

The background of the slide is a painting of a river landscape. In the foreground, a grassy bank slopes down towards a calm river. Several cows are grazing on the grass. In the distance, across the river, a city skyline is visible under a vast, cloudy sky. The painting is in a soft, impressionistic style with muted colors.

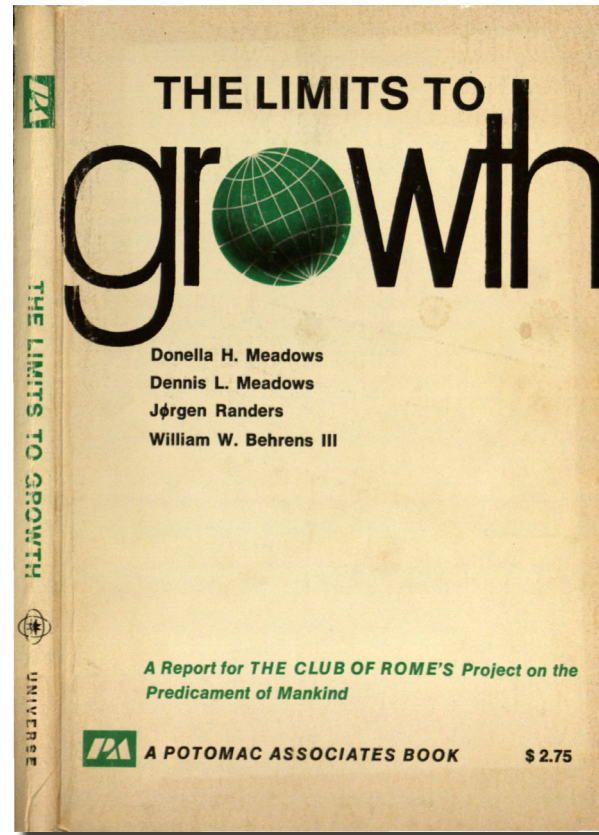
Regrowth

imagining renewed values for space

Roos te Velde 4646517. June 20, 2024
Metropolitan Ecologies of Places P5 presentation
Mentors Cecilia Furlan and Remon Rooij
Delegate Simona Bianchi

Voerman sr, J. (1857-1941). Koeien langs de IJssel bij Hattem [Painting]. Simonis & Buunk

Is the Netherlands the first country to hit **the limits to growth?**



Cover of Limits to Growth (Meadows et al., 1972)





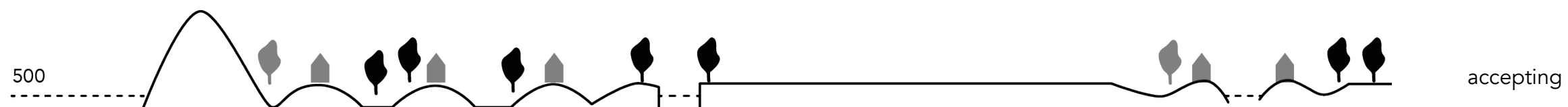


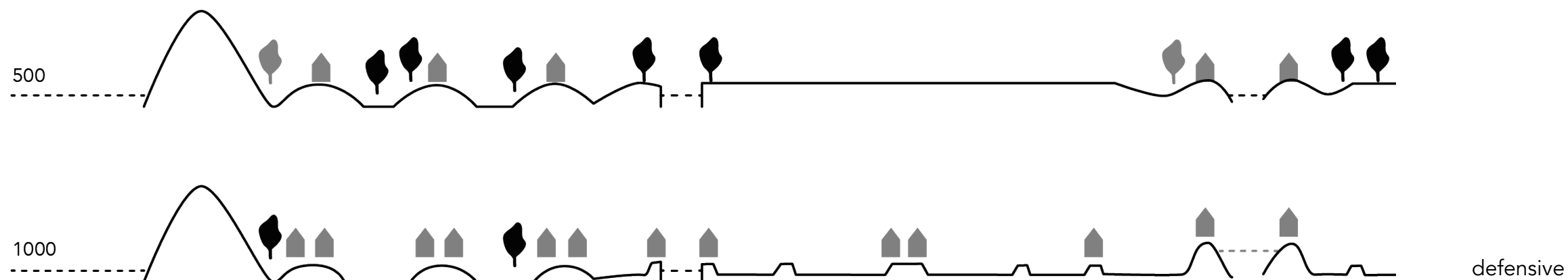


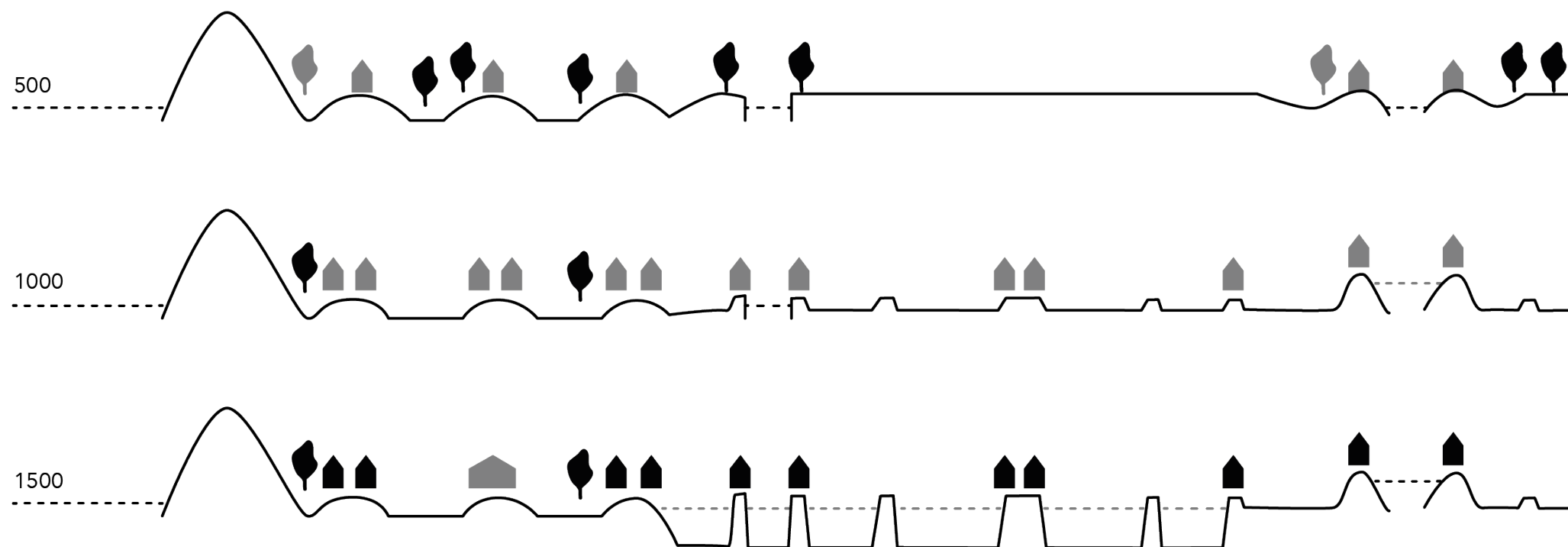
An aerial photograph showing a coastal scene. A paved road with white dashed lines runs diagonally from the bottom right towards the center. To the right of the road is a grassy shoulder. To the left of the road, the water has flooded the area, with some debris floating. In the background, a breakwater or dike extends into the water, with several wooden posts visible. The water is a greyish-blue color.

Regrowth

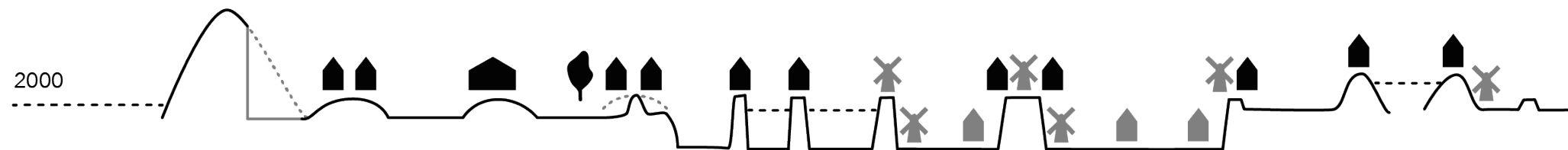
imagining renewed values for space







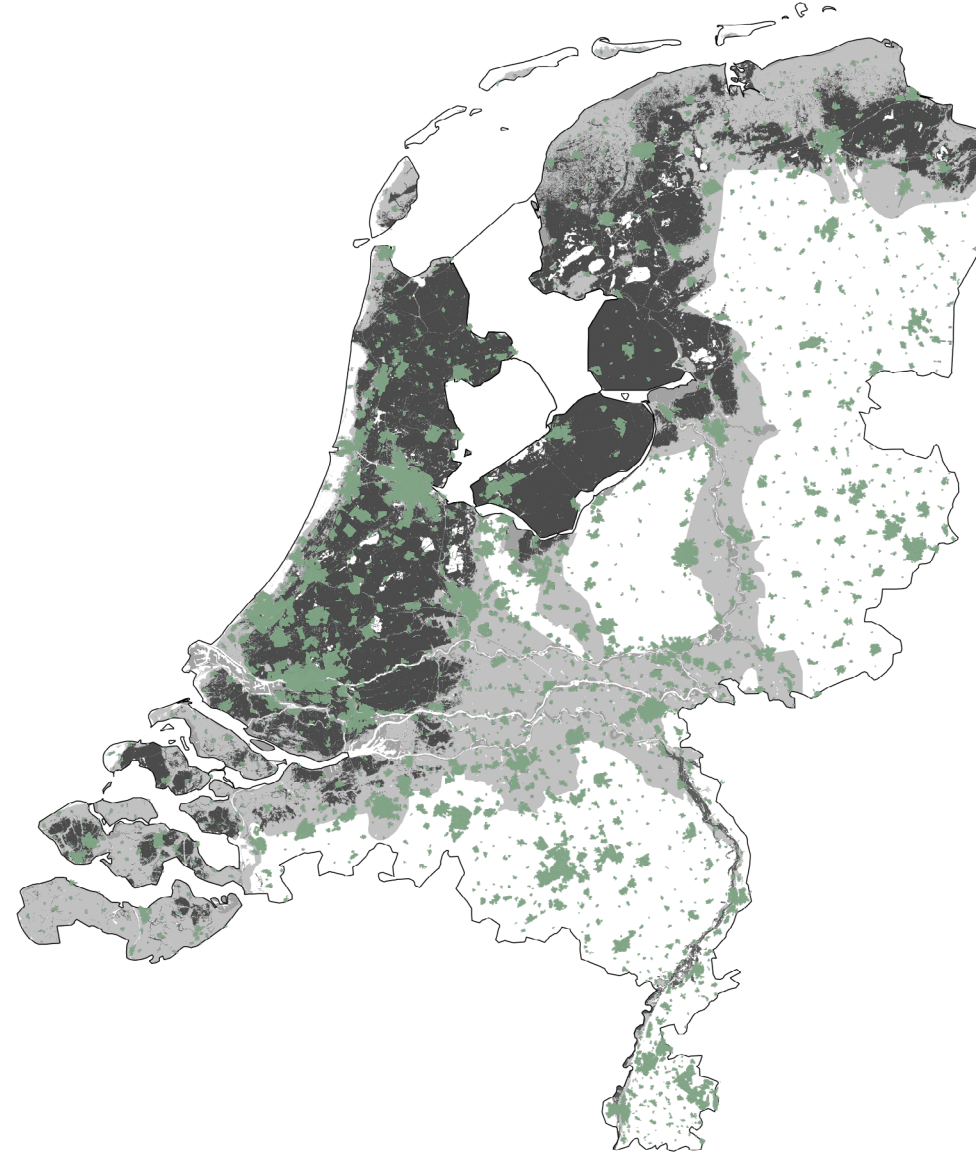
offensive





Welcome below sealevel

Schiphol
Welcome to Amsterdam Airport



Floodable living areas

- below NAP
- above NAP
- urban area



PRINS BERNHARD
IS EEN
ZAK!!

GEEF
GUN
HUIS!

FUCK
VD

RUTTE,
STOP
MET
KUTT

WON
= BAS
RECH

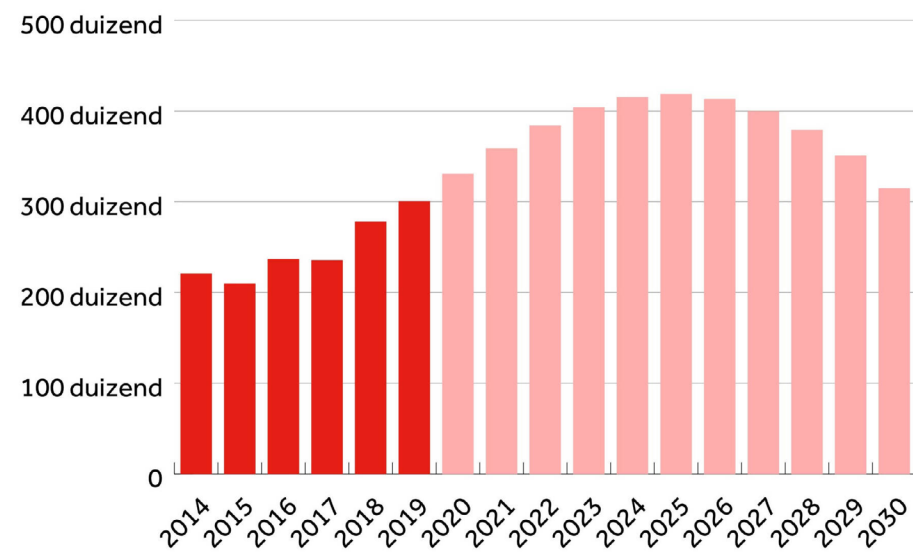
MEER HUIS!
MINDER KOERHUIS

WOON
CRISIS

ISA + SANDER
VILLENIUS
WERKEN DOOR
HIER WONEN

HUISUITZEI TINGEN
WONEN

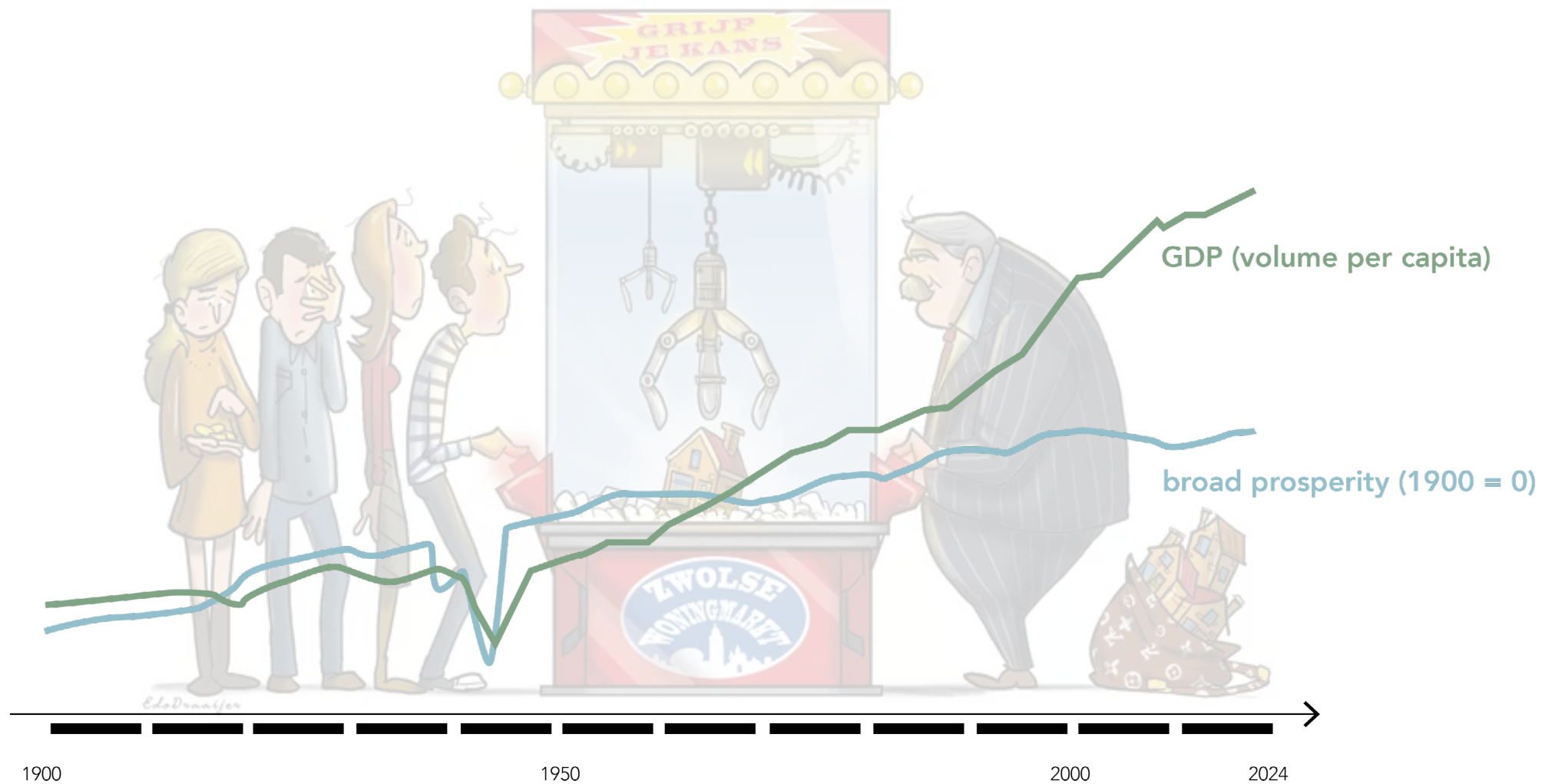
Housing protest in 2023 (ANP)



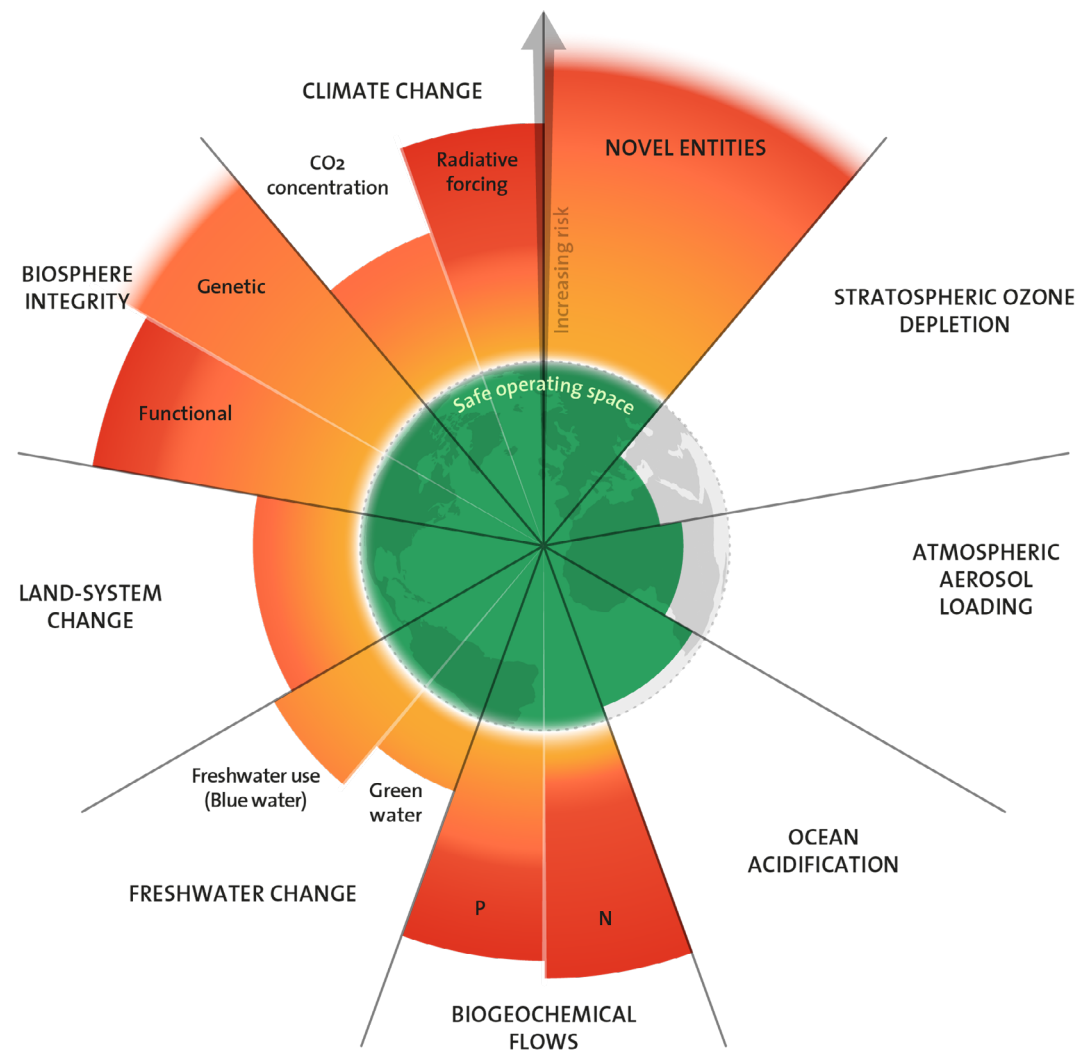
Development housing shortage

- registered shortage
- prognosis



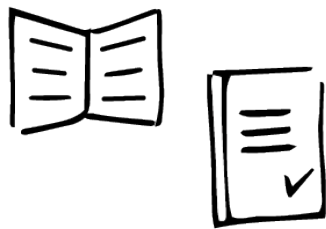


Normalised indices of broad prosperity indicator and GDP per capita, 1900-2020 (van Bavel et al., 2021)

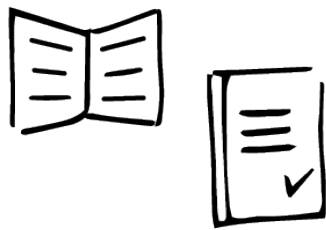


!

an alternative growth



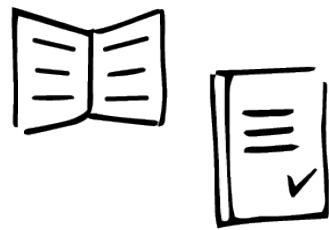
research



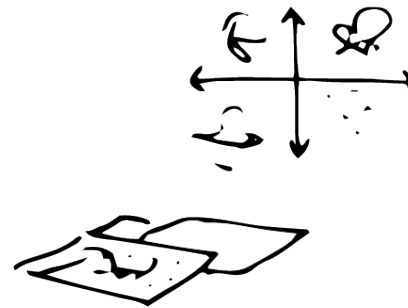
research



society



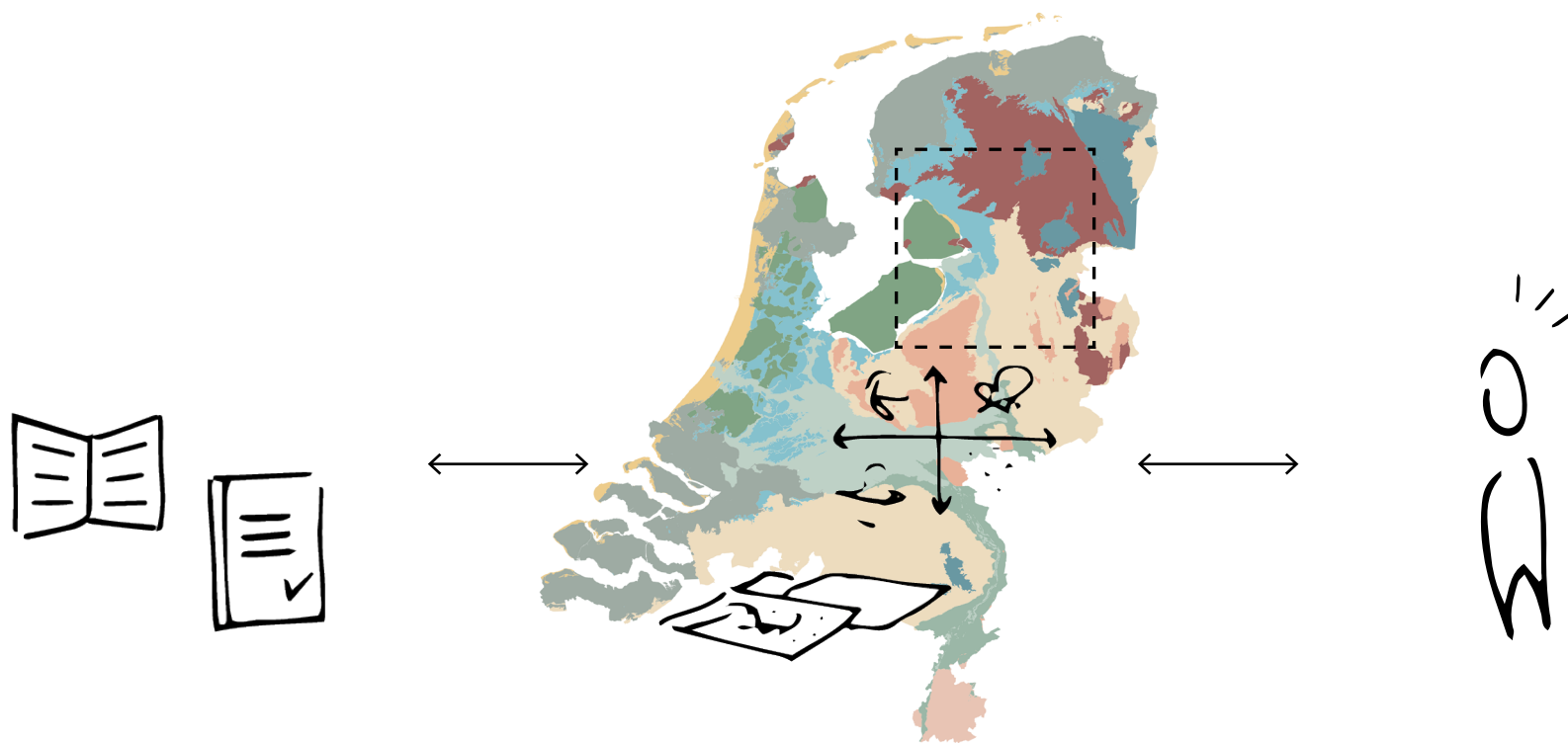
research



design



society



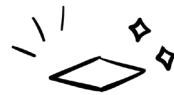
How can a **renewed value-based spatial vision** stimulate an **alternative growth** in the Zwolle region where the housing system can thrive within **social and ecological boundaries**?

3. How are the alternative growth futures imagined and evaluated?

2. What leading trends and values need to form alternative growth-based futures in the Zwolle region to live within social and ecological boundaries?

How can a **renewed value-based spatial vision** stimulate an **alternative growth** in the Zwolle region where the housing system can thrive within **social and ecological boundaries**?

1. What are the social and ecological boundaries the housing system should lie in and how does the Zwolle region align?



renewed value-based spatial vision



alternative growth

social and ecological boundaries





social and ecological boundaries

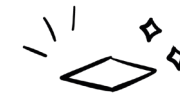
challenge

the situation



an alternative growth

the alternative

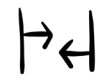


a renewed value-based spatial vision

the imagination

conclusion

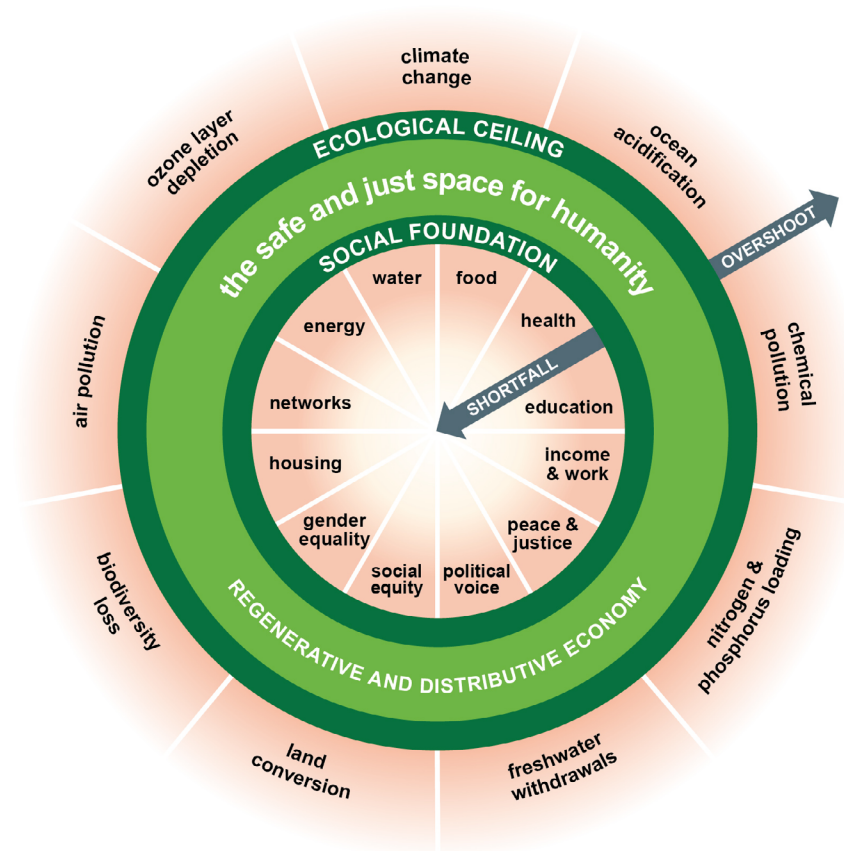
the situation

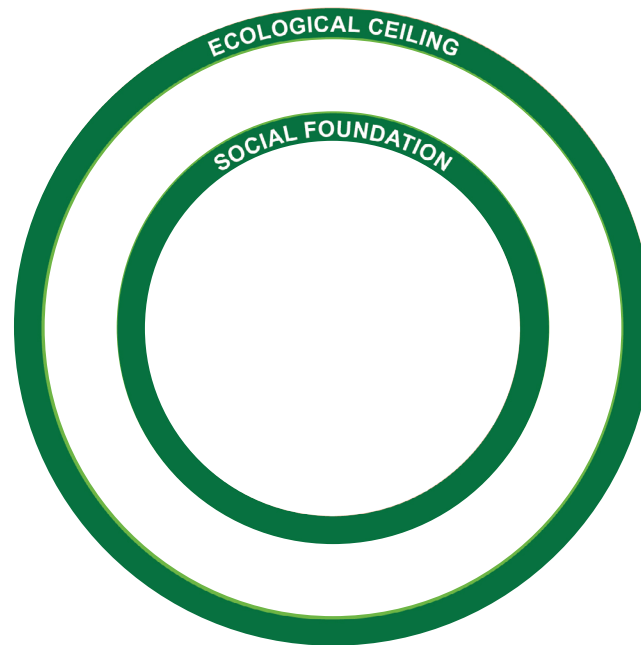


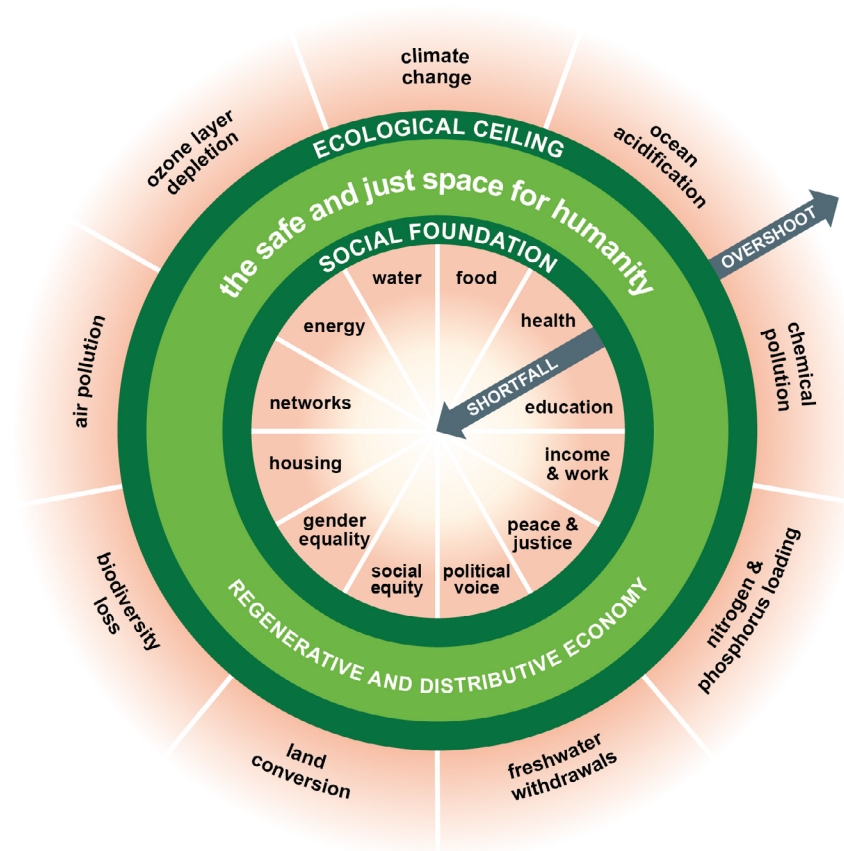
the situation



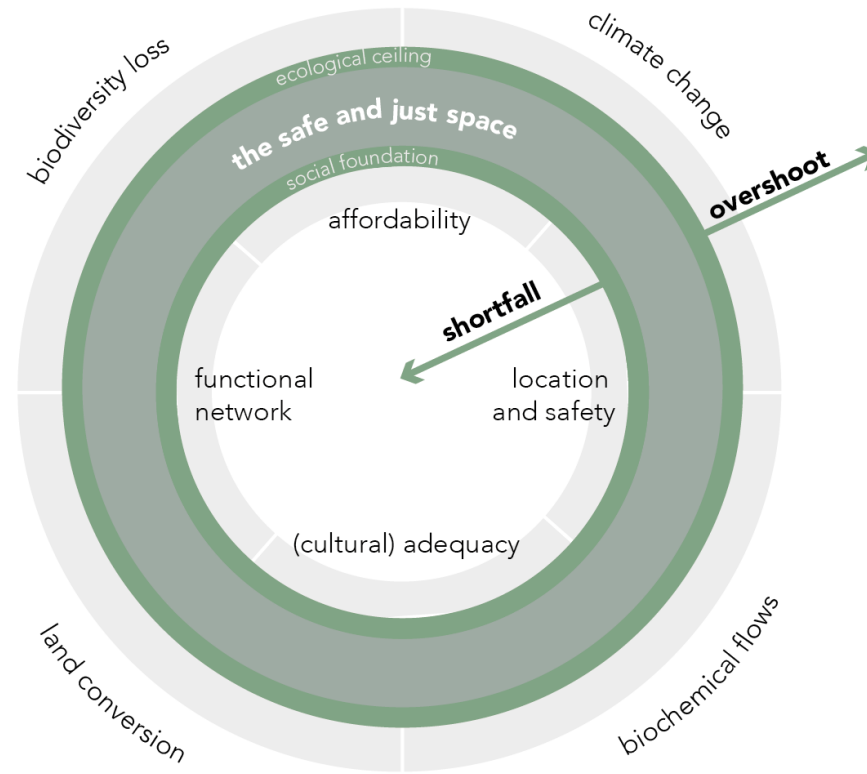
What are the social and ecological boundaries the housing system should lie in
and how does the Zwolle region align?

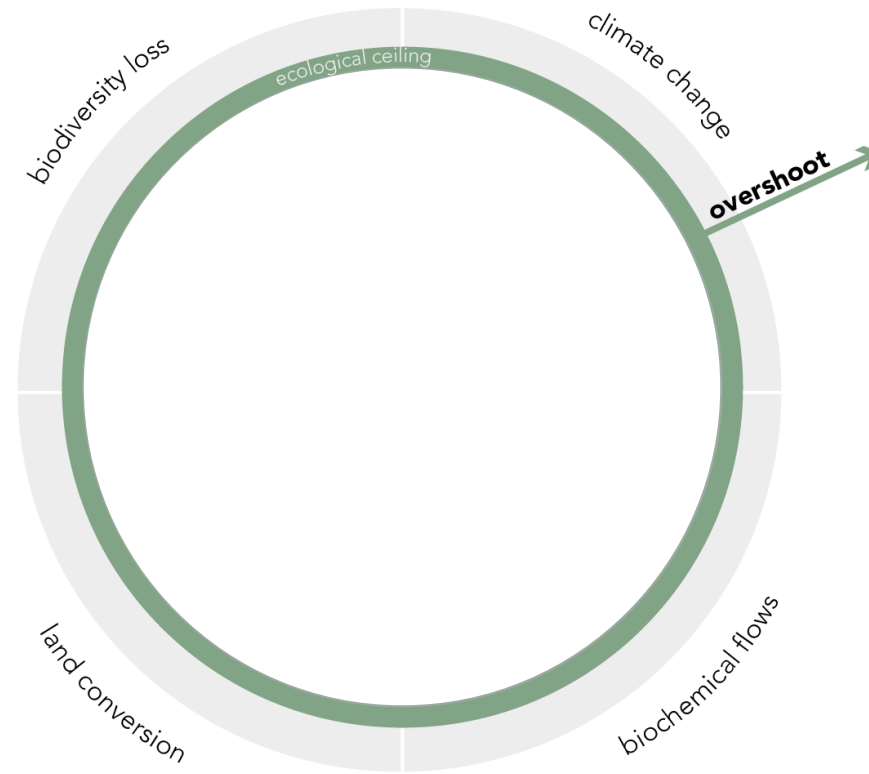


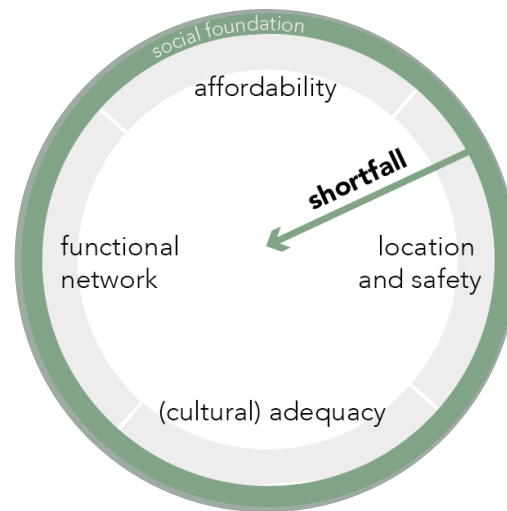


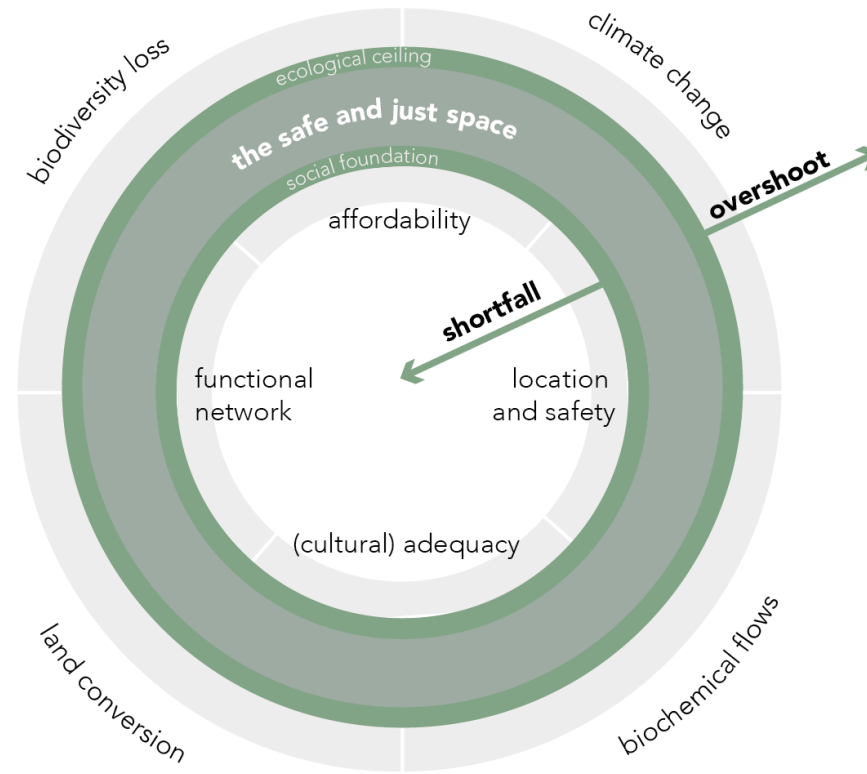


the habitat doughnut





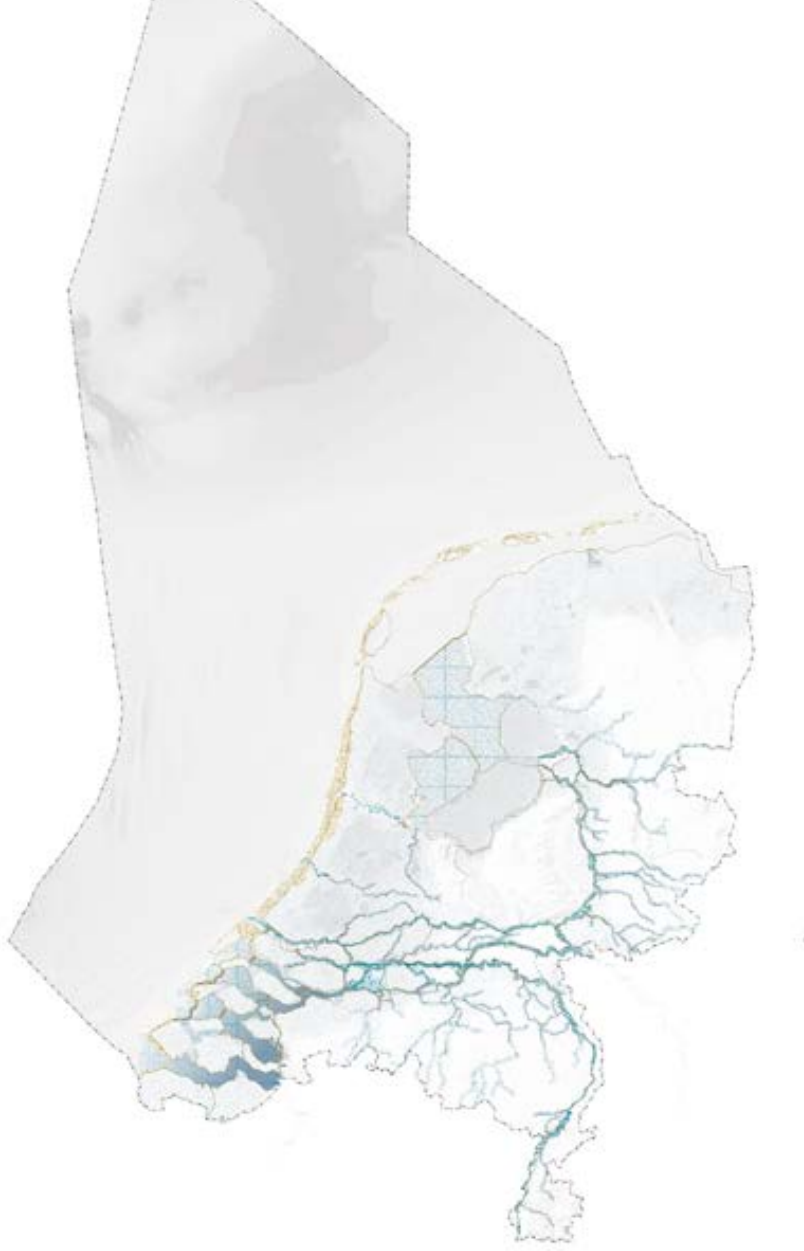




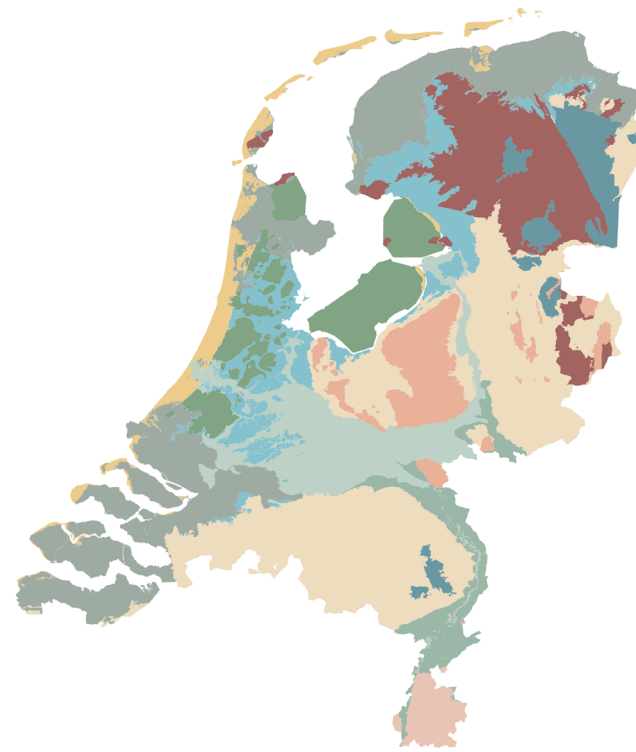


Water safety (Ministerie van Binnenlandse Zaken en Koninkrijksrelaties, 2021)

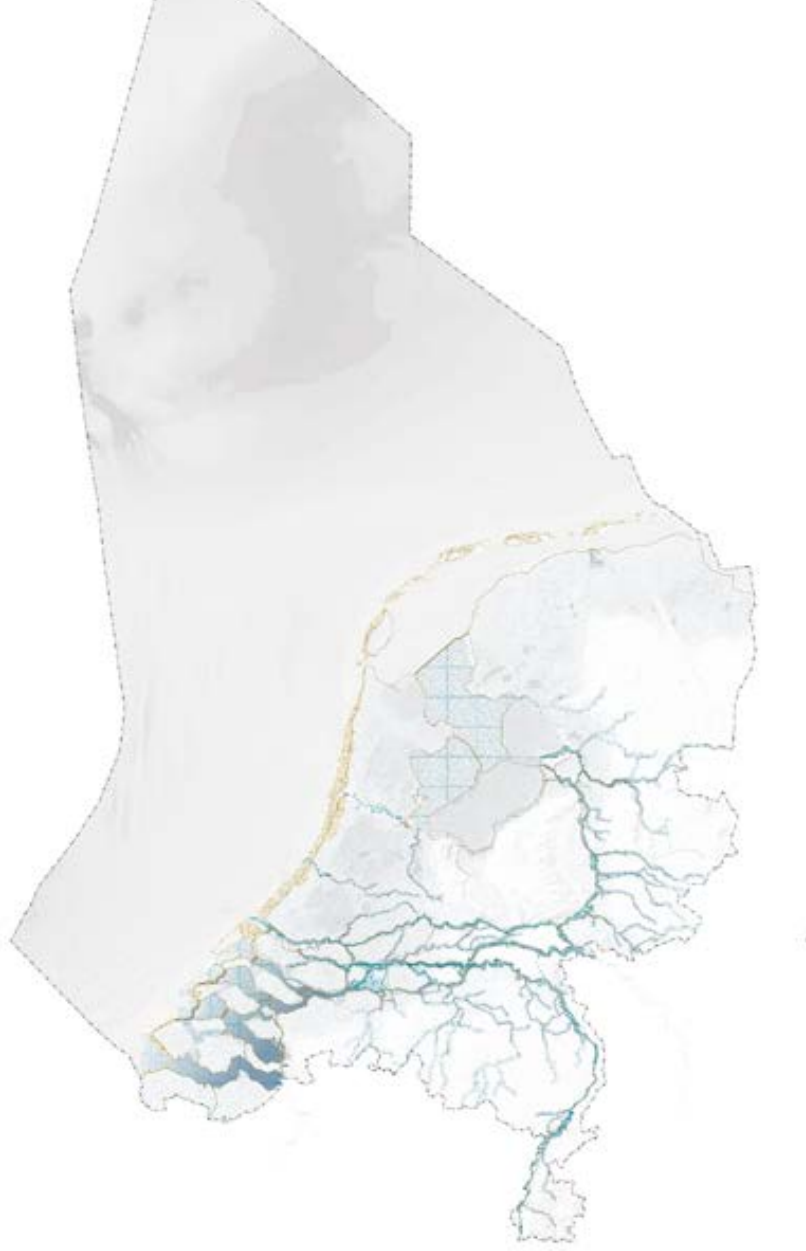
01 the situation



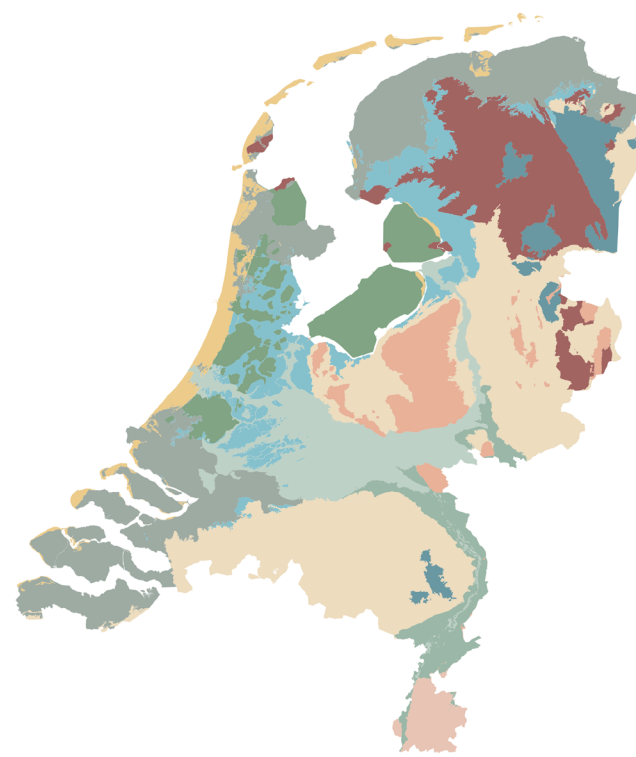
Water safety (Ministerie van Binnenlandse Zaken en Koninkrijksrelaties, 2021)



Soil types of the Netherlands (Klimaat-effectatlas, 2023; modified)



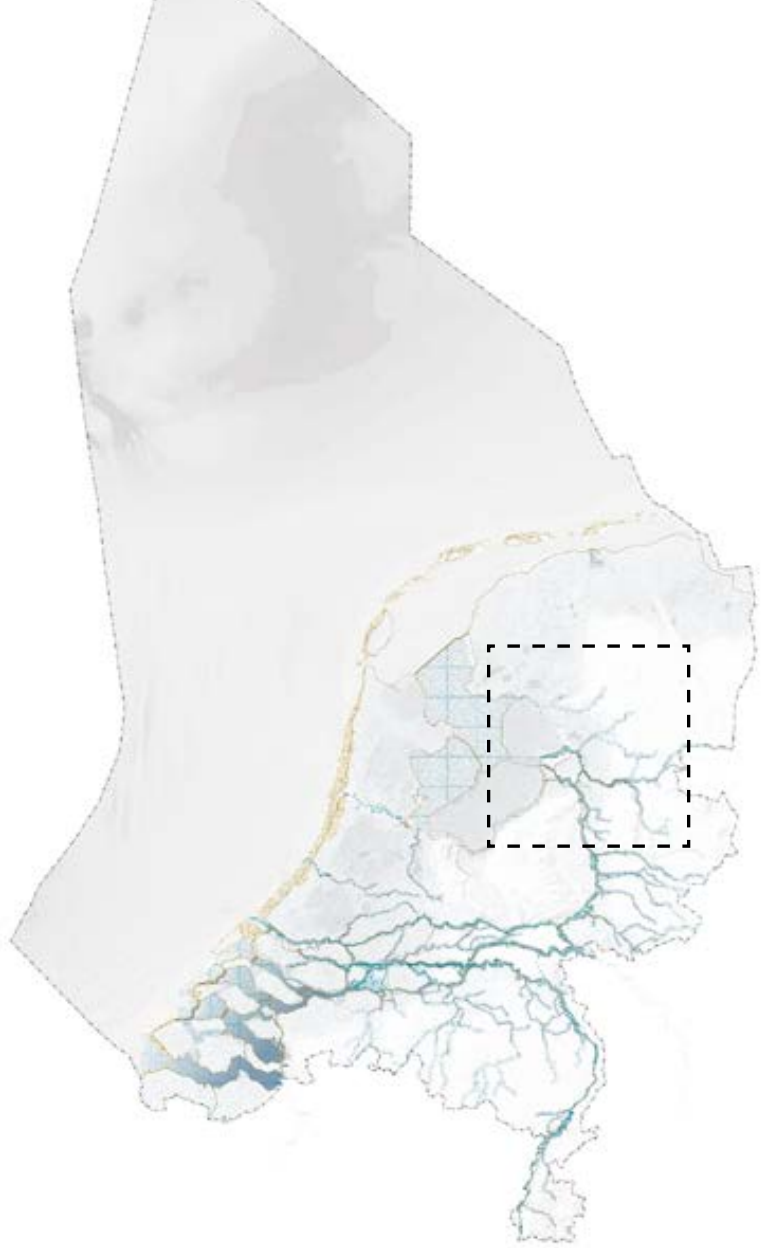
Water safety (Ministerie van Binnenlandse Zaken en Koninkrijksrelaties, 2021)



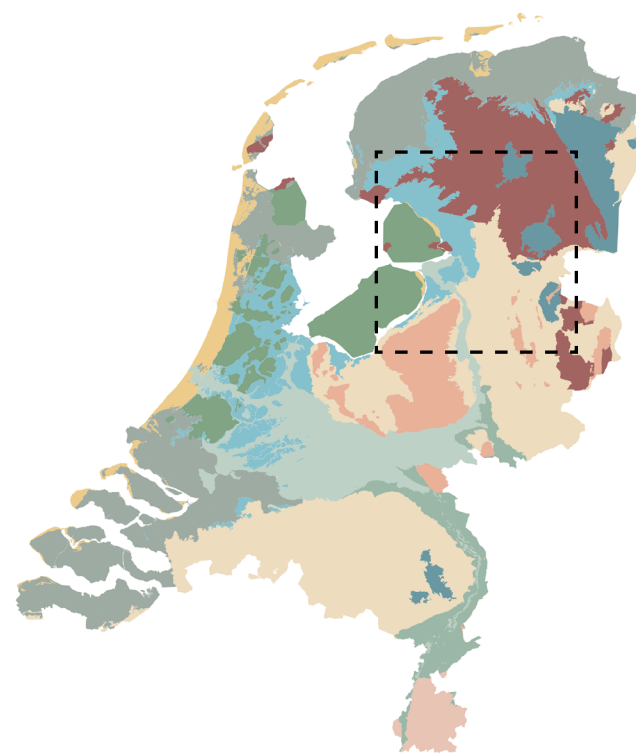
Soil types of the Netherlands (Klimaat-effectatlas, 2023; modified)



NOVEX regions and urban areas (Ministerie van Binnenlandse Zaken en Koninkrijksrelaties, 2021)



Water safety (Ministerie van Binnenlandse Zaken en Koninkrijksrelaties, 2021)



Soil types of the Netherlands (Klimaat-effectatlas, 2023; modified)

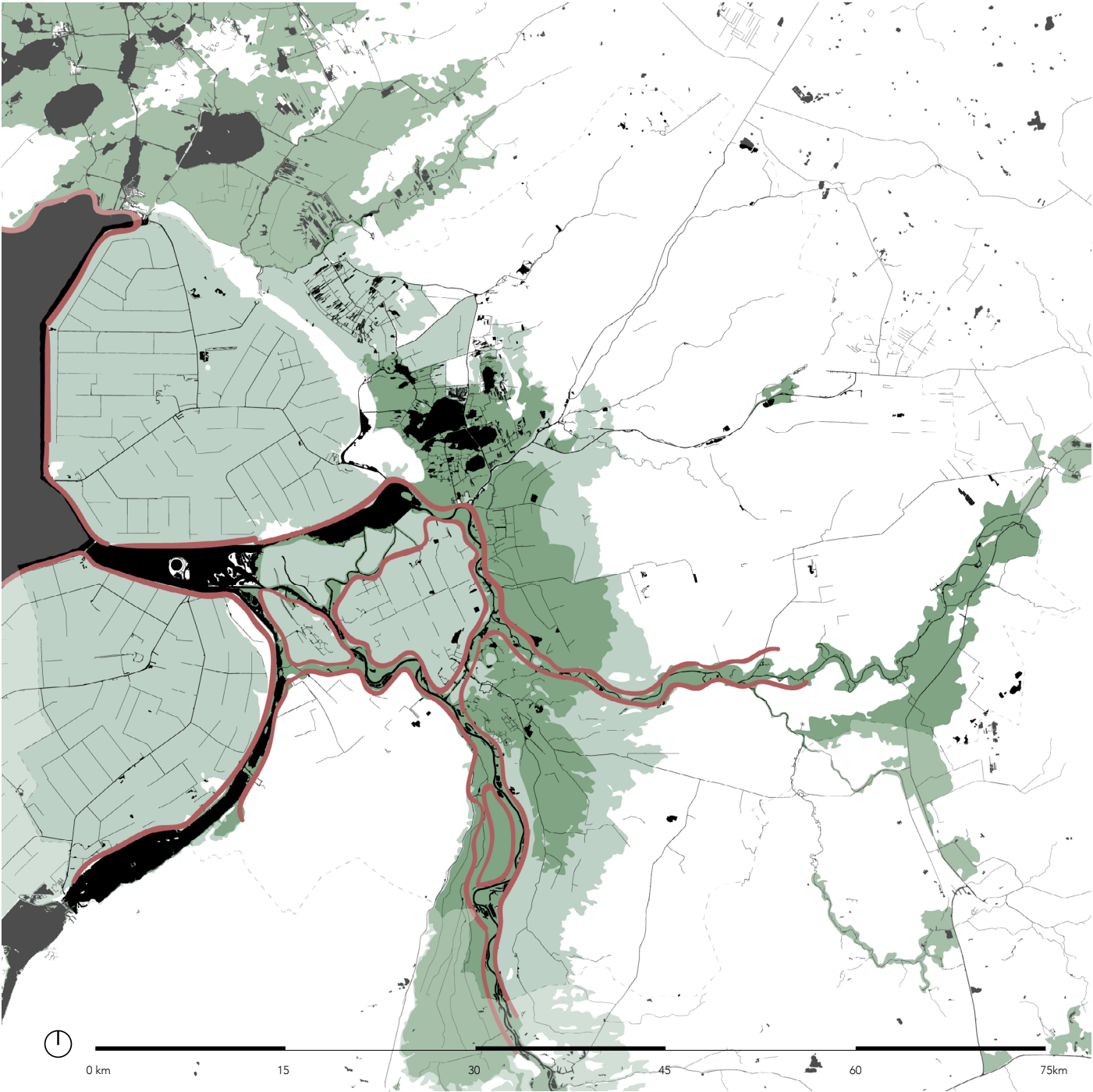


NOVEX regions and urban areas (Ministerie van Binnenlandse Zaken en Koninkrijksrelaties, 2021)



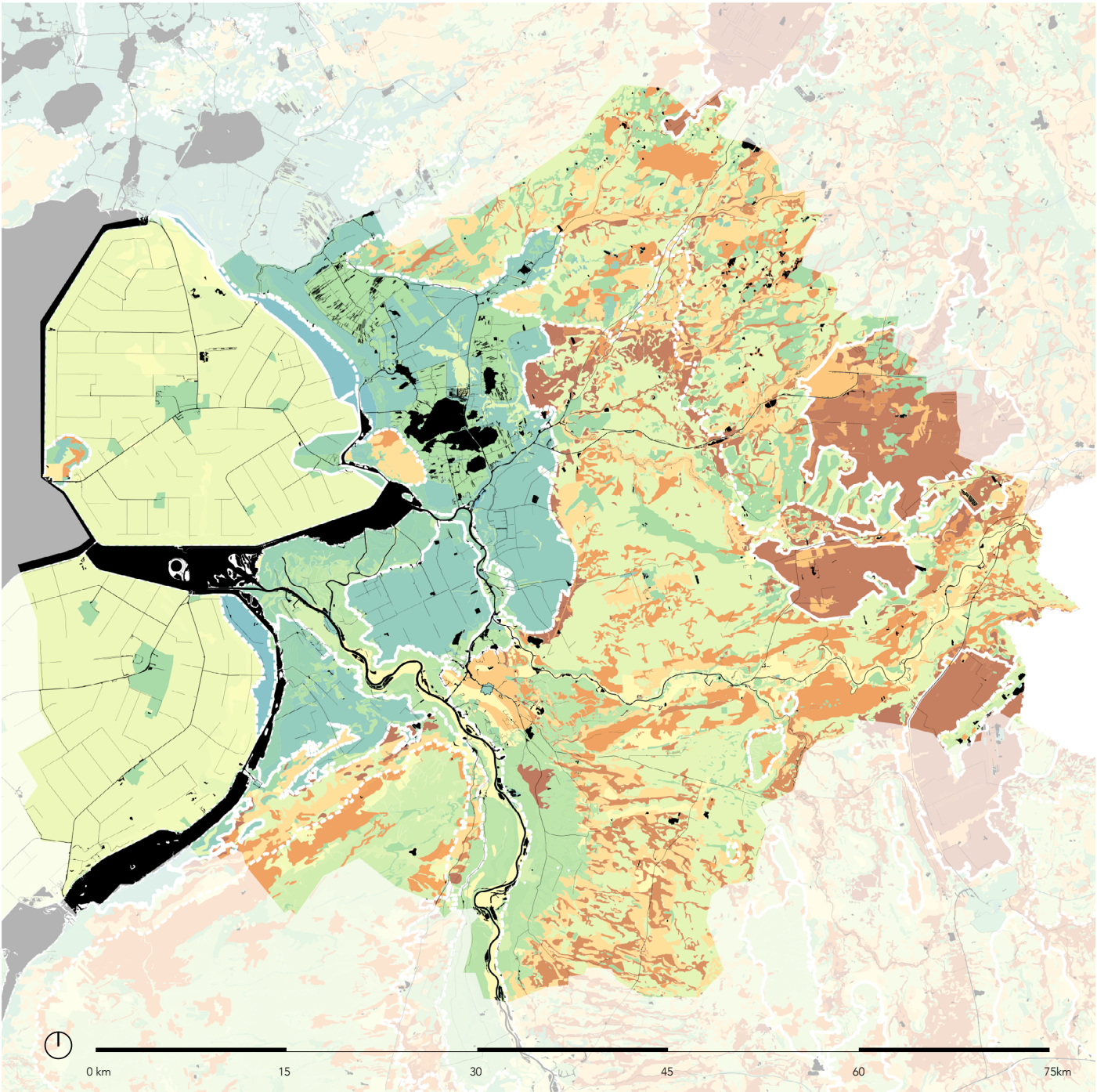
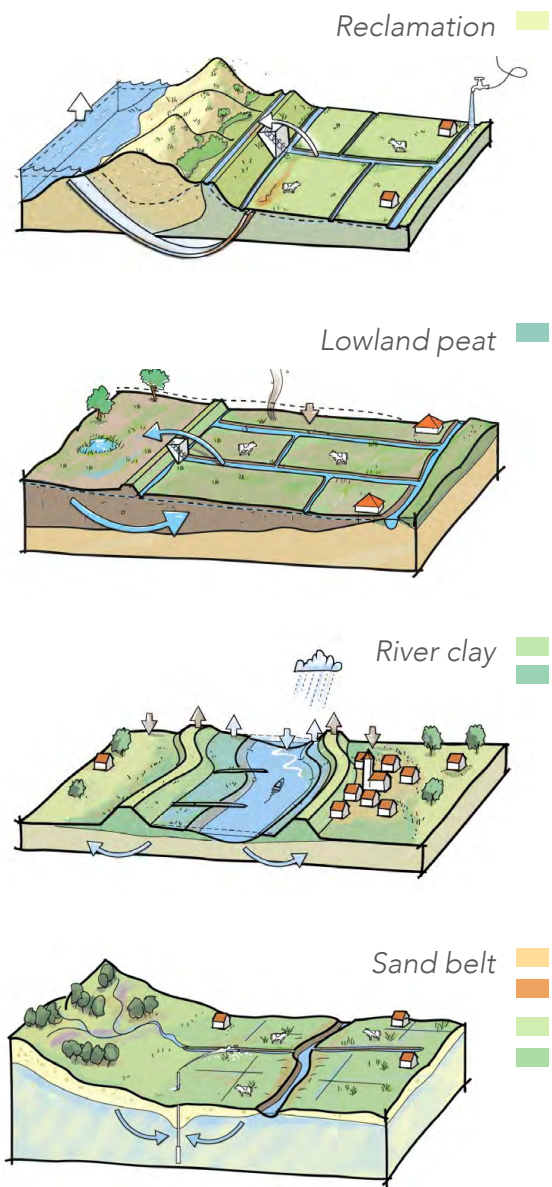
Flood risk

- normal water level
- flood 1/30 - 1/300 years
- flood 1/300 - 1/3000 years
- dike



Flood risk and dike system map (Klimaat-effectatlas, 2023)

soil system



Left: landscape types (Deltares et al., 2023). Right: soil types (Klimaateffectatlas, 2023)

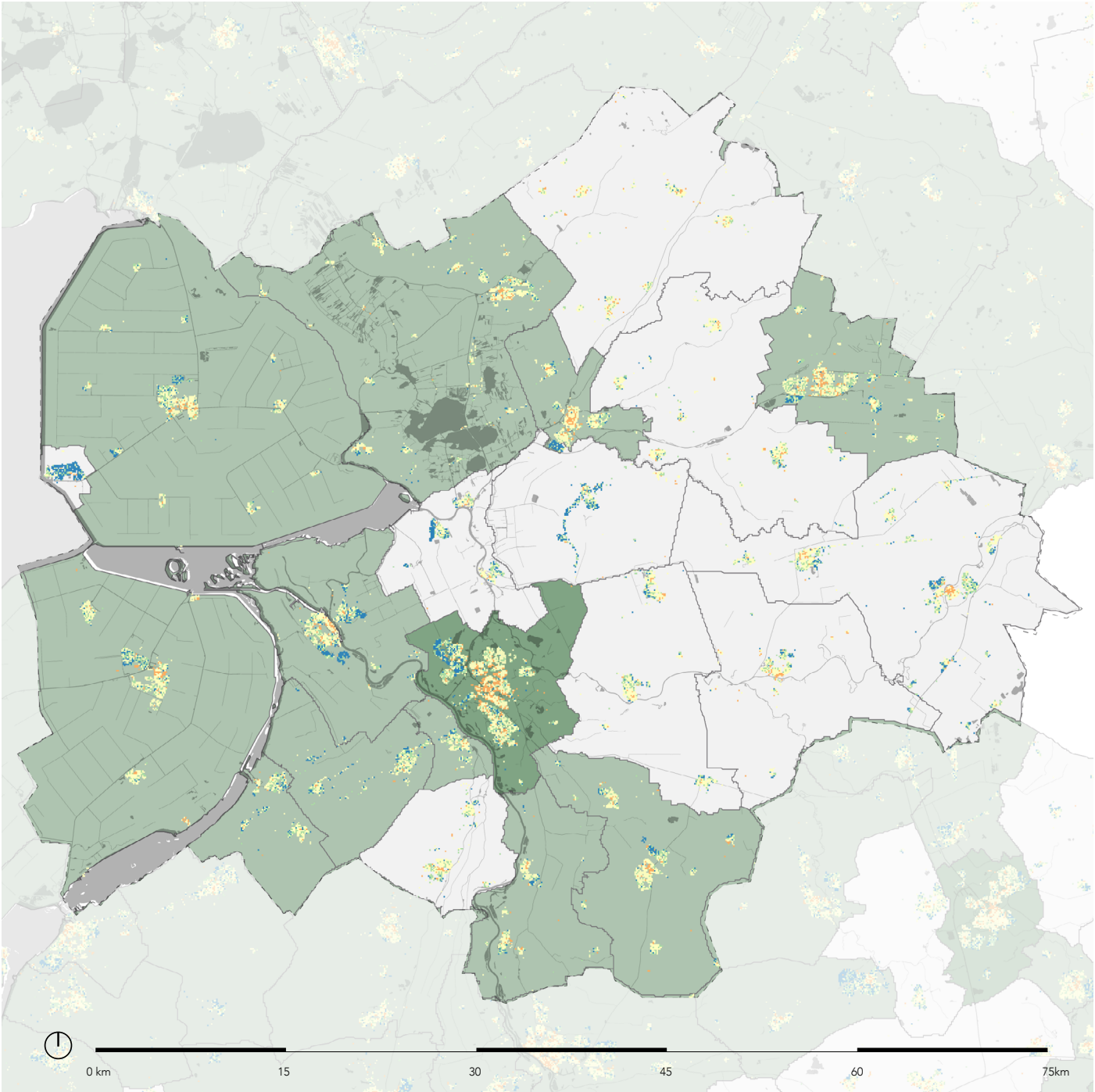


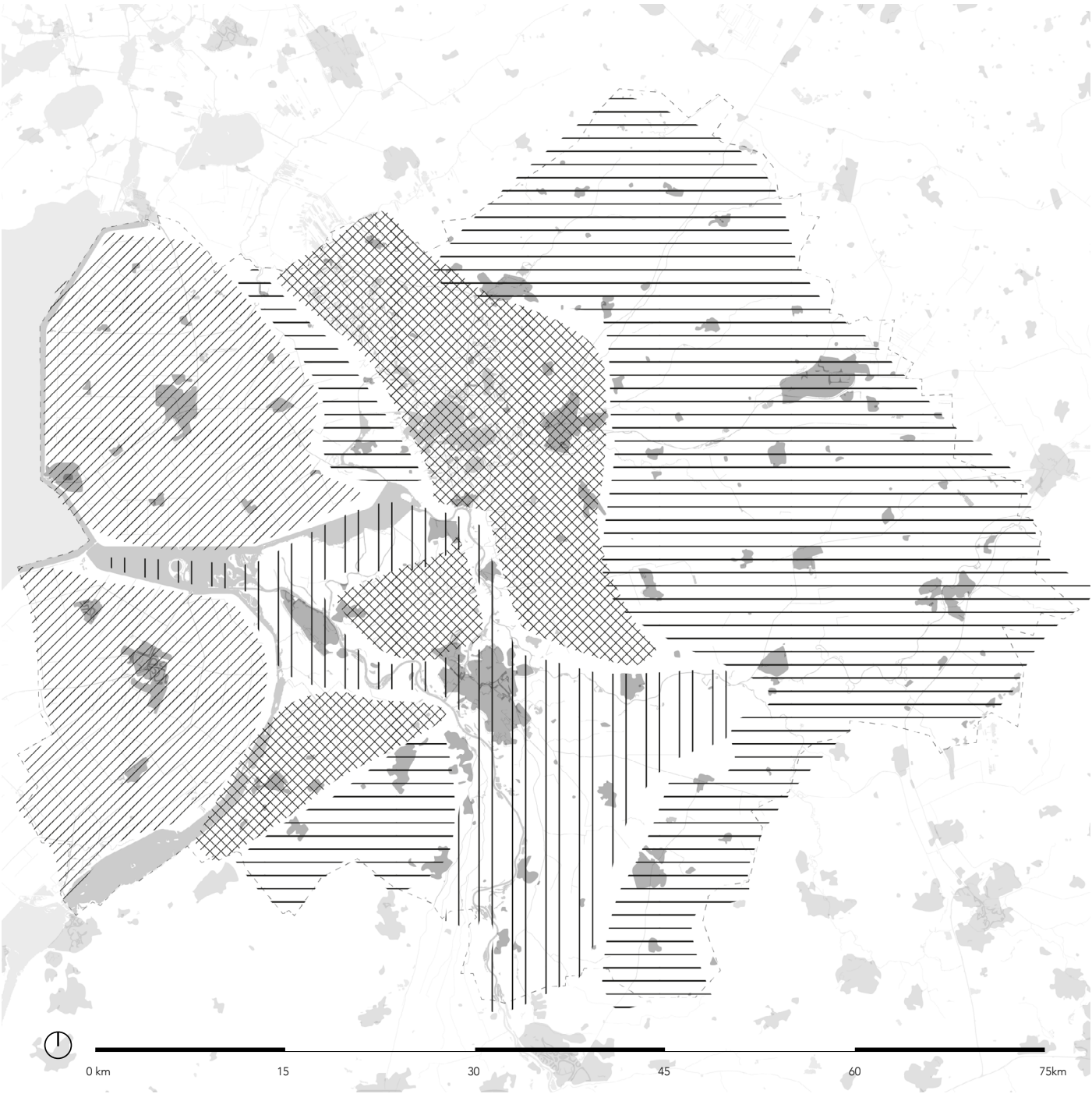
Housing adequacy per municipality (CBS, 2023)

01 the situation

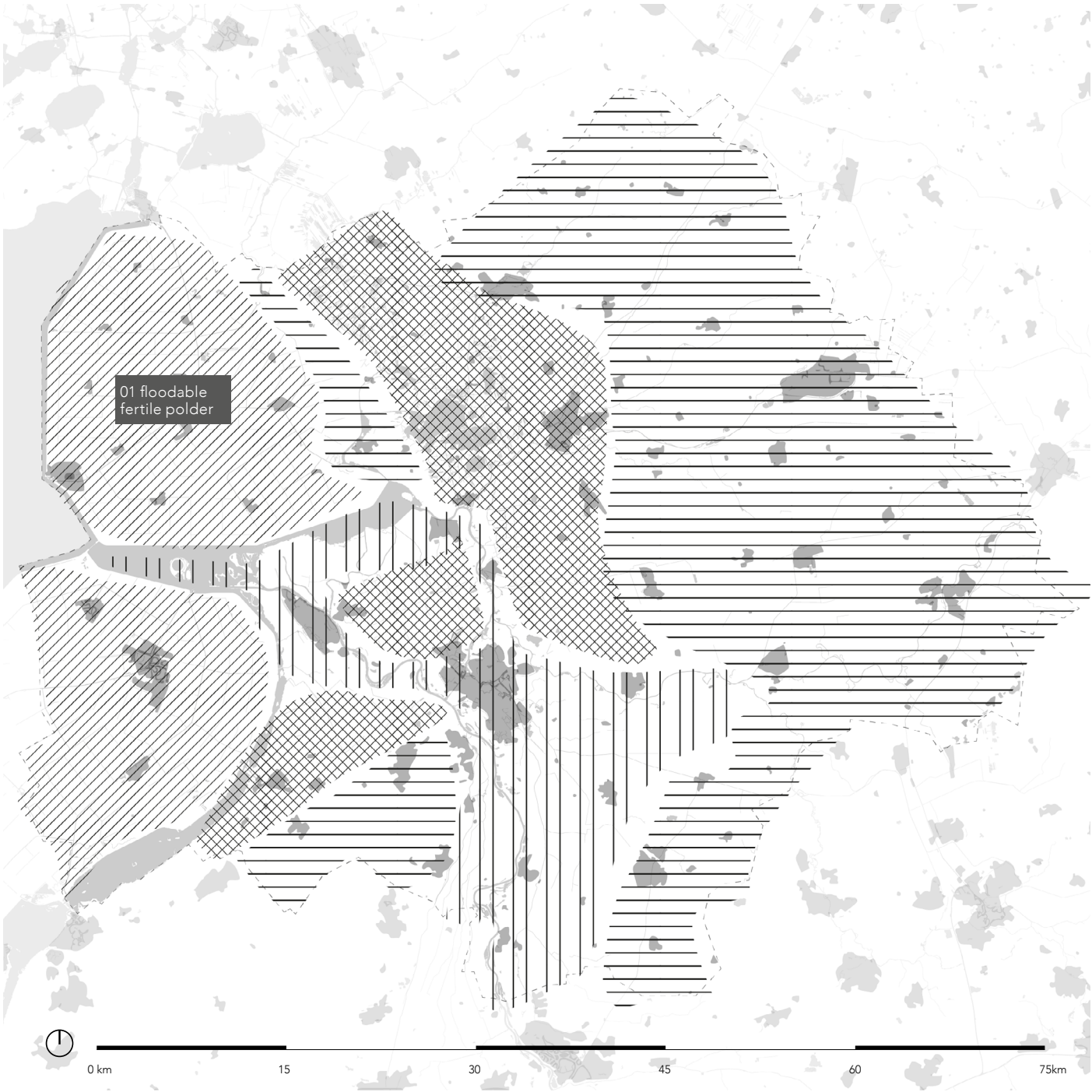
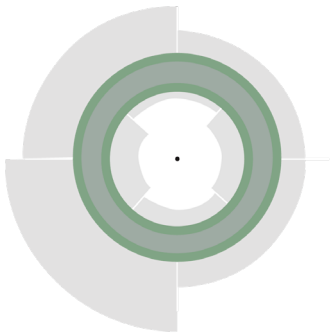
Housing type

- > 40% renting
- 30%-40% renting
- <30% renting
- household < 1,5 persons
- household 1,5 - 2,2
- household 2,2 - 3
- household > 3

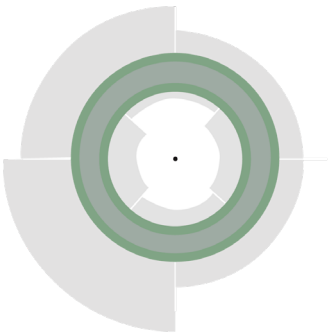




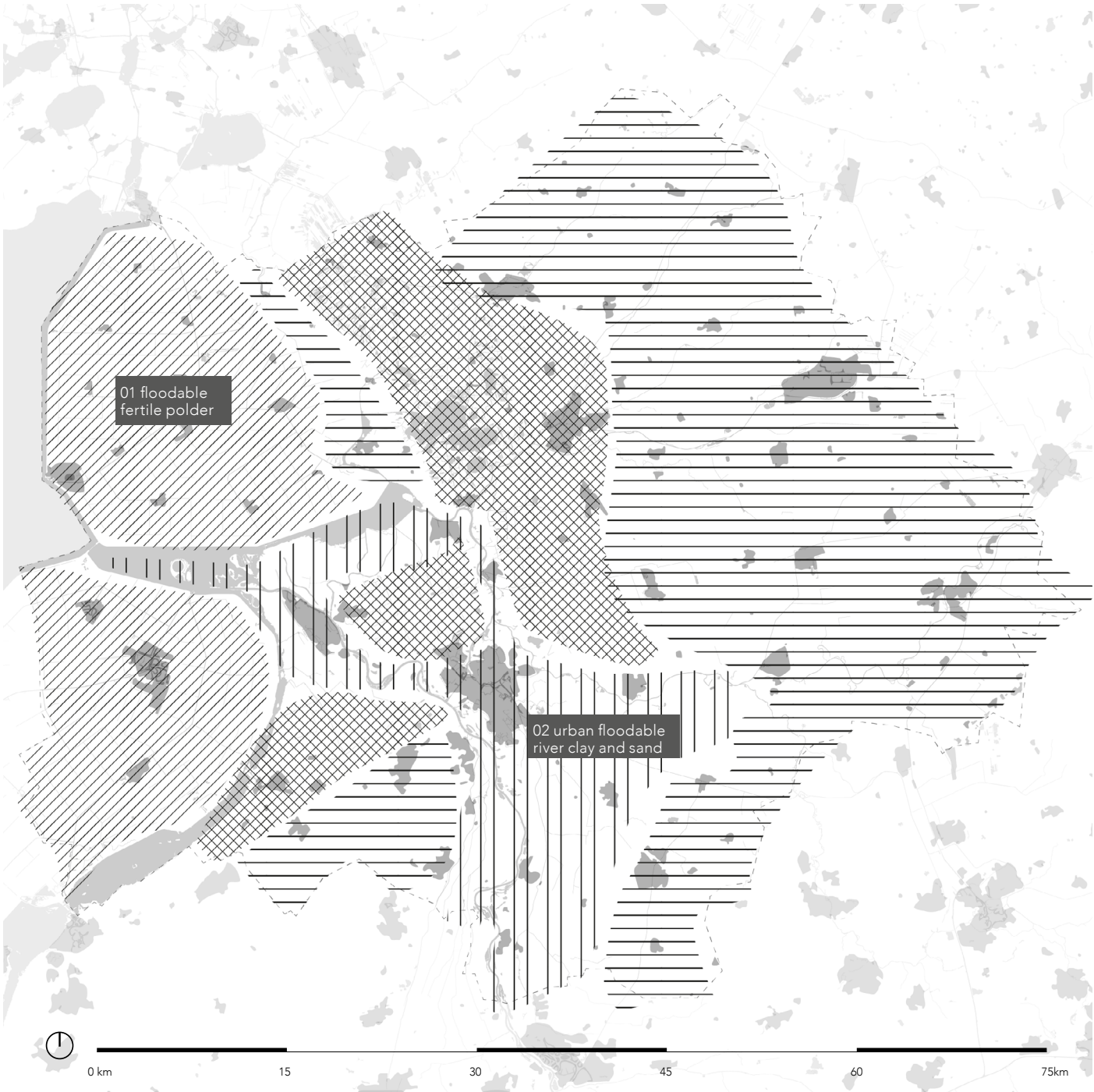
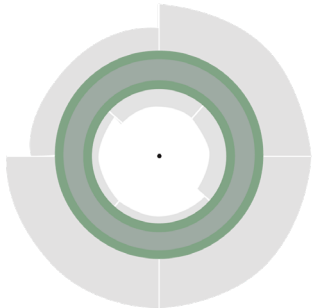
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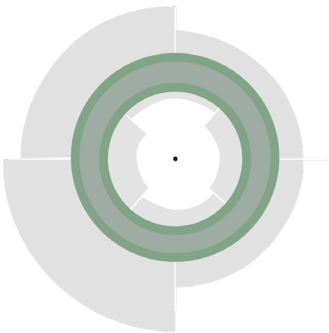
01



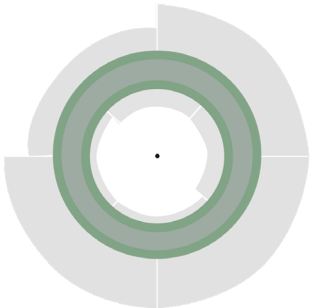
02



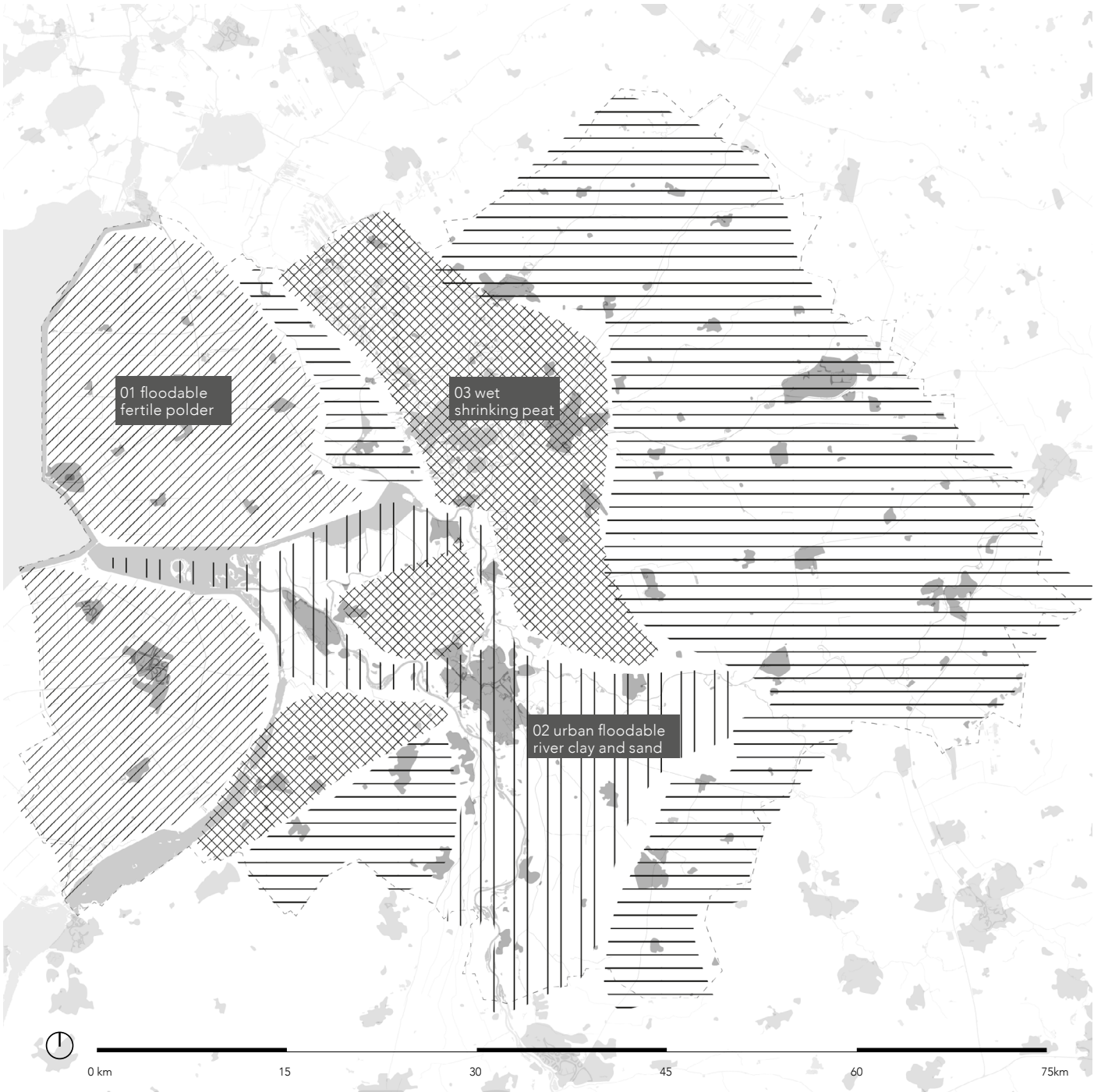
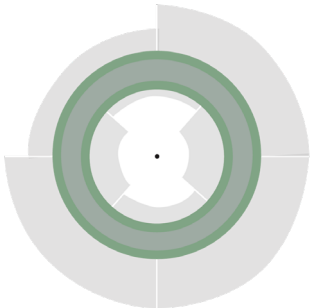
01



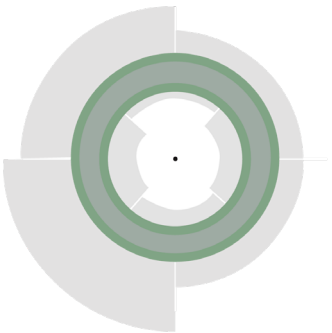
02



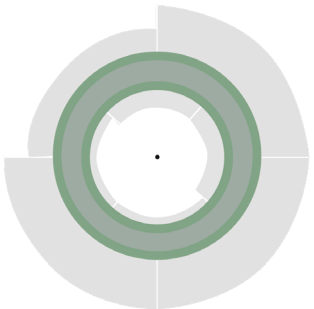
03



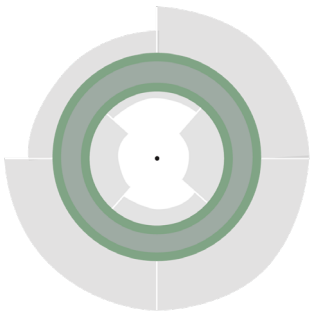
01



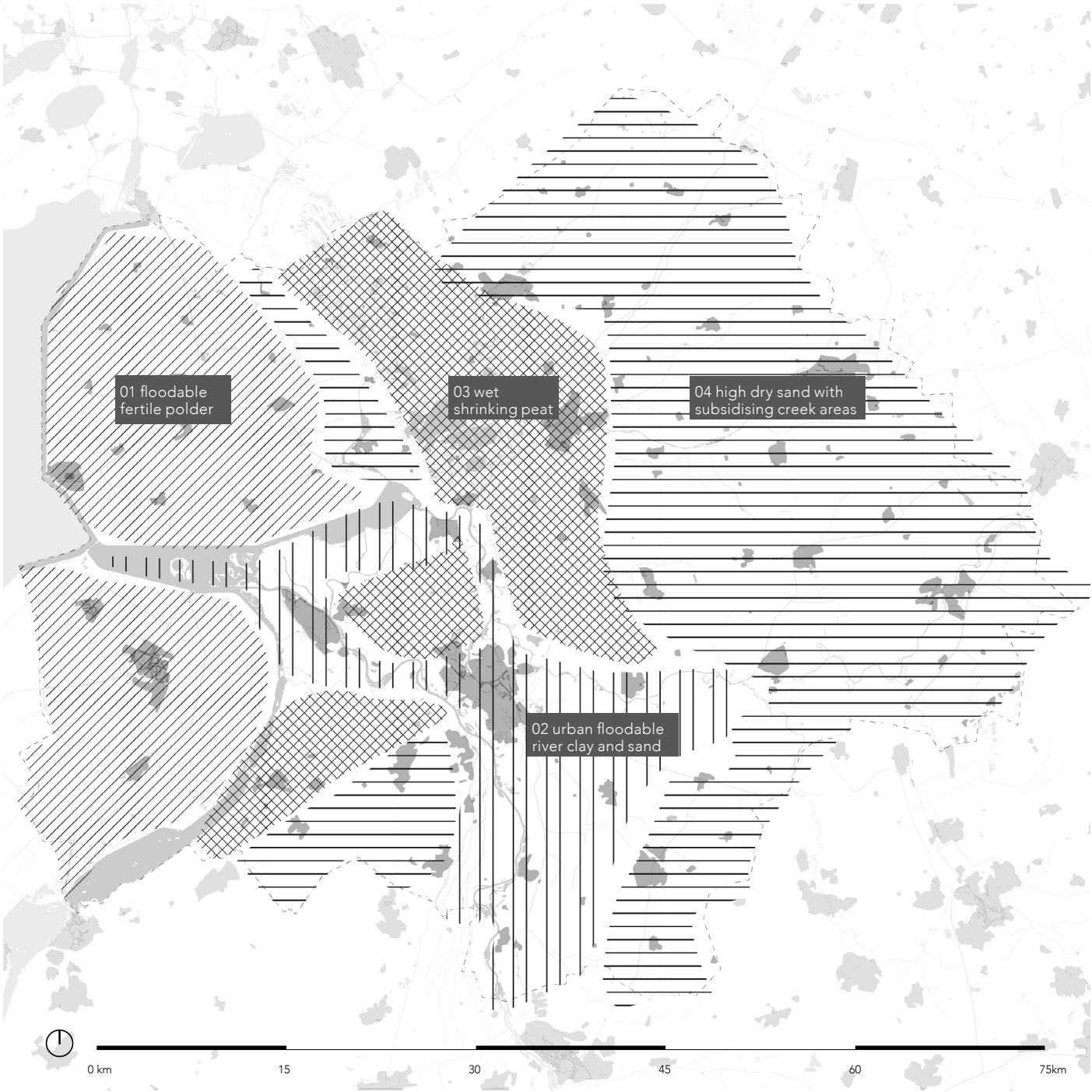
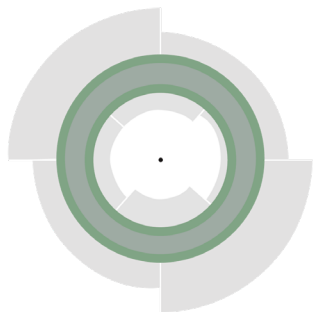
02



03



04



the alternative

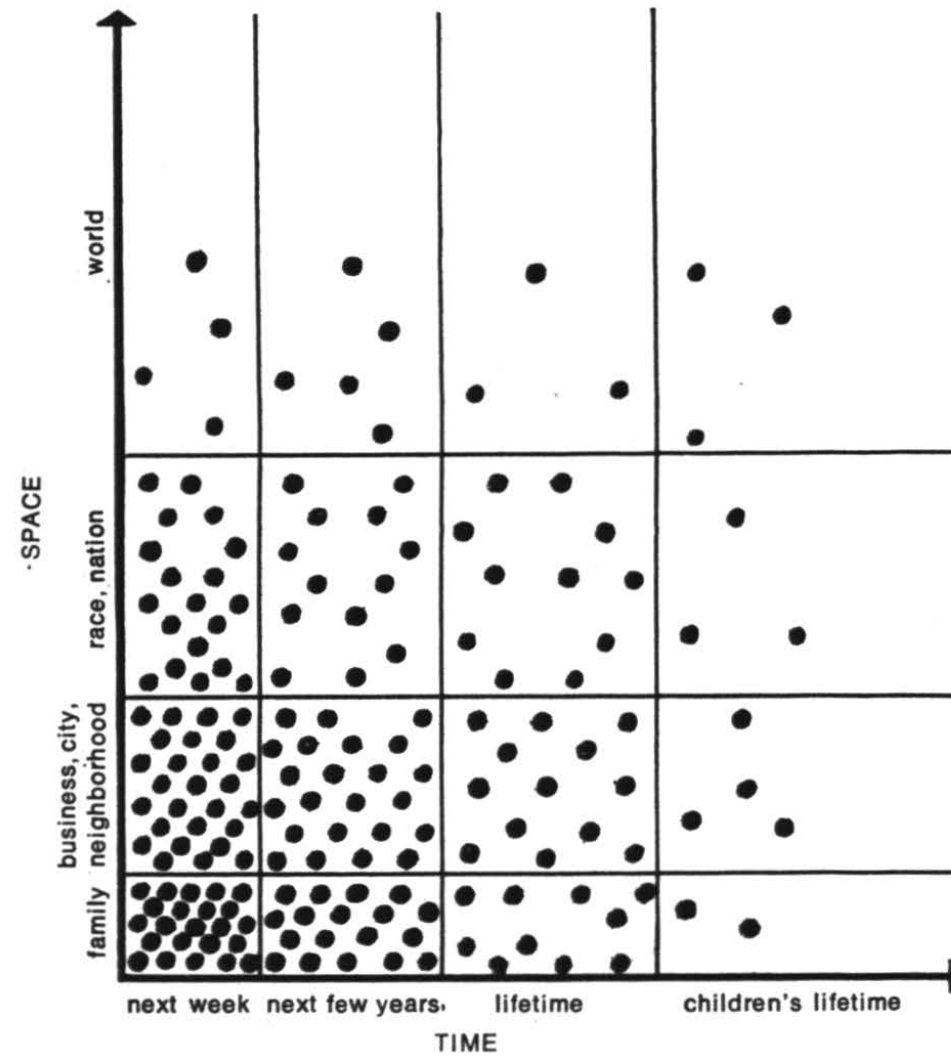


the alternative

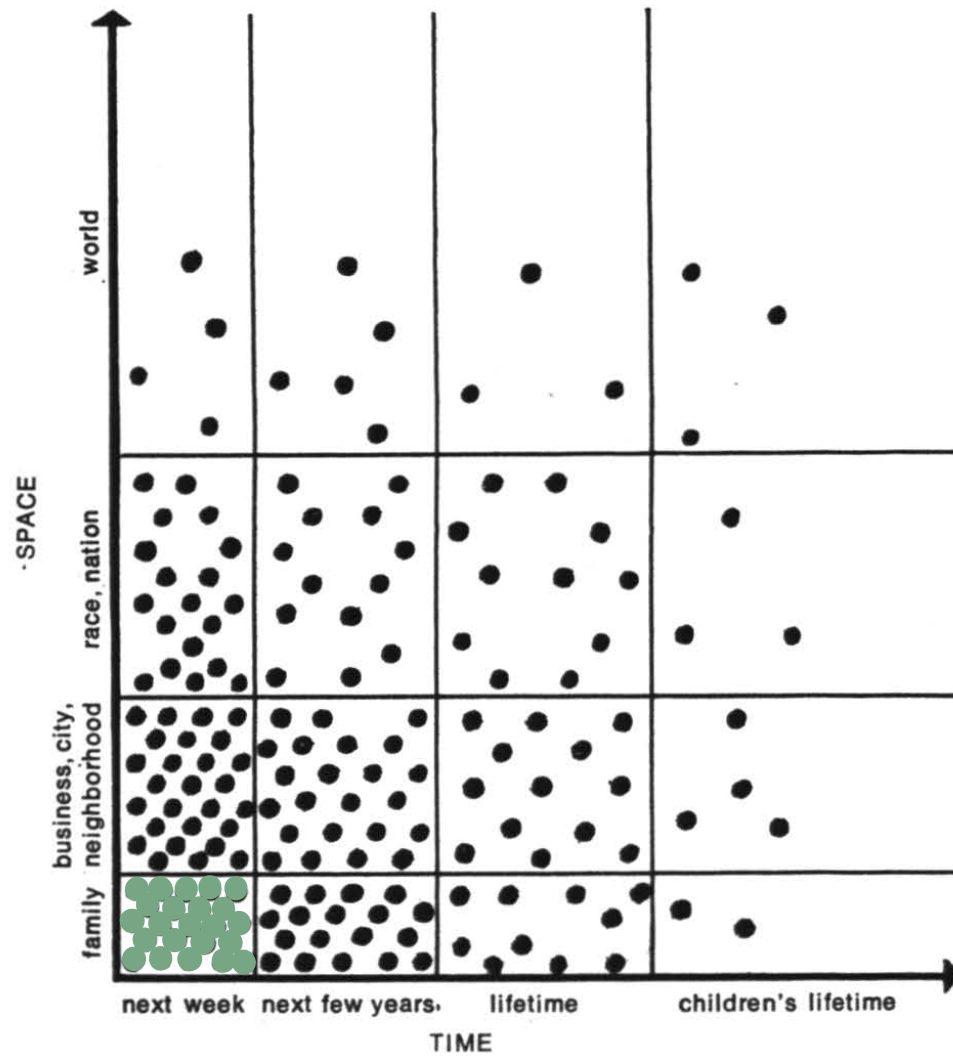


What leading trends and values need to form alternative growth-based futures in the Zwolle region to live within social and ecological boundaries?

values the ideas that consciously or unconsciously guide people's future worldview

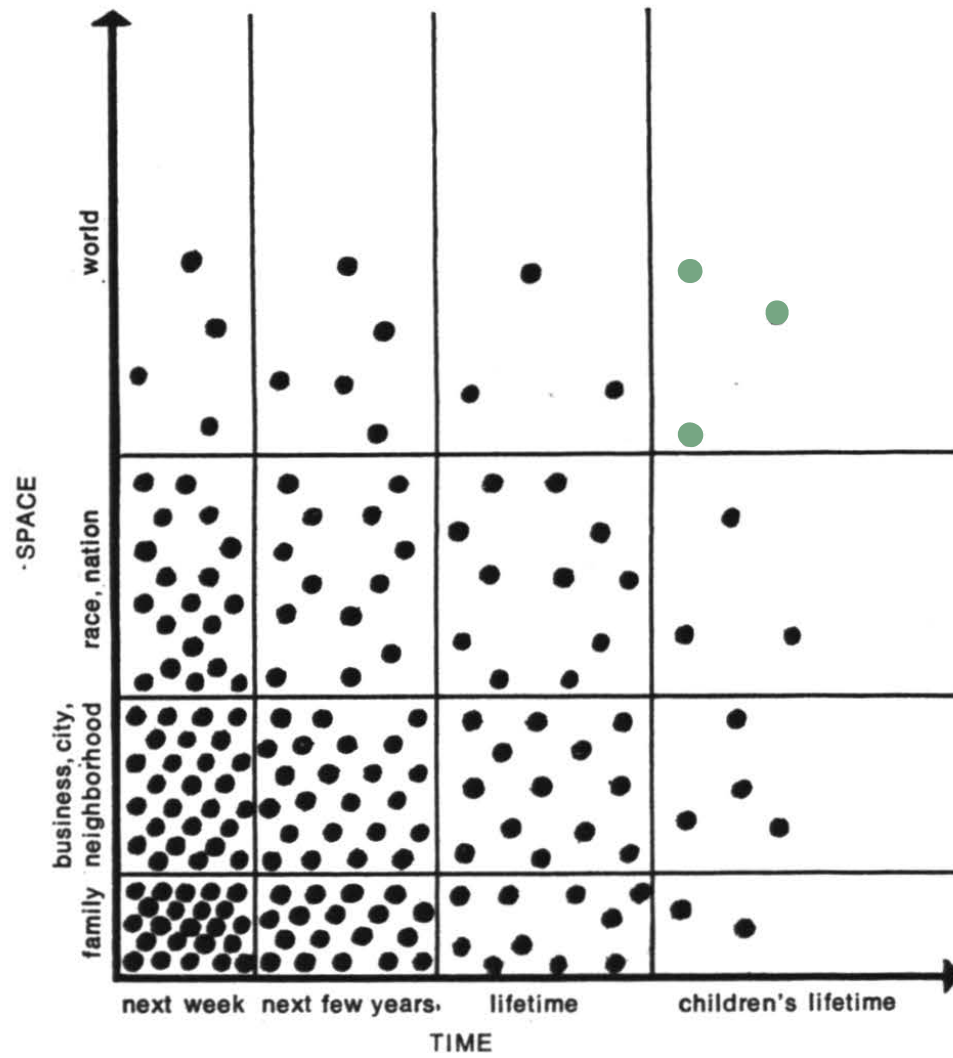


People's concerns in a space-time graph (Meadows et al., 1972)

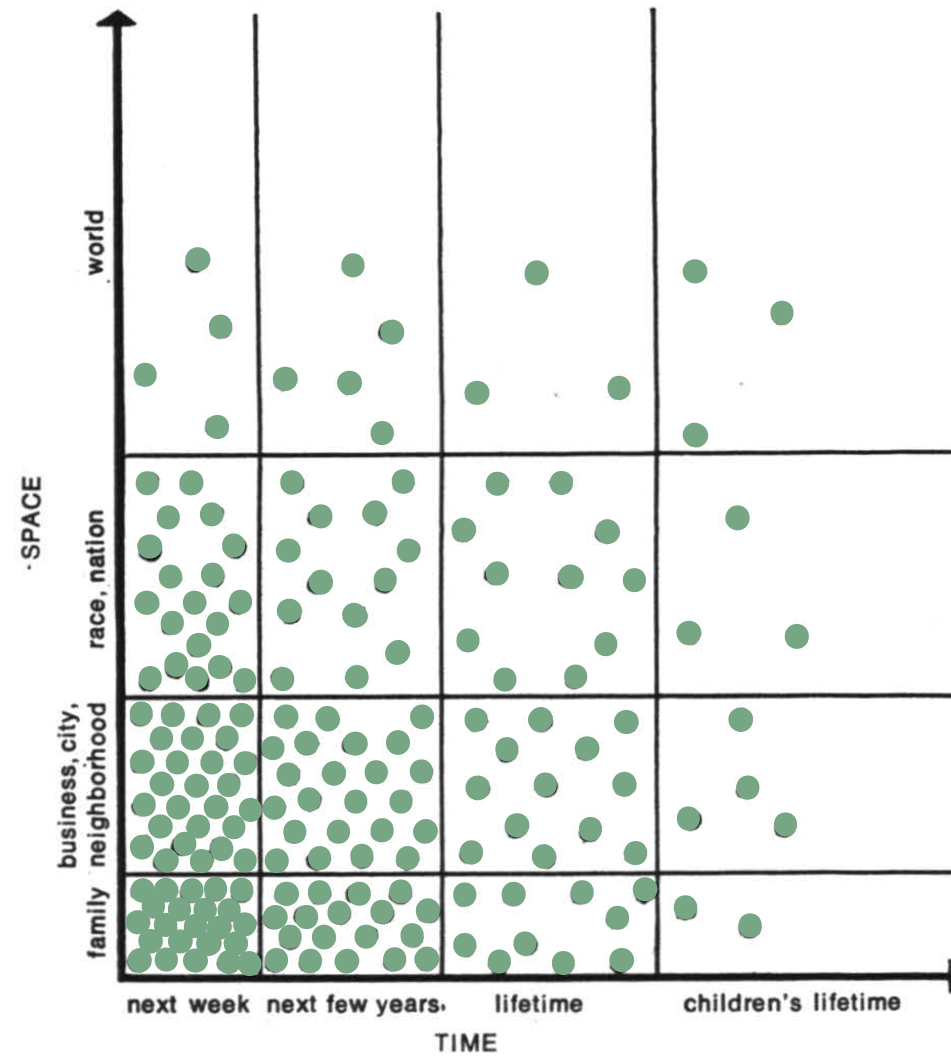


People's concerns in a space-time graph (Meadows et al., 1972)

02 the alternative



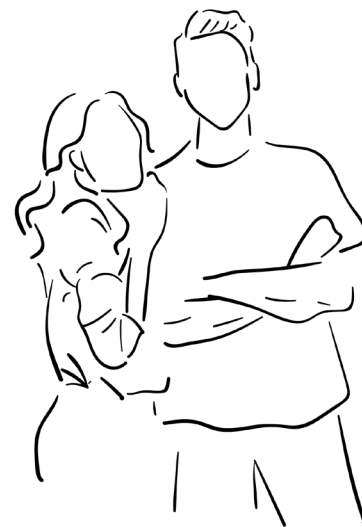
People's concerns in a space-time graph (Meadows et al., 1972)



People's concerns in a space-time graph (Meadows et al., 1972)



The Netherlands, its provinces and the Zwolle region in green



soft stories





Cor and Johanna



Pieter



Meike and Sem

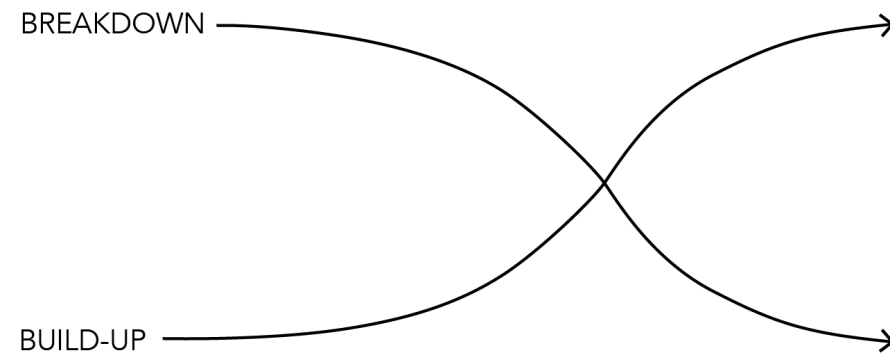


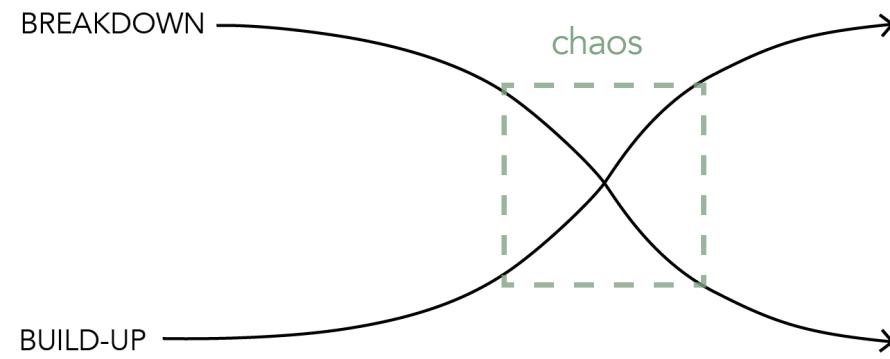
safety

pride

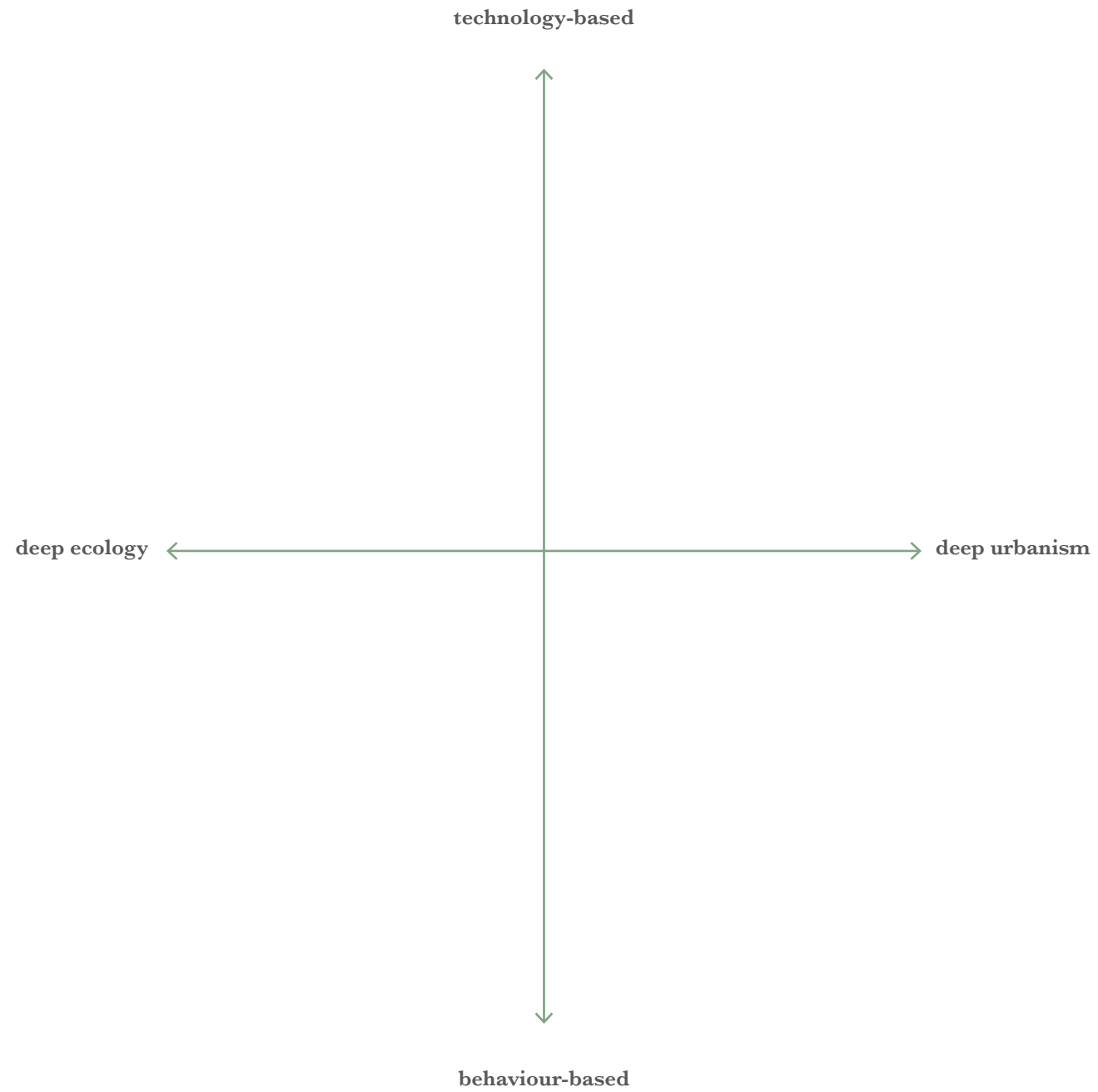
responsibility

trend a general development or change in a situation or in the way that people are behaving











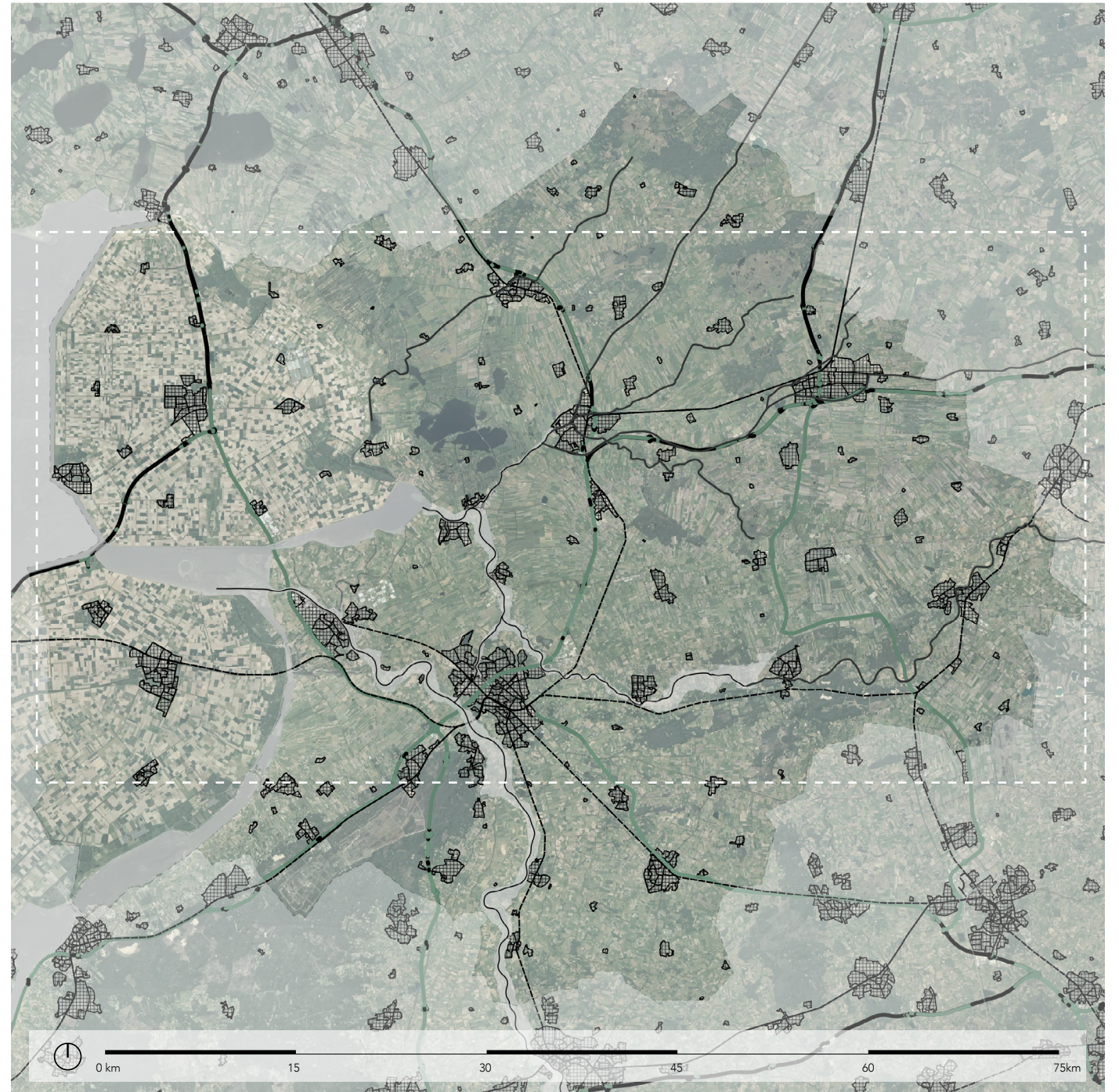
the imagination

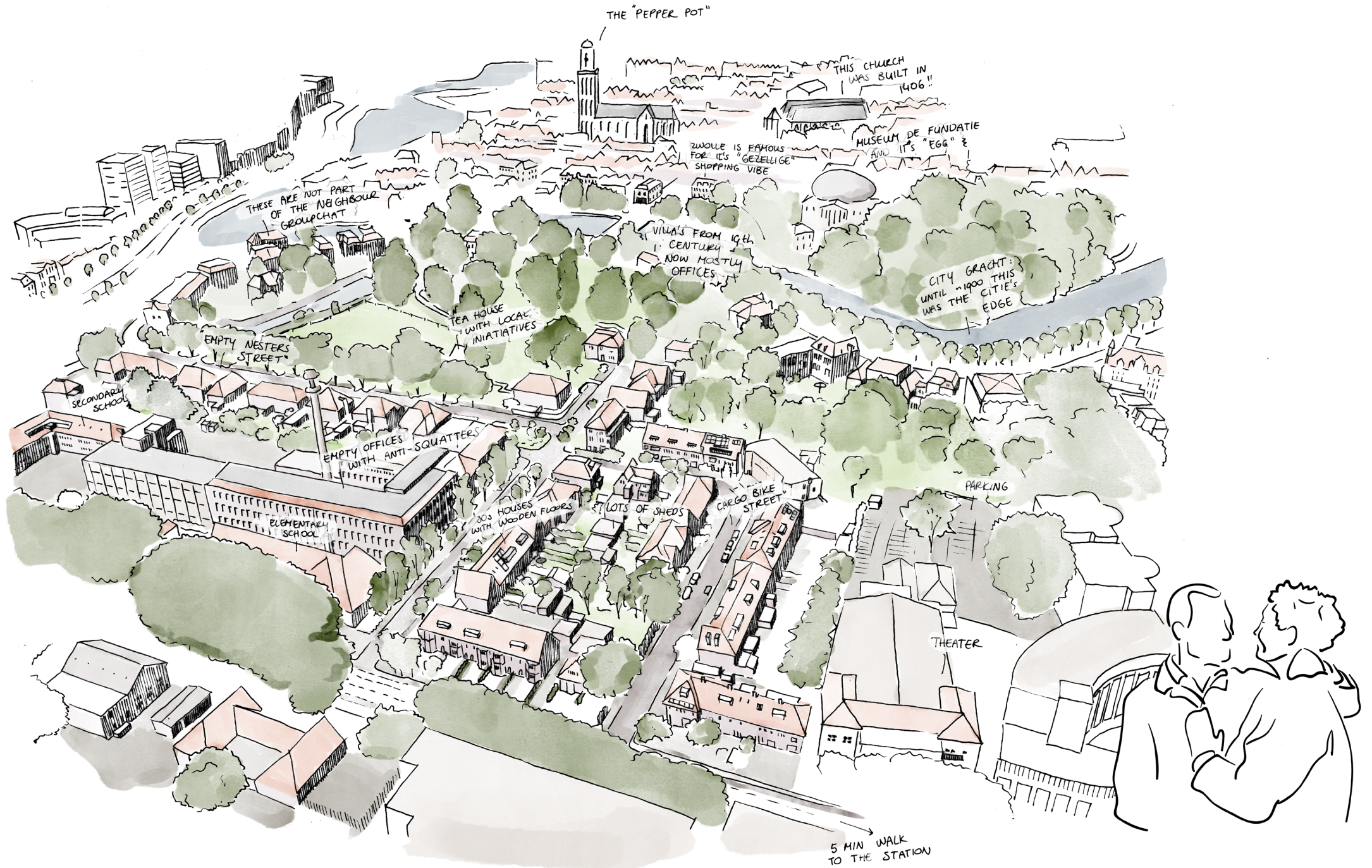


the imagination



How are the alternative growth futures imagined and evaluated?







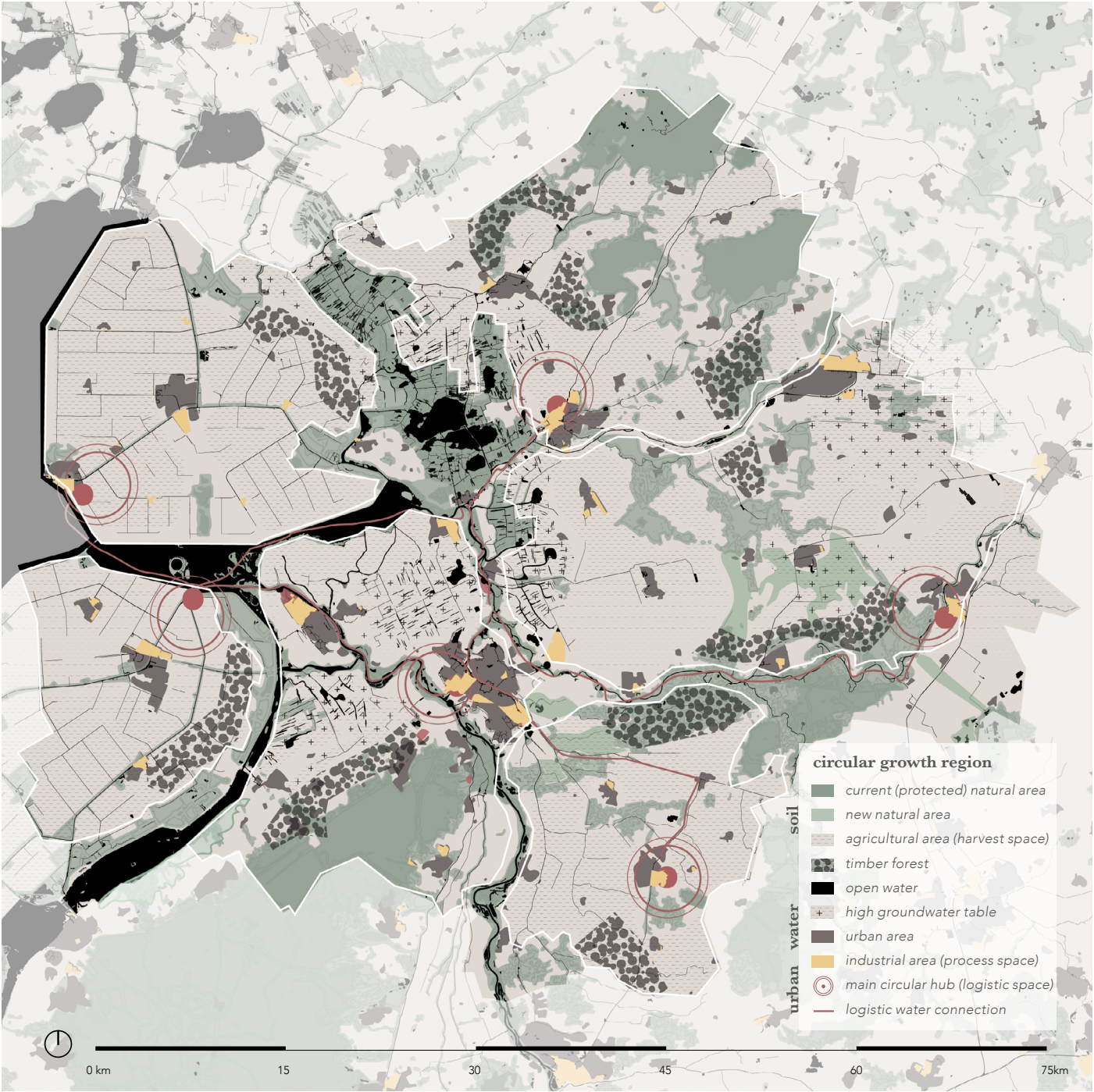
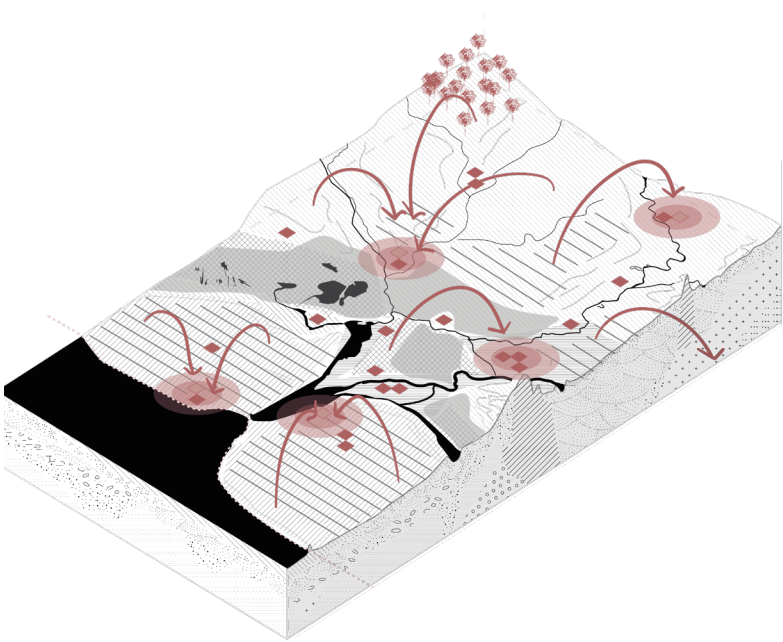


CIRCULAR GROWTH



CIRCULAR GROWTH

technological ecological



CIRCULAR GROWTH

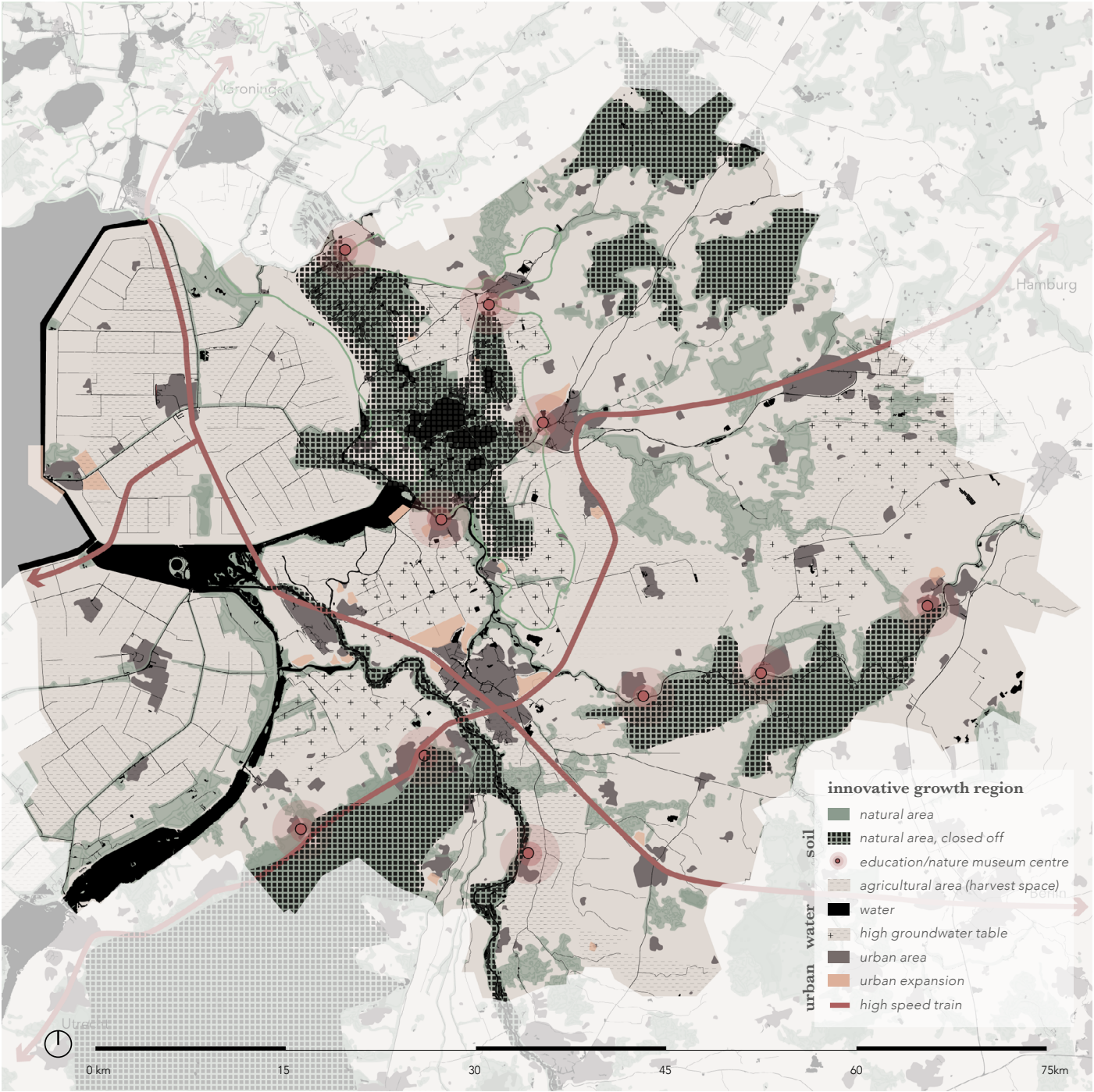


INNOVATIVE GROWTH

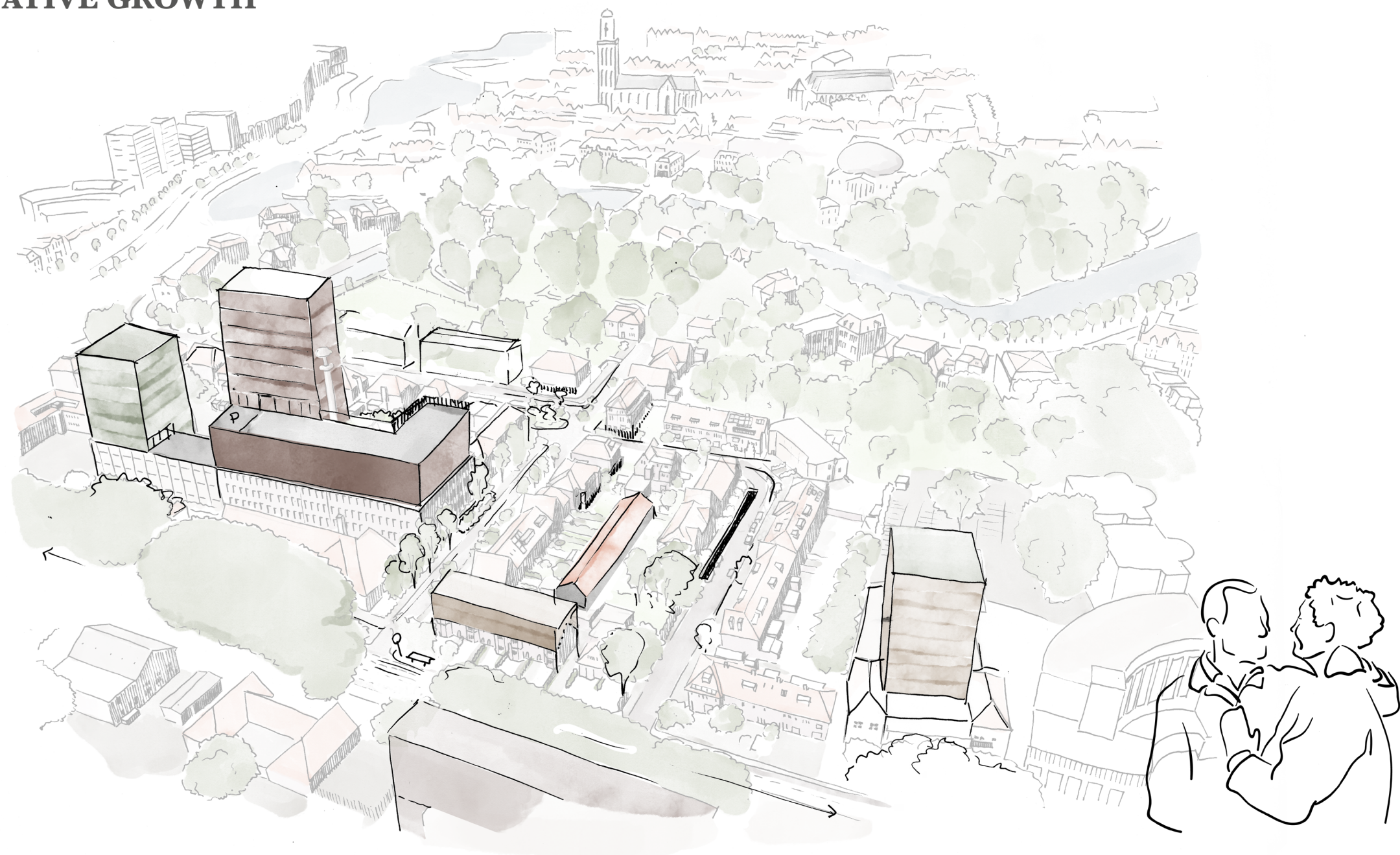


INNOVATIVE GROWTH

technological urban



INNOVATIVE GROWTH

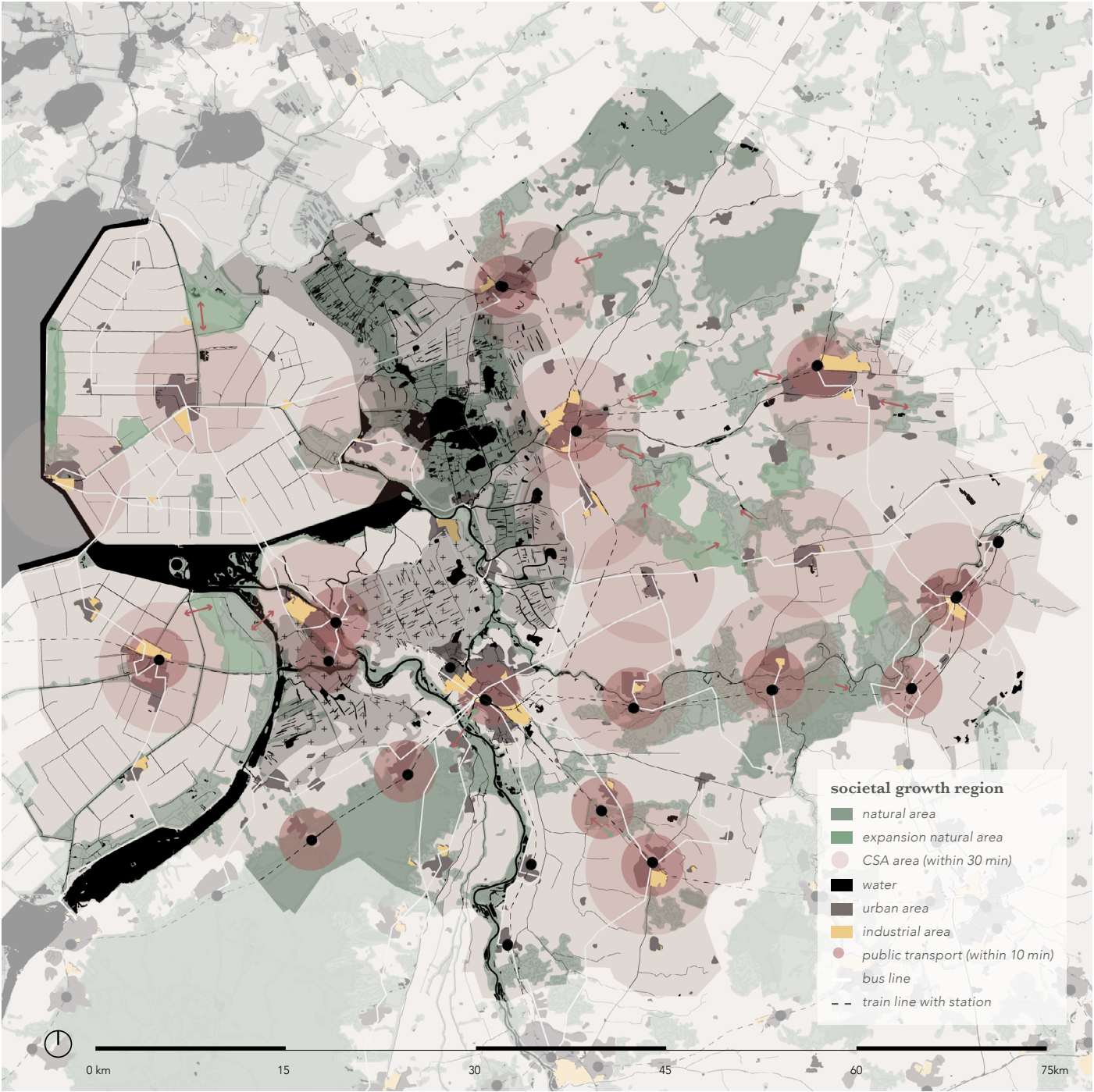
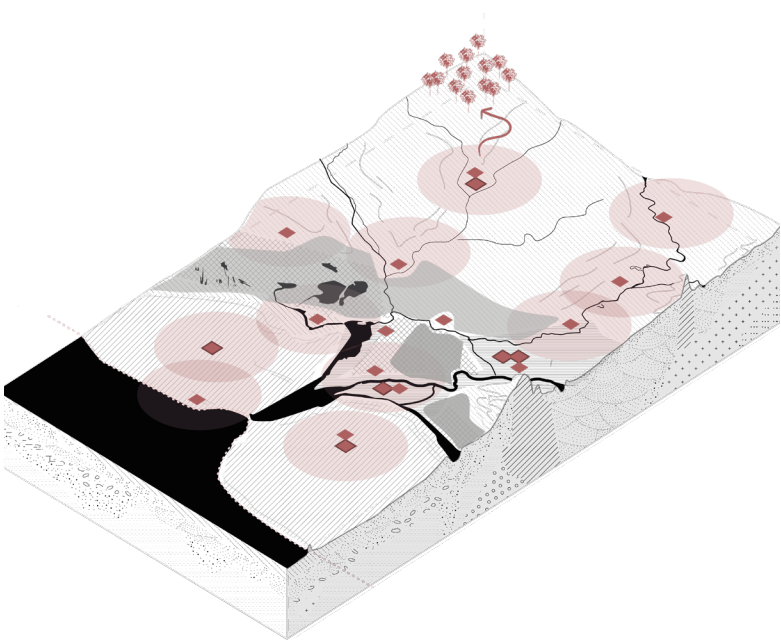


SOCIETAL GROWTH



SOCIETAL GROWTH

behavioural urban



SOCIETAL GROWTH

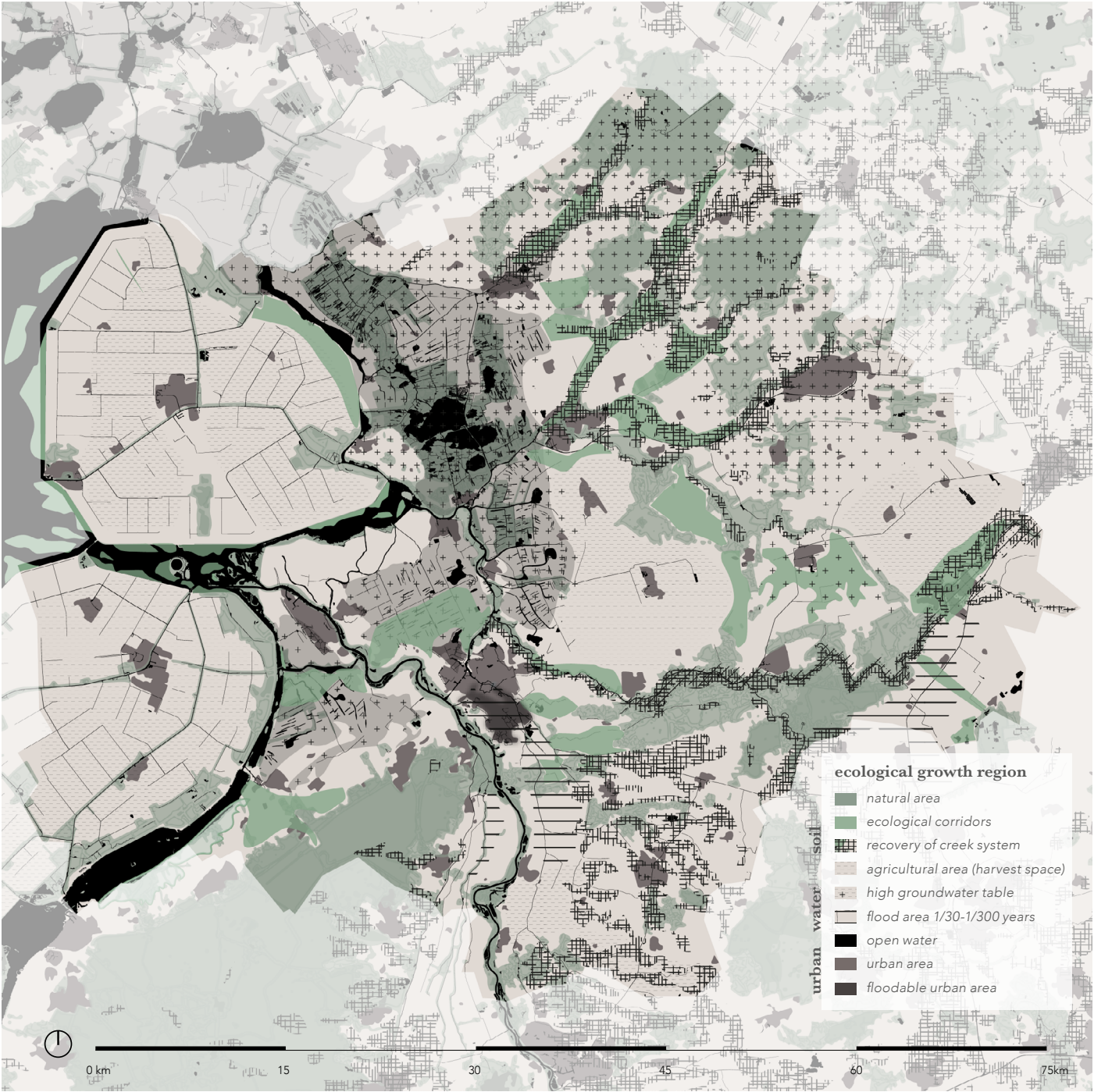
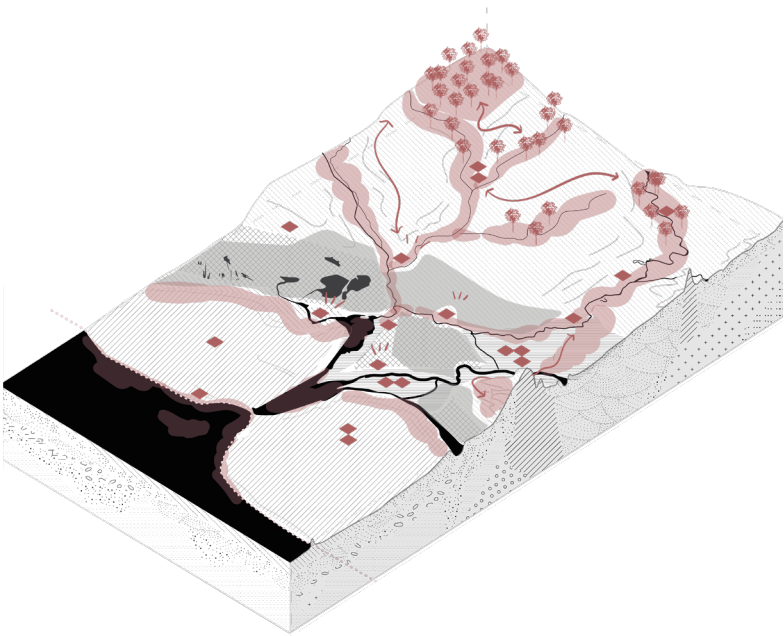


ECOLOGICAL GROWTH



ECOLOGICAL GROWTH

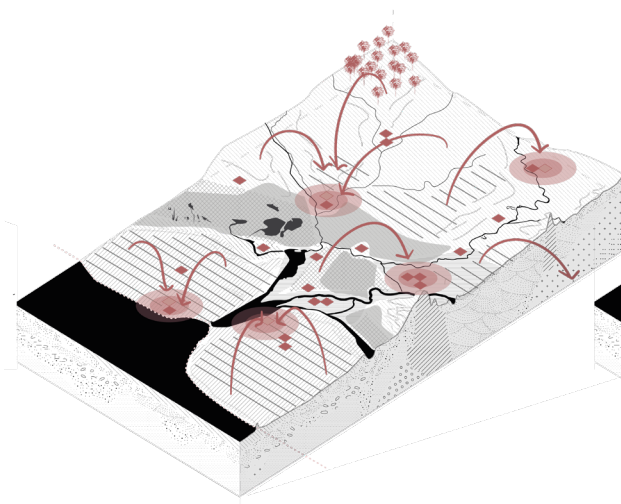
behavioural ecological



ECOLOGICAL GROWTH



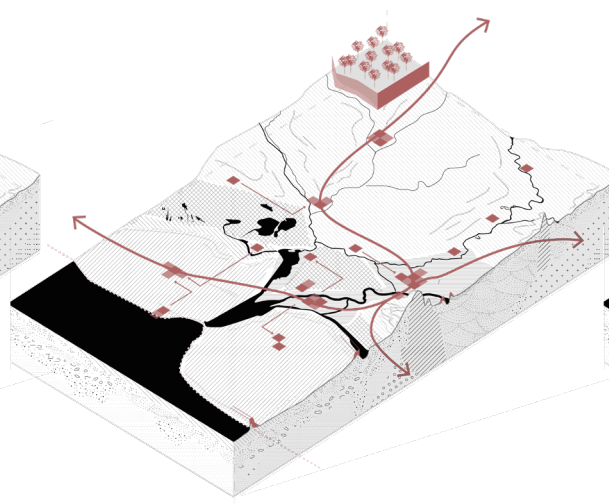
CIRCULAR GROWTH



technological ecological

biobased materials, closing product loops

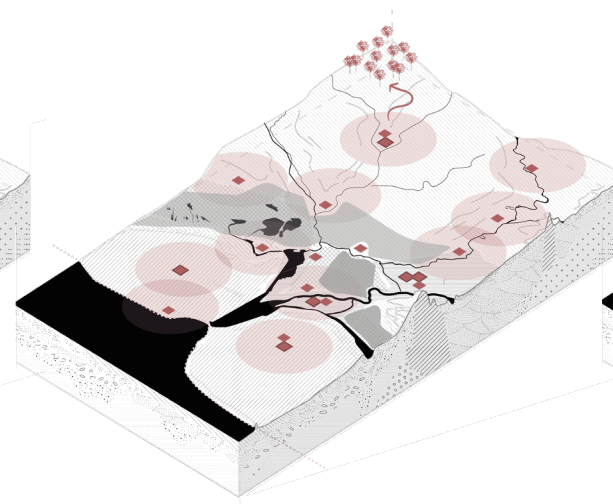
INNOVATIVE GROWTH



technological urban

efficient use of space, saving nature

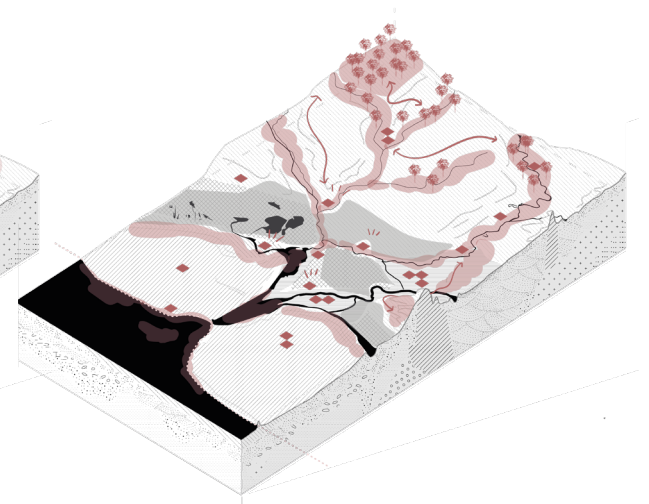
SOCIETAL GROWTH



behavioural urban

use instead of property in urban,
agricultural and mobility system

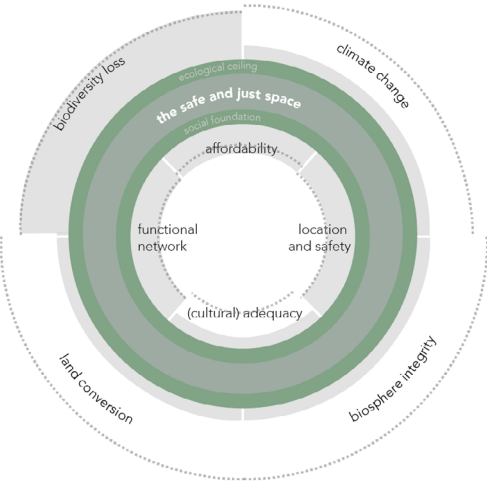
ECOLOGICAL GROWTH



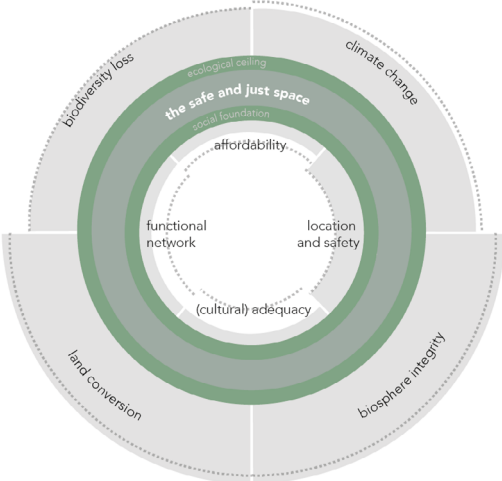
behavioural urban

all users of the space

CIRCULAR GROWTH



INNOVATIVE GROWTH



SOCIETAL GROWTH



ECOLOGICAL GROWTH



meta



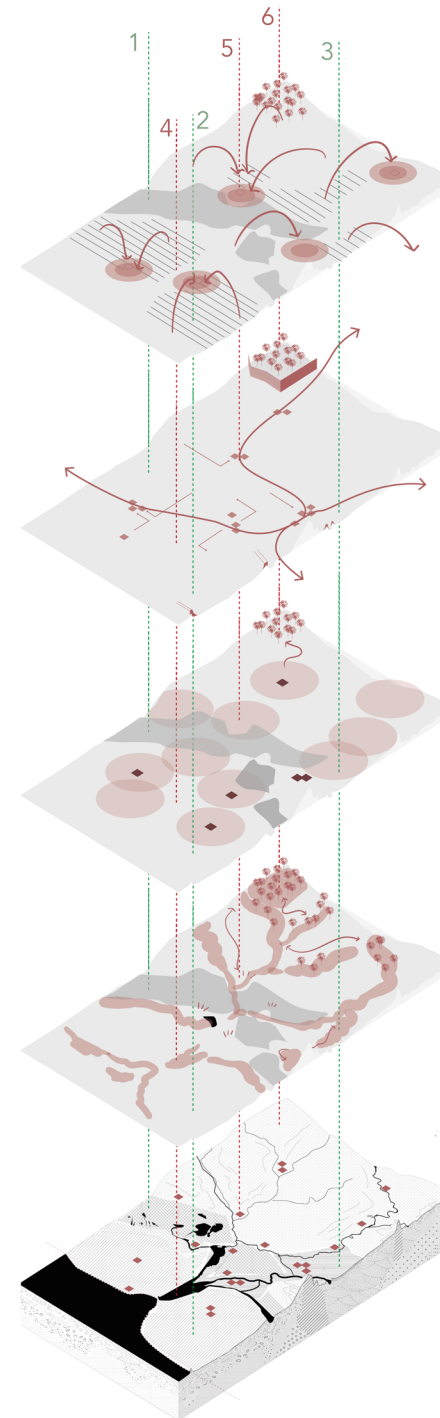


CIRCULAR
GROWTH

INNOVATIVE
GROWTH

SOCIETAL
GROWTH

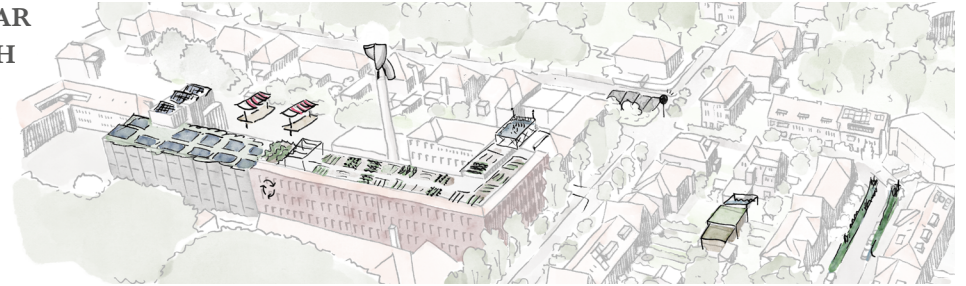
ECOLOGICAL
GROWTH



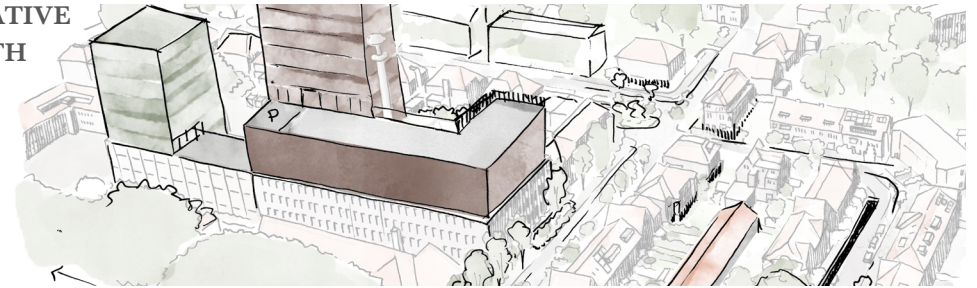




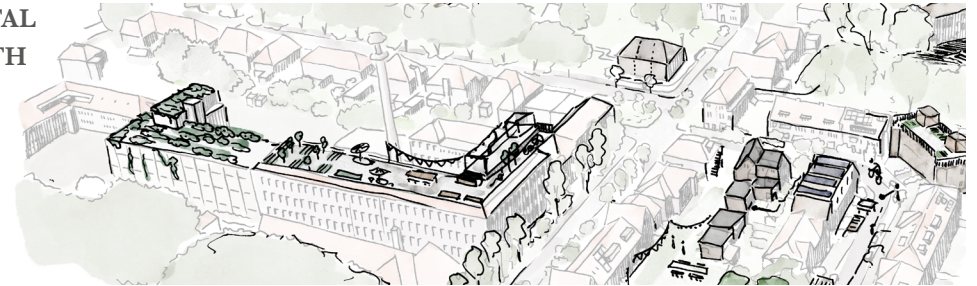
CIRCULAR
GROWTH



INNOVATIVE
GROWTH



SOCIETAL
GROWTH



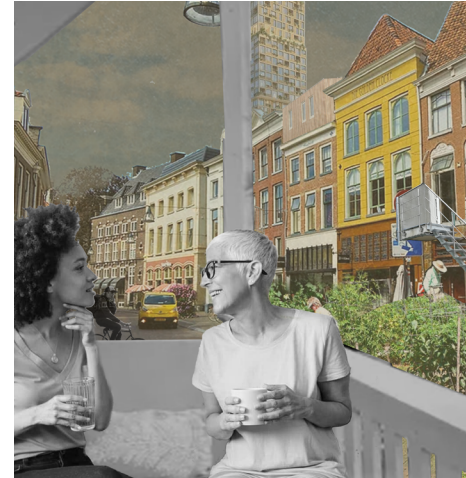
ECOLOGICAL
GROWTH



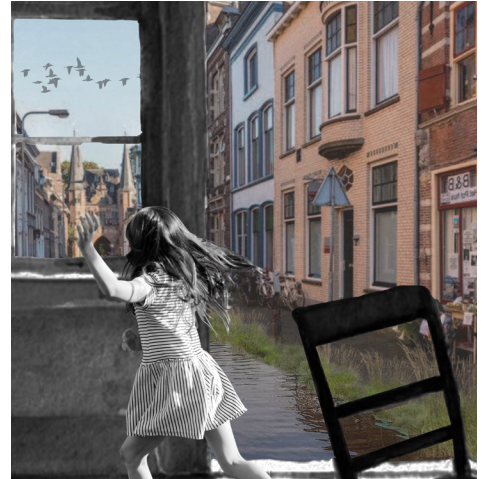
conclusion

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How can a renewed value-based spatial vision stimulate an alternative growth in the Zwolle region where the housing system can thrive within social and ecological boundaries?



How can a renewed value-based spatial vision stimulate an alternative growth in the Zwolle region where the housing system can thrive within social and ecological boundaries?



The background of the slide is a painting of a wide river, likely the IJssel, under a vast, cloudy sky. In the foreground, a grassy bank on the right is populated by a herd of cows in various colors (black, white, brown). The river stretches towards a distant city skyline, with a prominent church spire visible. The overall mood is serene and contemplative.

*Utopias are not a way to make fantasies,
but a critical way to investigate reality.*

Paola Vigano, 2021

appendix

1. main takeaways for designers and policymakers

DEFINE THE BOUNDARIES

LOOK FOR SHARED VALUES AND THEIR TRENDS

IMAGINE THROUGH SCALES

EVALUATE AS DESIGNER

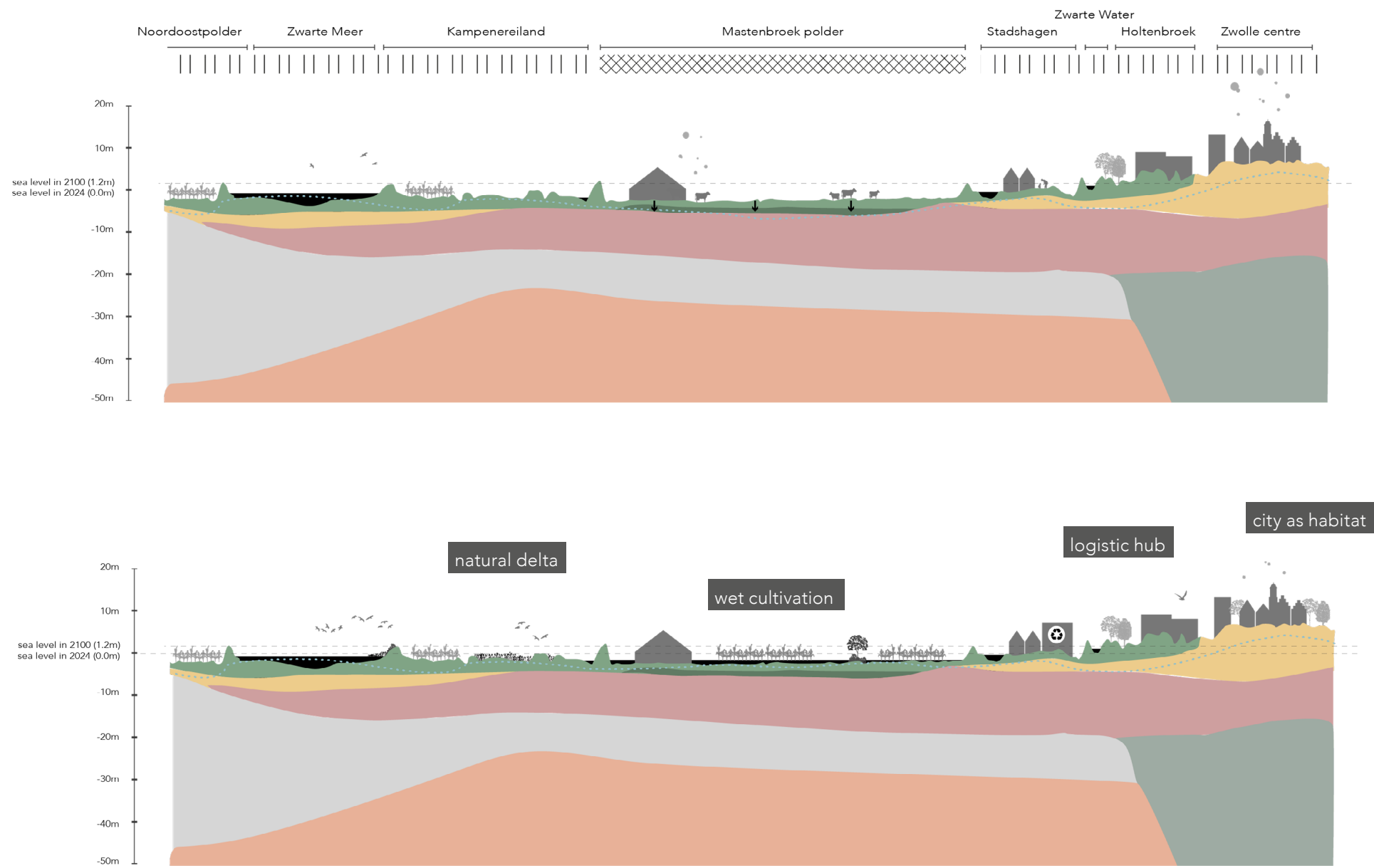
2. evaluation through zoom in design



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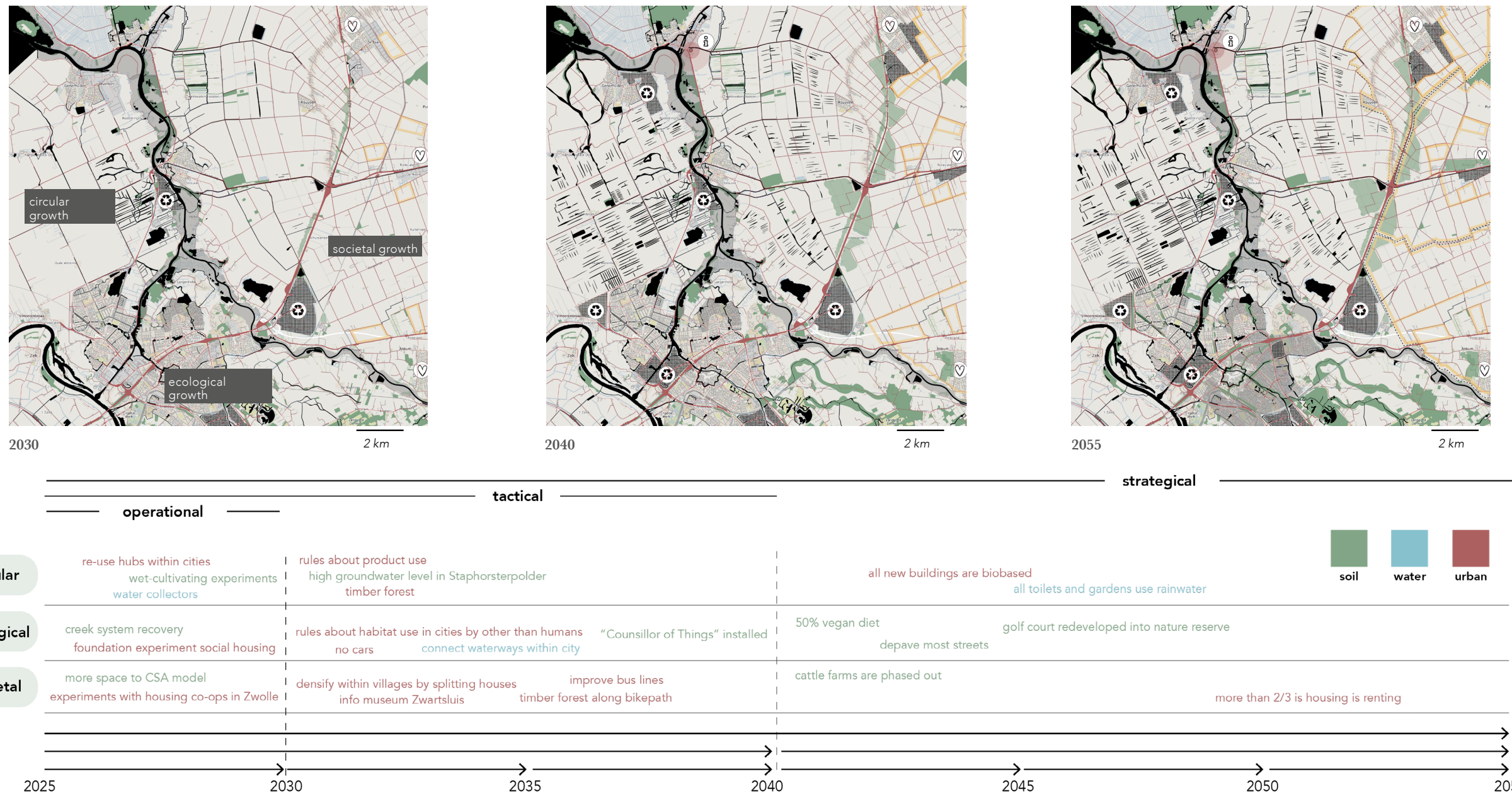


2. evaluation through zoom in design



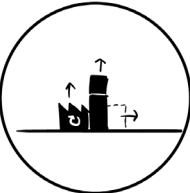
Top: section, current situation. Bottom: section, future vision

2. evaluation through zoom in design



Strategies for zoom in through time

3.1 circular growth



industry oriented development



Circl, Amsterdam, Architecten Cie



wet agriculture



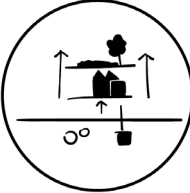
Prefab top-up element, VORM



city is node in circular system



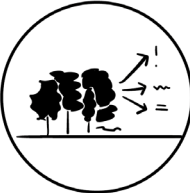
Modular construction, Almere, Mirck Architecture



function stacking



water is precious



productive ecosystem services

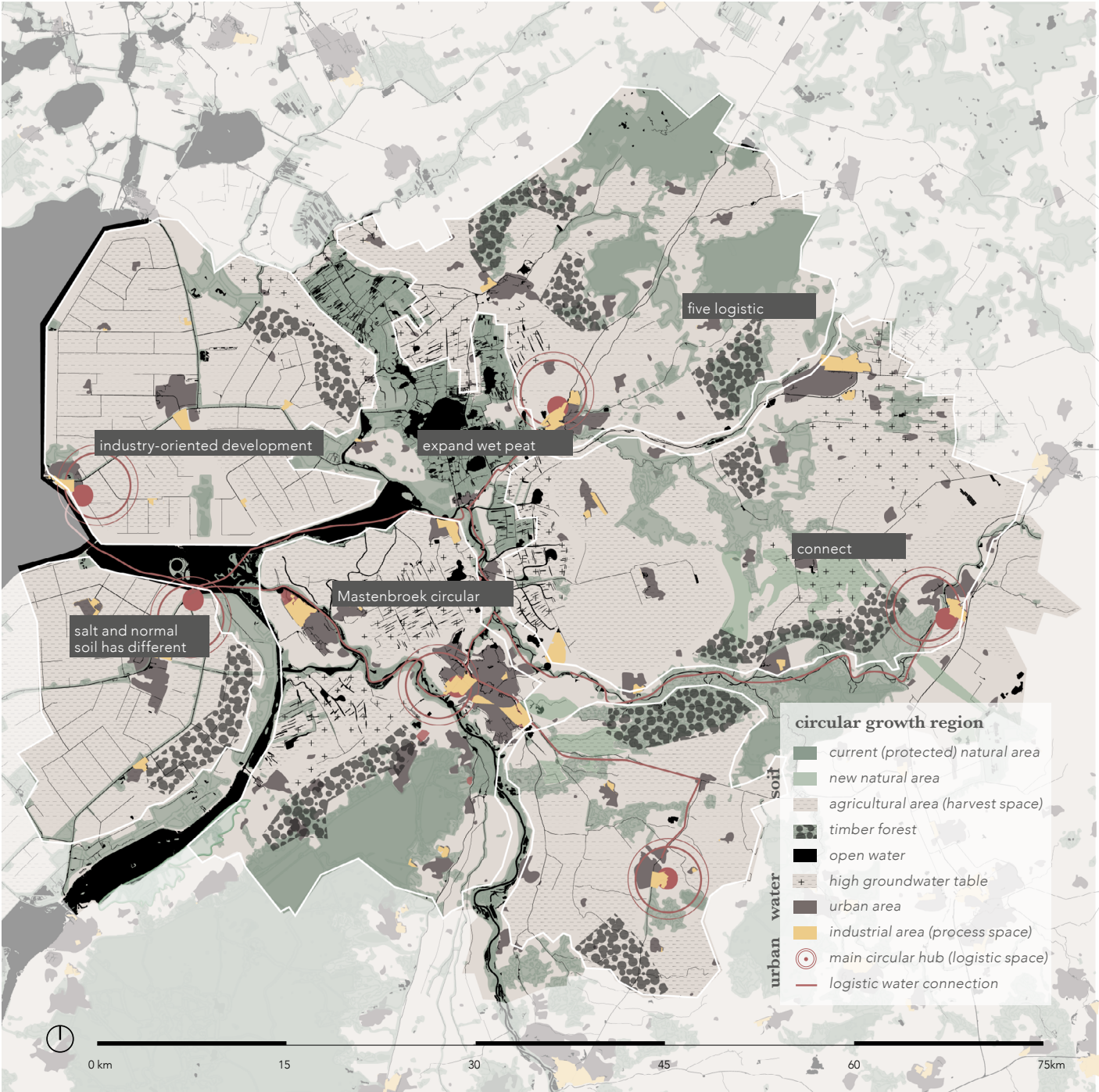


Image 78. Circular growth strategies and regional design

3.2 innovative growth



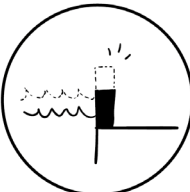
urban sprawl (but TOD)



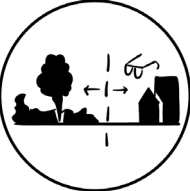
transit oriented development



useful height and air space



more Deltaworks



nature separated from humans



public mobility



Veenetië, Woerden



Norbruislaan, Utrecht, Vanschagen Architecten



Modular Office Renovation, Delft

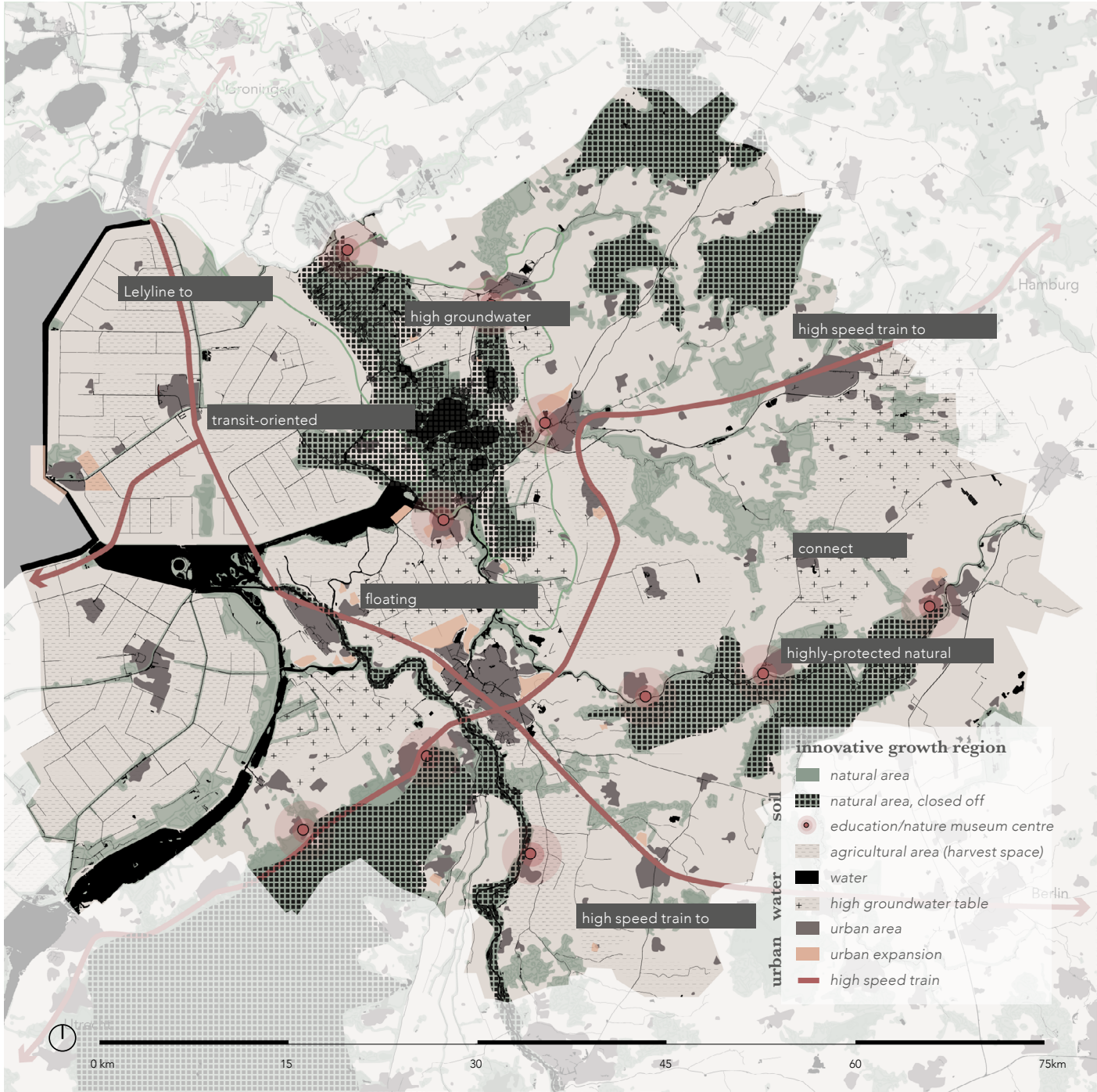


Image 84. Innovative growth strategies and regional design

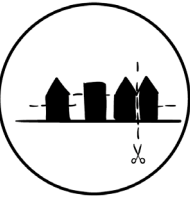
3.3 societal growth



village-based region



Erve Kiekebos, Empe



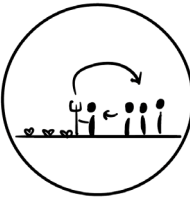
co-housing and housing co-operatives



De Warren, Amsterdam



community-oriented development



community-supported agriculture (CSA)



Aahof, Zwolle



nature providing cultural services

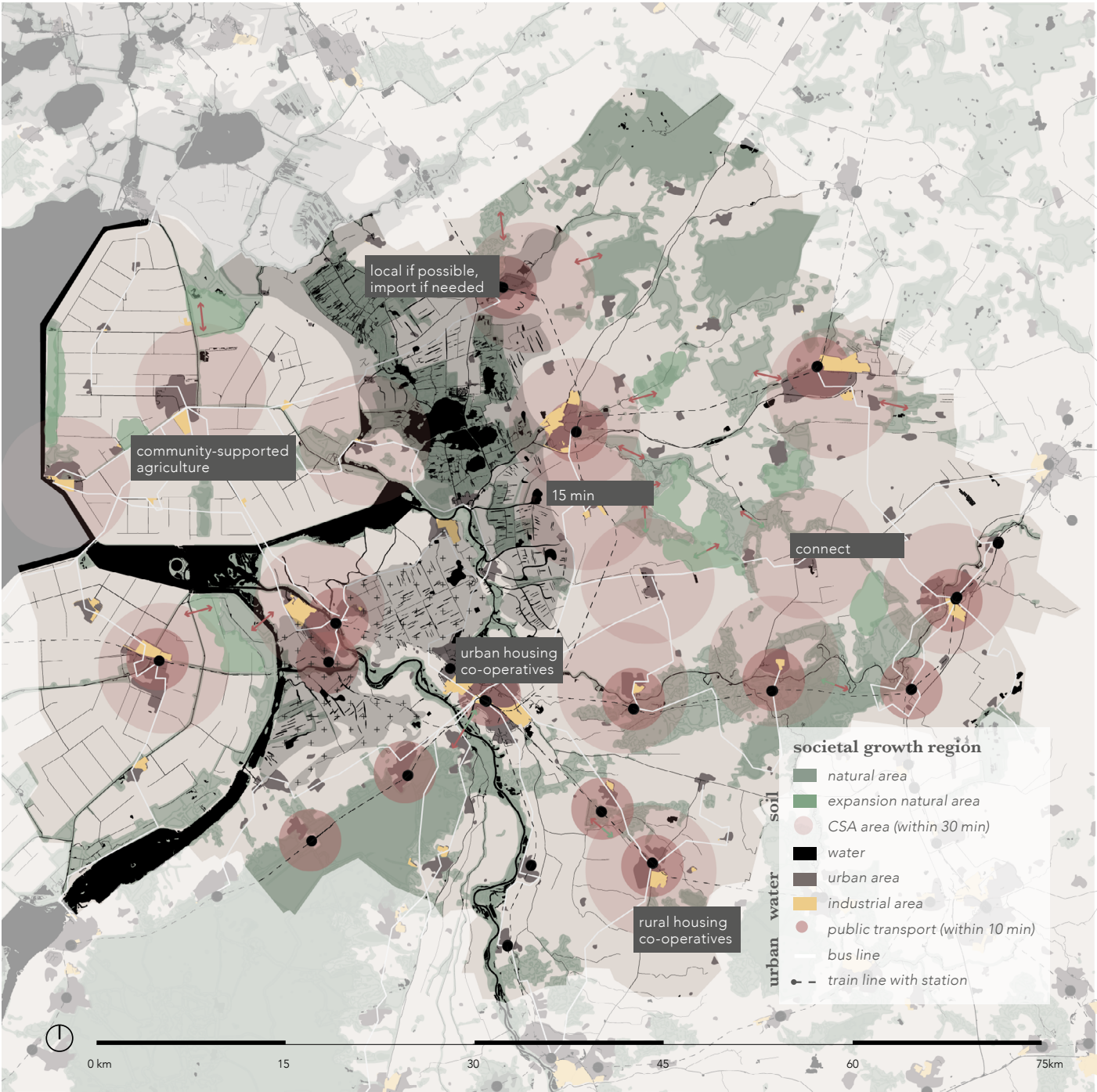


Image 90. Societal growth strategies and regional design

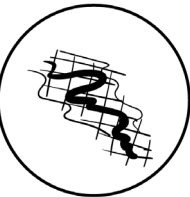
3.4 ecological growth



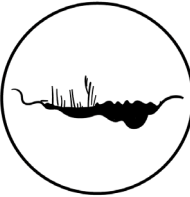
ecological corridors are priority



functions follows soil



recovery of creek system



nature-based solutions



city as a special habitat



River Aires, Geneva, Atelier Descombes



Dakakker, Rotterdam. By Floor Beerthuis



Catharijnesingel, Utrecht, OKRA

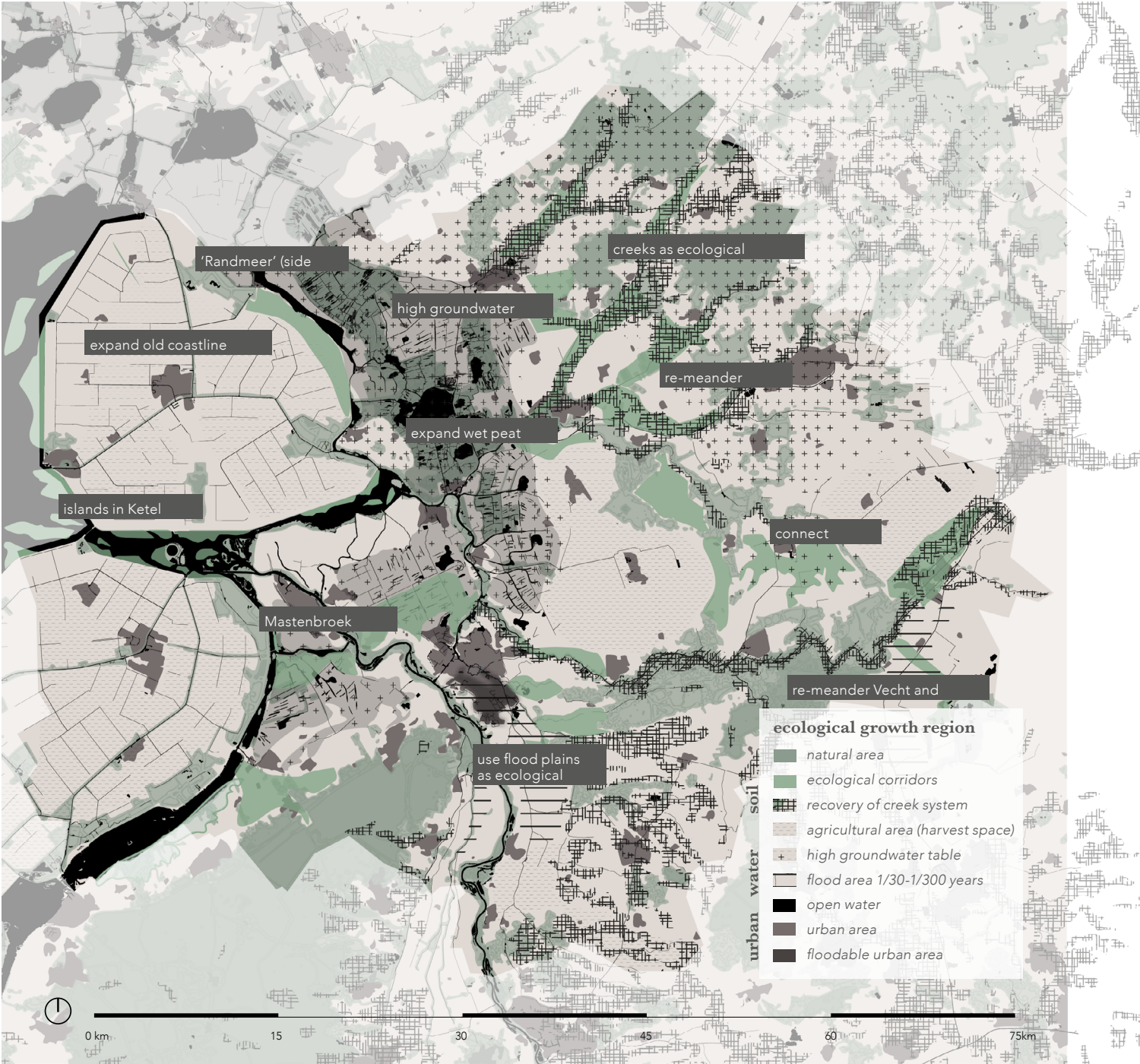


Image 96. Ecological growth strategies and regional design

4. power of design

