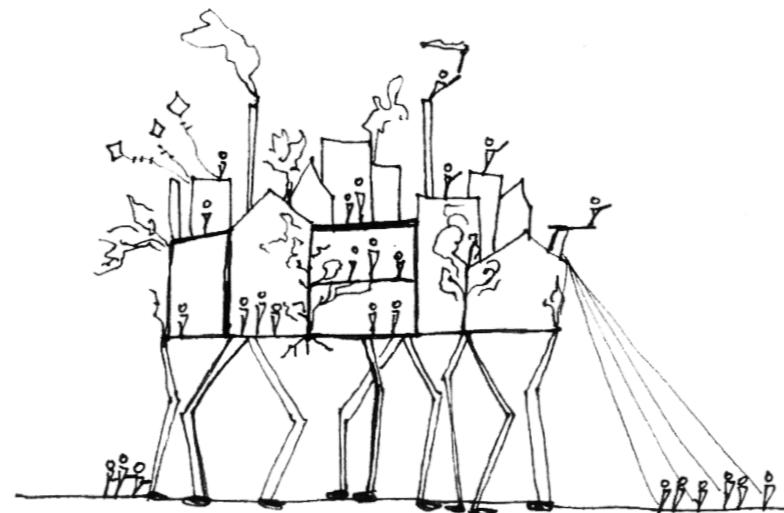


DESIGNING the wild WITHIN



using architecture to reconnect worlds



I believe a leaf of grass is no less than the journey-work of the stars

Song of Myself,
Walt Whitman, 1882



Research

- Problem statement
- Objective
- Theoretical framework
- Methodology
- Literature review
- Case study analysis
- Concluding strategies

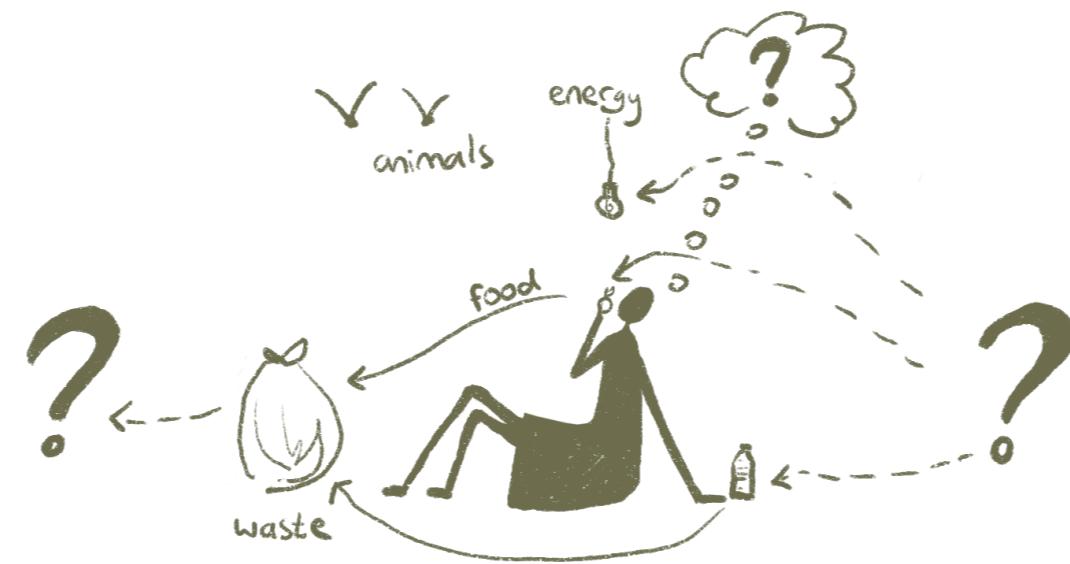
Design

- Program of requirements
- Site analysis
- Implementing strategies



Problem of the city: it made a barrier -

adaptation on Hundertwasser's five skins of humanity (own image)



'Unknown makes unloved and unloved makes unprotected'

Kaat Biesemans-Hoogewijk



own image

Urban residents are increasingly alienated from the natural world, which contributes to the climate crisis. A shift in how we live and build is vital to coexistence with our surrounding natural world.

Eco-centric discourse:

*People are inseparable from nature
and separation from it leads to
environmental problems.*

Climate & Society, O'Brien & Leichenko



Unprotected living with elements
In the past



City as protection
Current state



Chaos when protection breaks
Possible future



Learning to live with elements in secure settings
Possible future





*'The first step in saving
nature is the rewilding of
our own mind'*

Kristine McDivitt Tompkins



*Creating strategies to implement in designs
Leading to a system where resilient people have a reciprocal relation with nature*

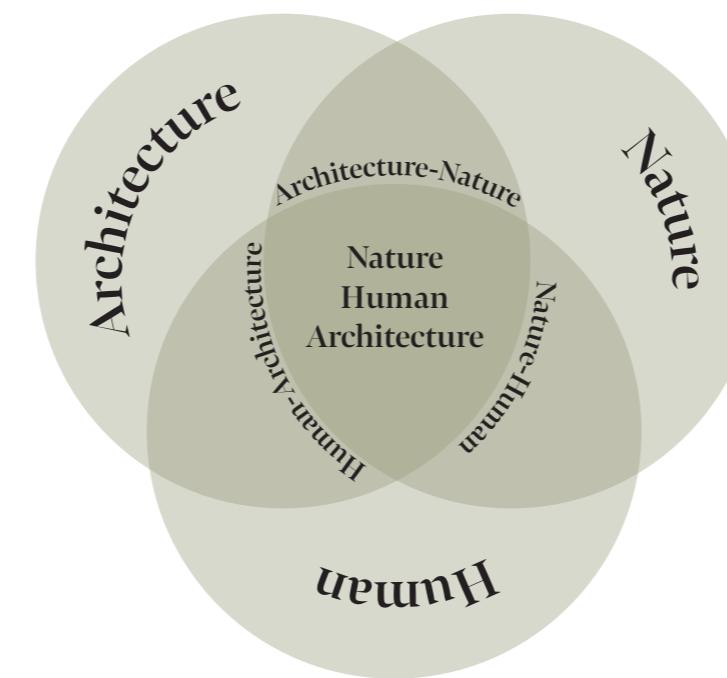


Diagram Theoretical Framework
Different factors within the research: Architecture, Nature and Humans (own image)

1. Human-Nature

- Climate & Society (Leichenko & O'Brien, 2024) and Edward Wilson's Biophilia Hypothesis (1984) frame the human-nature relationship as **interconnected**, emphasizing ecological care and integration.
- Indigenous perspectives highlighted by Kimmerer's Braiding Sweetgrass (2015) and Watson (2020) provide insights into **reciprocal relationships** with the environment.

2. Nature-Architecture

- Hundertwasser's "five skins of humanity" and his philosophies on rewilding urban spaces (Restany, 2000) inform the **integration of nature and architecture**.
- Day & Gwilliam (2019) critiques superficial sustainability practices, emphasizing the need for deeper **ecological connections** in design.

3. Architecture-Human

- **Participatory** and adaptive design theories, such as those proposed by N.J. Habraken (1972) and Yona Friedman (2019), guide the emphasis on user engagement and flexibility.



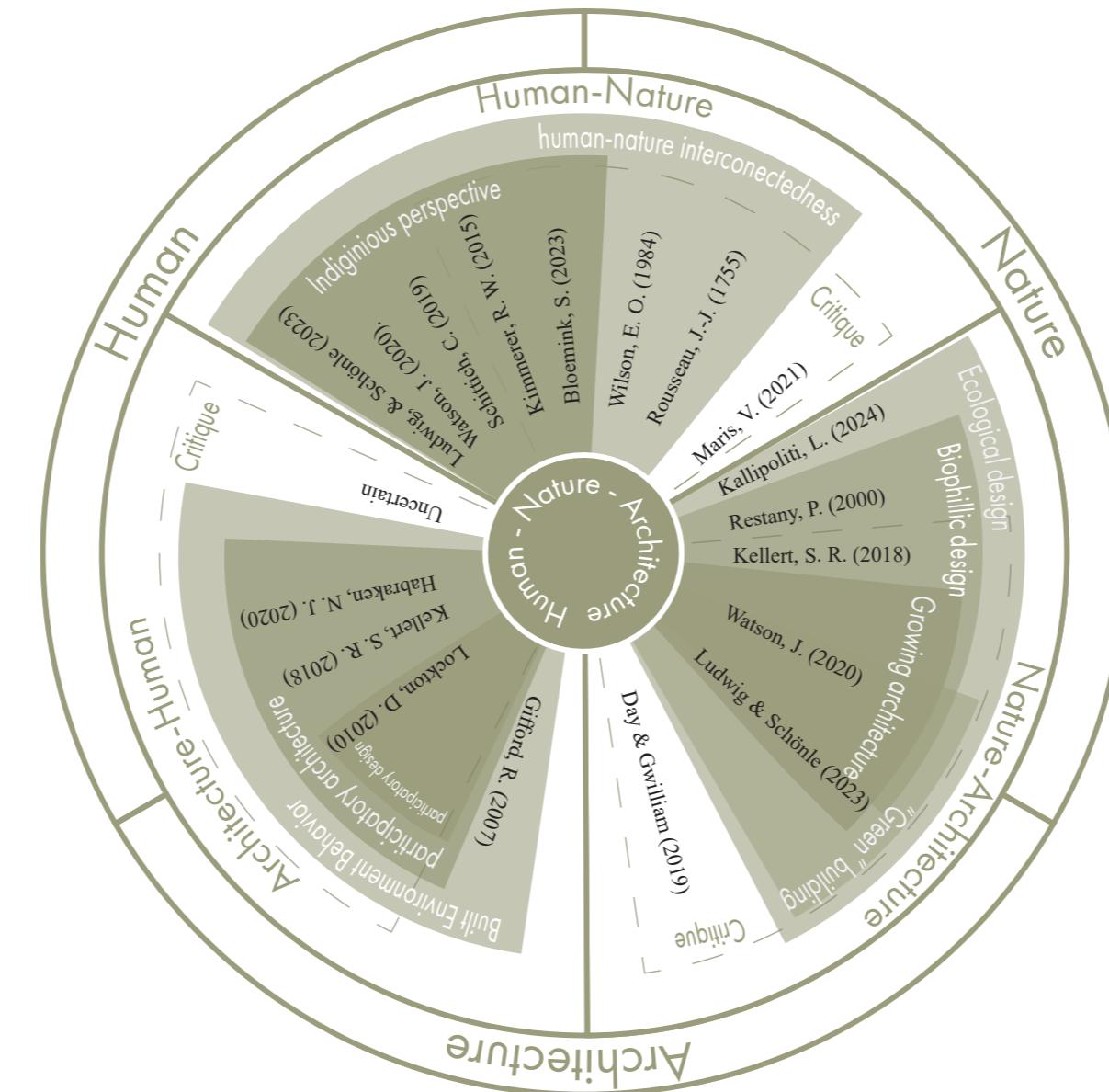
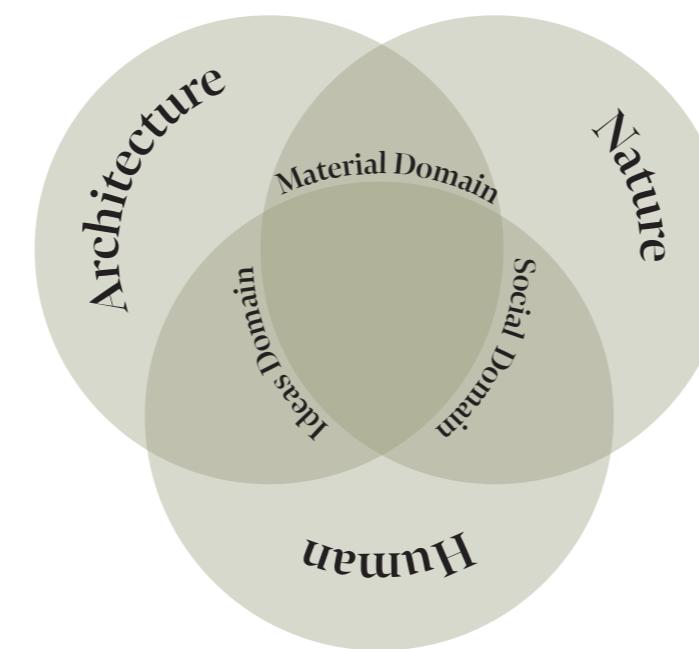


Diagram Theoretical Framework

The diagram shows the theories found in the relationships between humans, nature and architecture.
Below the different theories are listed the main sources and a critique of the theory (own image)



Domains derived from the different theories

From the combination Architecture-Nature-Human are the domains Material, Idea Social derived (own image)

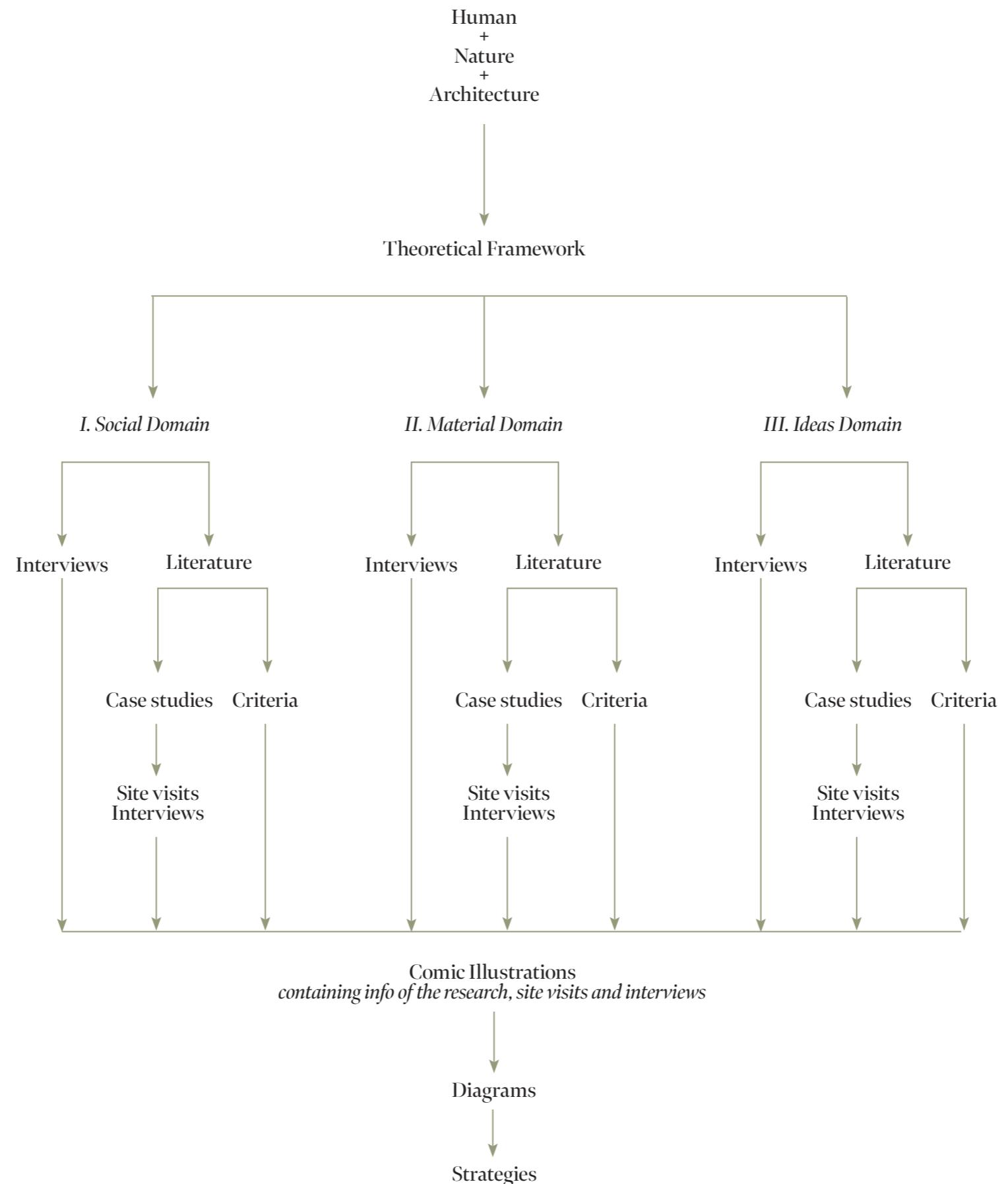


Diagram of methodology (own image)

Criteria

*Lenses through which to research the case studies.
Got from the literature of different domains.*

Case studies

- *Close to the Netherlands*
- *Tour or visit possible*
- *Contact possibility*



De Aardehuizen
Olst - Netherlands

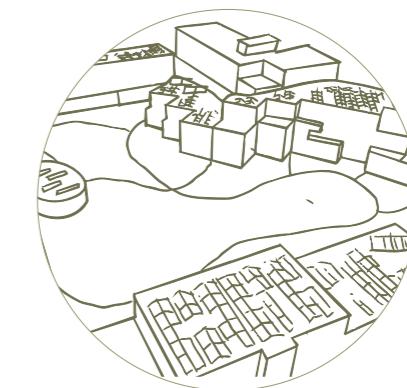
The Social Domain

Community

Active participation in the design and use of spaces fosters ownership, ecological awareness and a sense of belonging.

Reciprocal relationship with nature

Designs should incorporate visible, functional natural systems that encourage interaction and care for the environment.



De Groene Mient
Den Haag - Netherlands



Living Root Bridge
India

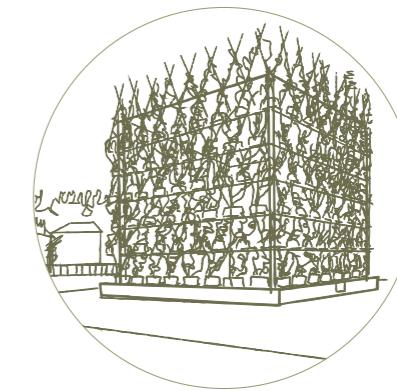
Domain of Materiality

Sustainability

Designs should prioritize durability and low maintenance, ensuring that they can endure ecological changes and human use without requiring constant intervention.

Natural Elements

Materials and structures should incorporate living or organic components that contribute actively to the building's function and ecological harmony.



Plane Tree Cube
Nagold, Germany



La MéMé
Brussels - Belgium

Domain of Ideas

Participation

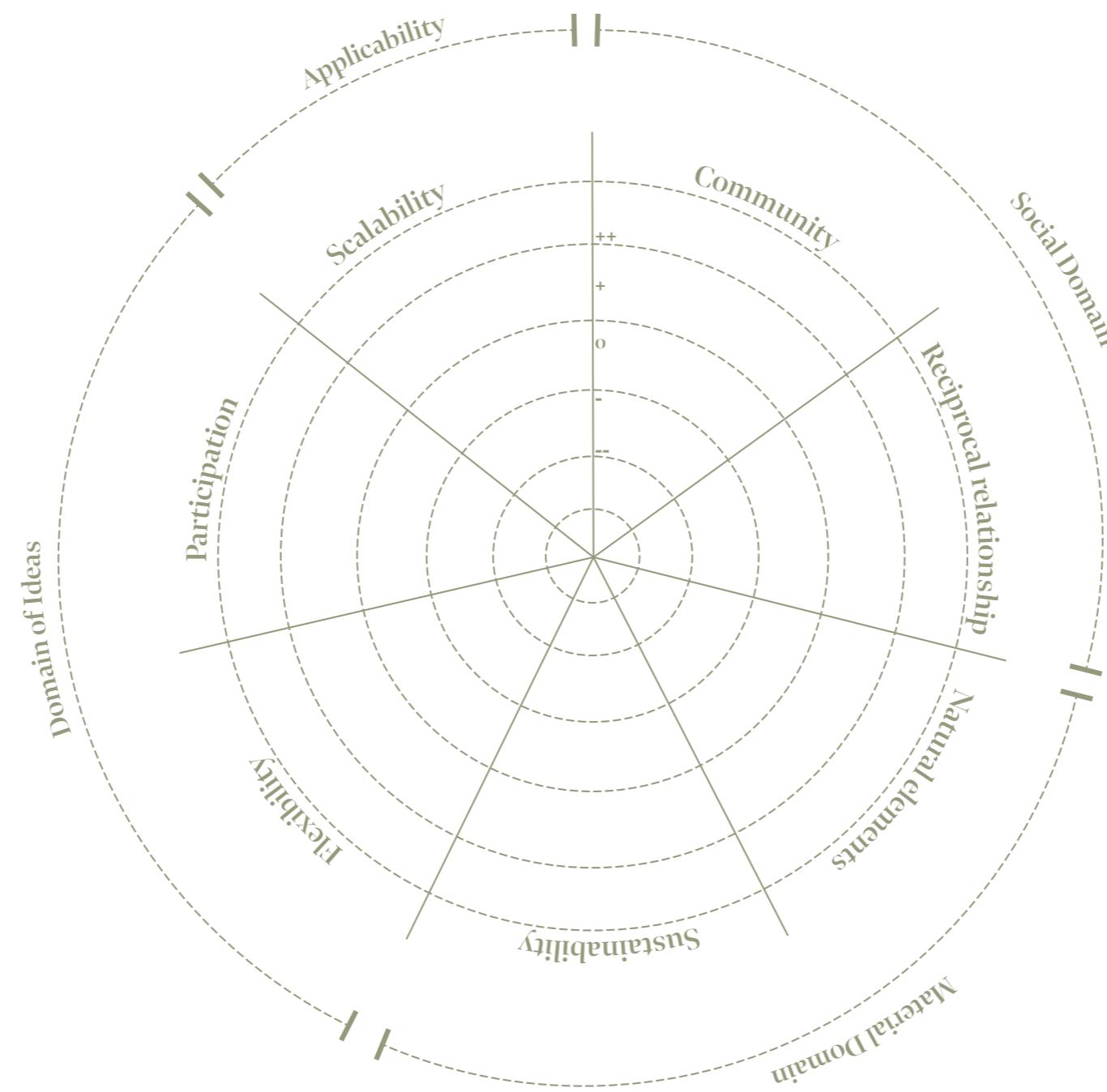
The active involvement of residents, craftsmen, and communities in the design and construction process fosters a deeper sense of ownership and connection to the built environment.

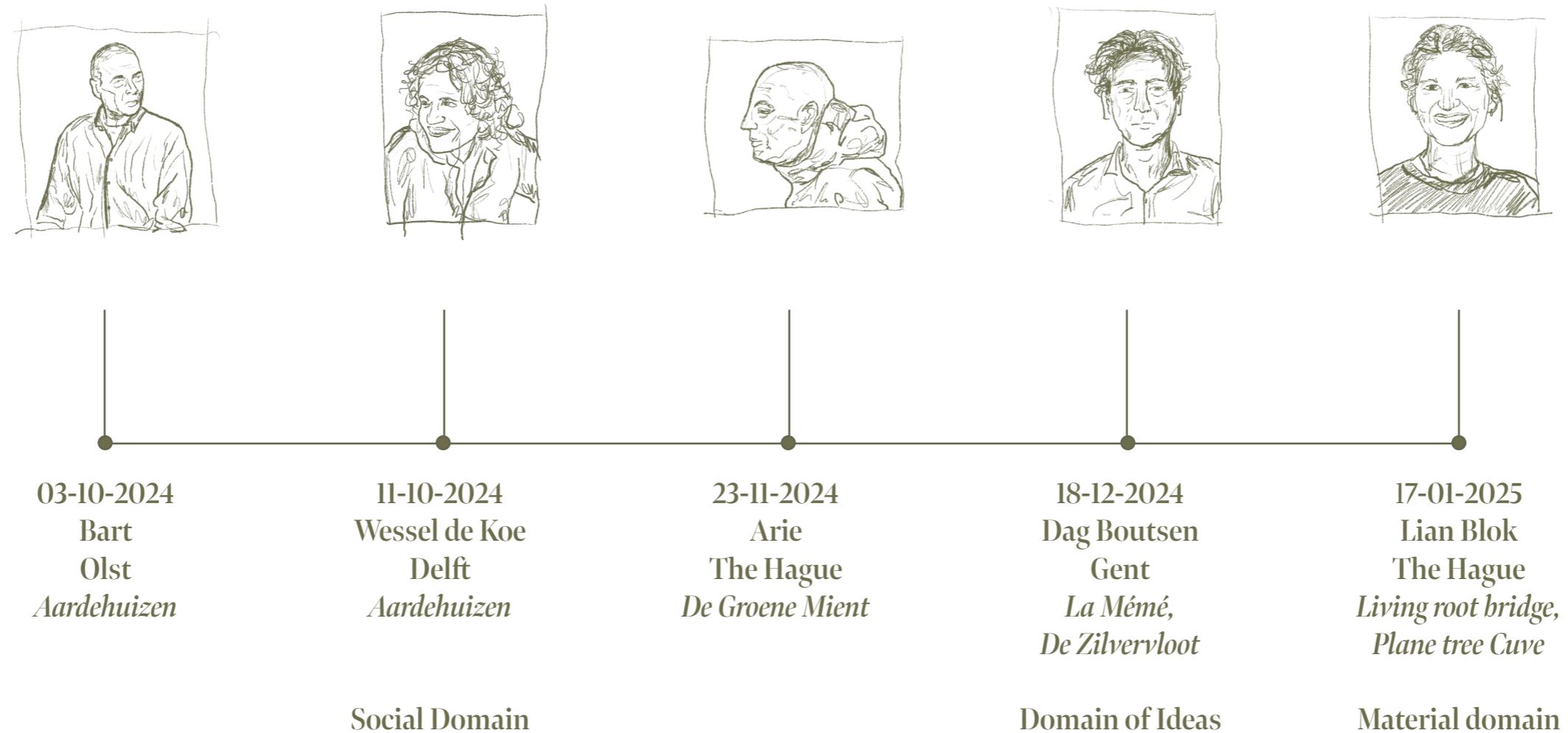
Flexibility

Architectural designs should allow for adaptability, enabling spaces to evolve in response to changing needs and behaviors over time.



De Zilvervloot
Dordrecht - Netherlands





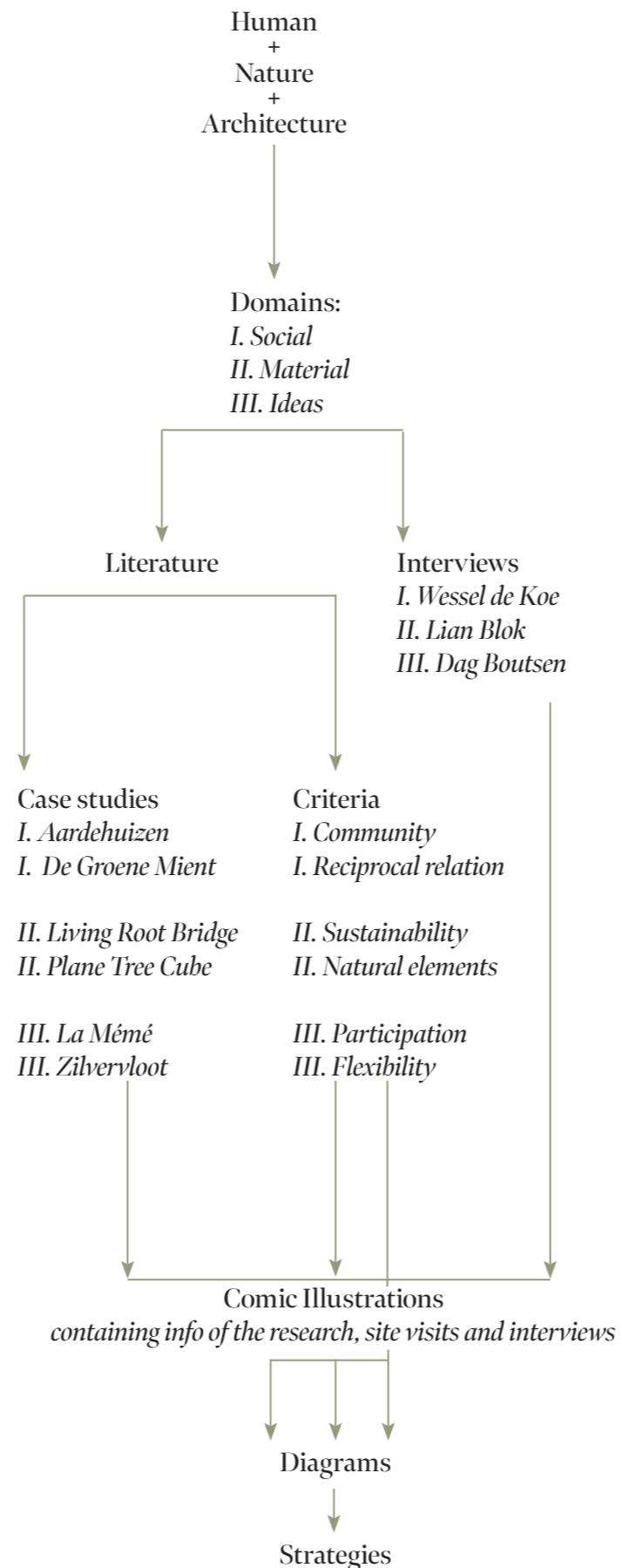
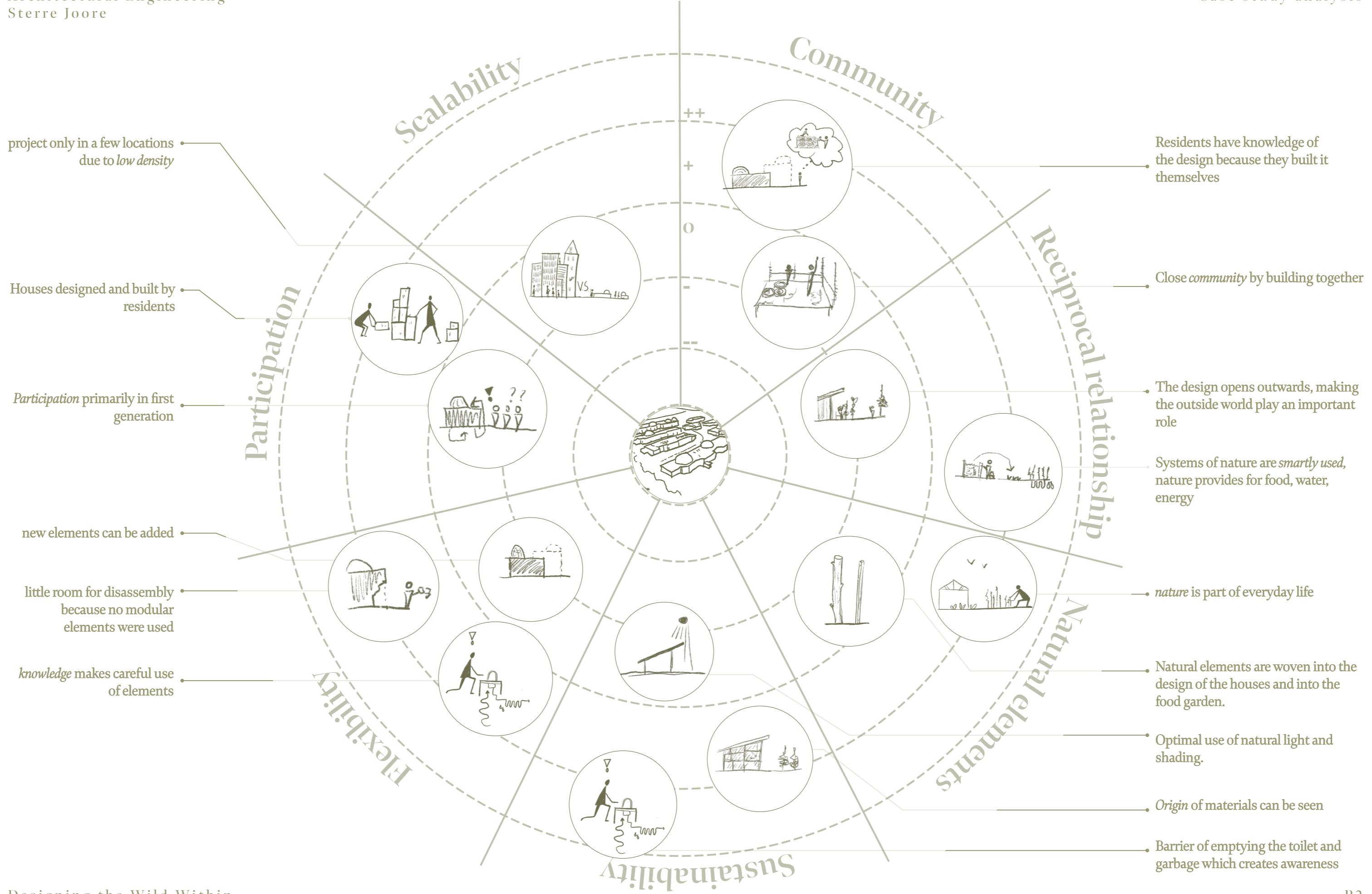


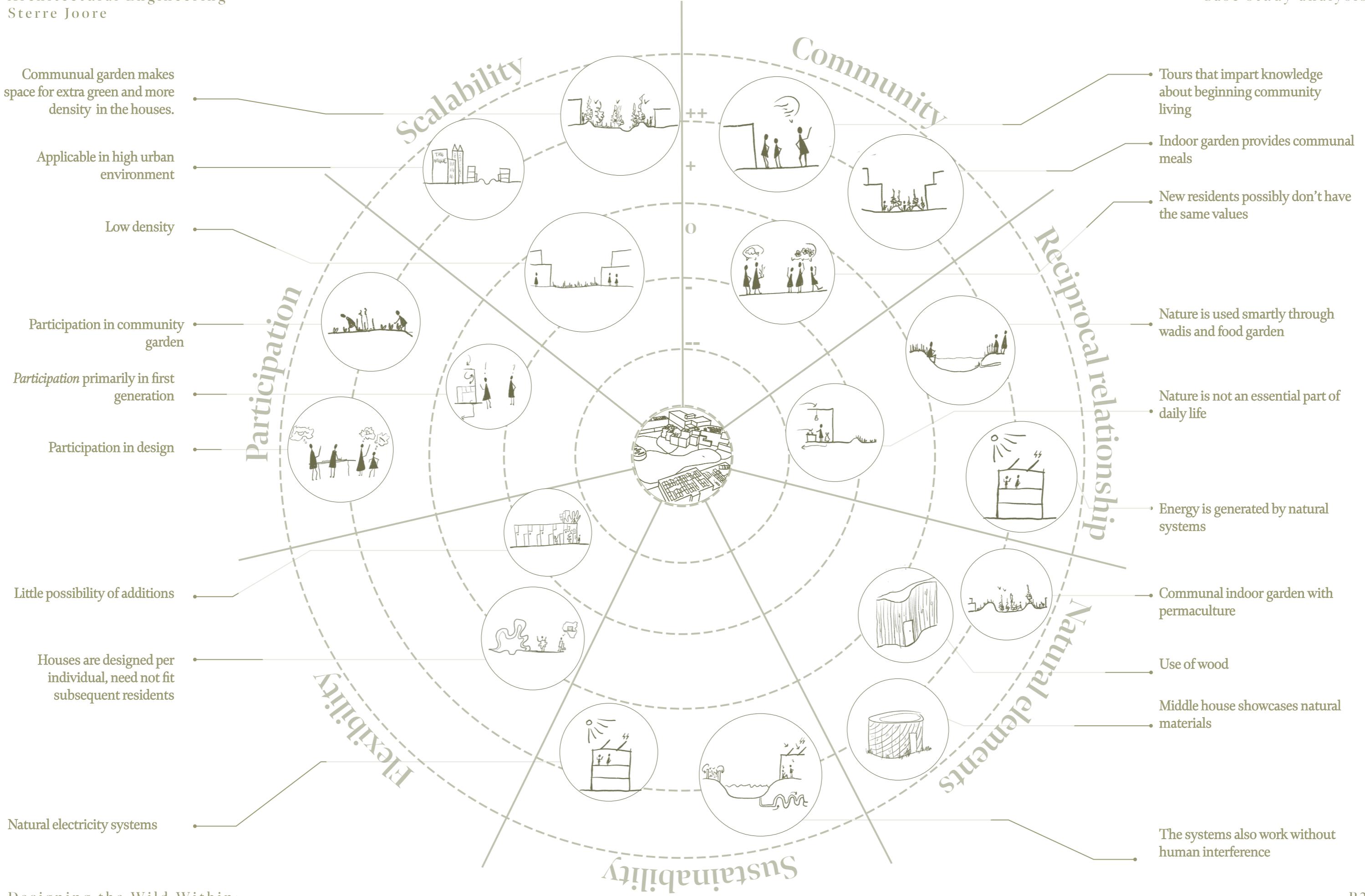
Diagram of methodology (own image)

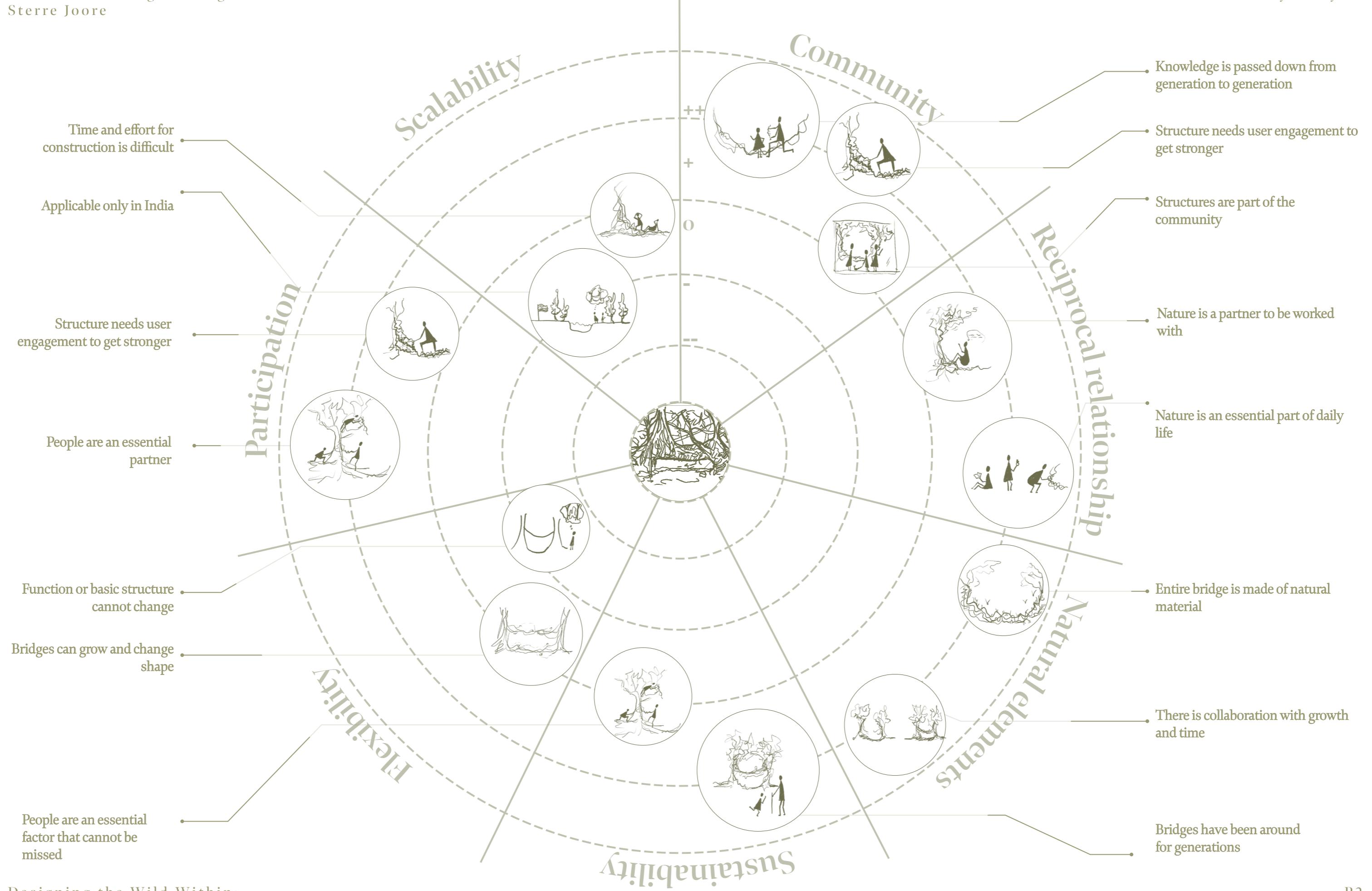


Comic illustrations where site visits, interviews and research are combined (own image)

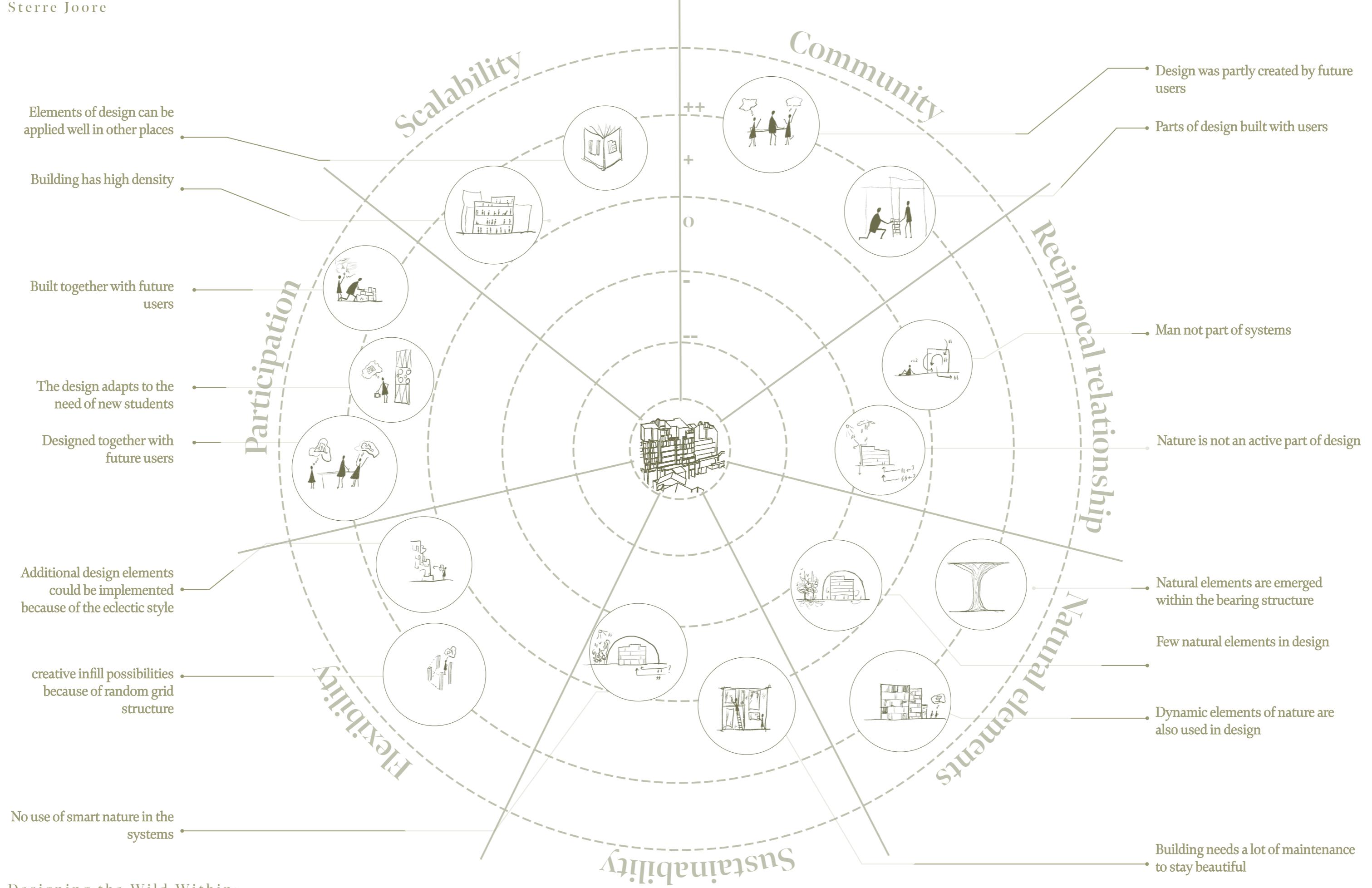














Community

1. **Traditions and knowledge transfer**
incorporate design elements that facilitate the passing of traditions and ecological knowledge to future generations, ensuring long-term community involvement.
2. **User-dependent systems**
develop systems that depend on community engagement, fostering a sense of ownership and responsibility.
3. **Freedom in design**
allow flexibility in how communities use and adapt spaces to meet their specific needs, enhancing their connection to the built environment.

Reciprocal relationship

4. **Visible natural systems**
highlight the presence of natural systems within the design, such as visible water cycles or vegetation growth, to promote ecological awareness.
5. **Integration in construction**
design structures where natural elements are integral and irreplaceable, encouraging people to protect and sustain them.

Social domain



VIBRANT COMMUNITY

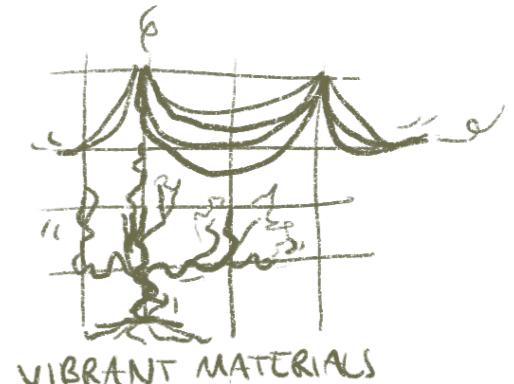
Natural elements

6. Incorporation of living and moving elements
include features like baubotanikal structures, moving materials like fabric, or dynamic vegetation that adapt and evolve over time.

Sustainability

7. Low-maintenance durability
balance active human involvement in ecosystems with designs that remain functional even with reduced engagement.
8. Effort for luxury
introduce small barriers to encourage resource mindfulness.
9. Smart use of natural elements
leverage sun, shade, and natural filtration systems for low-tech, energy-efficient solutions.

material domain



Flexibility

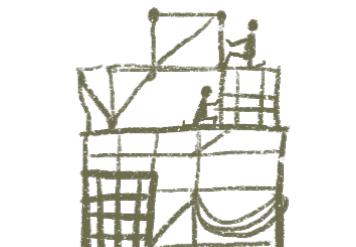
10. Adaptable spaces

design with open constructions and modular elements that allow future alterations and multiple functions over time.

11. Accept Chaos

Embrace the unpredictability of human use, allowing for easy integration of additional elements over time.

domain of ideas



VIBRANT DESIGN

Participation

12. Engagement workshops

facilitate workshops to involve the community in decision-making, fostering instant ownership and history.

13. Responsive design

continuously adapt the design to the evolving needs of the community, ensuring it remains relevant and functional.

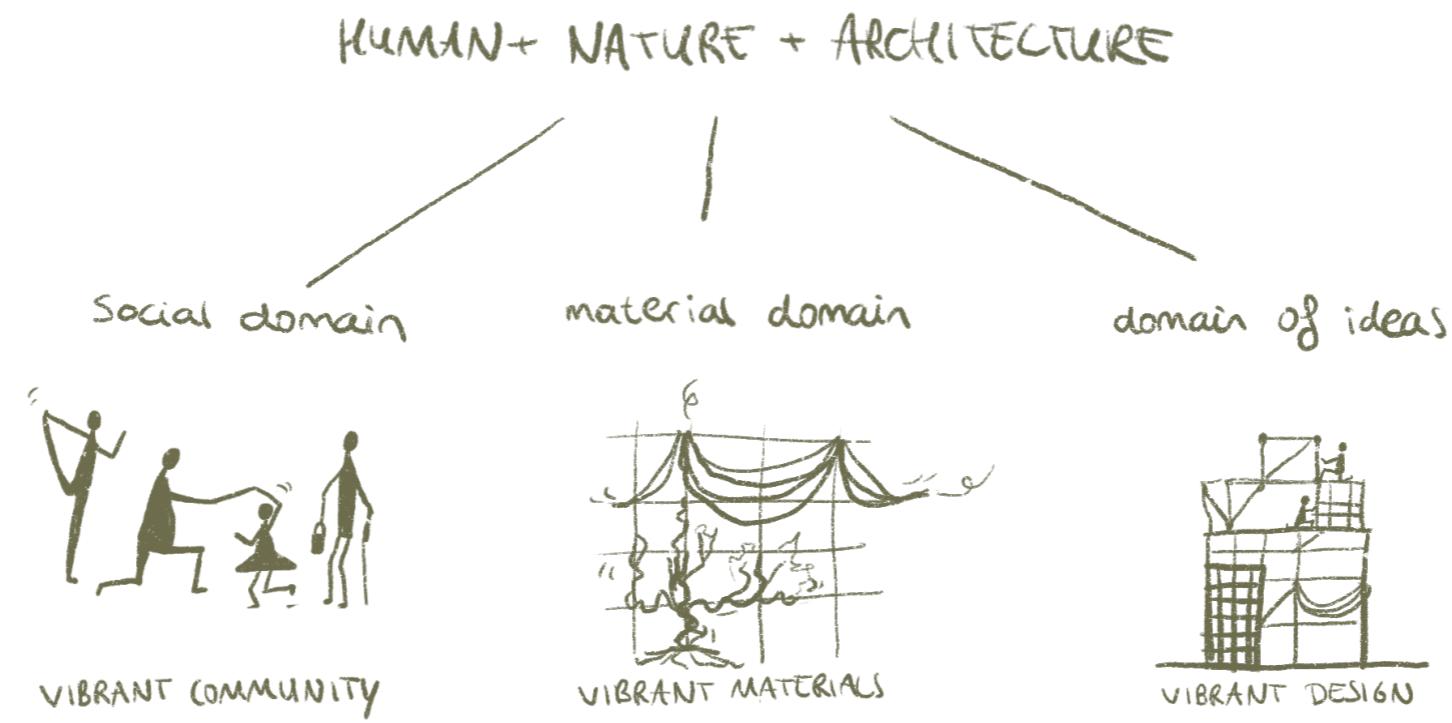
Scalability

14. Avoid uniformity

promote design diversity to suit different scales and contexts, moving away from monolithic approaches.

15. Shared facilities

allows densification or change of functions can be chosen



Community

1. *Traditions and knowledge transfer:*
2. *User-dependent systems*
3. *Freedom in design*

Reciprocal relationship

4. *Visible natural systems*
5. *Integration in construction*

Natural elements

6. *Incorporation of living and moving elements*

Sustainability

7. *Low-maintenance durability*
8. *Effort for luxury*
9. *Smart use of natural elements*

Flexibility

10. *Adaptable spaces*
11. *Accept Chaos*

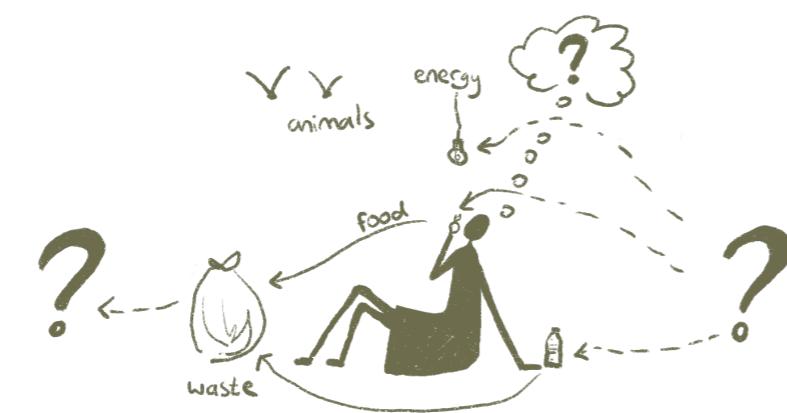
Participation

12. *Engagement workshops*
13. *Responsive design*

Scalability

14. *Avoid uniformity*
15. *Shared facilities*

The Design



Target group

Young people who can learn



Target location

Urban environment





School in Rotterdam



9-12-2024
Platform
Wederopbouw
Tour Rotterdam

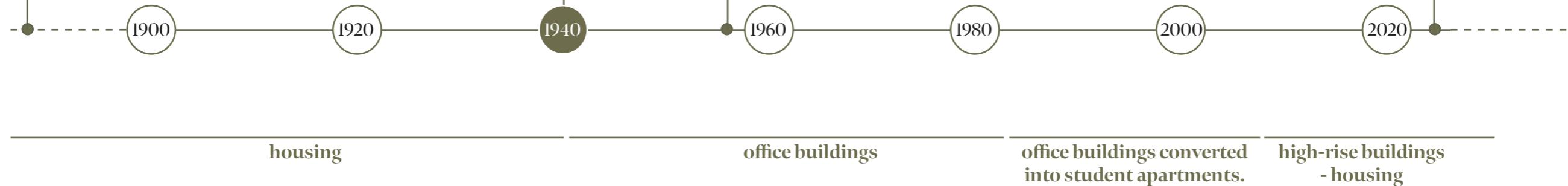
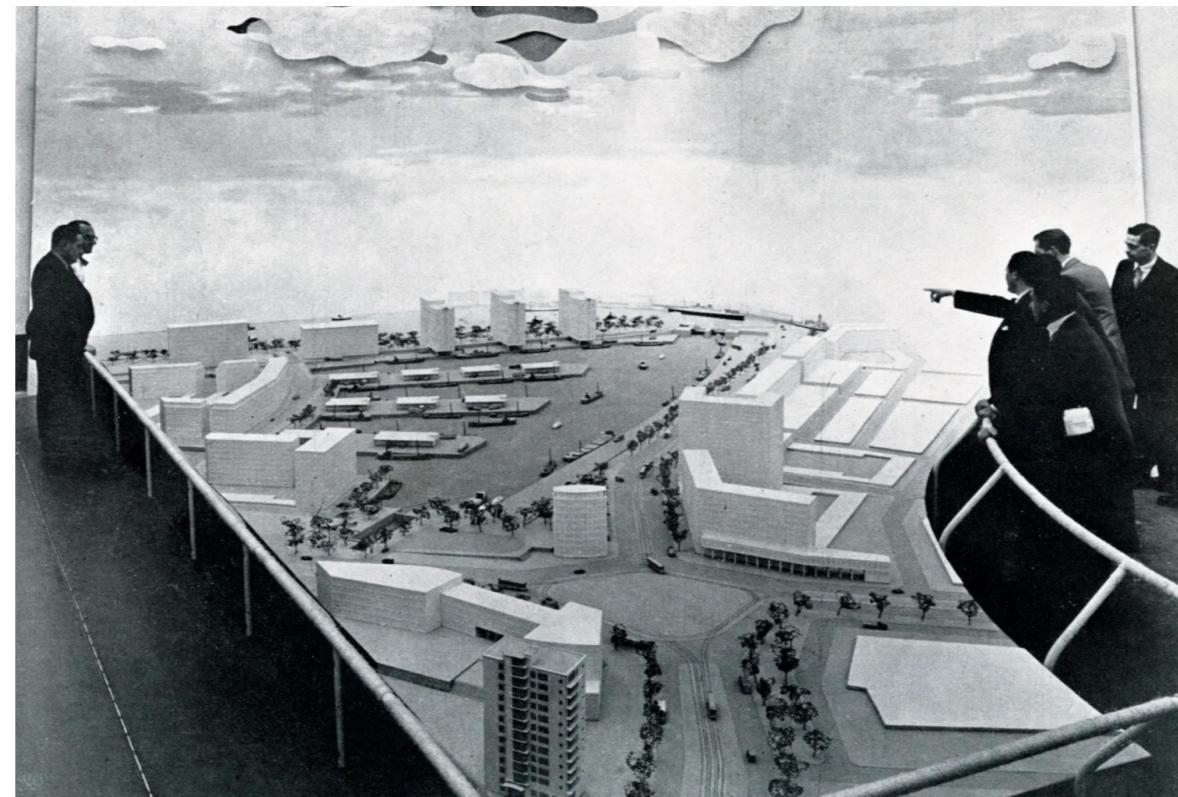


housing

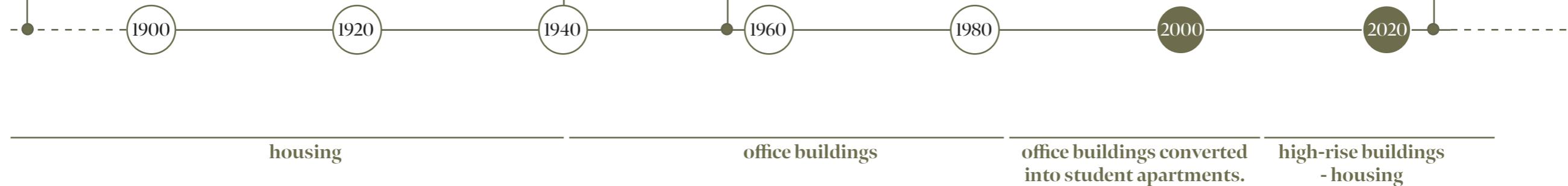
office buildings

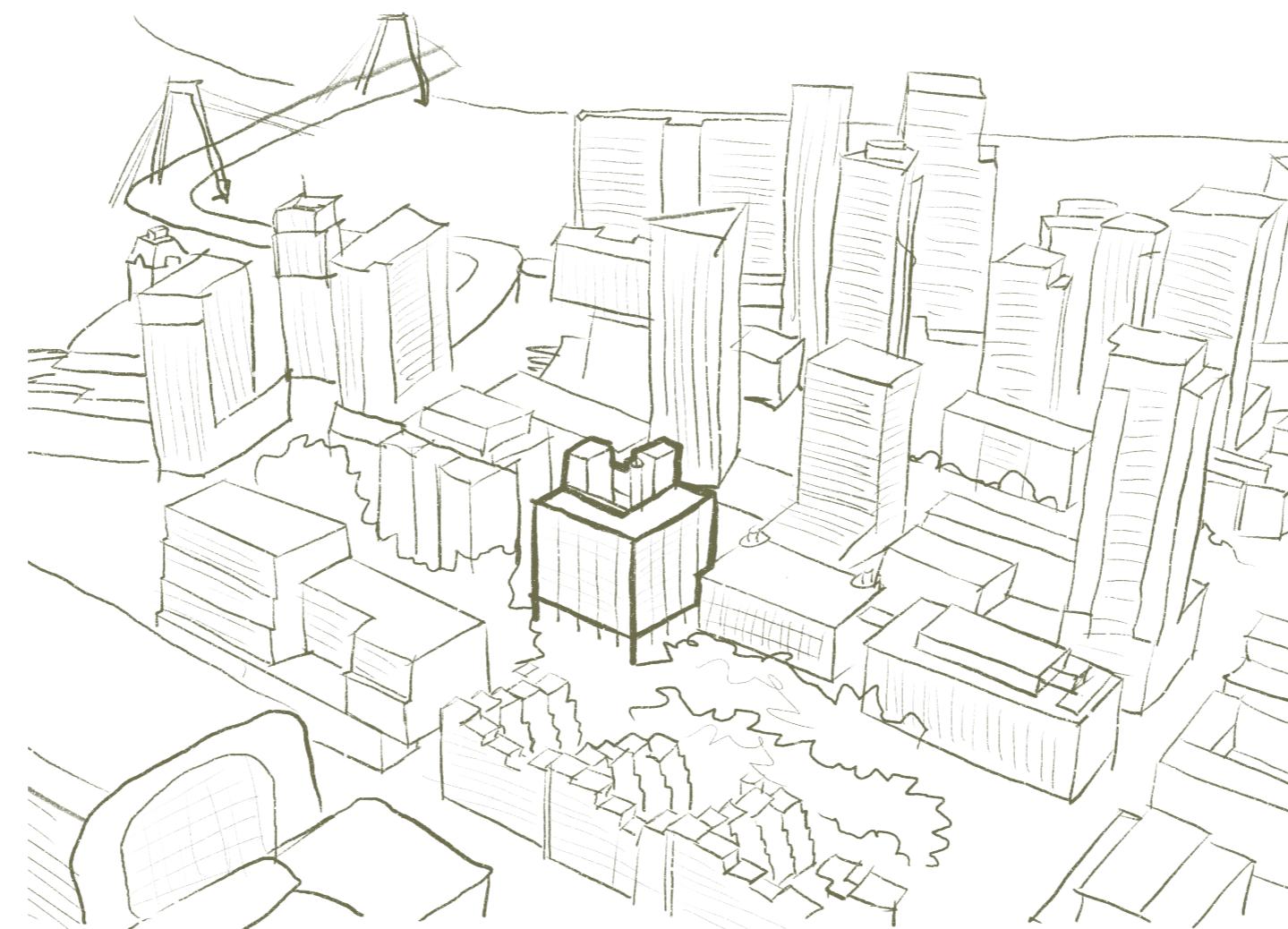
office buildings converted
into student apartments.

high-rise buildings
- housing



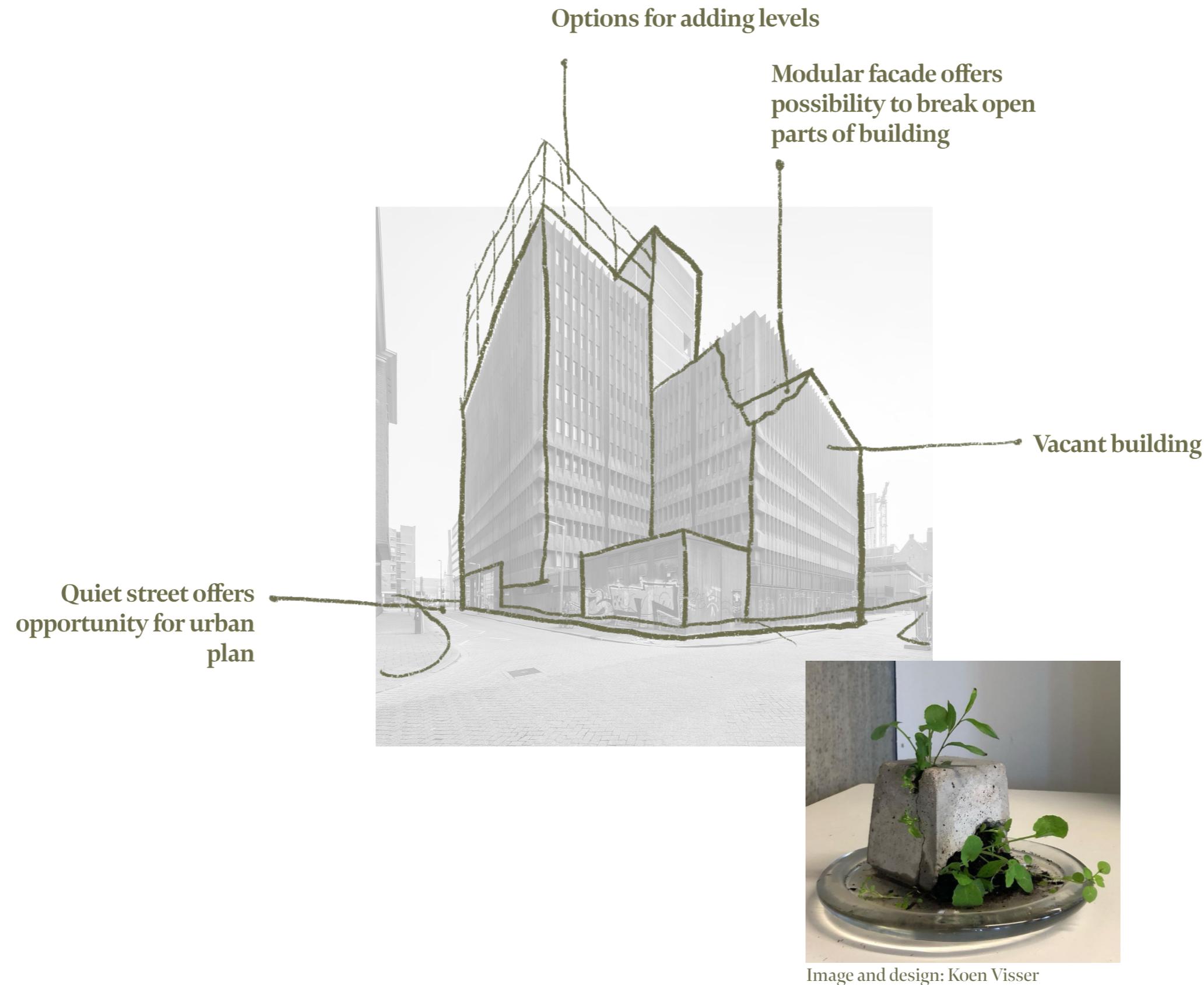


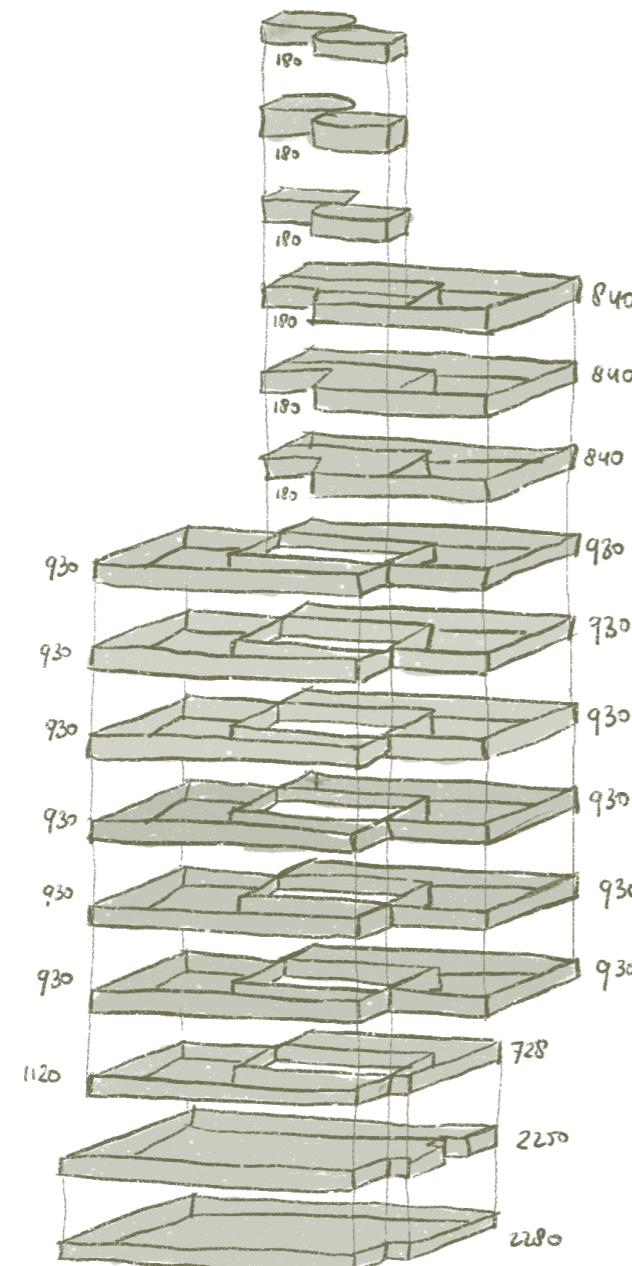






Kantoorgebouw Blakeburg
1977
Jan Hoogstad





Maximum: 15.528 m²

Minimum: 2.112 m²

Classrooms 696 m²

*Classrooms 8x
Toilets children
Storage*

Coffee en Flex space 156 m²

*Toilets
Small kitchen
Storage
Reception
Meetingroom*

Shared Spaces 251 m²

*Theater
Presentation room
First aid room
Entrance*

Physical exercise 541 m²

*Classroom for playing
Physical exercise room
Cooking*

Atelier 120 m²

Atelier space

Learning centre 300 m²

Reading and reflection 48 m²

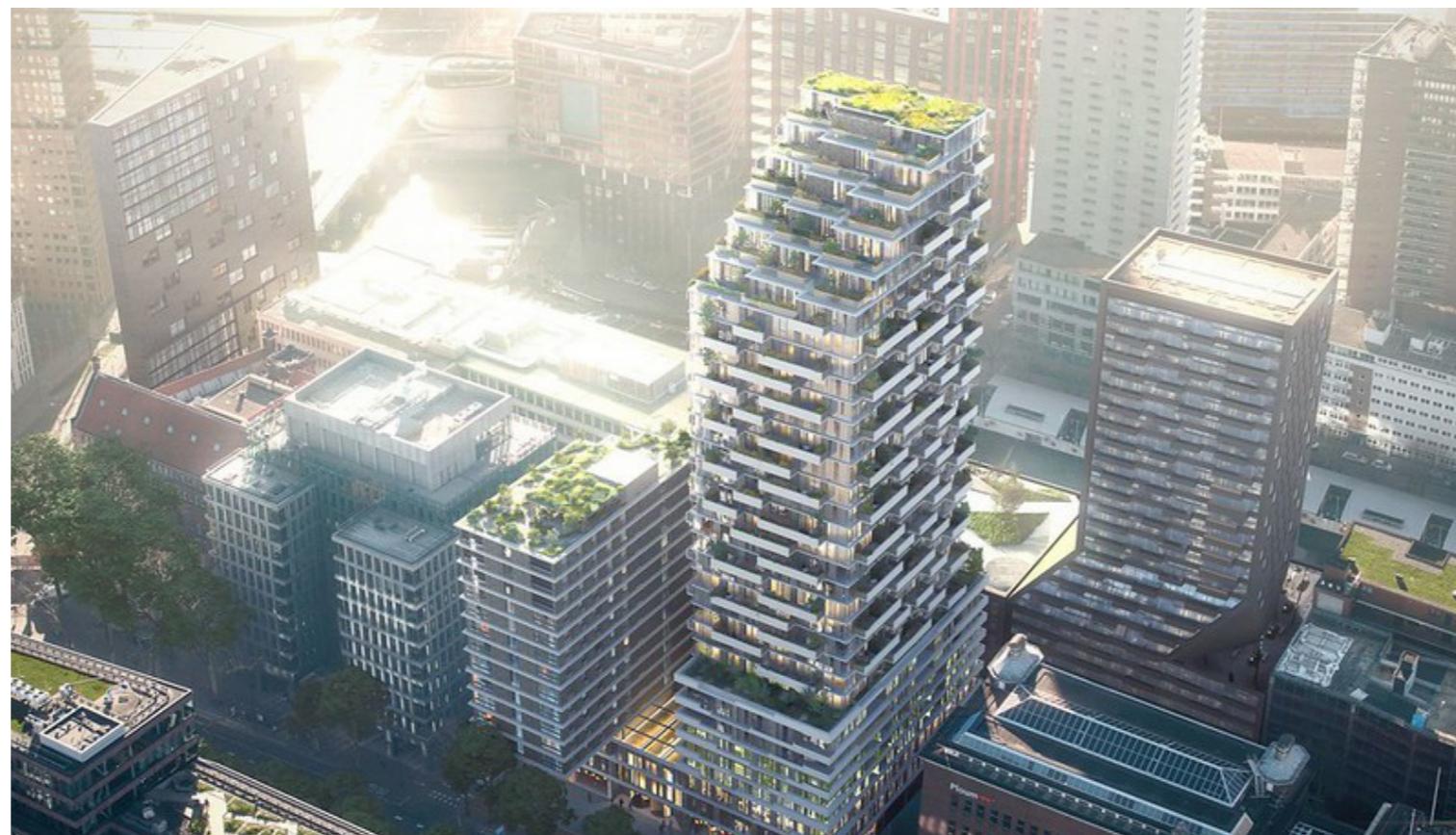
*Library
Reading space*



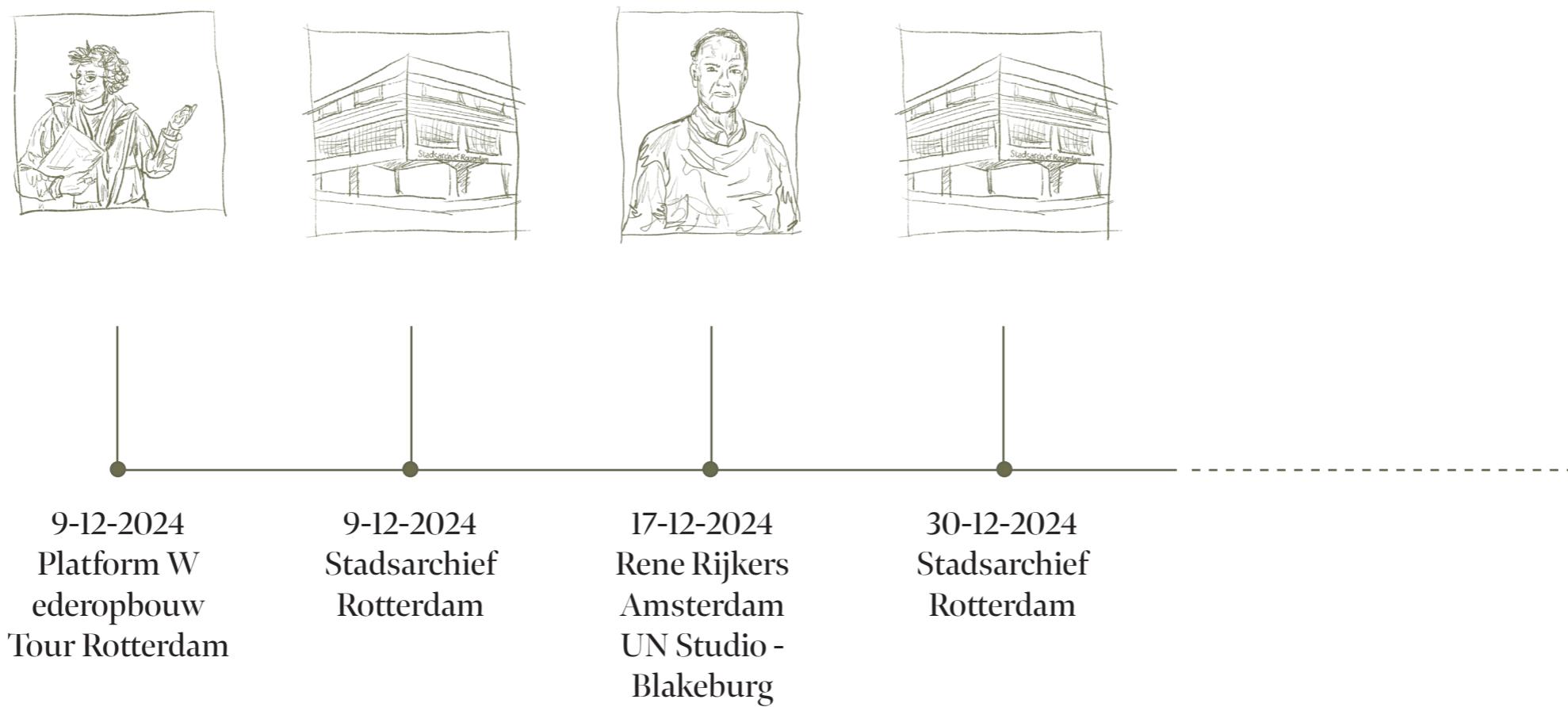
9-12-2024
Platform
Wederopbouw
Tour Rotterdam

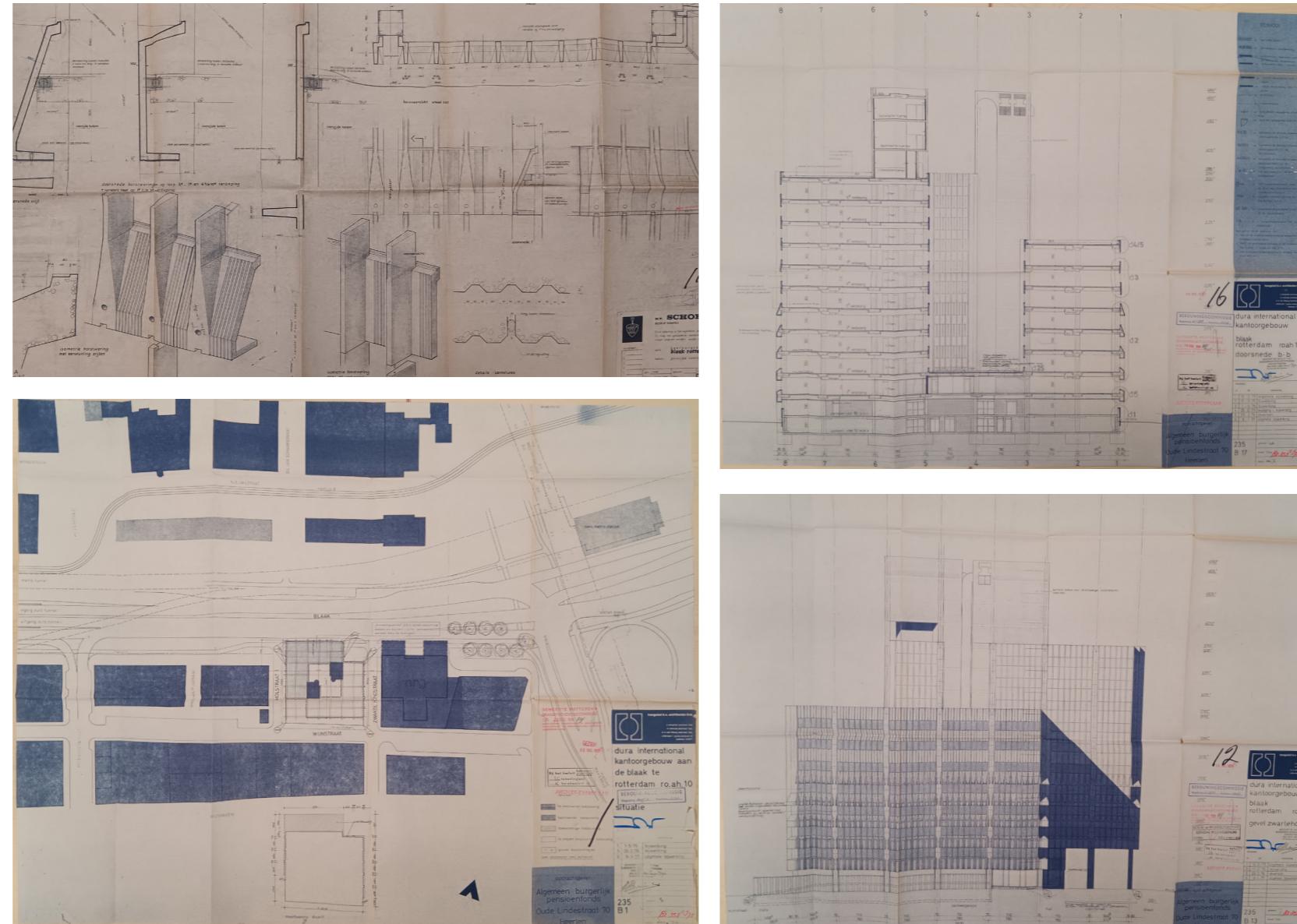


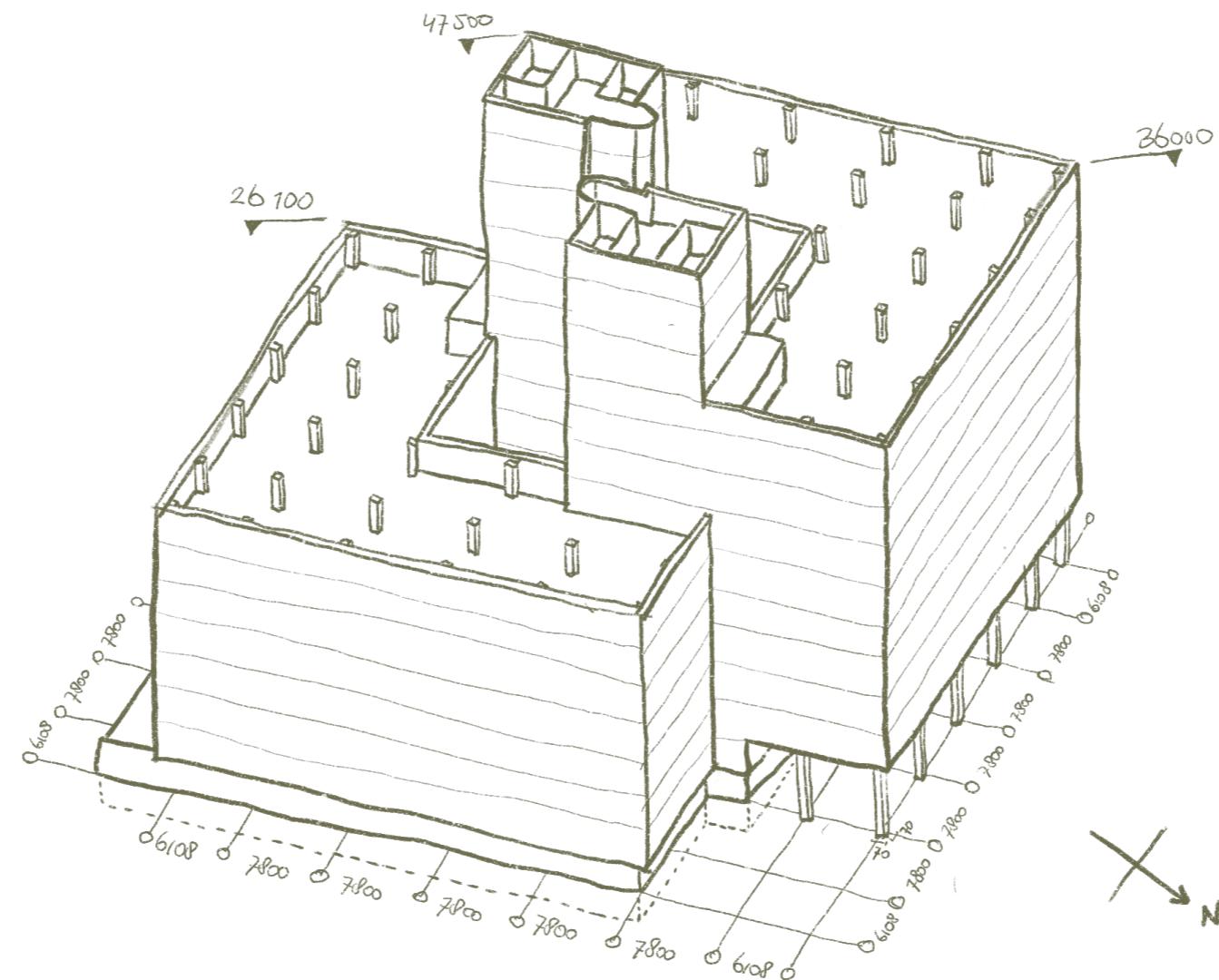
17-12-2024
René Rijkers
Amsterdam
UN Studio -
Blakeburg

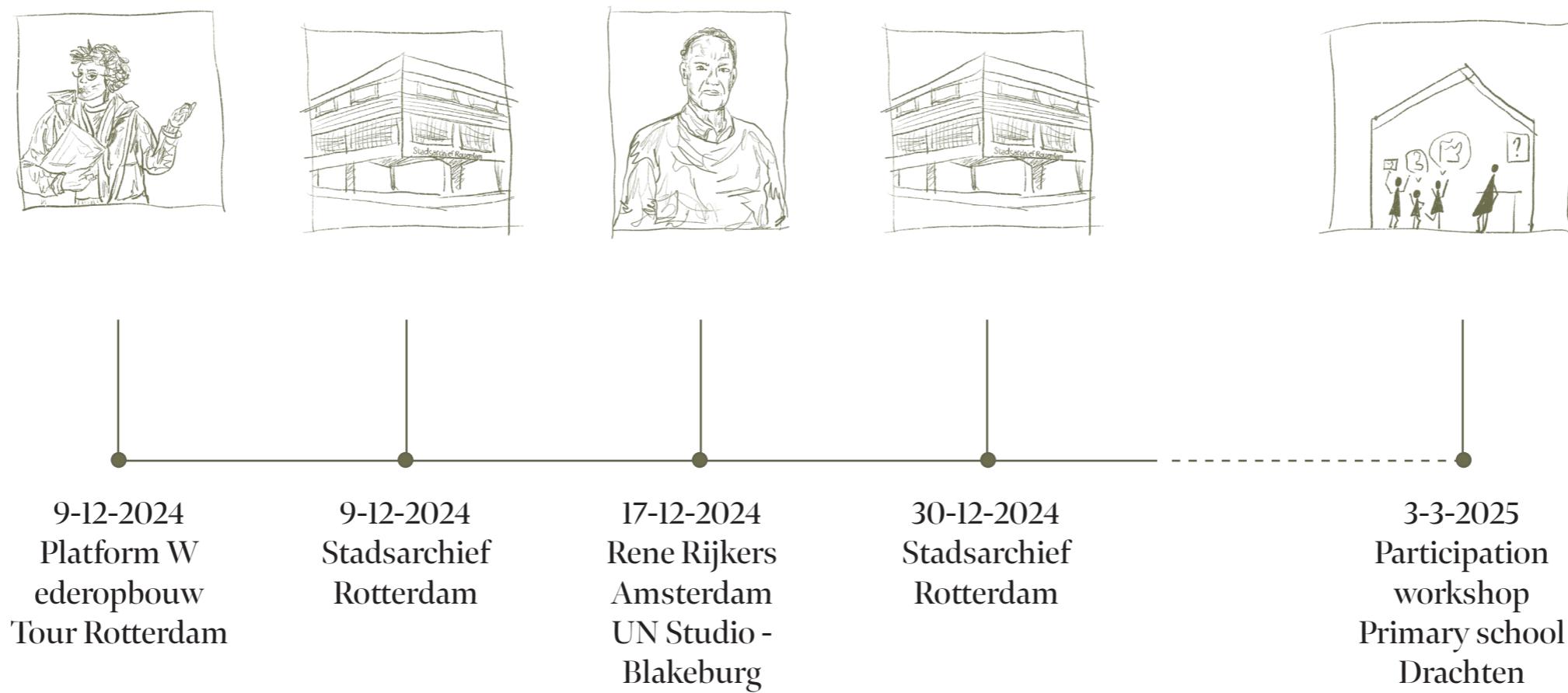


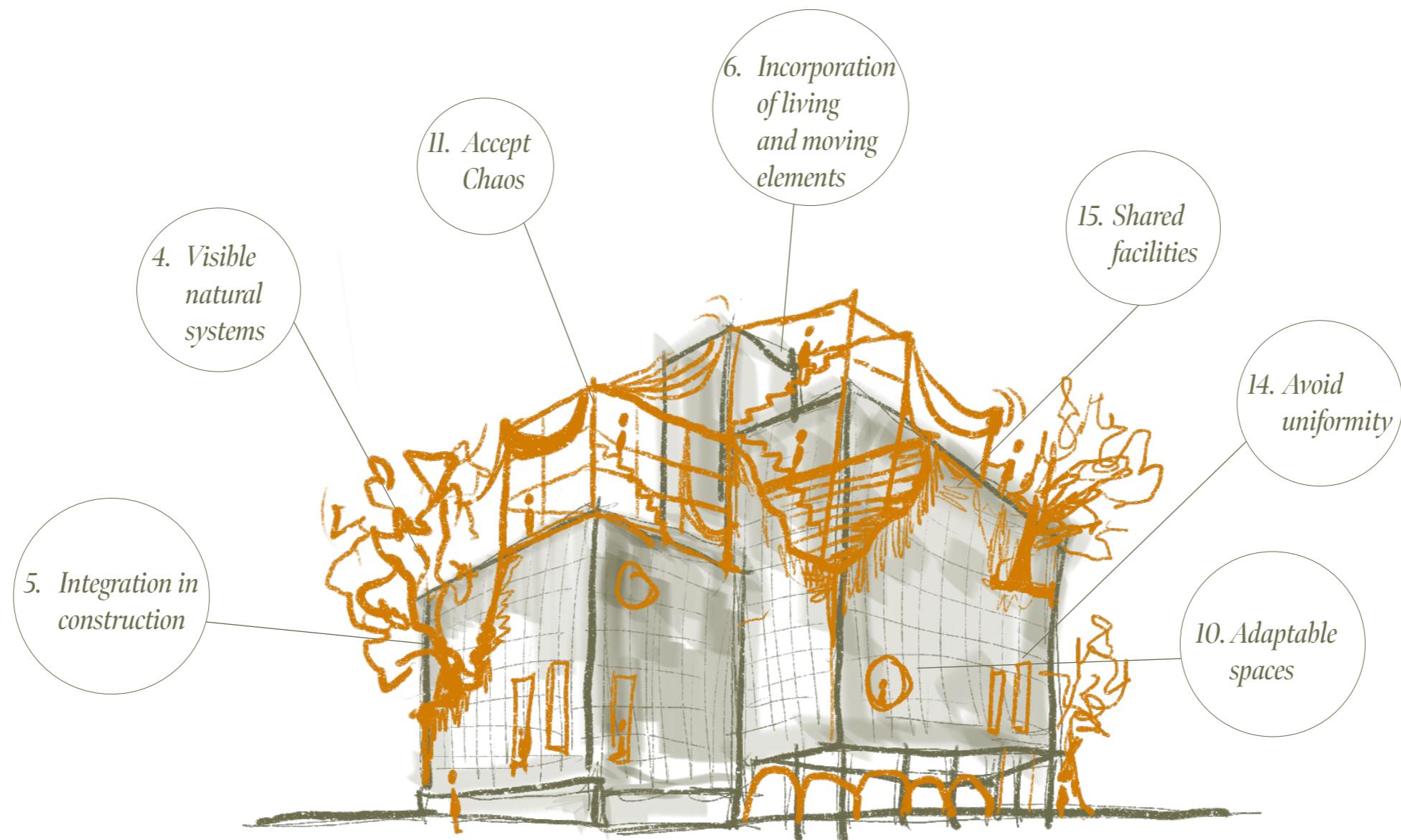
The One, UN STUDIO











Community

- 1. *Traditions and knowledge transfer:*
- 2. *User-dependent systems*
- 3. *Freedom in design*

Reciprocal relationship

- 4. *Visible natural systems*
- 5. *Integration in construction*

Natural elements

- 6. *Incorporation of living and moving elements*

Sustainability

- 7. *Low-maintenance durability*
- 8. *Effort for luxury*
- 9. *Smart use of natural elements*

Flexibility

- 10. *Adaptable spaces*
- 11. *Accept Chaos*

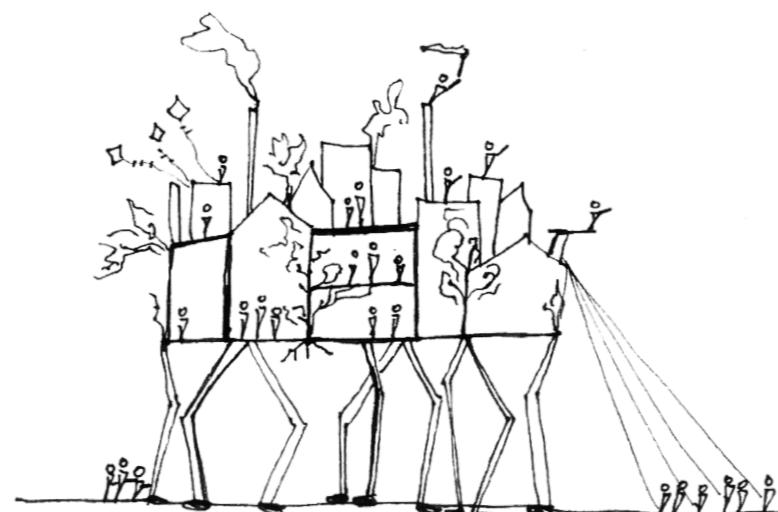
Participation

- 12. *Engagement workshops*
- 13. *Responsive design*

Scalability

- 14. *Avoid uniformity*
- 15. *Shared facilities*

DESIGNING the wild WITHIN



using architecture to reconnect worlds