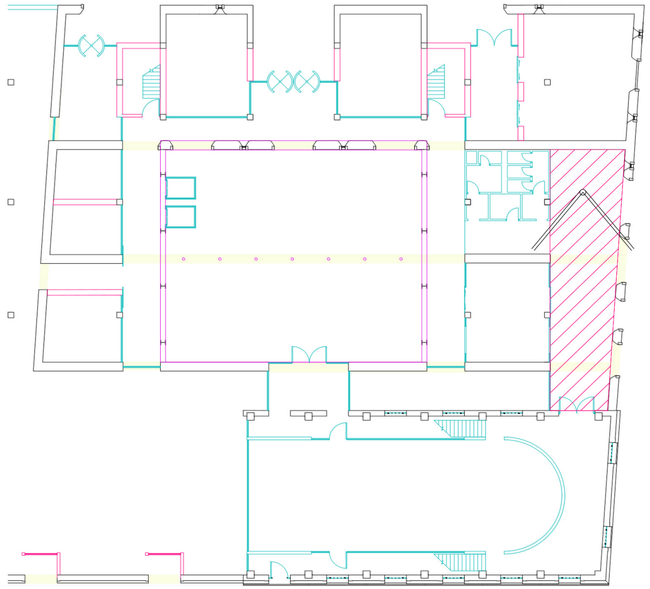
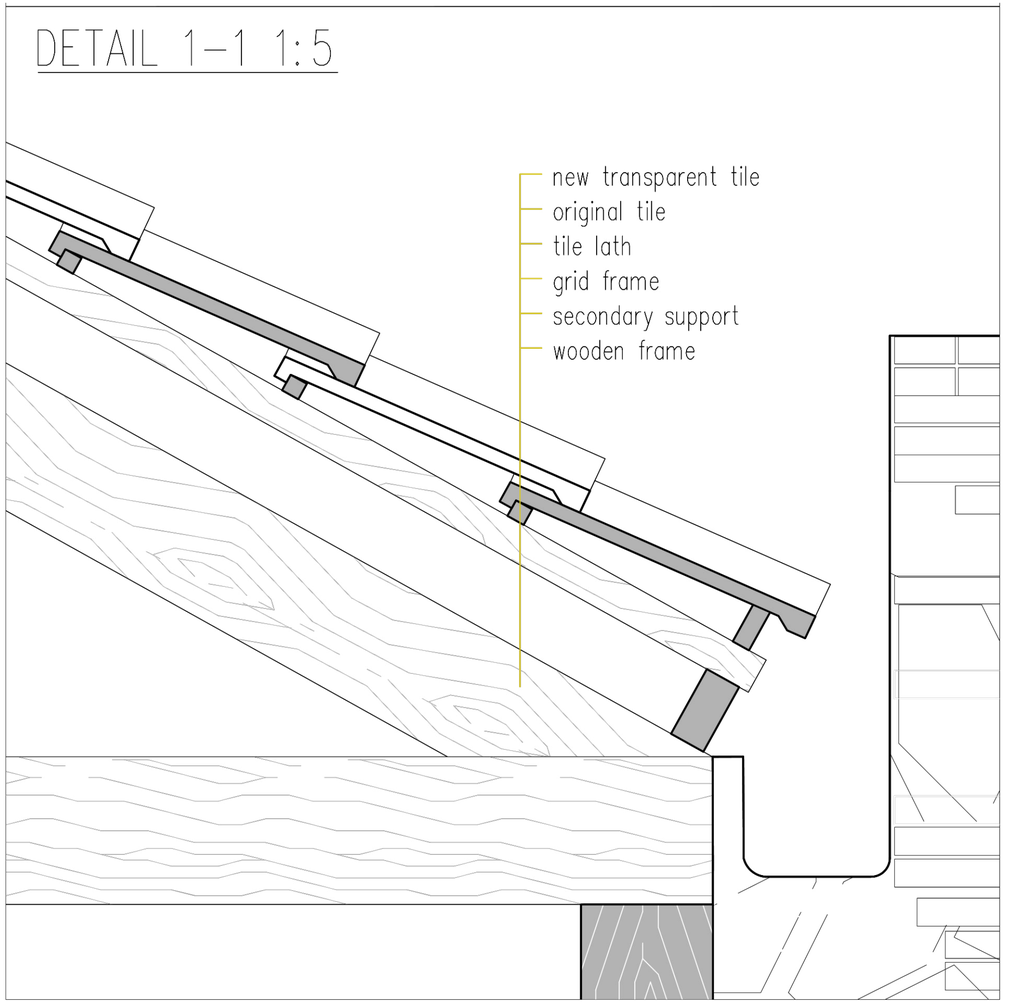
ADD-similarity
ADD-difference
REMOVE

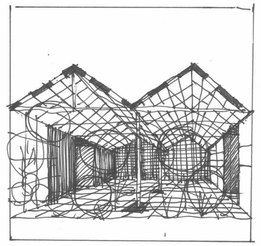


Space 1 West corridor



Space 2 public living-room

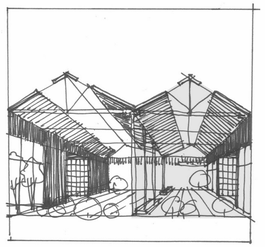
social

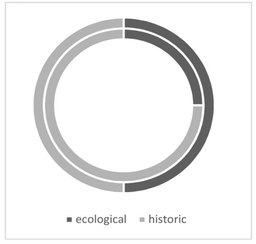


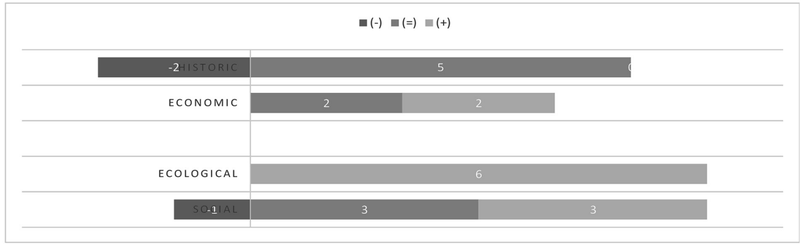
ecological

economic

historic







KEEP
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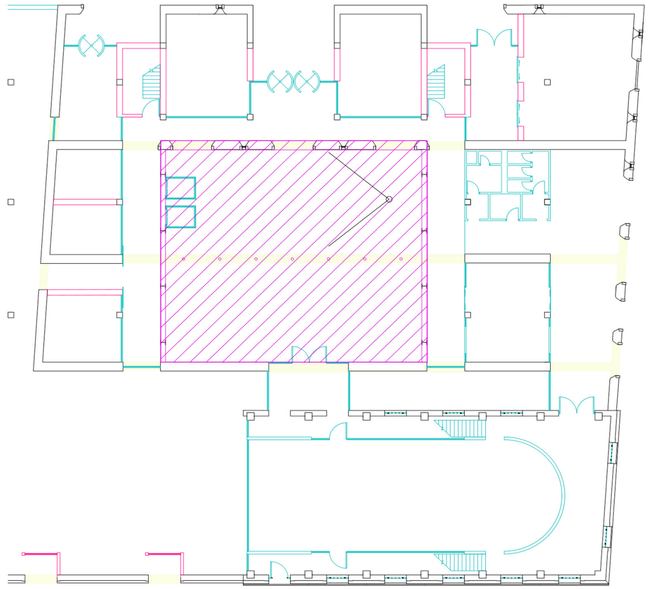
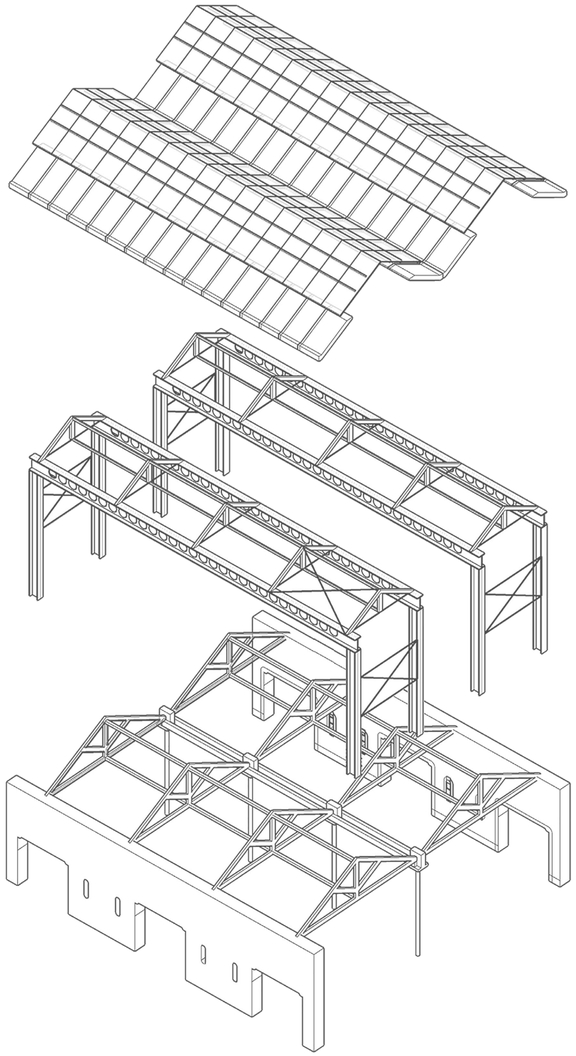
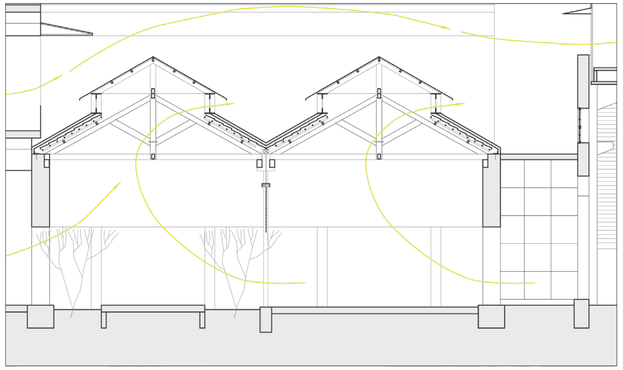
ADD-similarity
ADD-difference
REMOVE

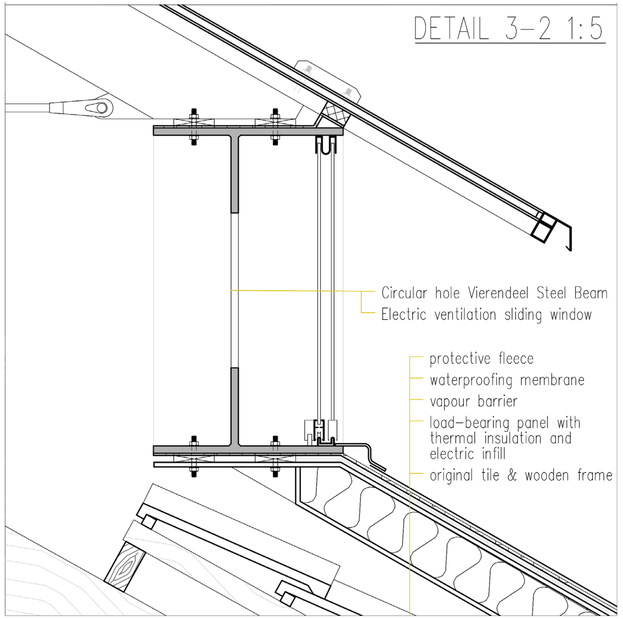


Space 2 public living-room



Space 2 public living-room





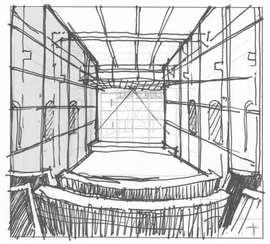
Space 3 multifunctional theater

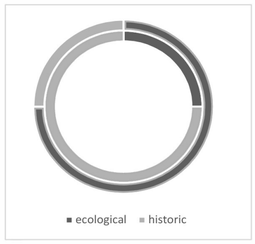
social

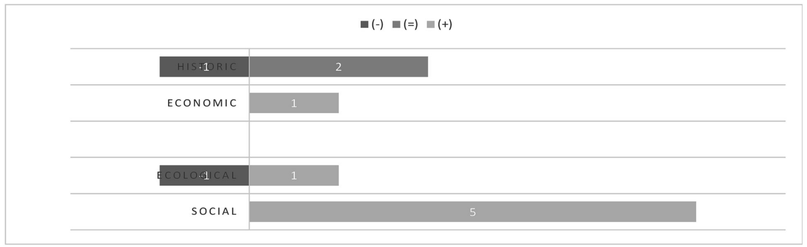
ecological

economic

historic







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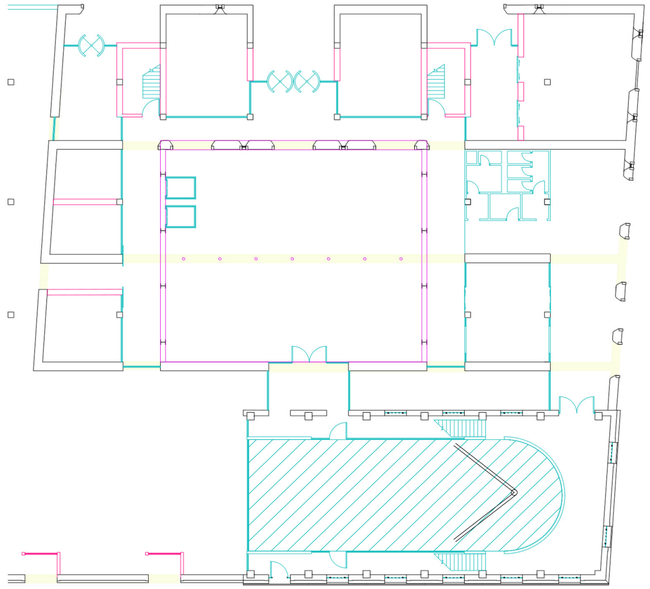
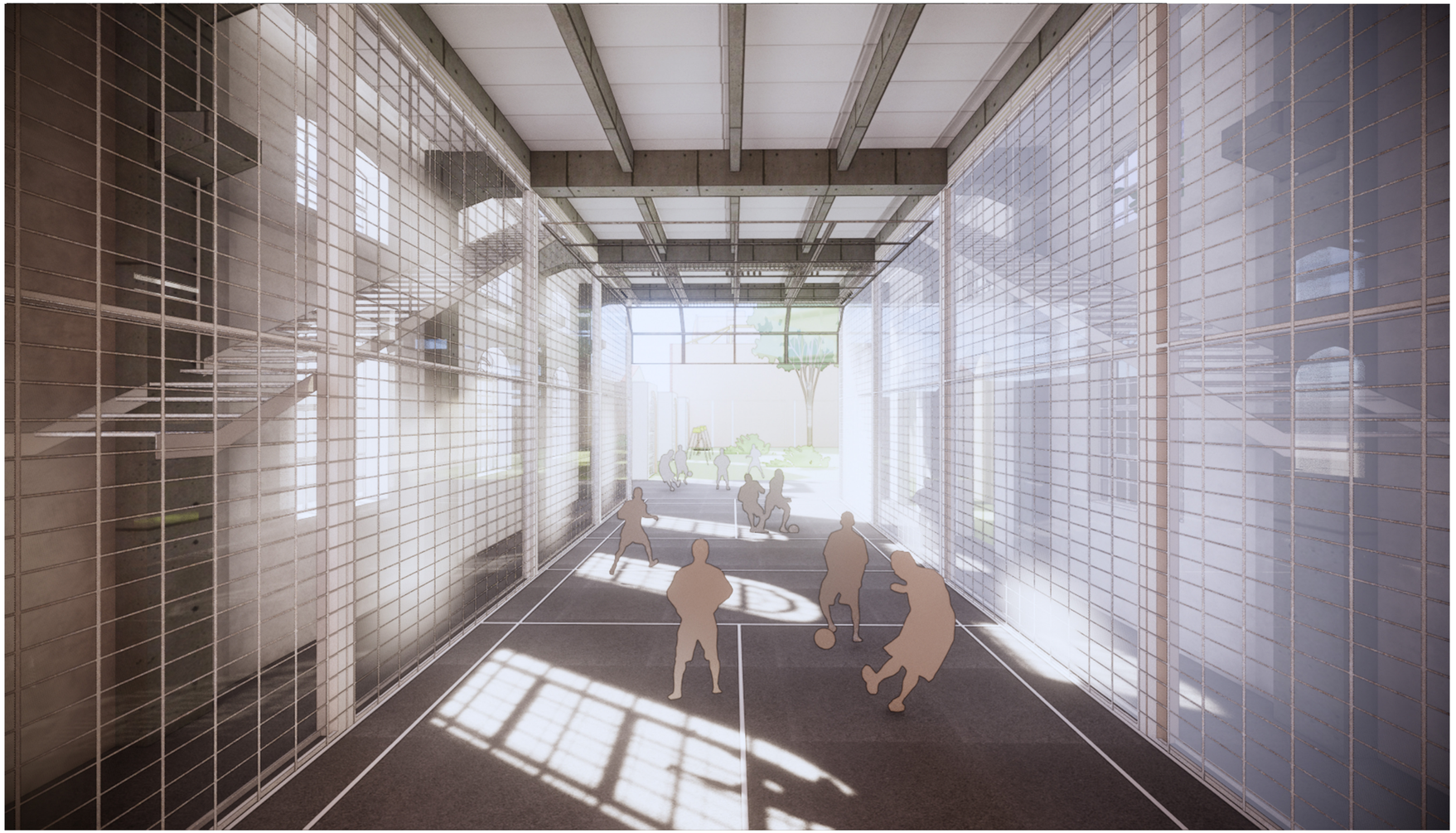
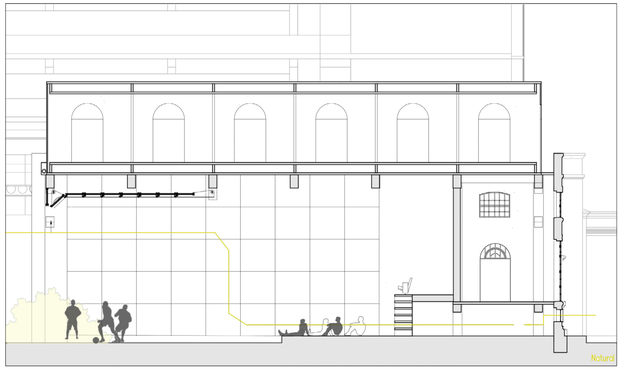
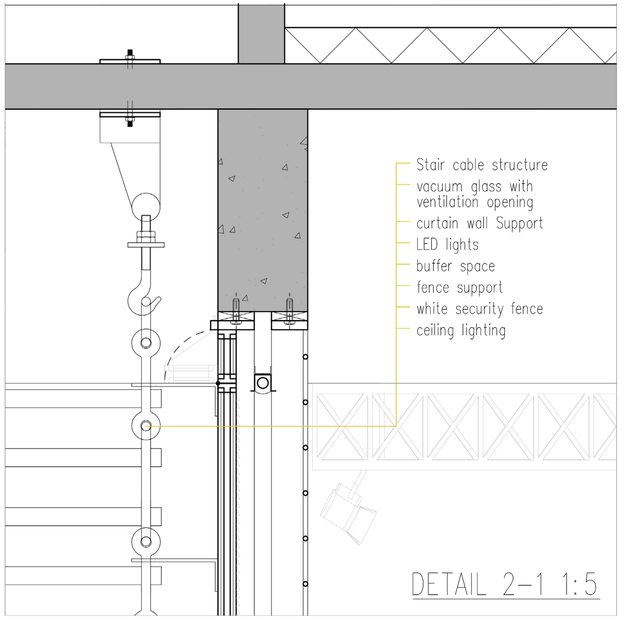
ADD-similarity
ADD-difference
REMOVE



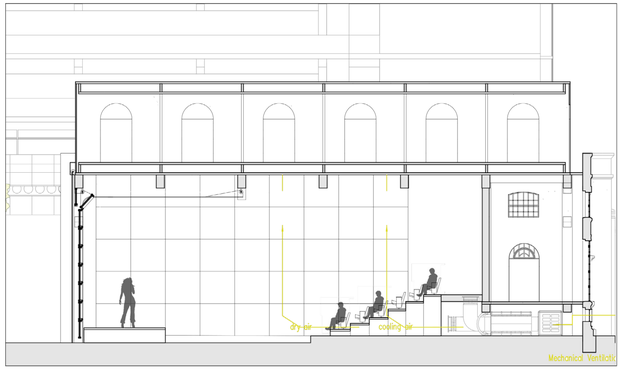
Space 3 multifunctional theater

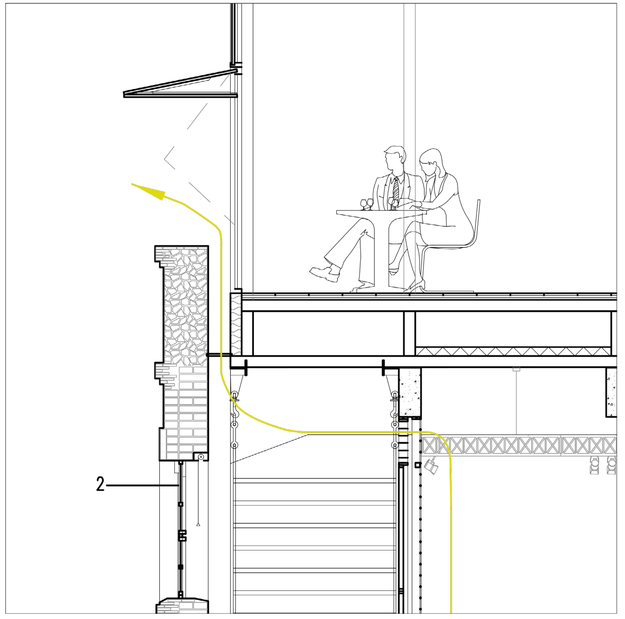






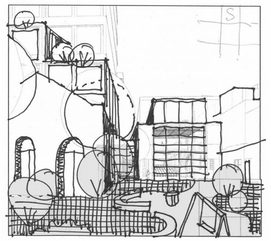
Space 3 multifunctional theater



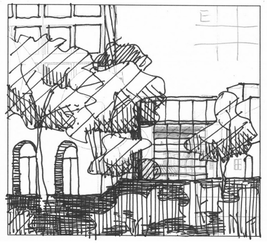


Space 4 playground

social

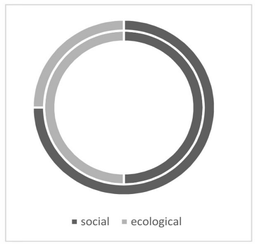


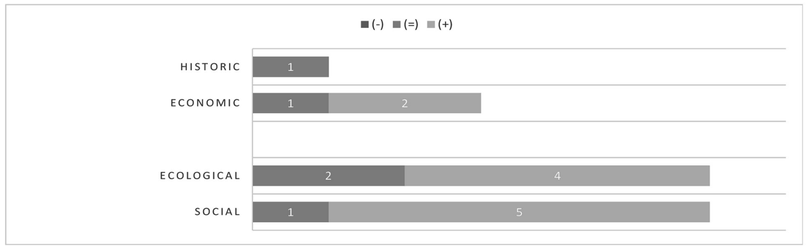
ecological



economic

historic





KEEP
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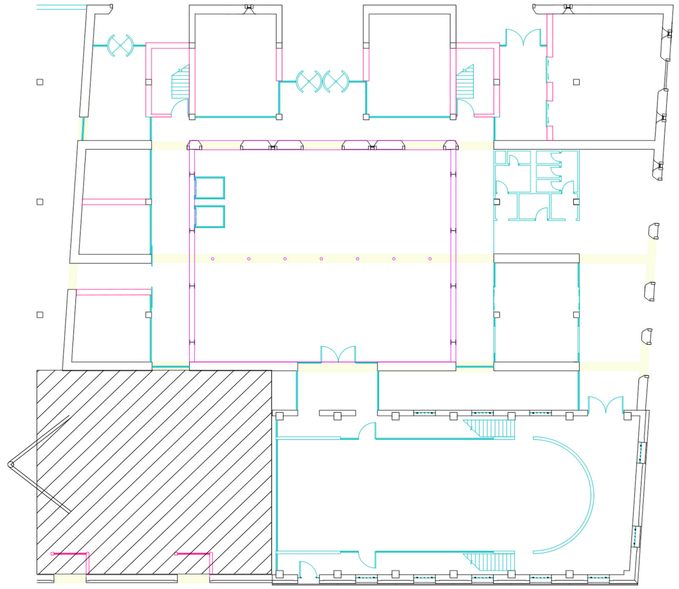
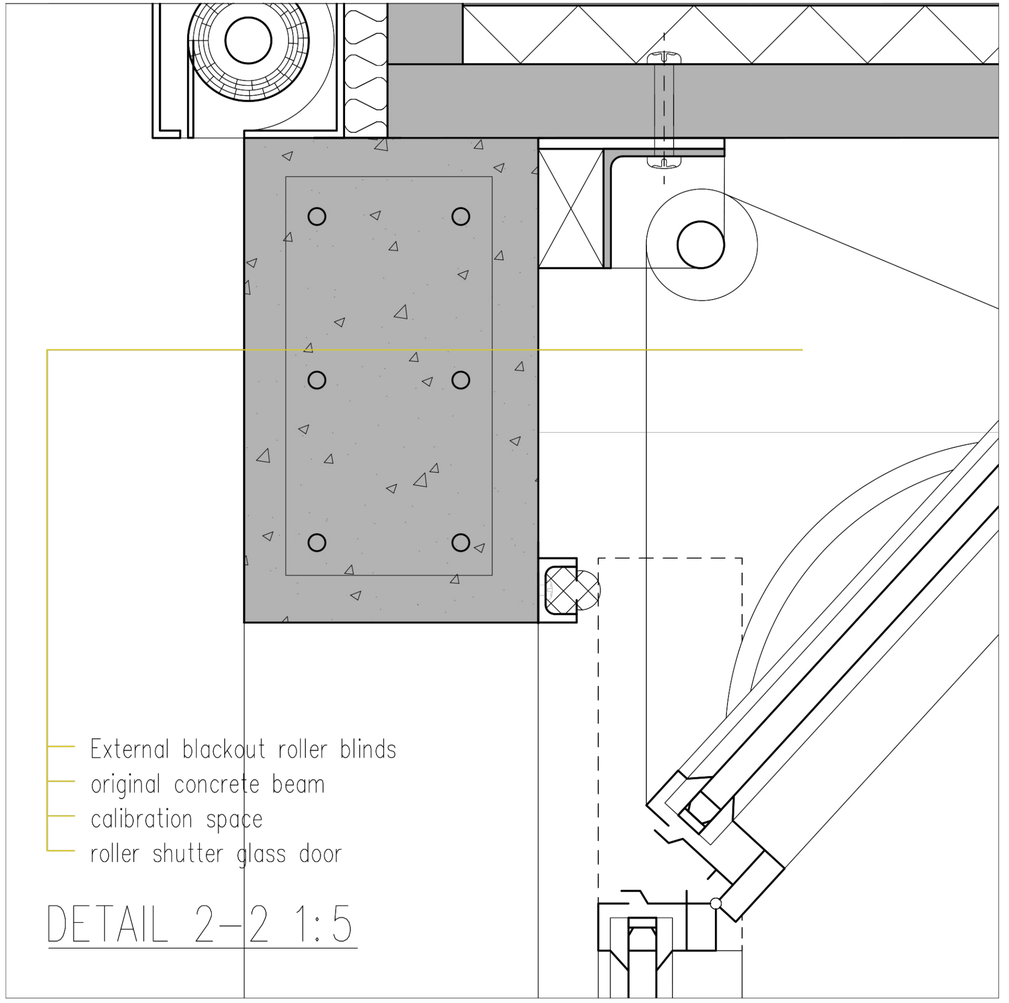
ADD-similarity
ADD-difference
REMOVE



Space 4 playground



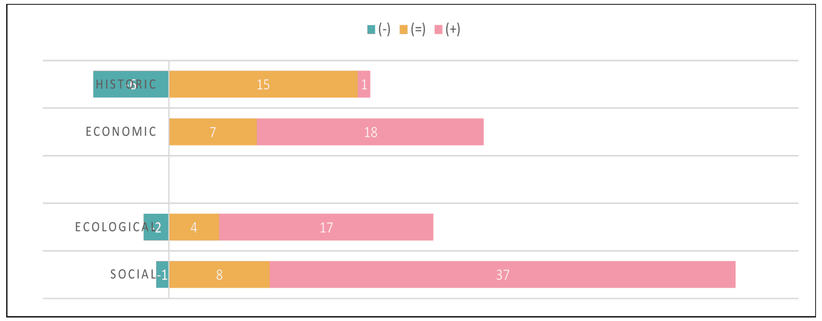
Part 5

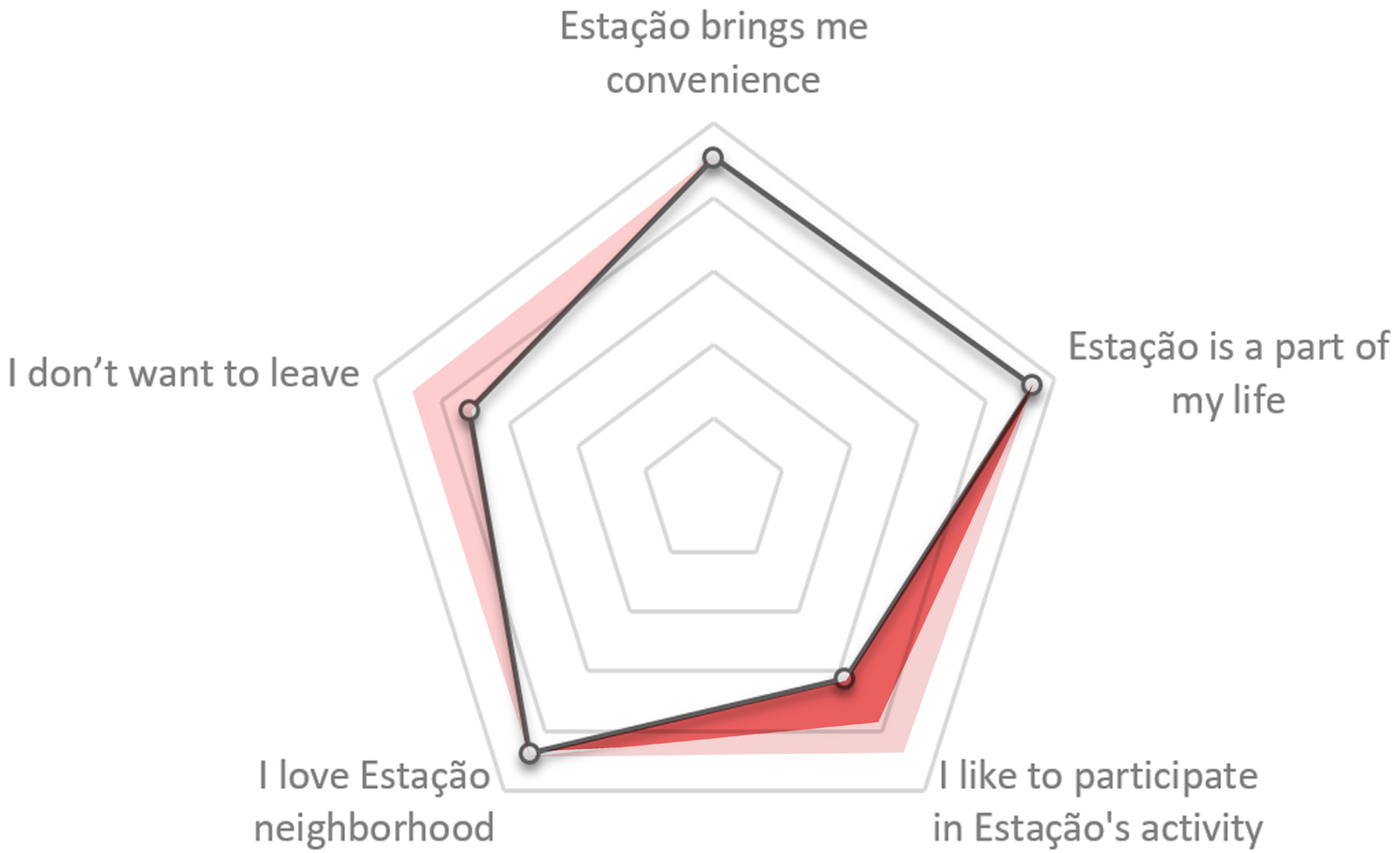
Reflection

Reflection

Place attachment: a bond between people and place through three types of attributes:

1) physical settings
2) activities with people
3) meanings



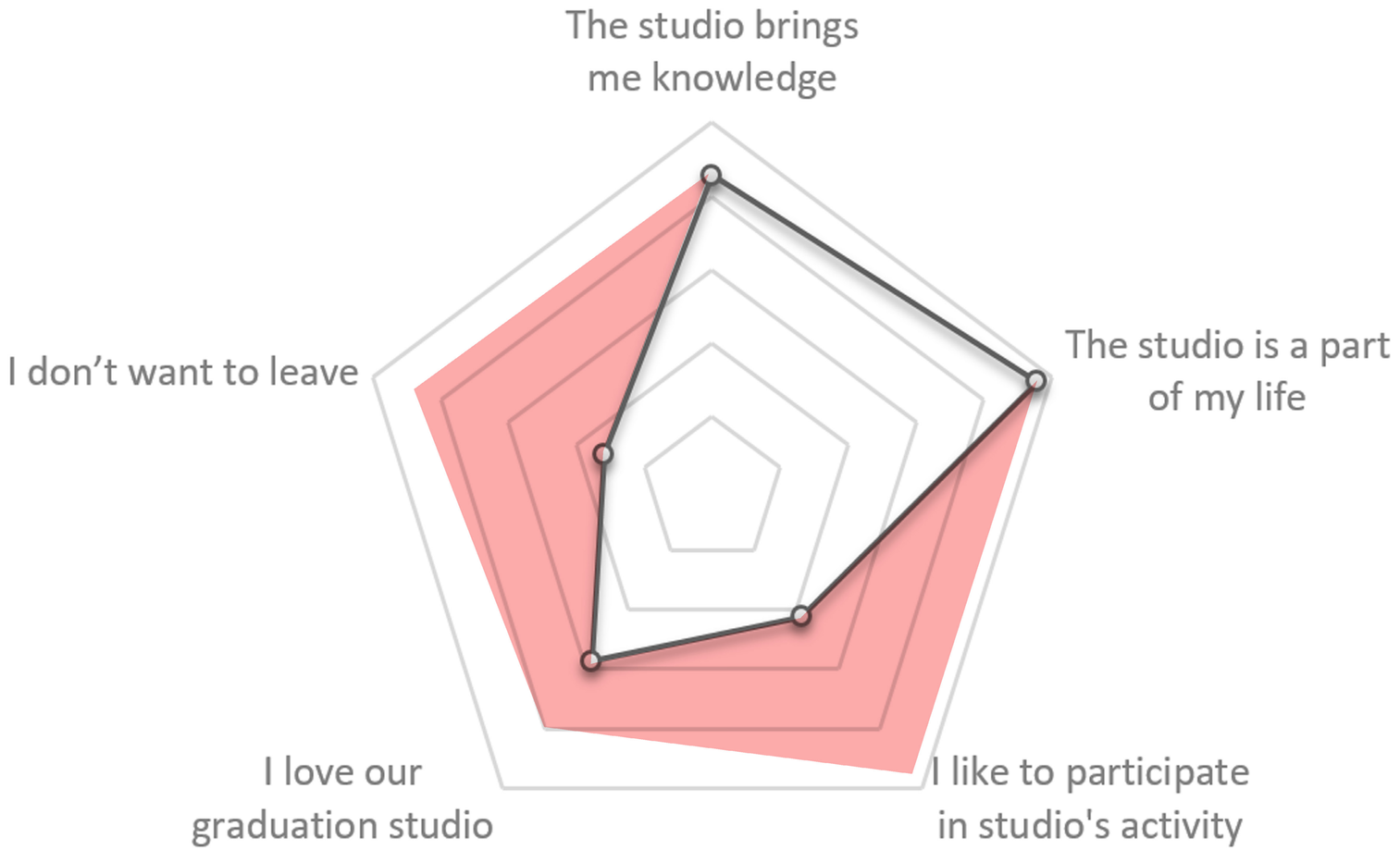


Reflection

physical setting	activitie- people	meanings
collective life in Faro		

before		
a table at the faculty	compromise in team work	potential “sad place“

after		
any bar in city center	talk and drink	part of “my regular life”



Thank you
The sea view rooms has great economic value
I like the well-organised feeling form wood truss [A.K-I]
seprating spaces provides more activity possibilities [E.K-D]
The noise from concert hall should be stopped [E.A-]
I like to watch my grandchildrn playing here [S.A-S]
The powerful lights will go out from the box and effect the street [S.A-D]