

THIS USED TO BE
MY HOUSE

URN



Euroopa Liit
Euroopa
Regionaalarengu Fond



Eesti tuleviku heaks

1.

Steigereiland 1.0

2.

Status quo

3.

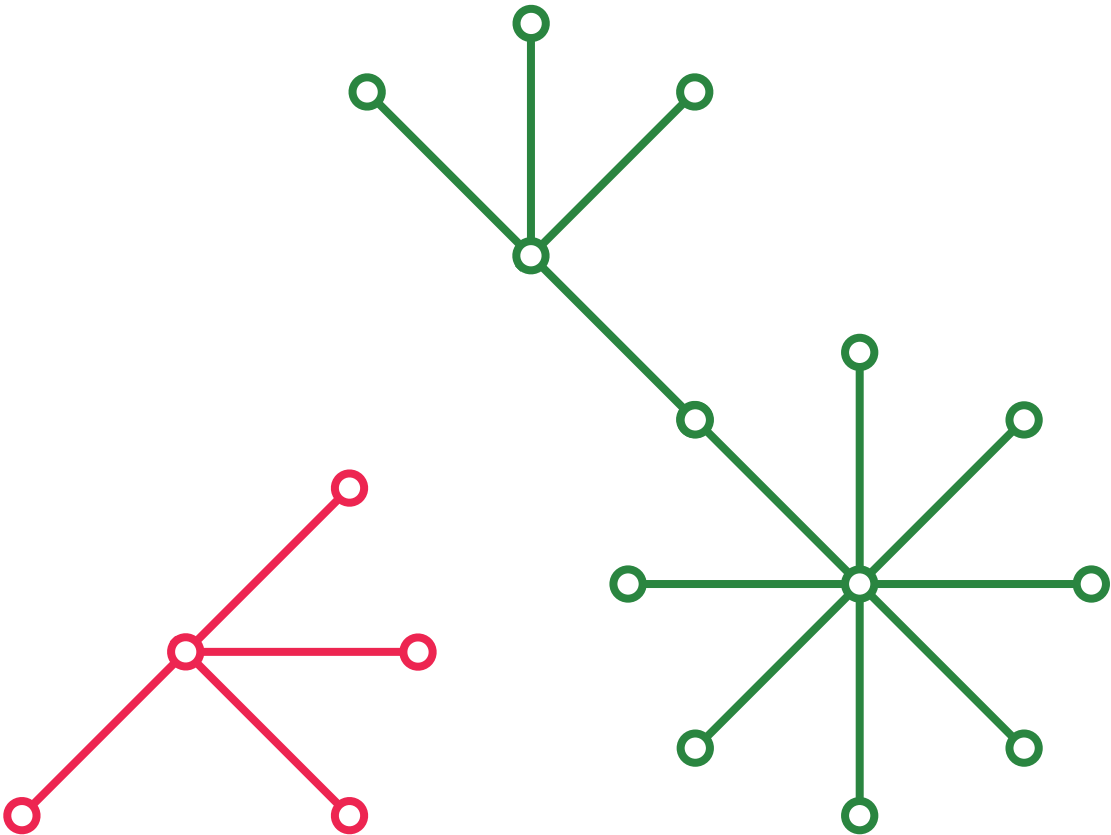
Upfrnt

4.

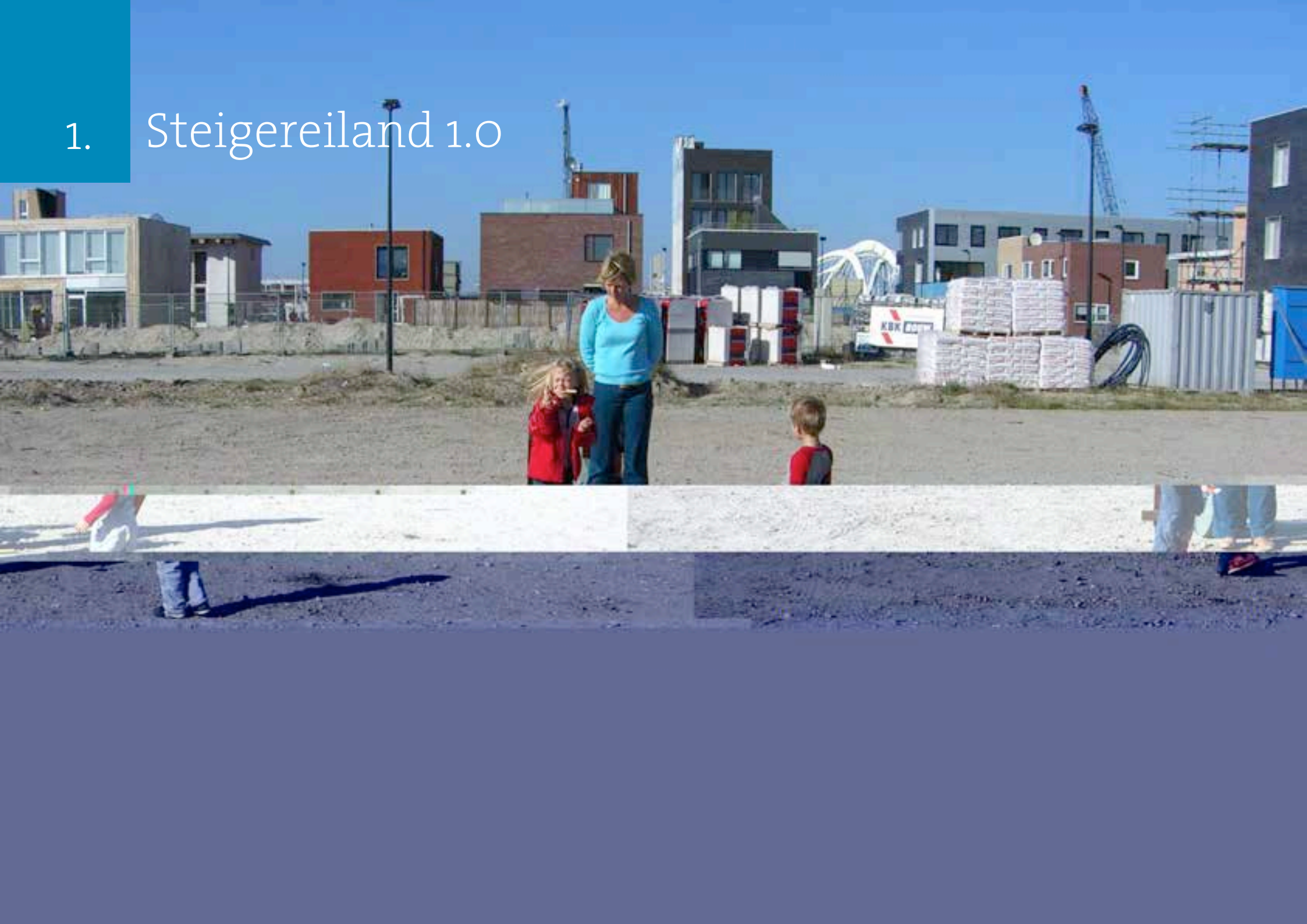
Steigereiland 2.0

5.

The next generation



1. Steigereiland 1.0



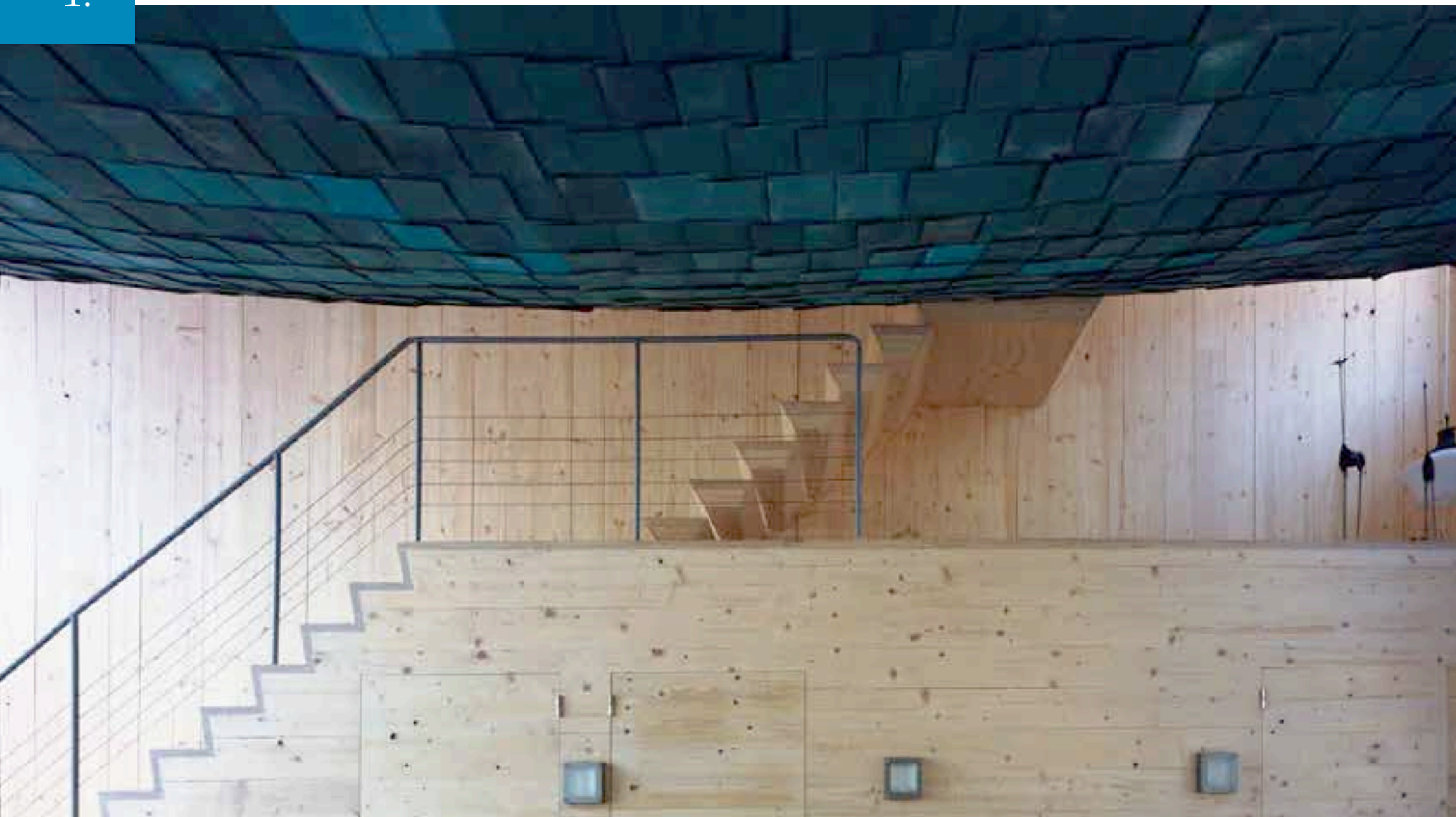
1.



1.



1.

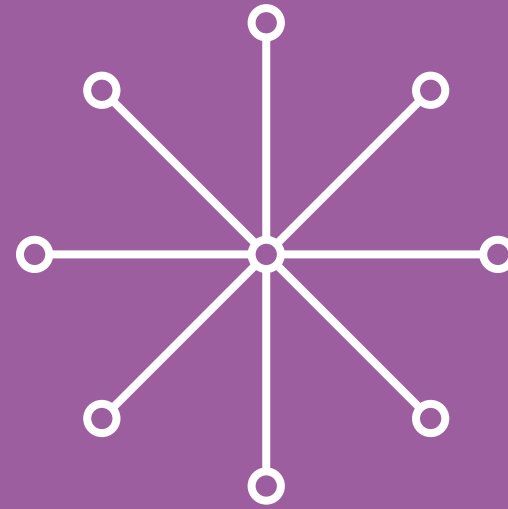


1.

Architecture =
built environment



2. . Status quo



use of our earth

2.





1 ha.

1 ha.

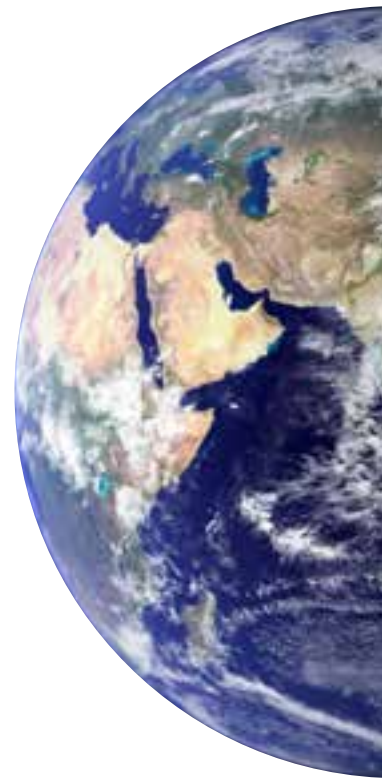


available: 11,9 biljoen gha

necessary :18 biljoen gha

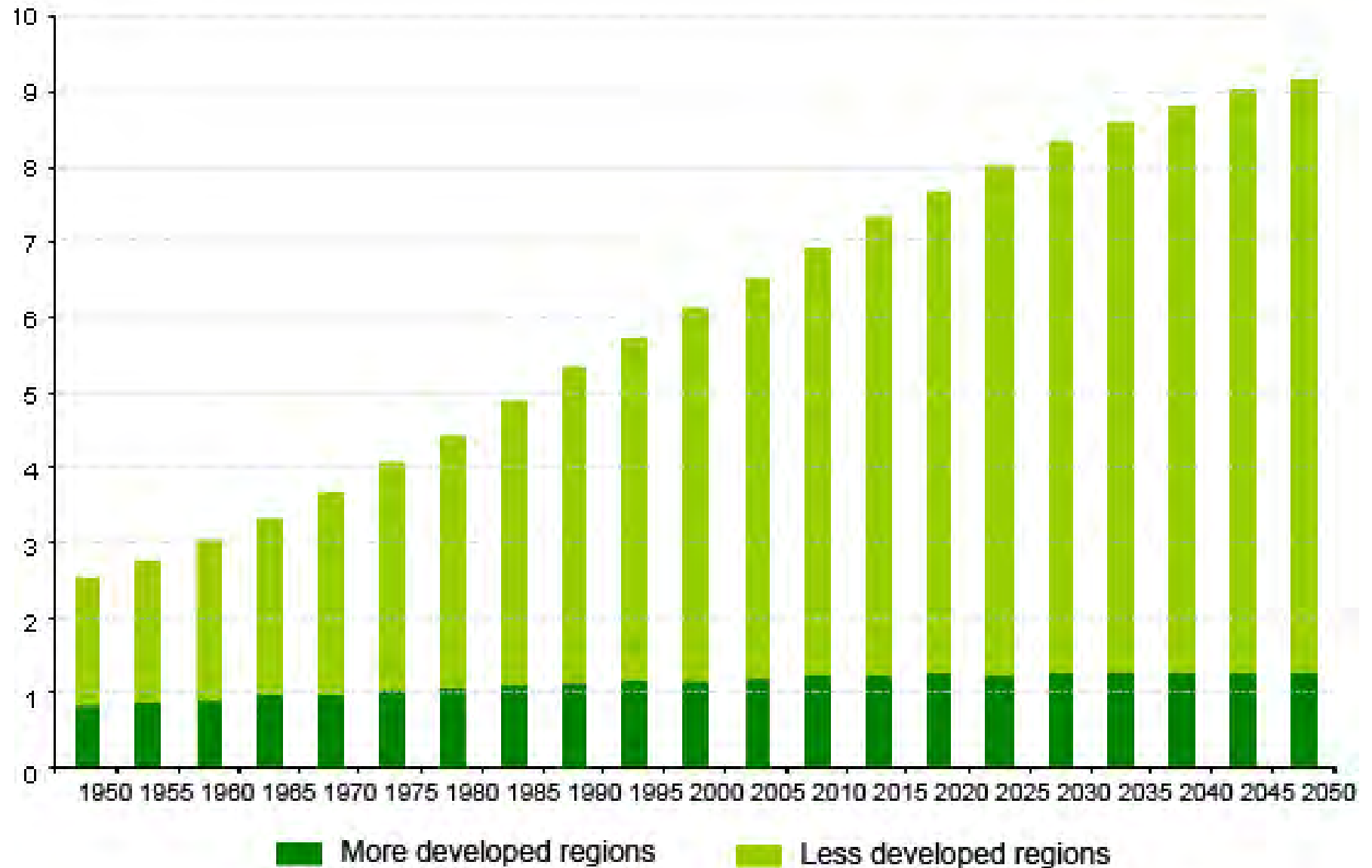
world

2.



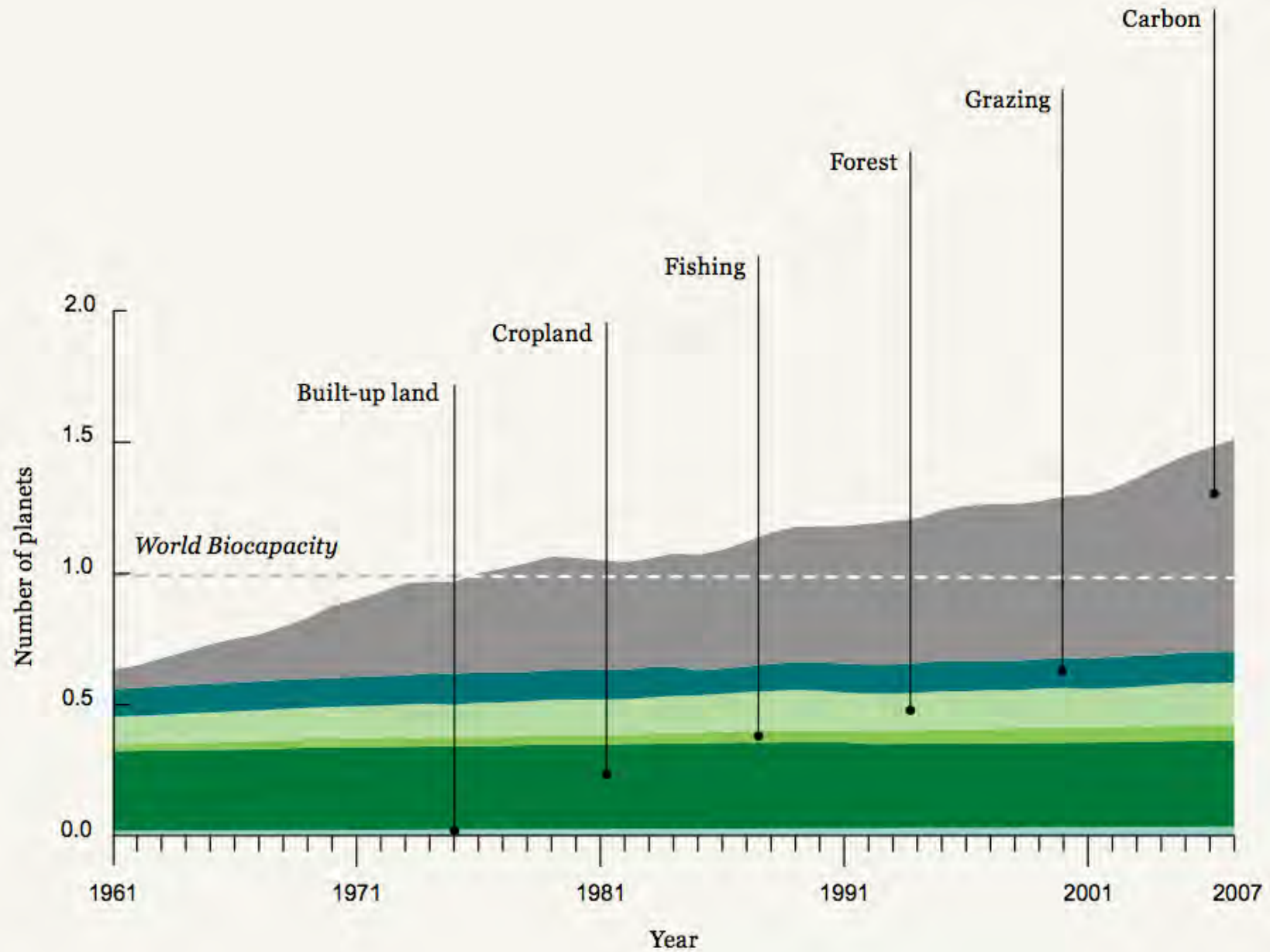
world population

2.



Growth Ecofootprint

2.



2.





NL

2.

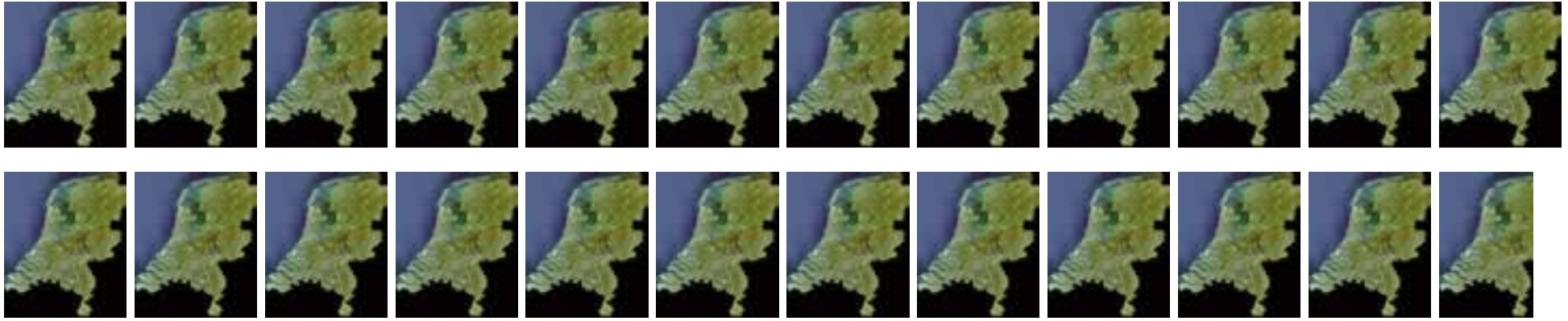
6 gha. / inhabitant NL

NL 4.152 .800 ha.

16,4 mill inhabitants (2007)

98.400.000 gha. necessary

23,7 x NL





1 ha. 1 ha. 1 ha. 1 ha. 1 ha. 1 ha.

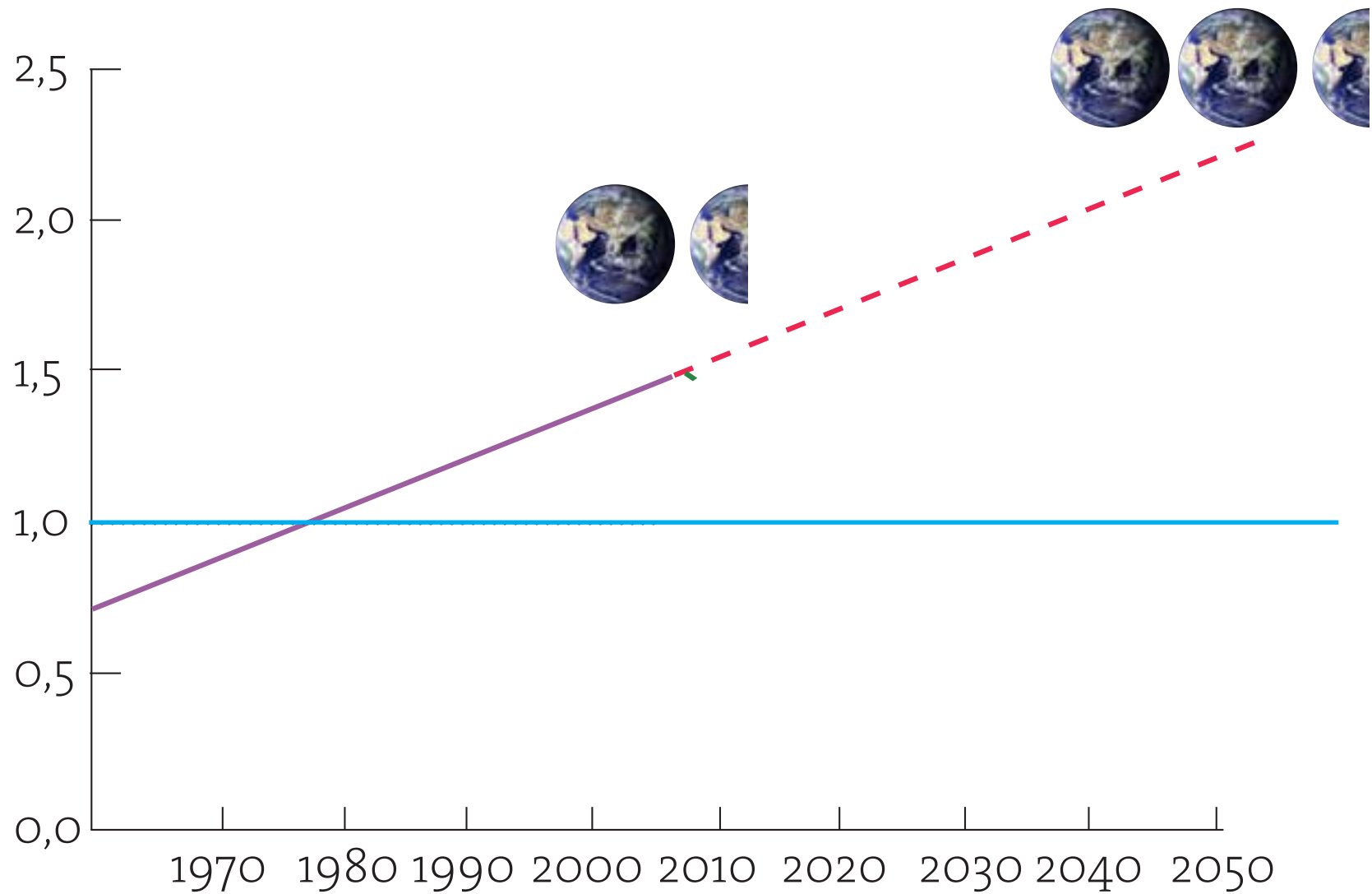
NL

2.



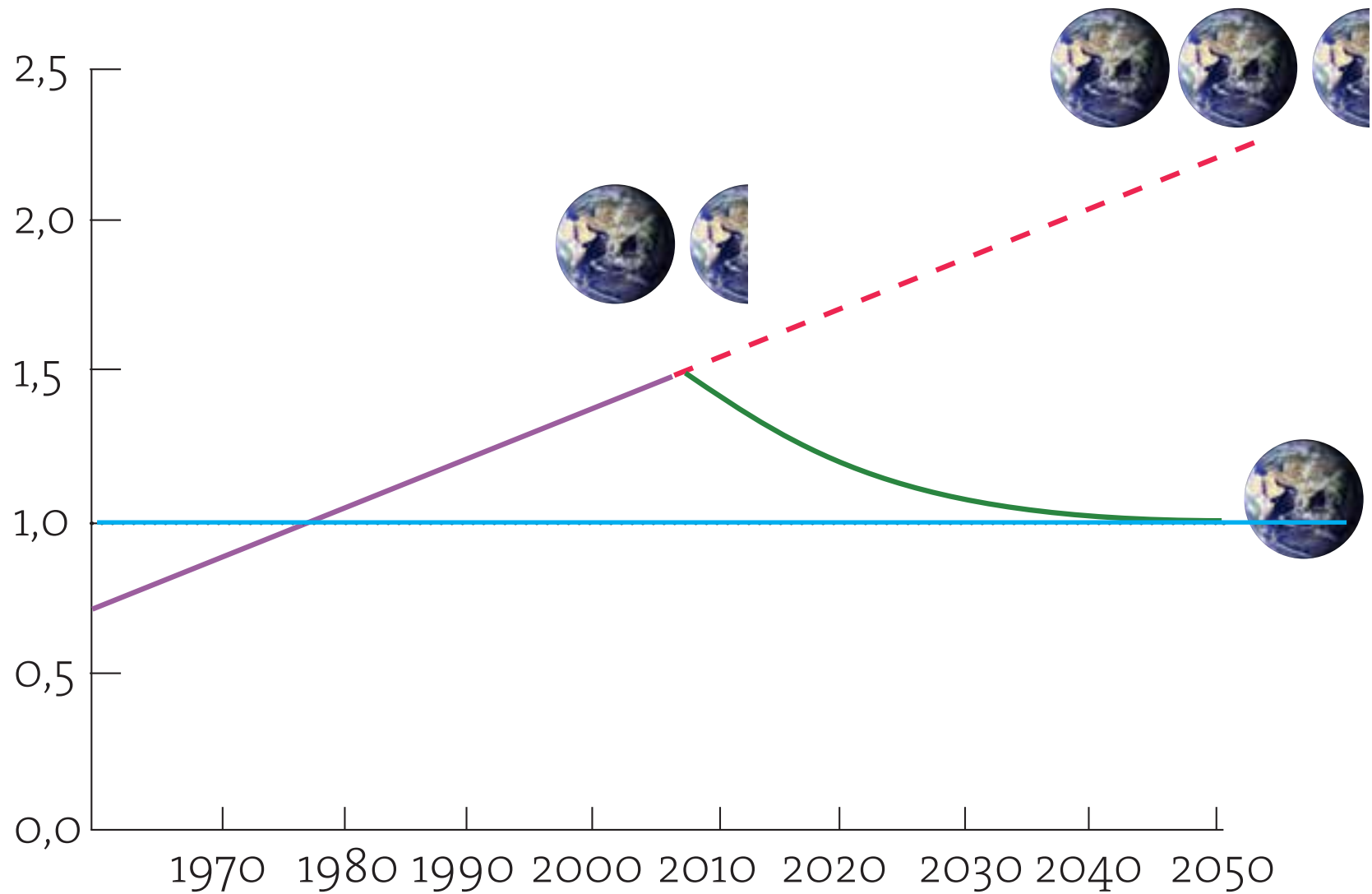
global eco footprint

2.



global eco footprint

2.



economy, ecology & morality
compete

2.



less terrible

less bad

improve within field of problem



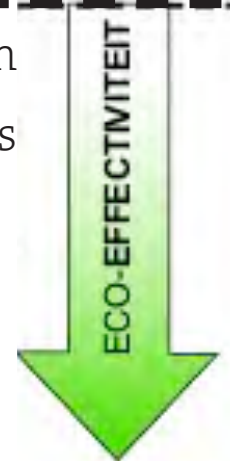
economy, ecology & morality
compete

2.



less terrible
less bad
improve within field of problem

solve outside field of problem
inter-generative solutions



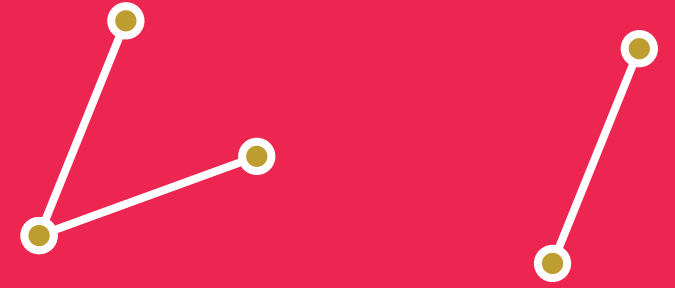
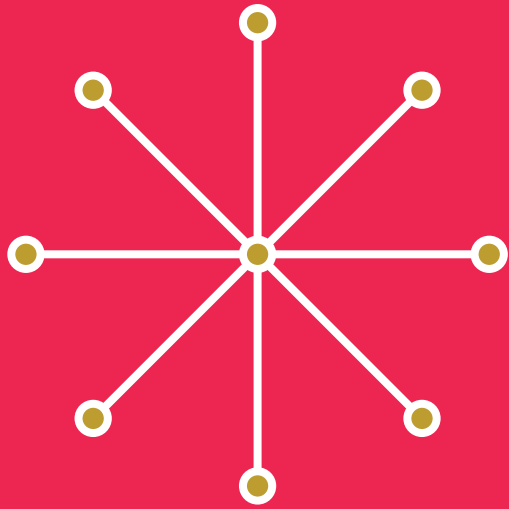
economy, ecology & morality
strengthen each other

2.

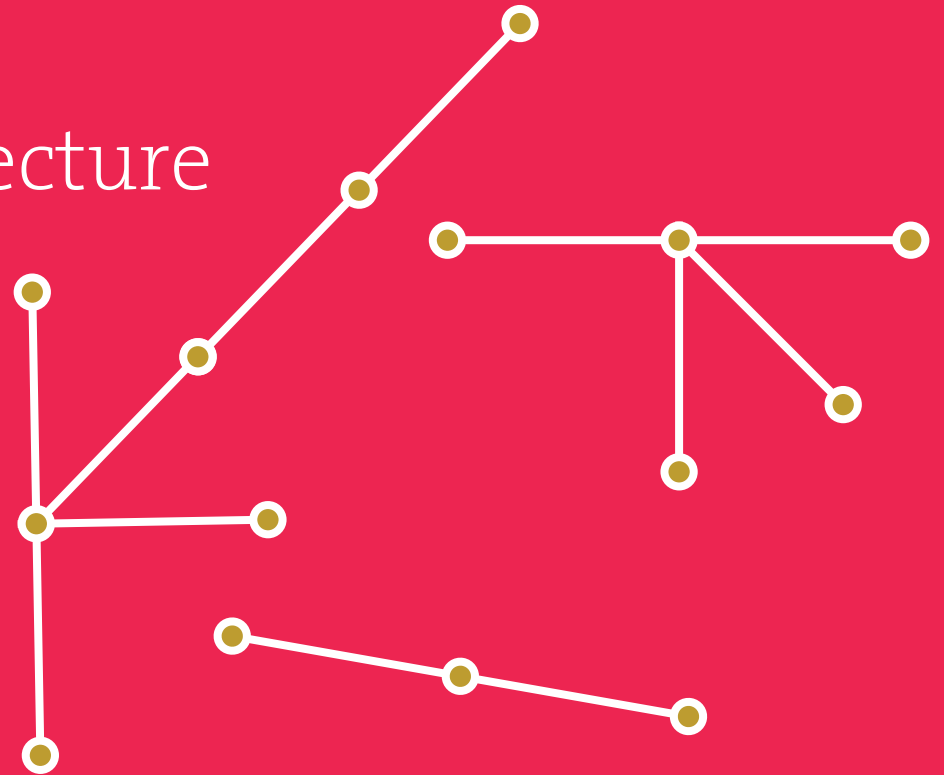
impuls response

2.

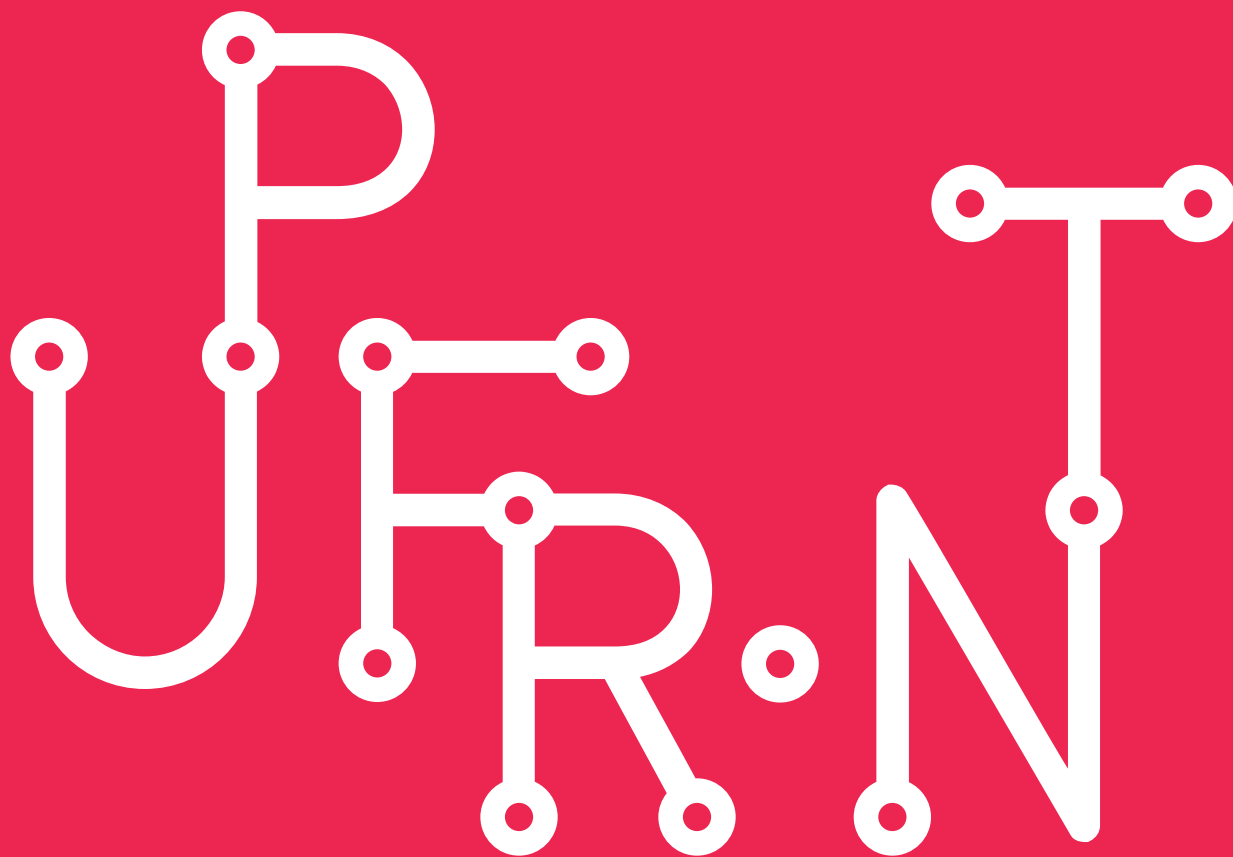
impuls choice response



3. The up-movement in architecture



3.



needs and waste

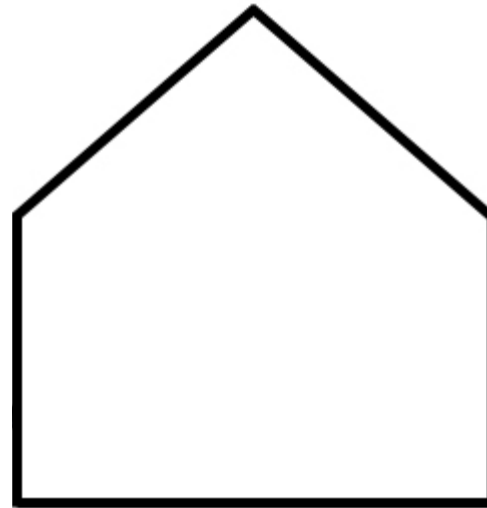
3.

energy → heat
→ cold
→ electricity
→ gas

light → (day)light
air → fresh air

drink water → drinkwater
rain water → flushwater

food →



heat →
cold →

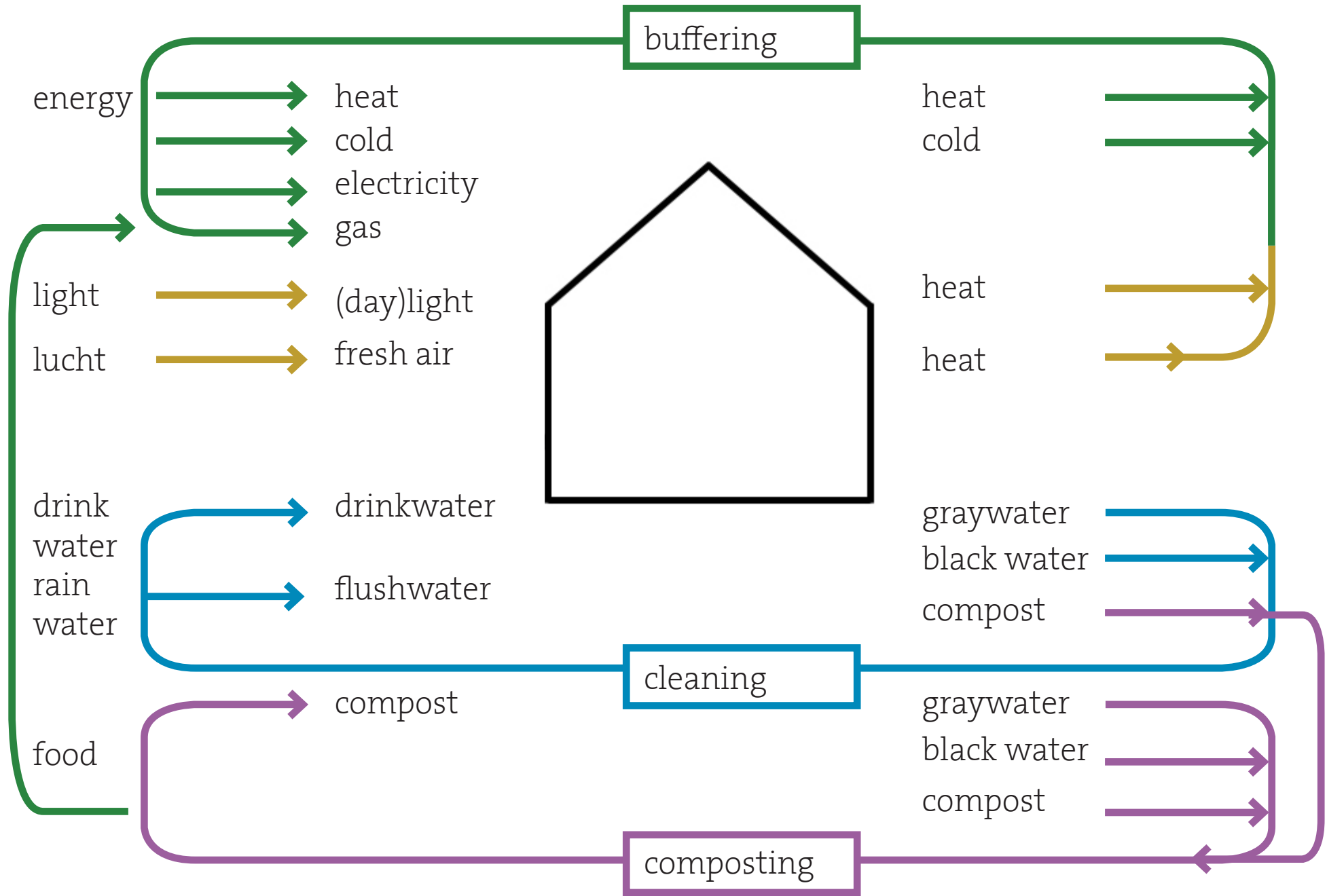
heat →
heat →

graywater →
black water →
compost →

graywater →
black water →
compost →

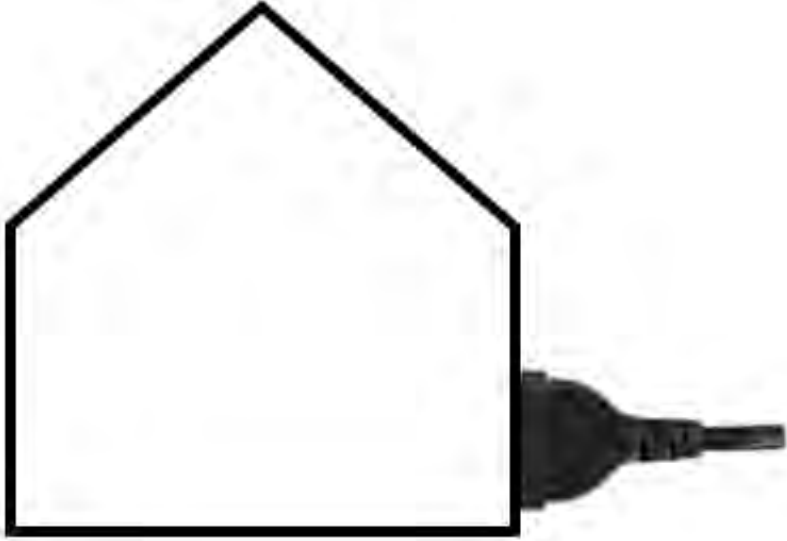
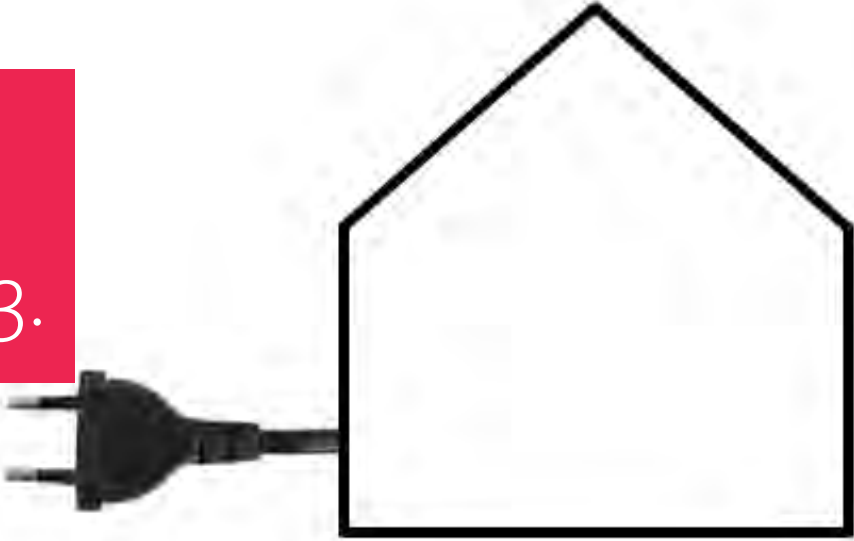
closing circles

3.



Ambition energy delivery

3.



business as usual

investment + energy



today

20jr.

3.

passive

investment + energy



today

20jr.

3.

investment

+ shadowcosts



today

20jr.

3.

investment



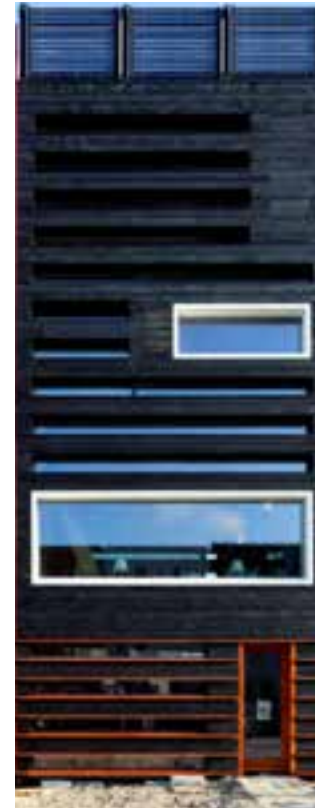
today

+ shadowcosts



20jr.

3.



4. Steigereiland 2.0

cradle 2 cradle

passive

energy neutral

spacial:

- proportion (1m longer)
- different floors
- different views

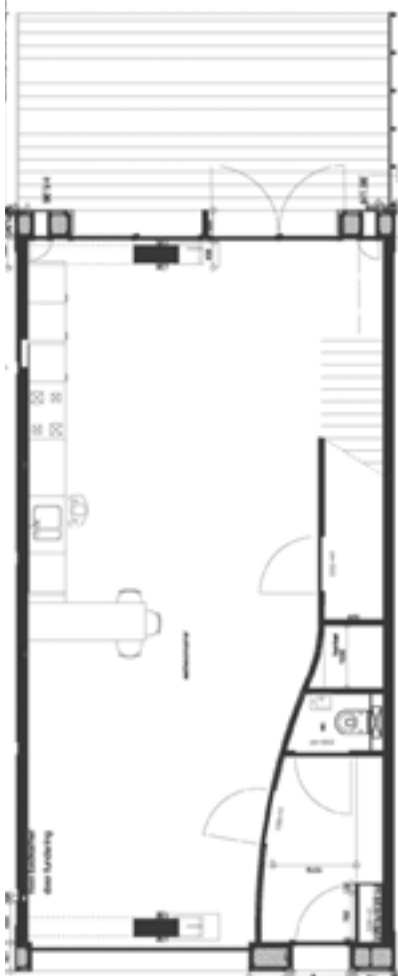
technical:

- better insulation
- reusable materials / flexibel
- passive cooling (ventilation / pcm)
- efficient ventilation / heating
- sustainable tapwater heating
- energy use compensation

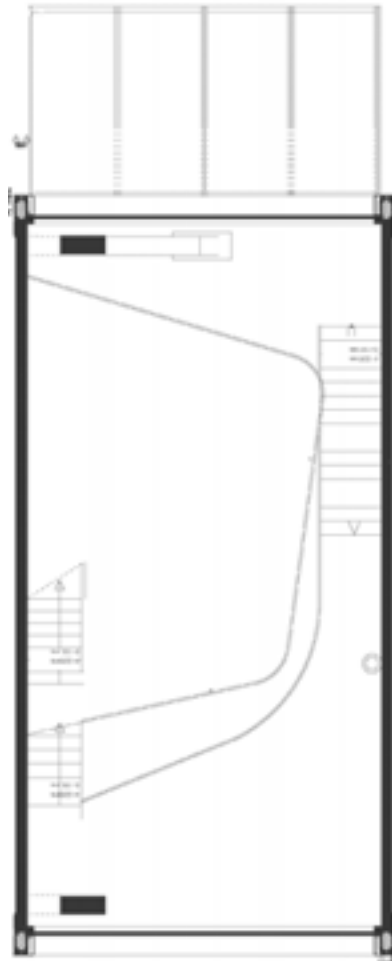
4.



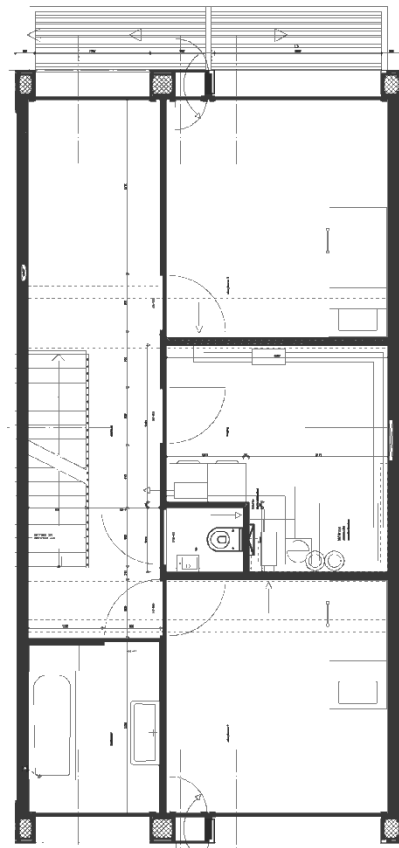
4.



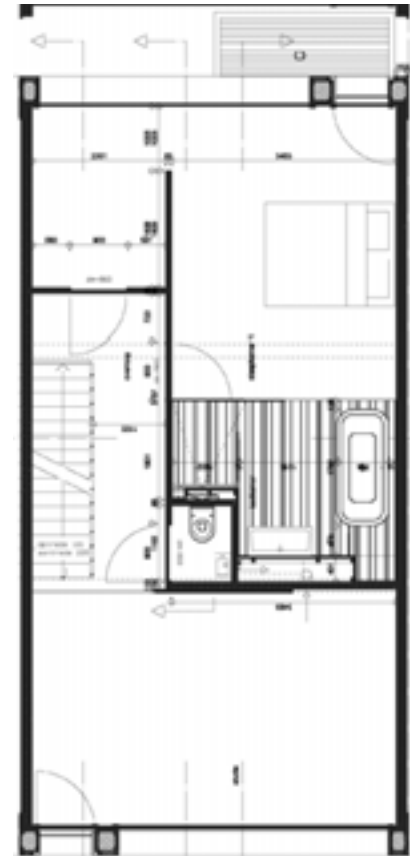
ground floor



1st floor



2nd floor

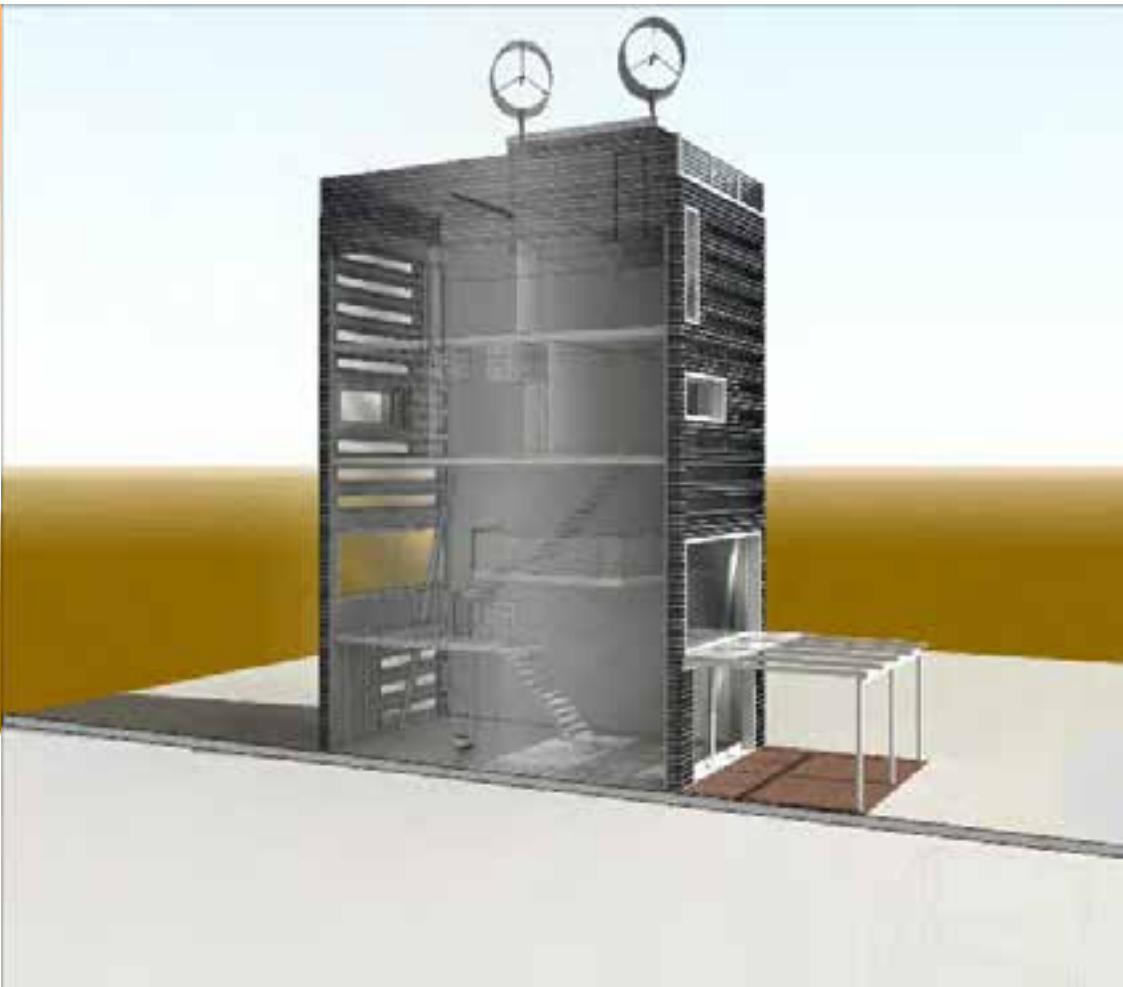


3rd floor

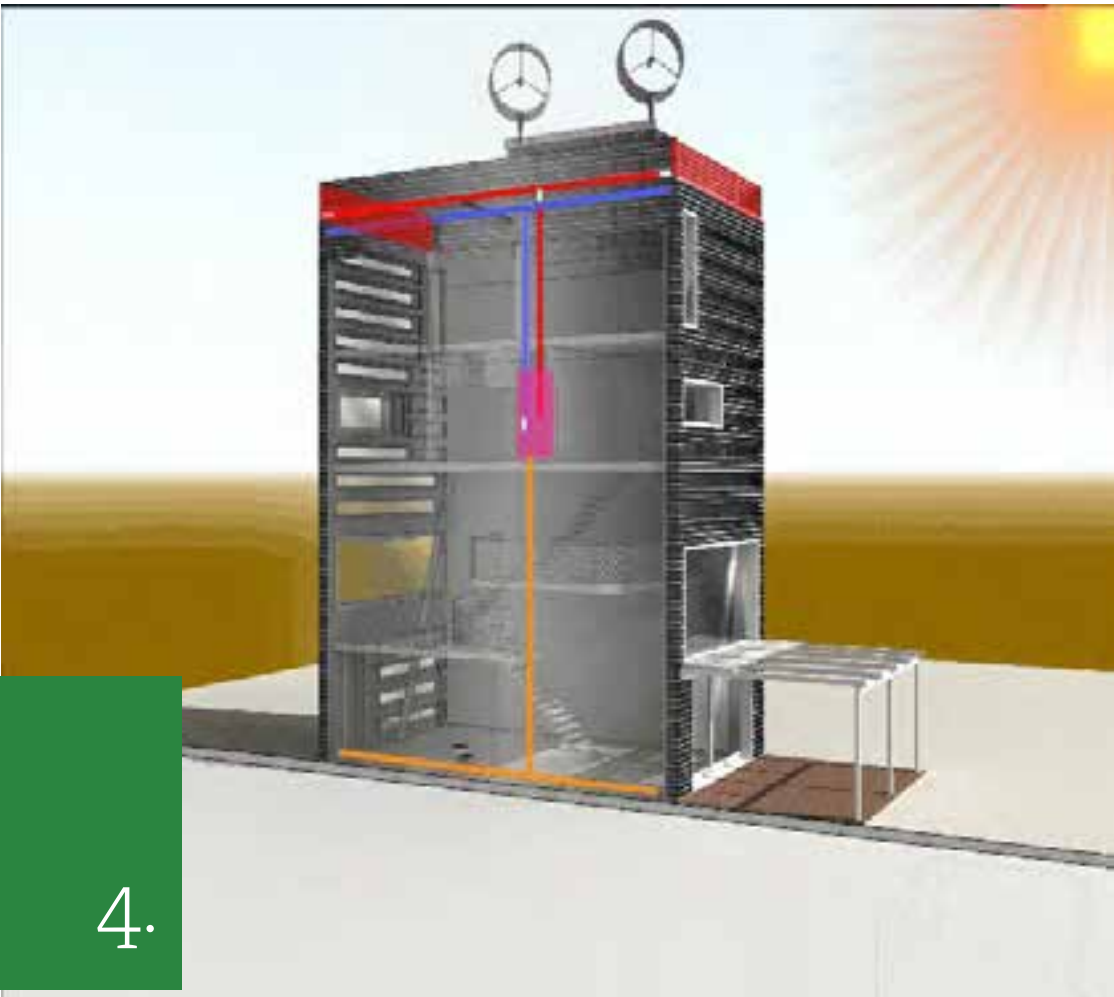


4.

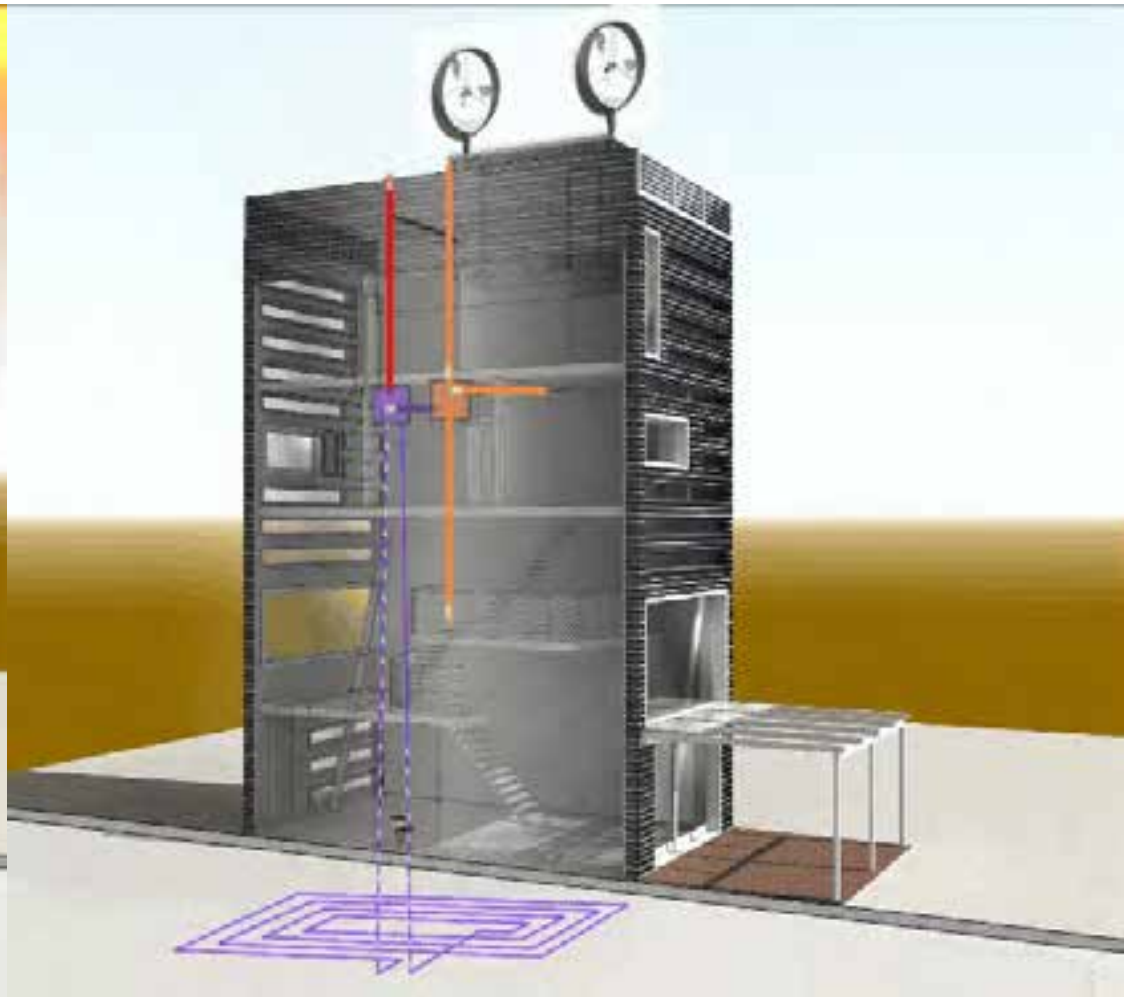
passive sunheating



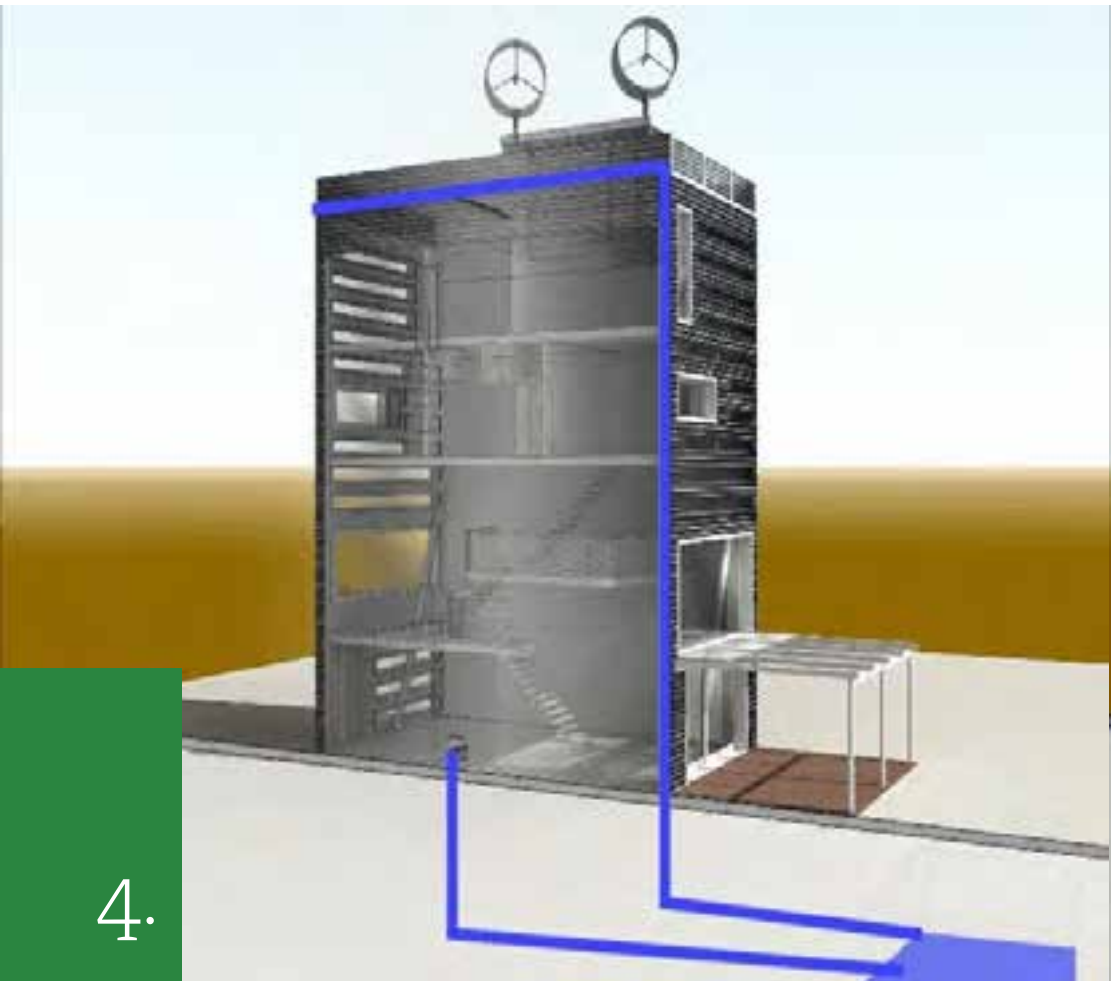
day-night ventilation



active sunheating



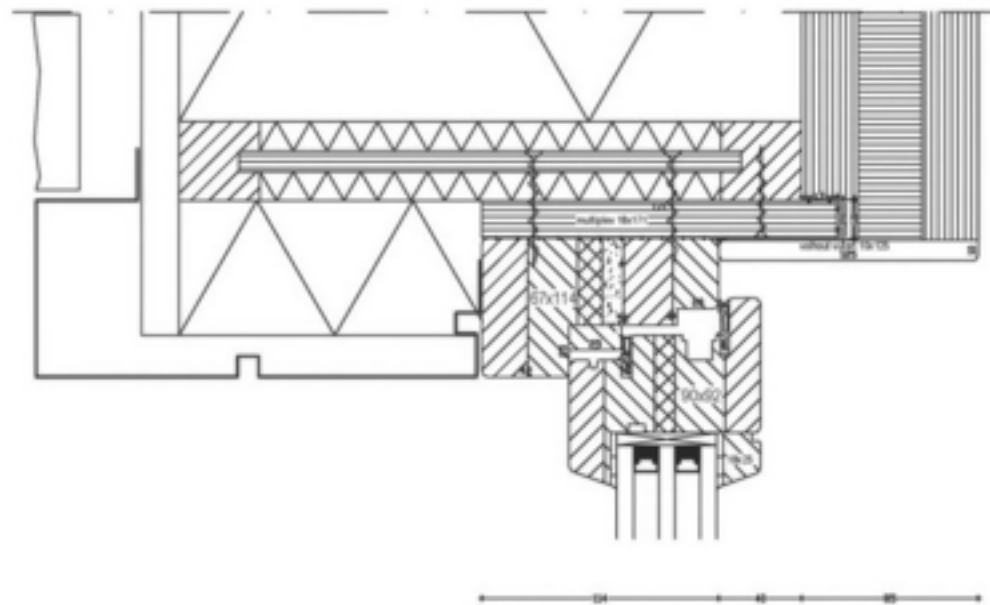
heat-exchange



4.

re-use of rainwater

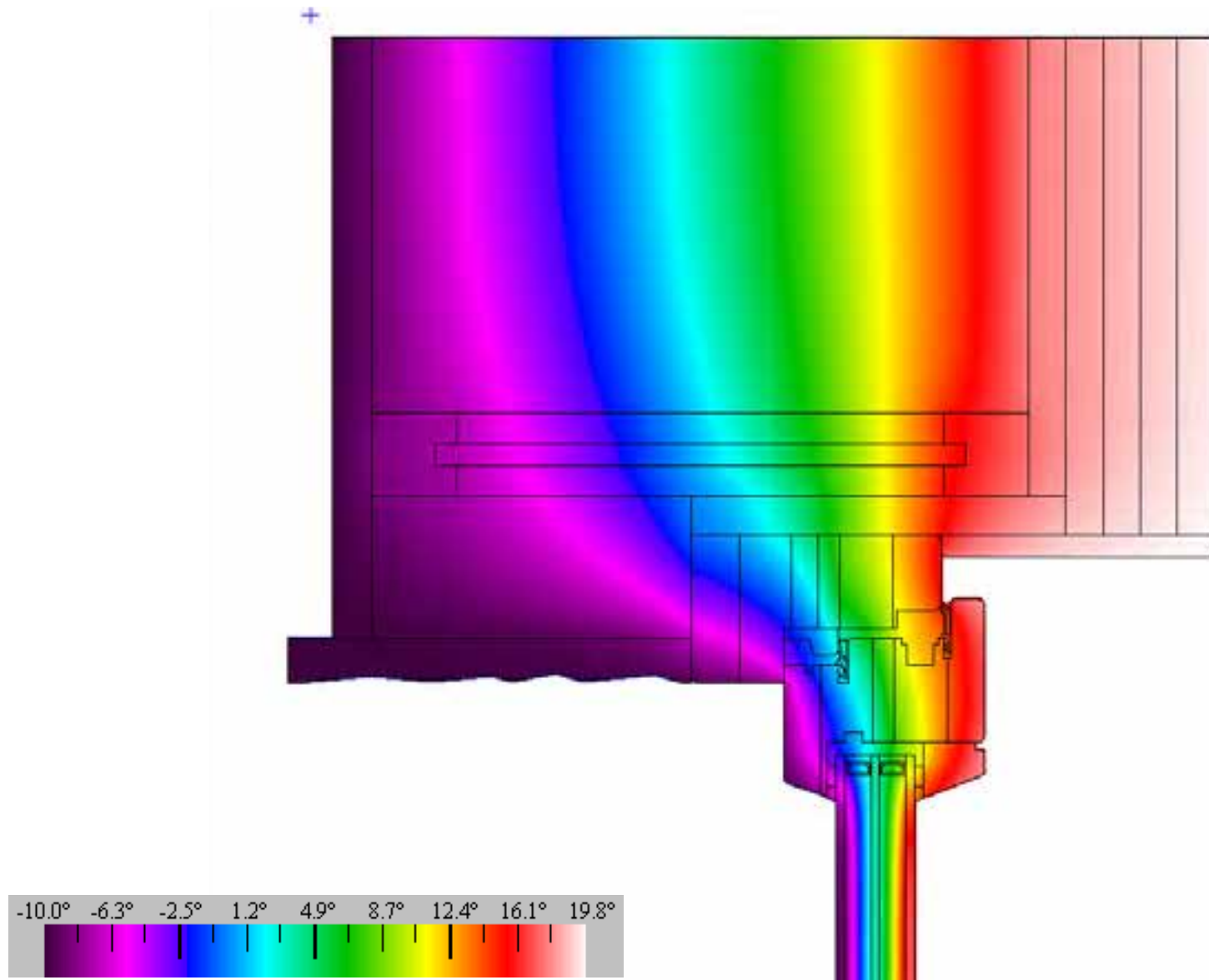
4.



B3

| | | |
|--|--|---|
| Project: Peter Weijnen & Renata Fabiana | | Date: 18-12-2006 |
| Detail: Details | | |
| Title: Planning Stageshand | | |
| Author: van@overbeek.nl | | |
| Drawing: Ein Schenckberg | | |
|  OVERBEEK bv | | 9015 1.3 |
| The Netherlands 1318 CA Amsterdam Tel: 020 412 7400 | |   |
| Product ID: 1000-4000-000000-0000-0000-0000-0000-0000 | |  |

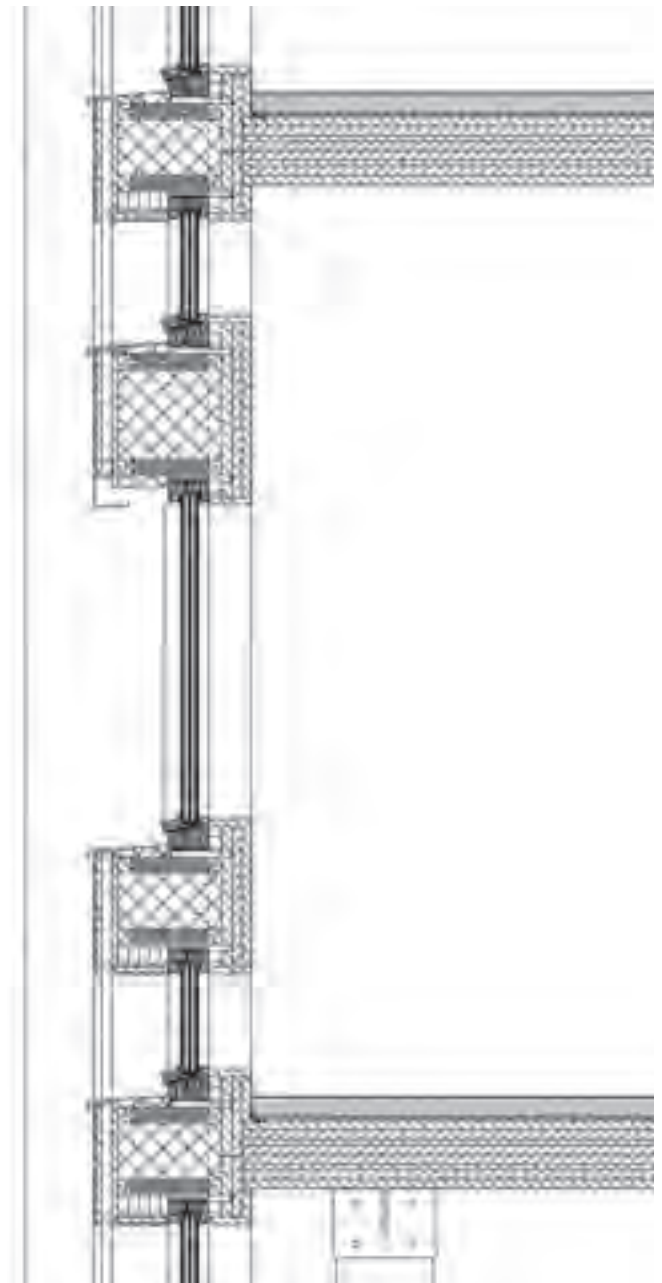
4.



4.



4.



4.



See For You © Föllmi Photography

use of wood
walls: Lenotech
facades: leno-kerto,
FinnJoist with
insulation
floors: Lenotech
cladding: charred larch



storage CO₂
less primair energy
light material,
handleable





Insulation : woodfiber

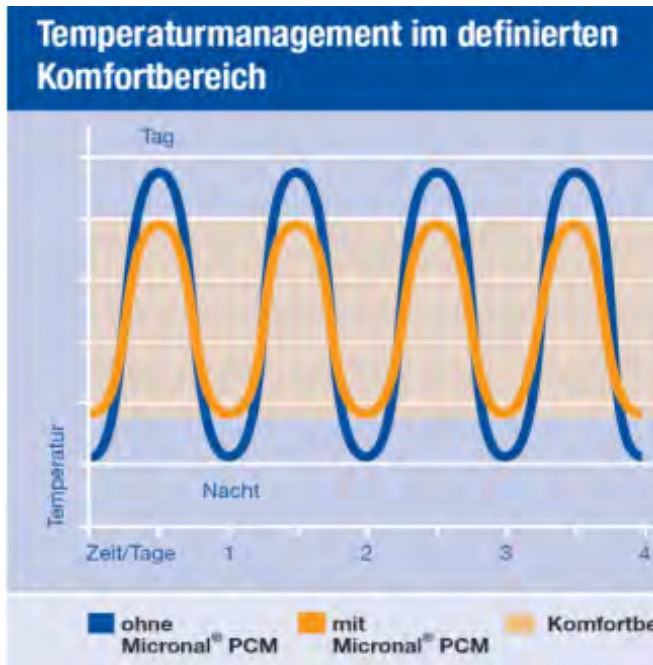
organic insulation material
- temperature balancing
effect

$\lambda = 39 \text{ mW/m}^2\text{K}$
open damp diffusion

use in facades (30 cm)

4.



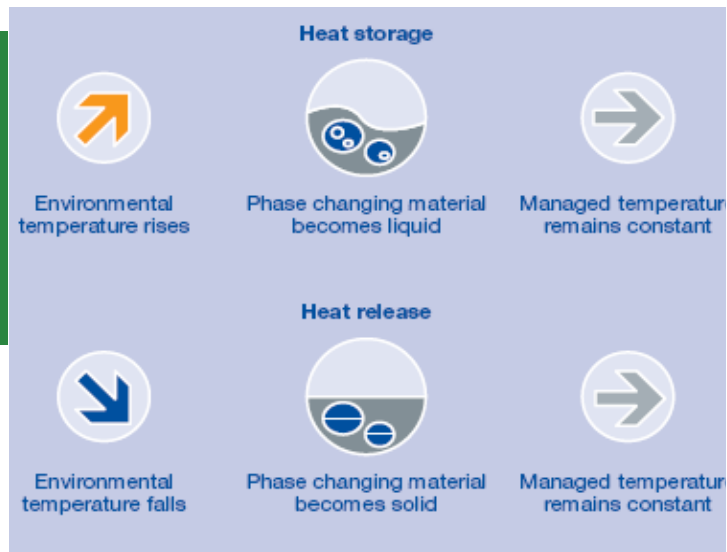


Lebast

Limestuc with PCM
(Phase Changing Material)

based on parrafine
melts by 21 degrees
celcius
accumulates heat
mixed in limestone
panels
used on highest floor

4.



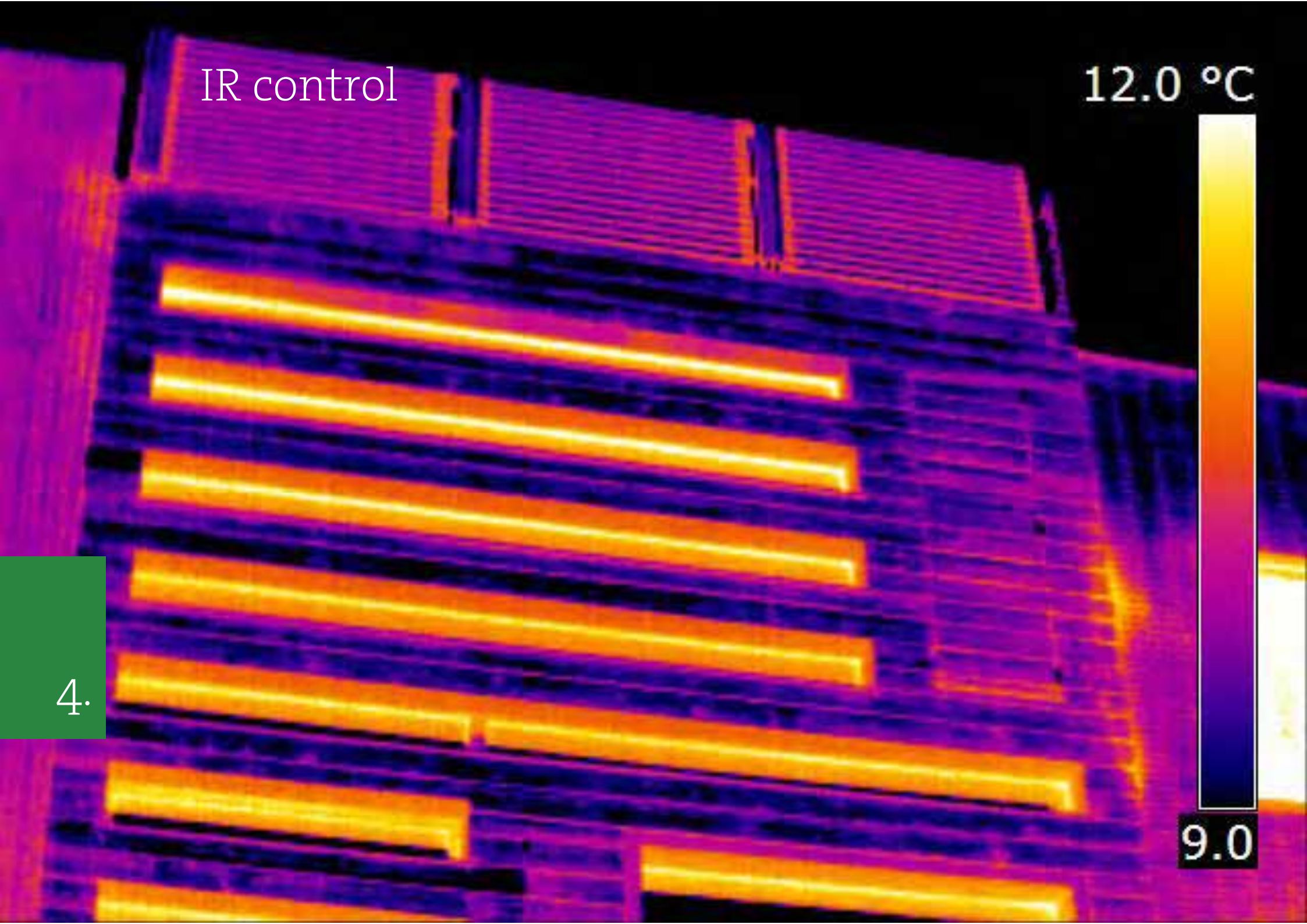
Blower door test



4.

IR control

12.0 °C



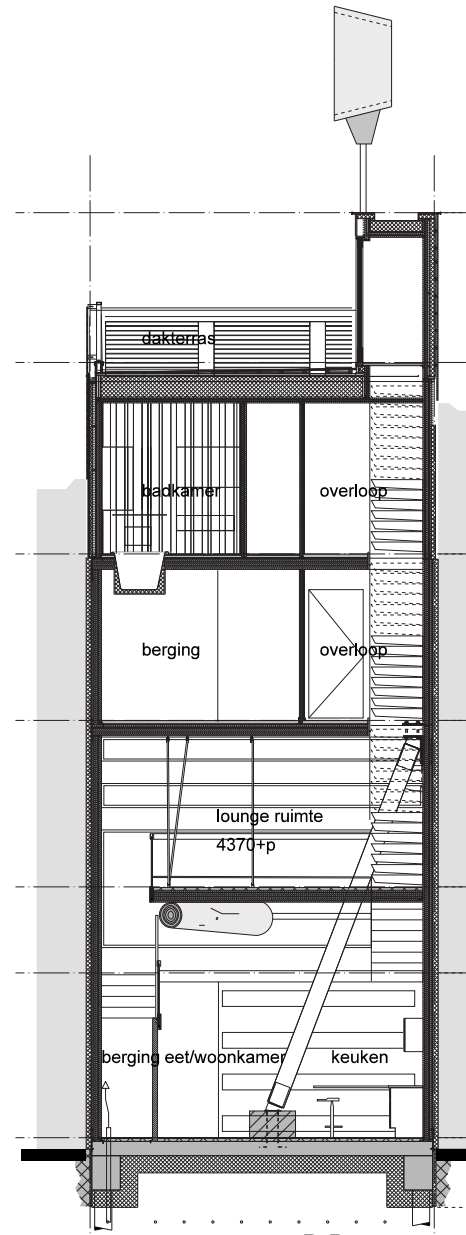
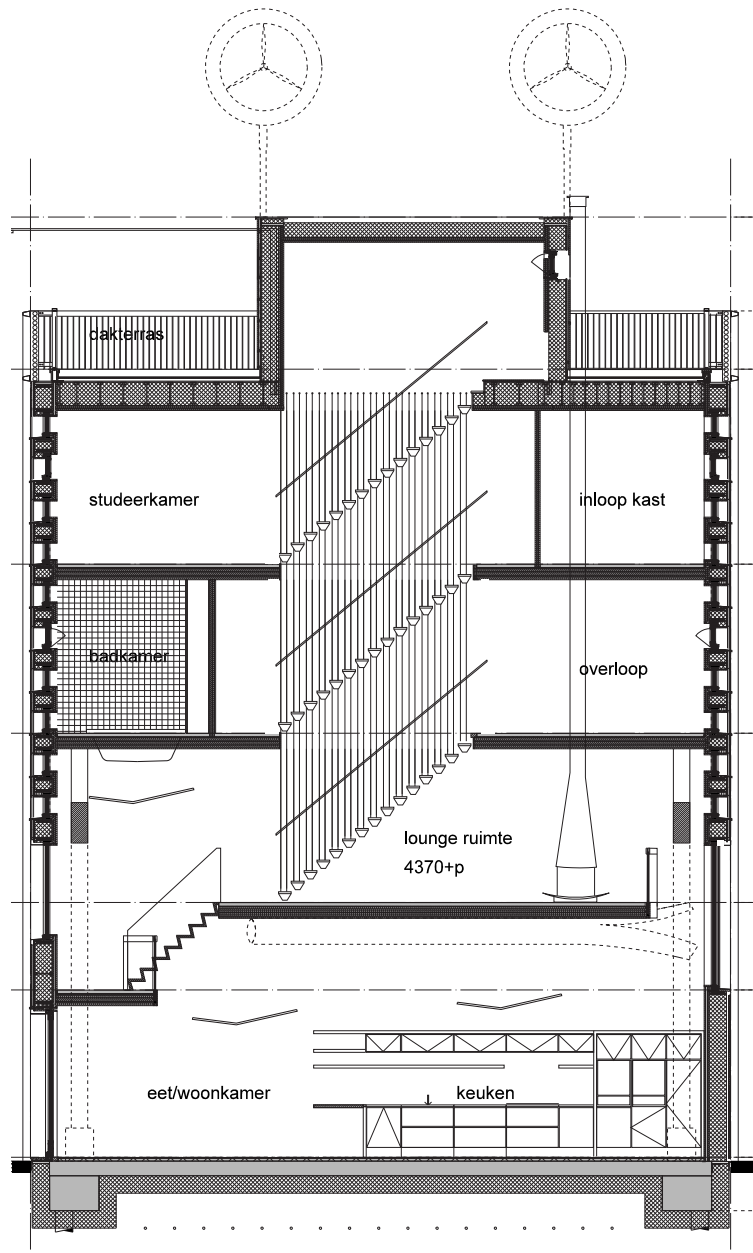
4.

9.0





4.





4.





4.



4.





4.



4.



4.



4.

4.





4.



4.

Terunobe Fujimori

4.





4.



4.



4.





4.



4.

4.



4.





4.



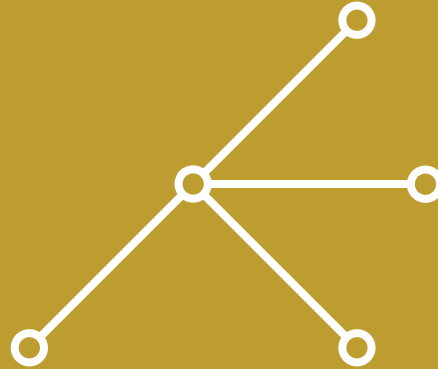
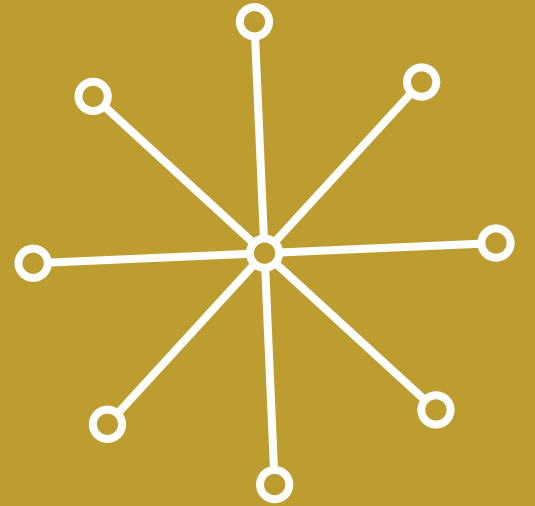
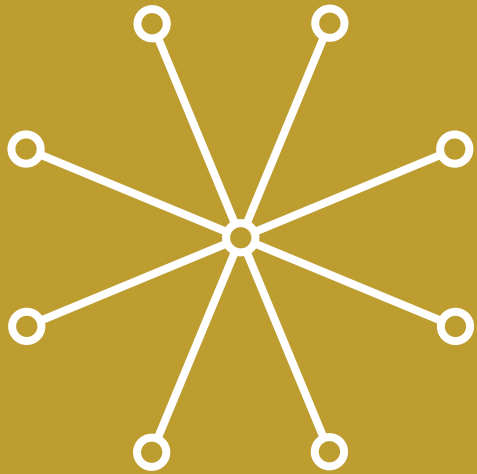
4.

4.





4.



5. next generation

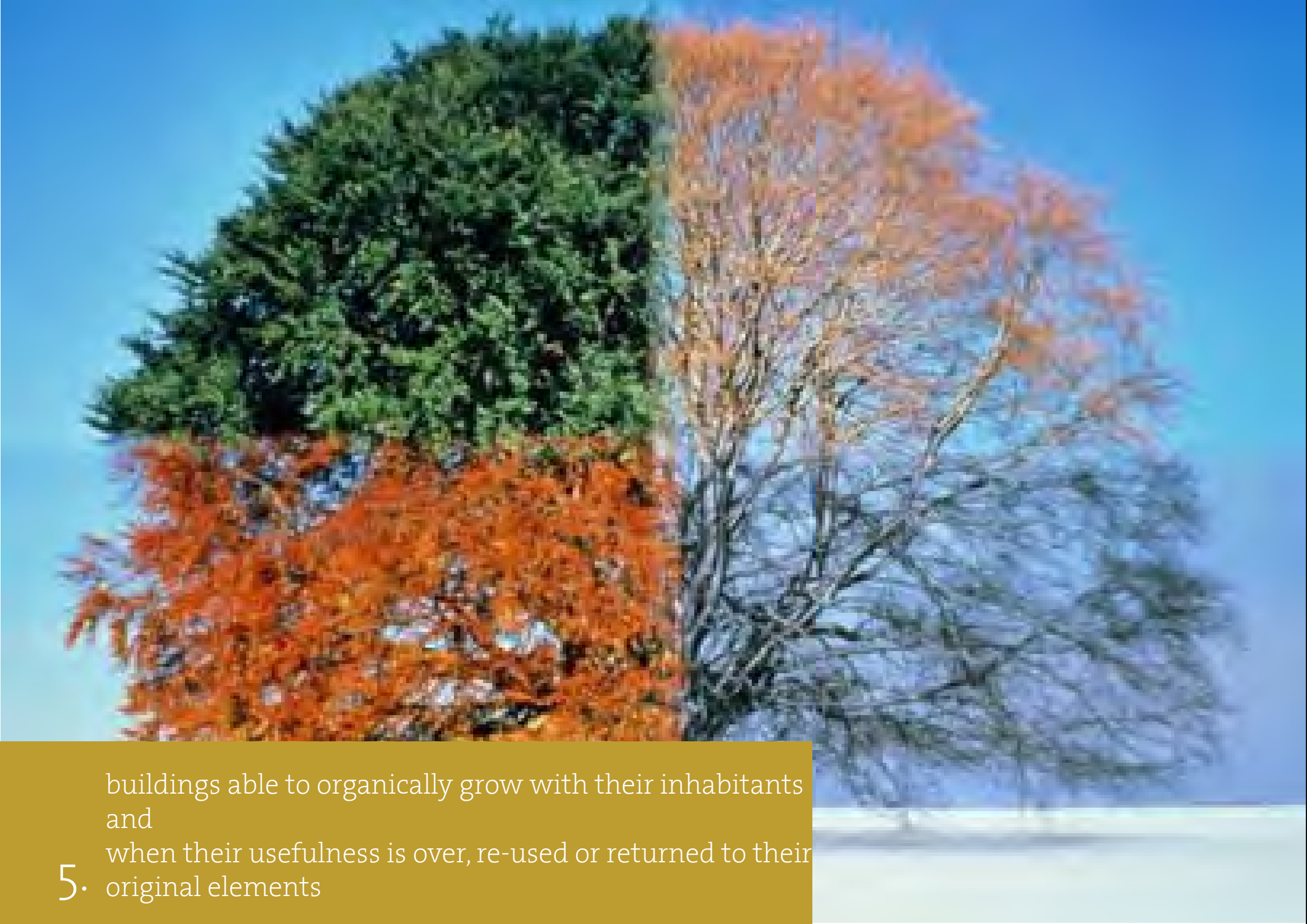


We create

5. architecture with a positive effect on our environmental systems



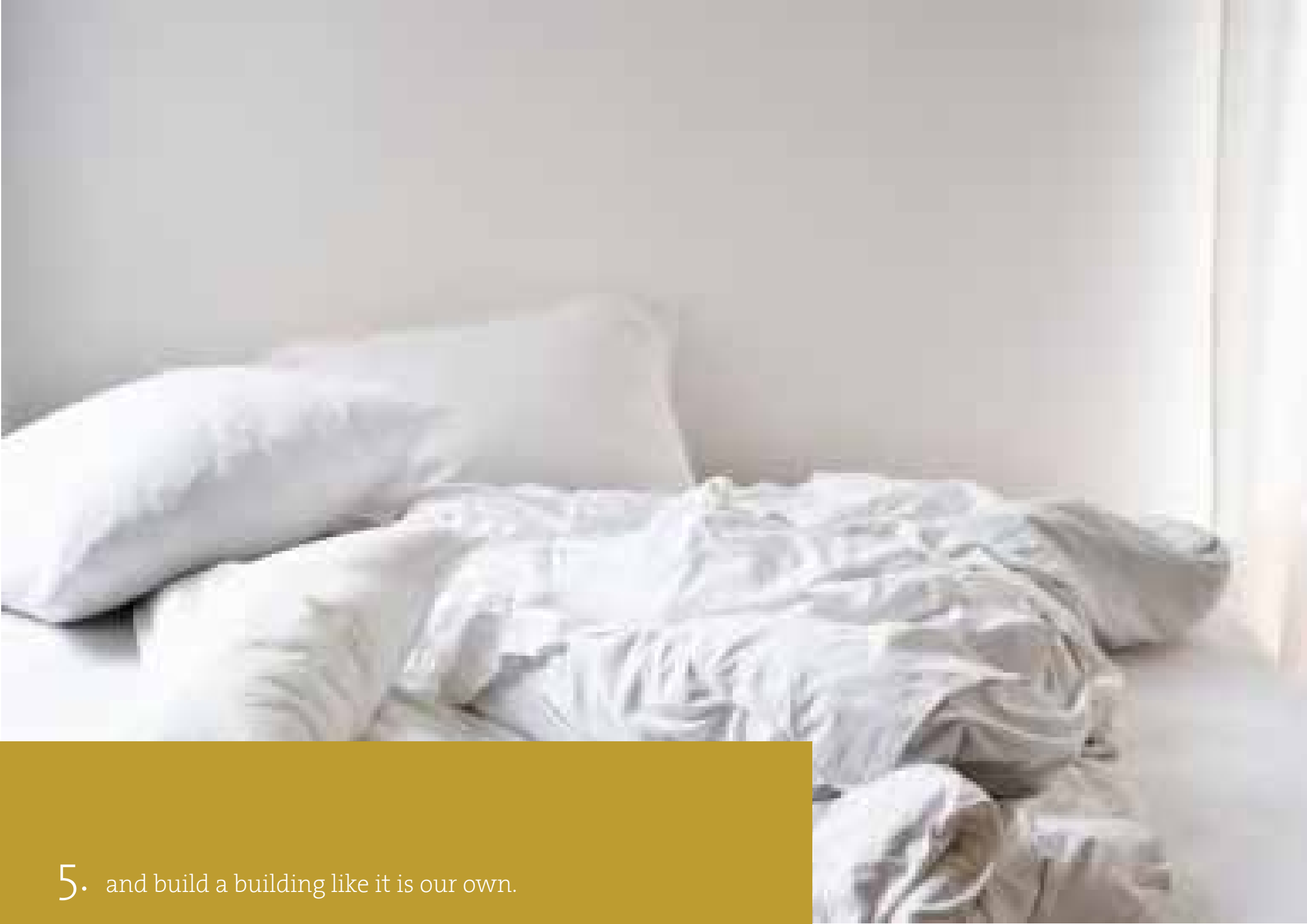
5. societal value with inspired, up-sustainable beauty,
healthy and
diverse architecture



5. buildings able to organically grow with their inhabitants and when their usefulness is over, re-used or returned to their original elements



5. to deliver well-being to the world.



5. and build a building like it is our own.

THIS USED TO BE
MY HOUSE

URN

