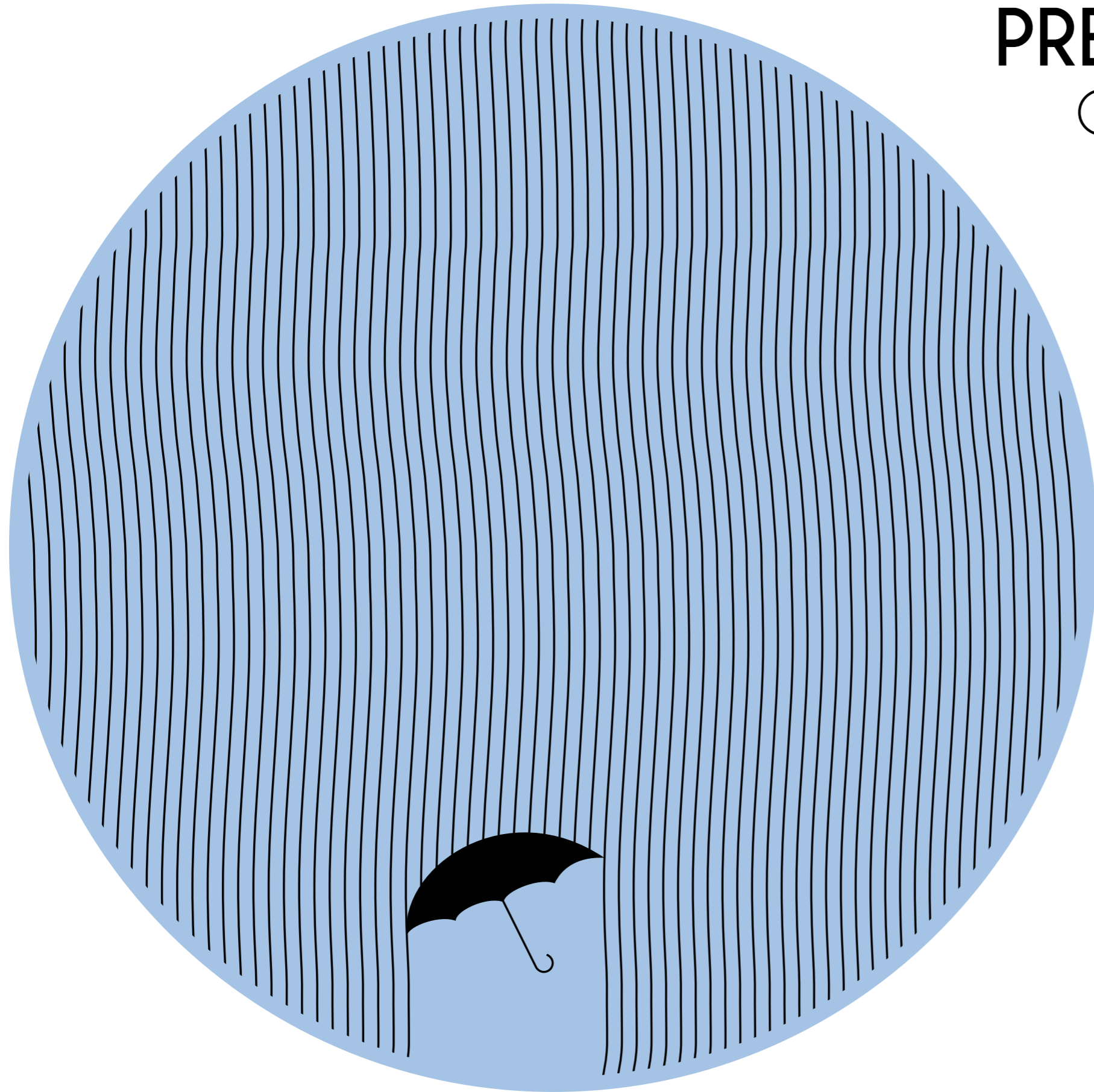


PREVENT THE FLOOD

Graduation Presentation

Marieke Oosterom



CONTENT

- problem
- objectives
- Rivierenbuurt
- Rokin, OLVG west,
Javastraat
- applicability
- conclusion



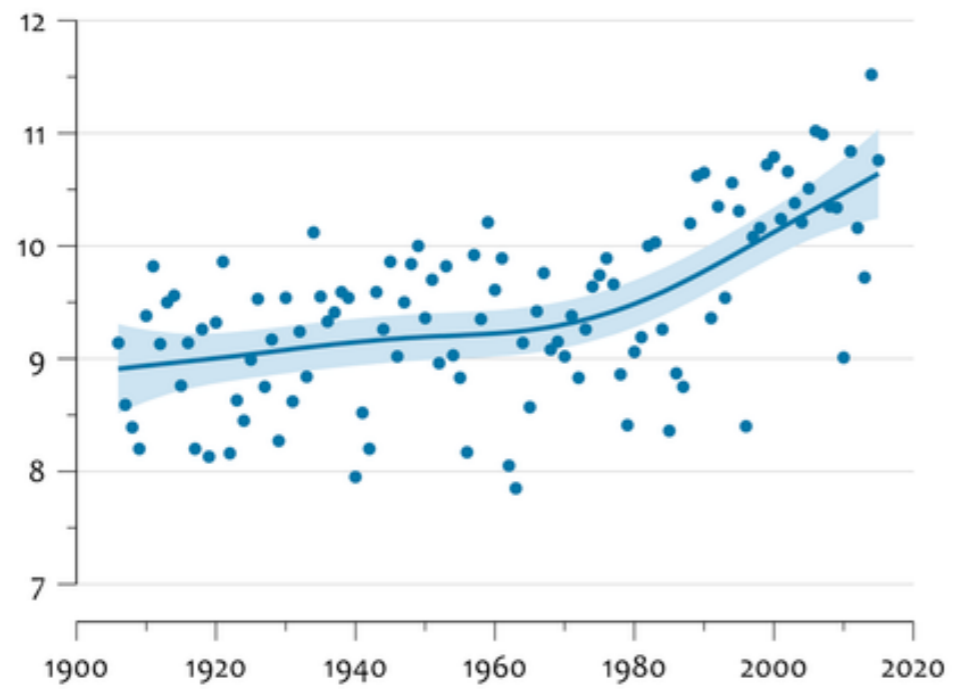


CAUSES

two major developments

climate change

predicted temperature rise Midden Nederland



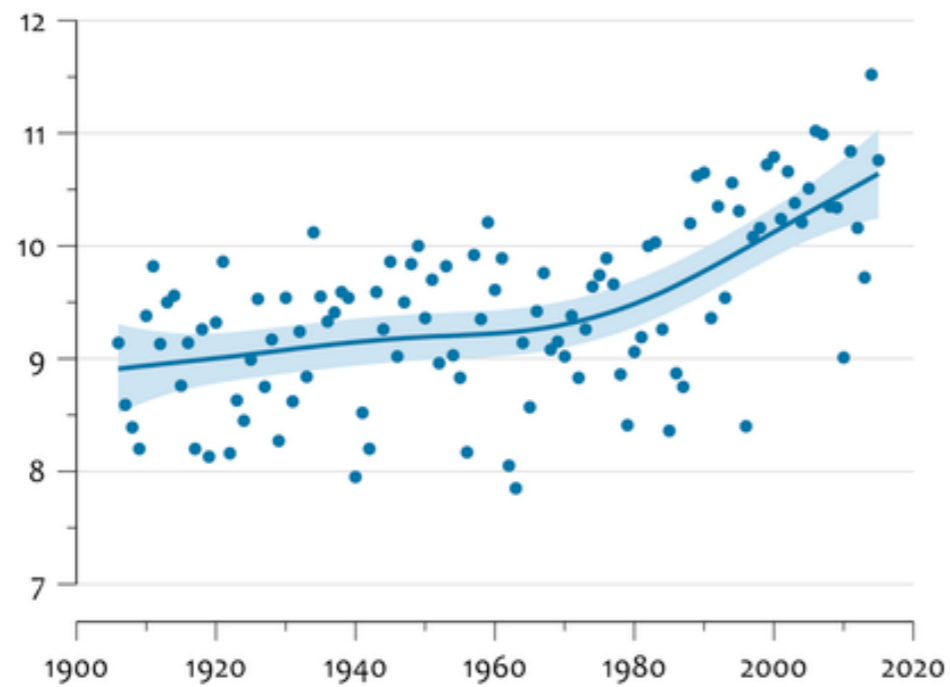
- annual average
- trend
- uncertainty trend

CAUSES

two major developments

climate change

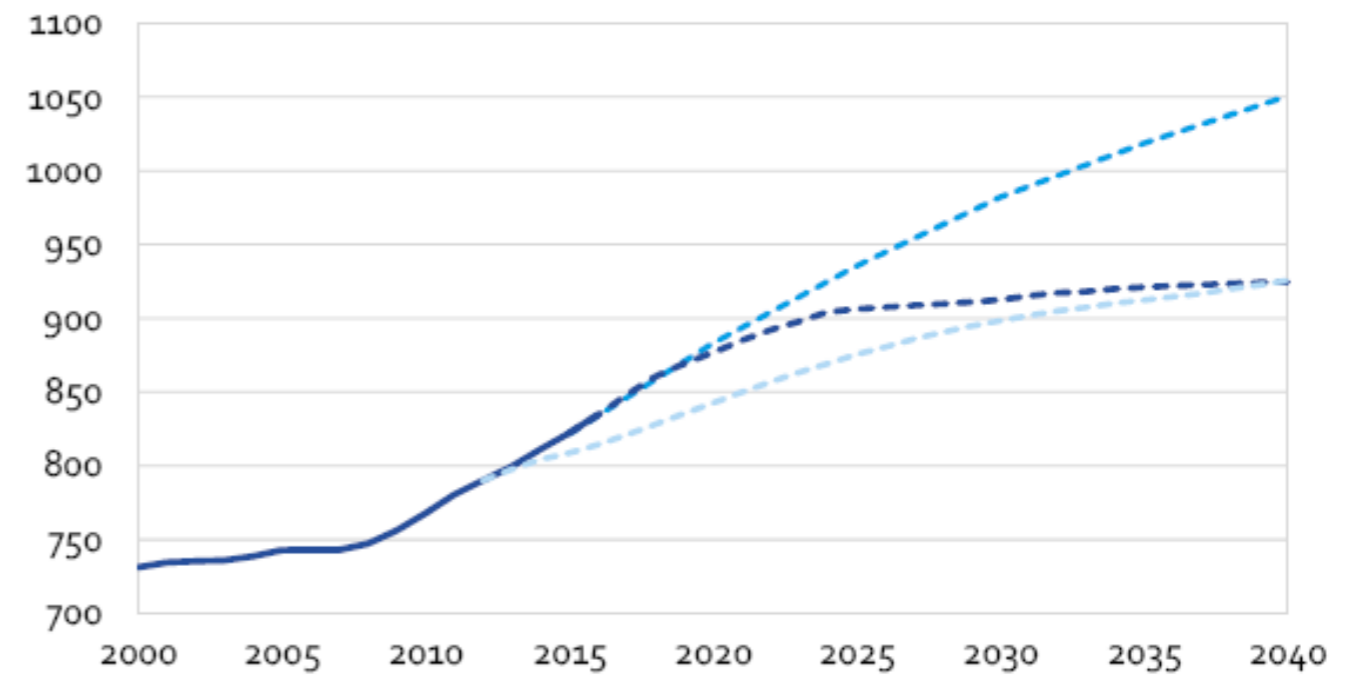
predicted temperature rise Midden Nederland



- annual average
- trend
- uncertainty trend

urban growth

predicted population growth Amsterdam

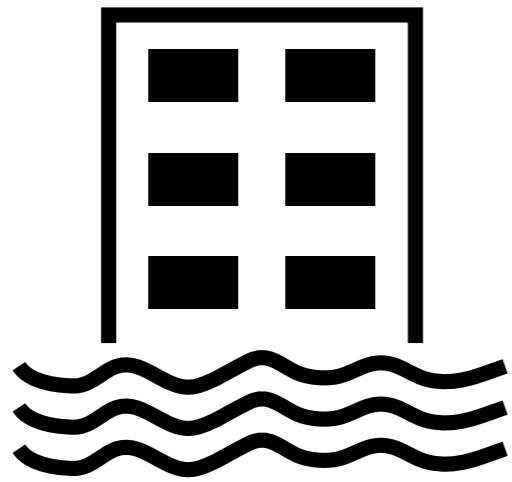


- - - population Primos 2015
- population OIS 2015
- ... population PEARL 2014

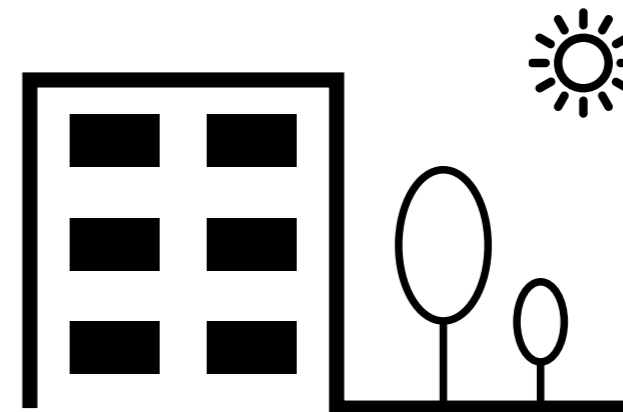
OBJECTIVES

multi-lateral solutions

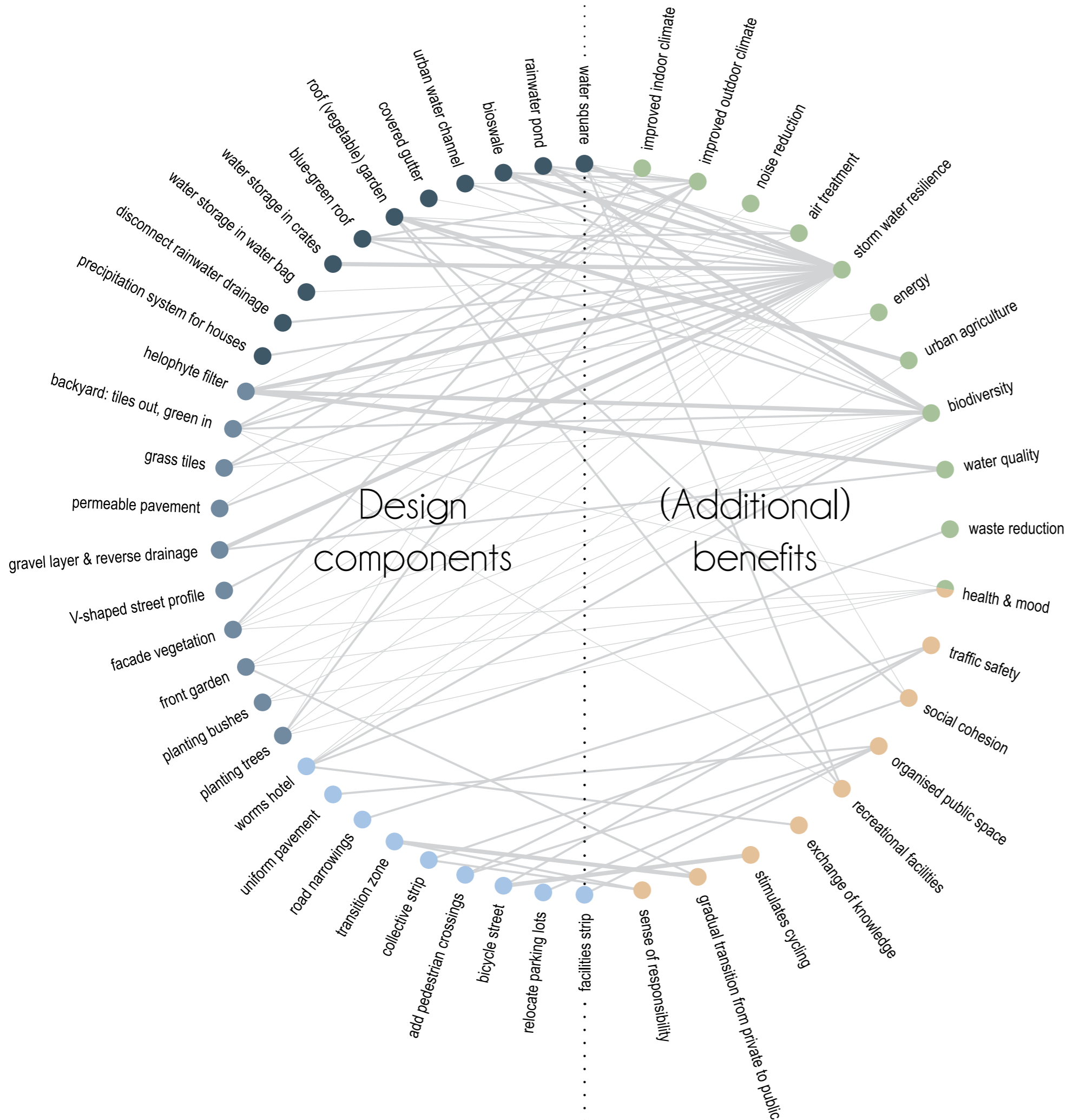
storm water resilient,



sustainable & livable city



SOLUTIONS



Legend

Type of benefit:

- sustainable benefit
- socio-economic benefit

Type of design component:

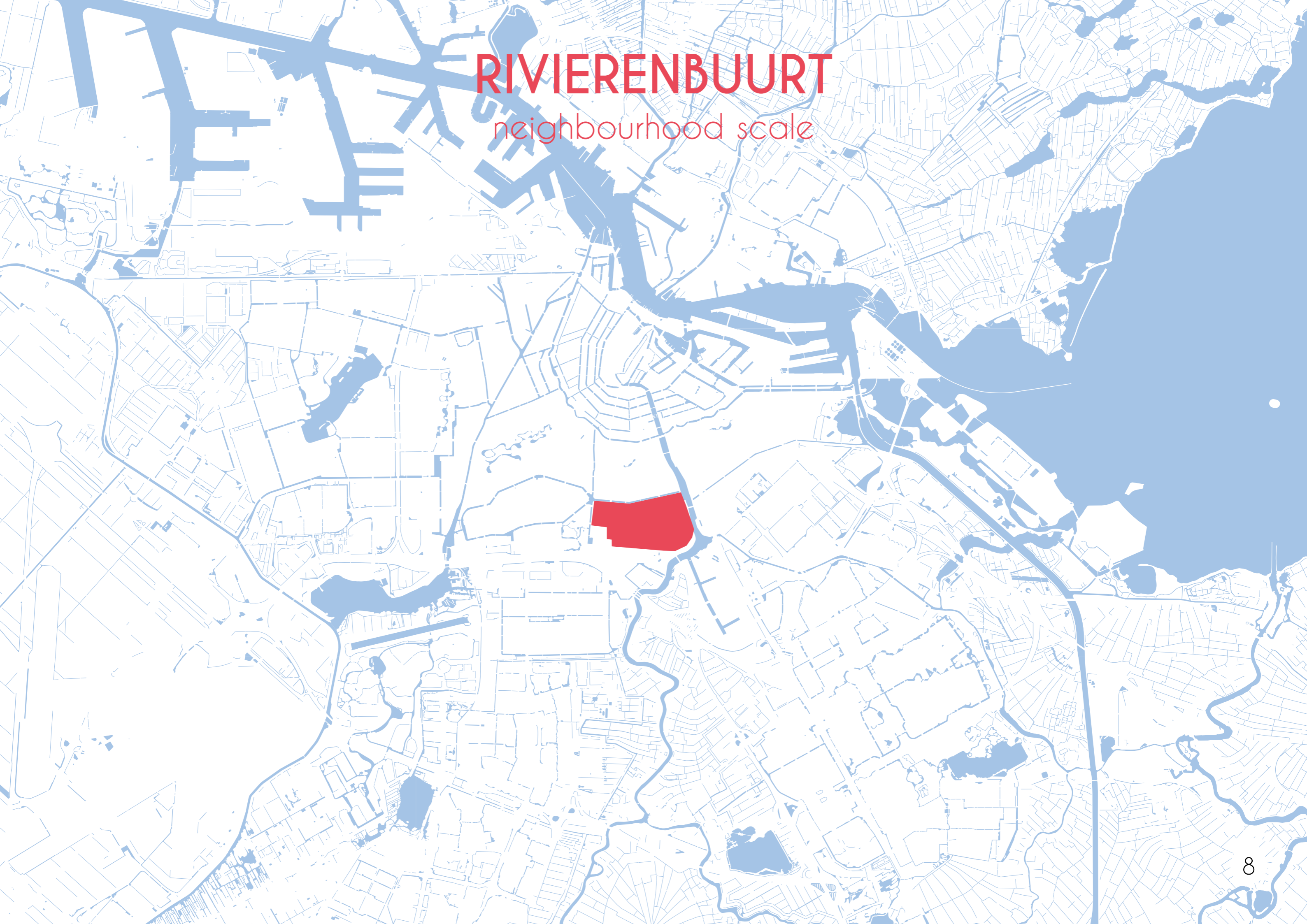
- very much water related
- somewhat water related
- not water related

Impact:

- high
- medium
- low

RIVIERENBUURT

neighbourhood scale



RIVIERENBUURT

context



enclosed by water



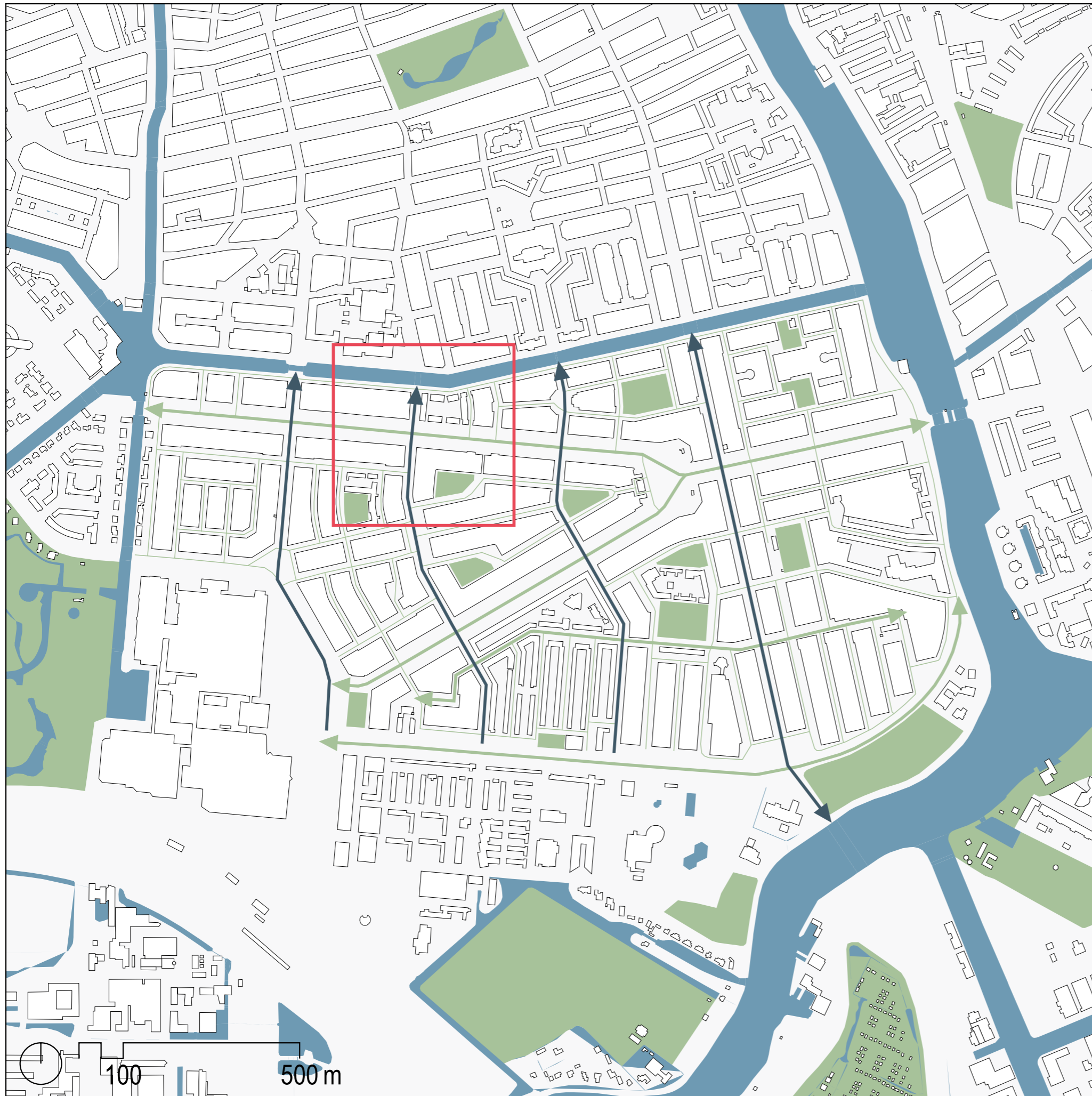
parking



unique open spaces

RIVIERENBUURT

concept



Legend

- surface water
- green
- building
- bird's eye view
- storm water road
- retention road
- green road
- retention area

RETENTION ROAD

primary road



STORM WATER ROAD

secondary road



GREEN ROAD

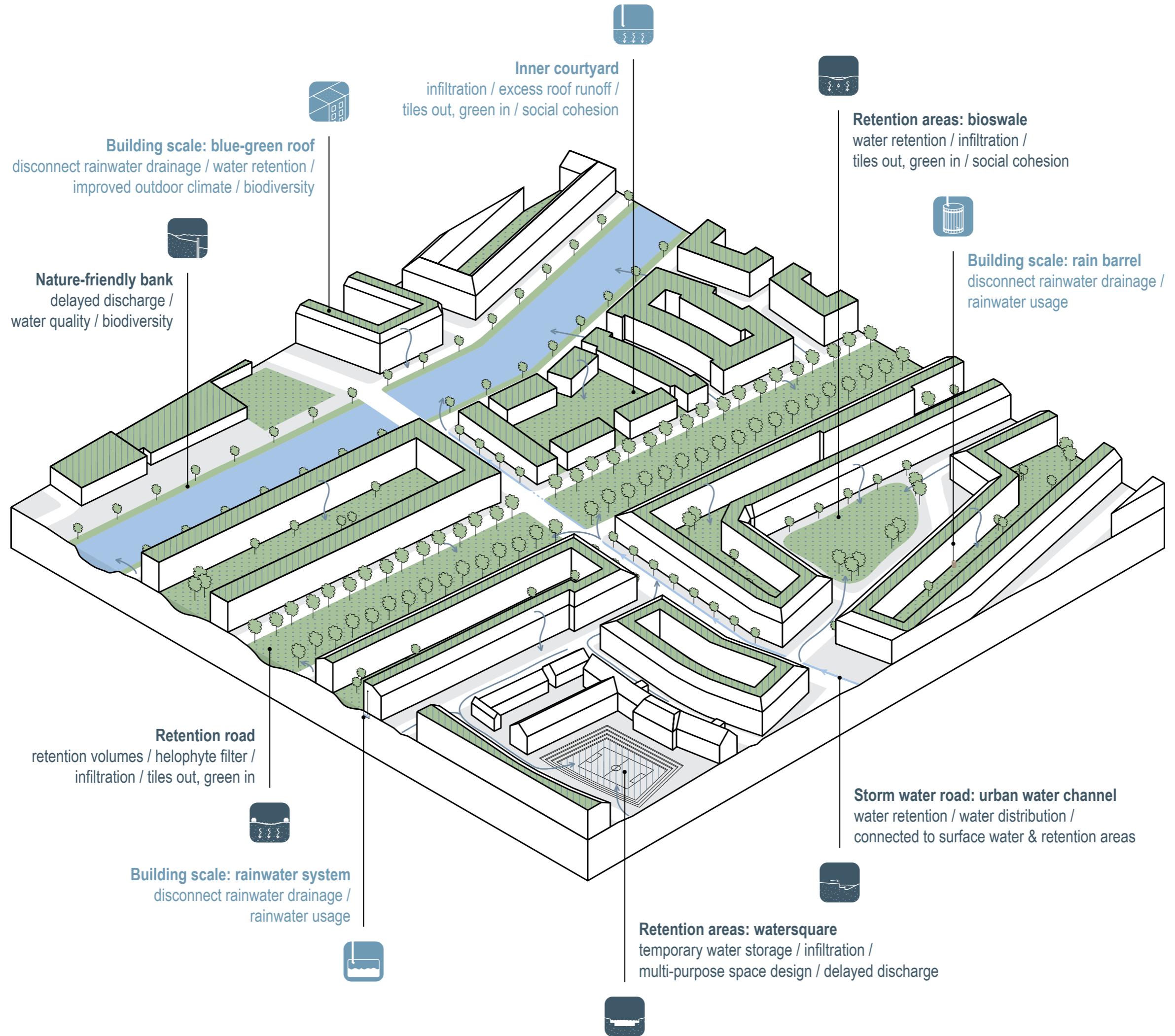
residential road



RETENTION AREA

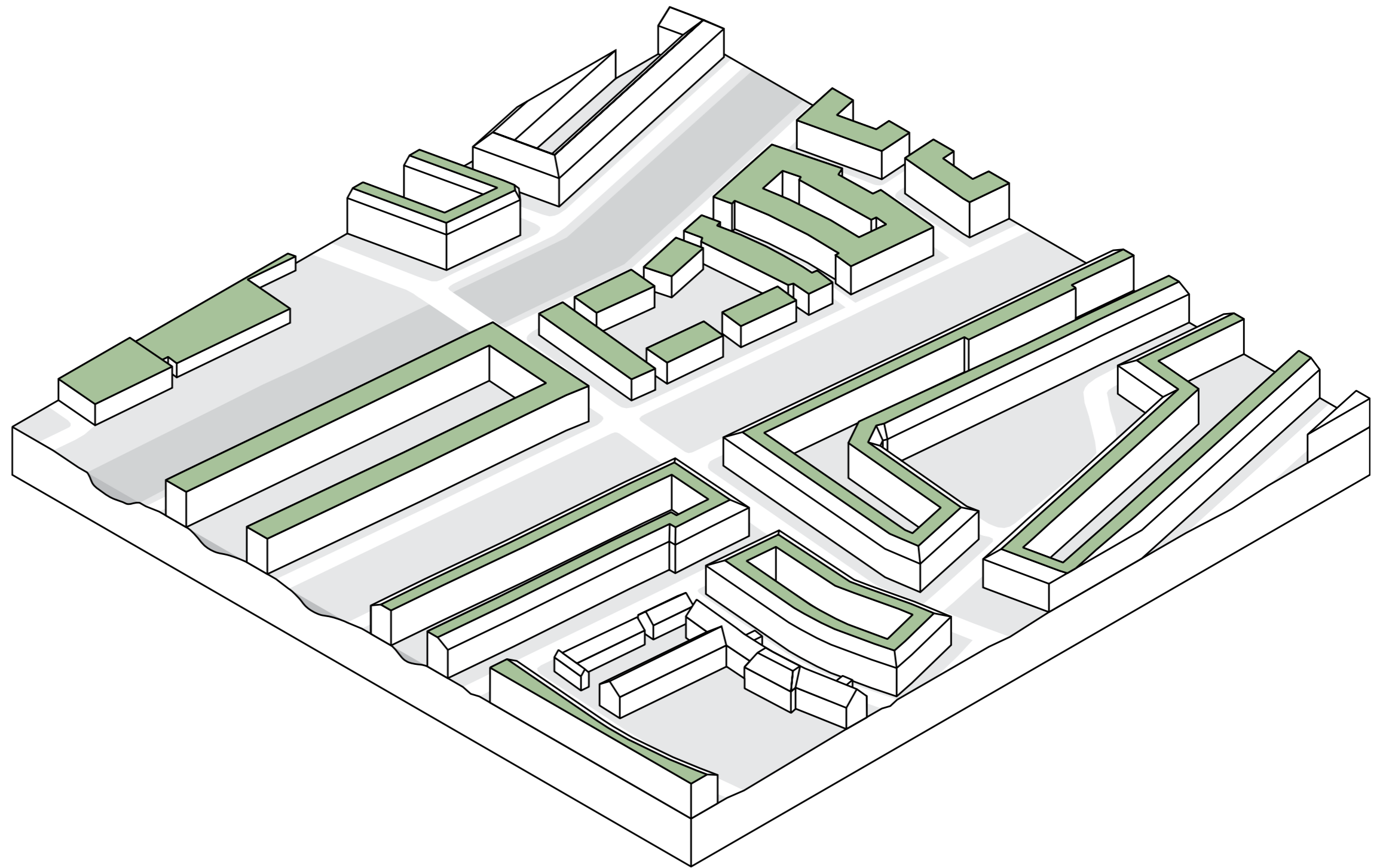
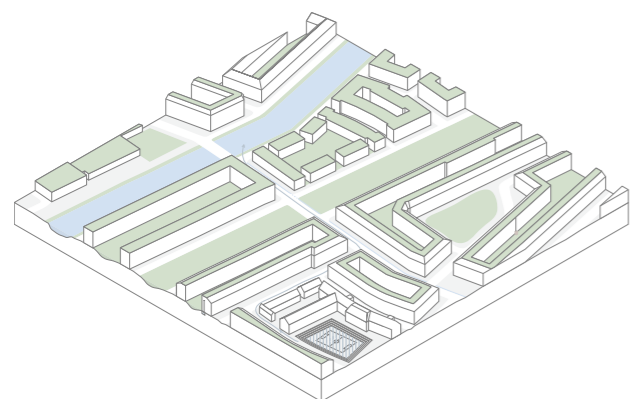
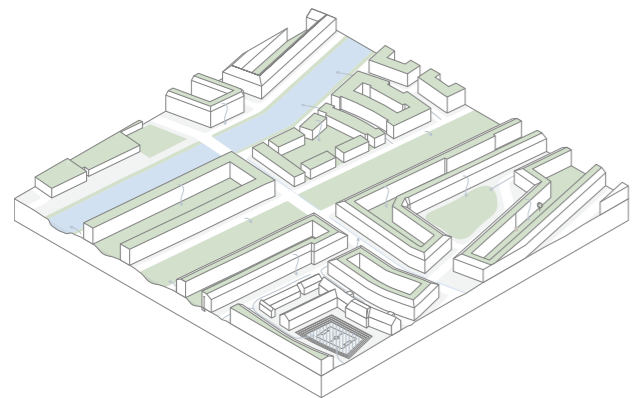
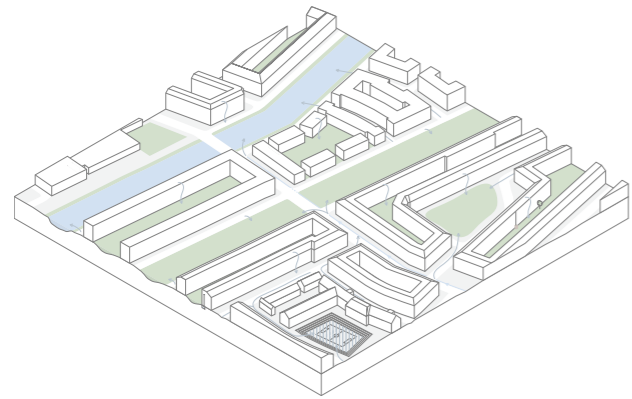
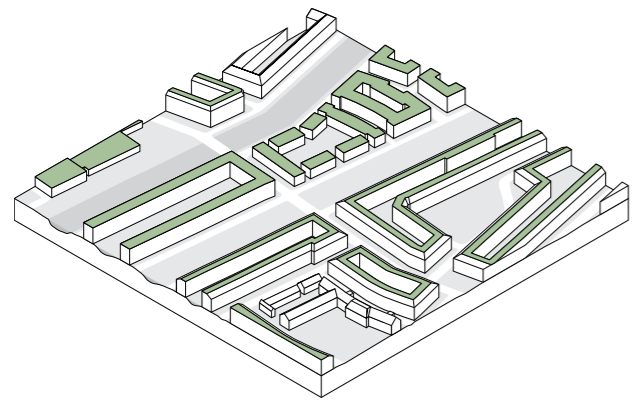
parks & squares





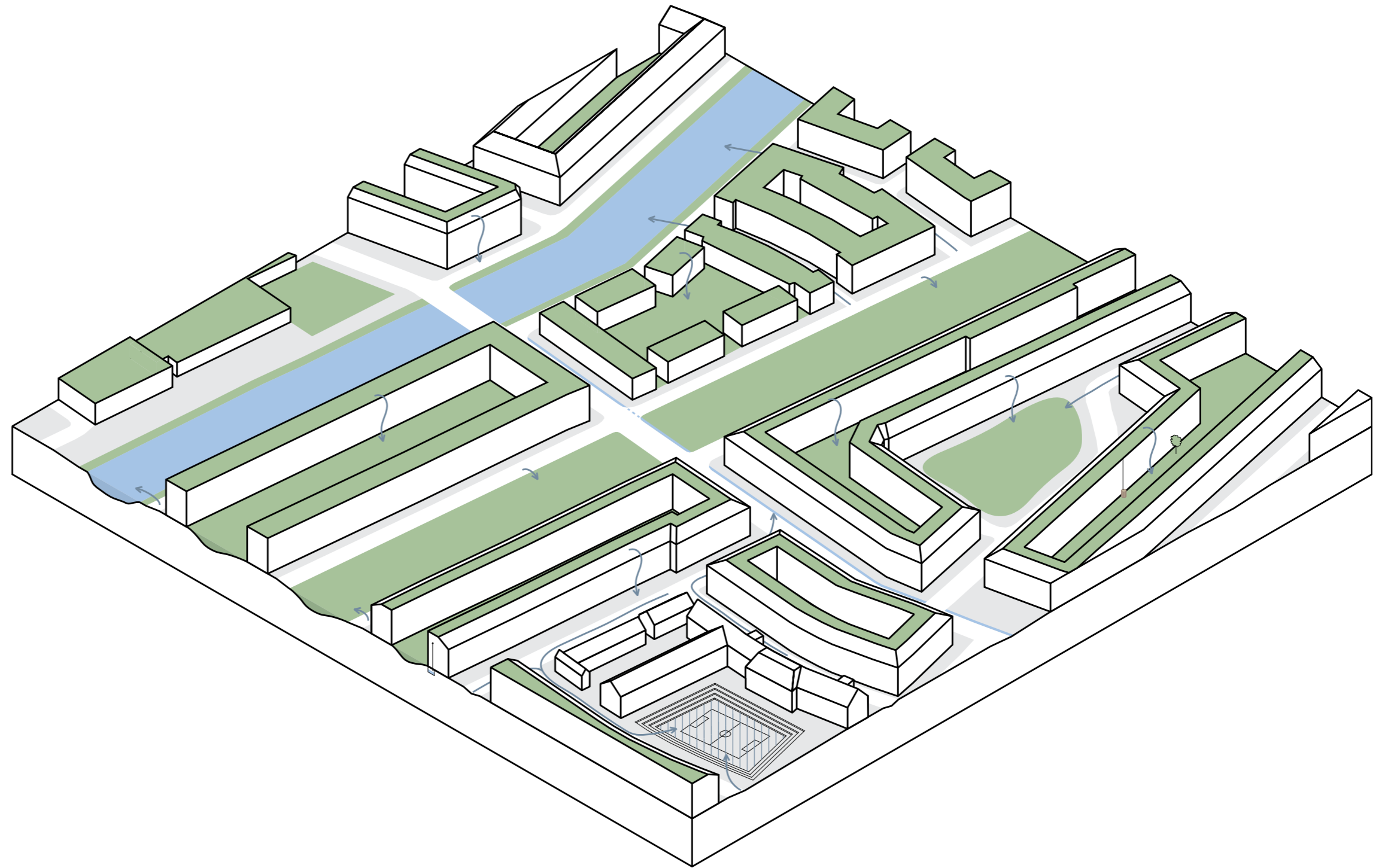
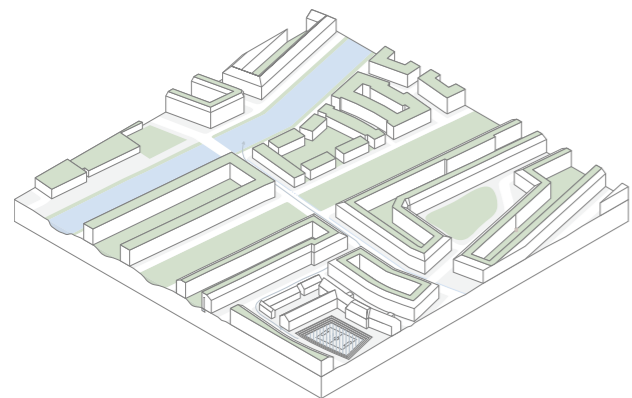
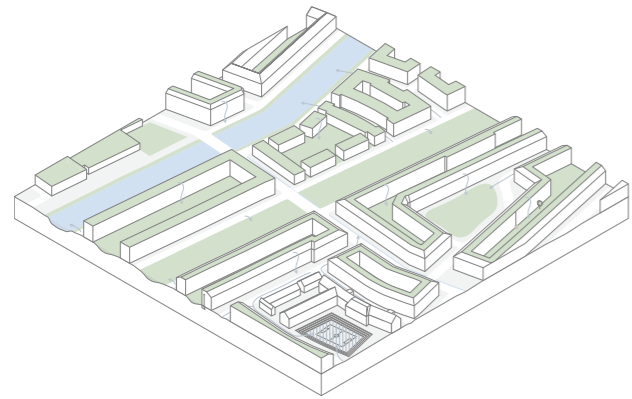
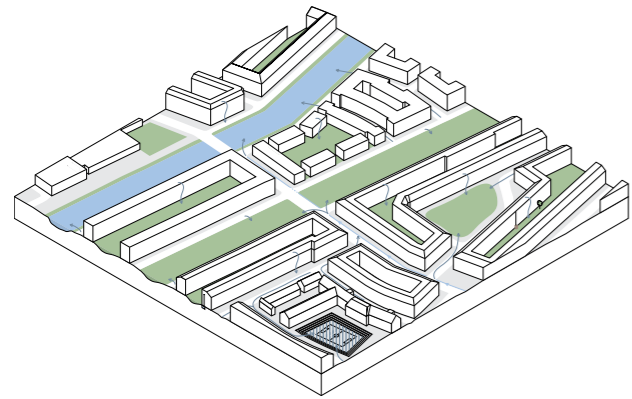
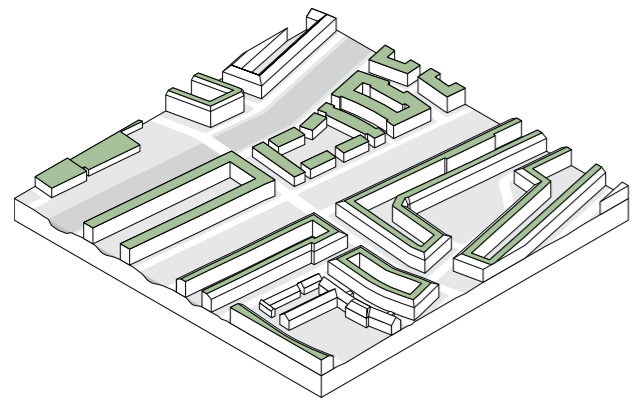
RIVIERENBUURT

phase 1



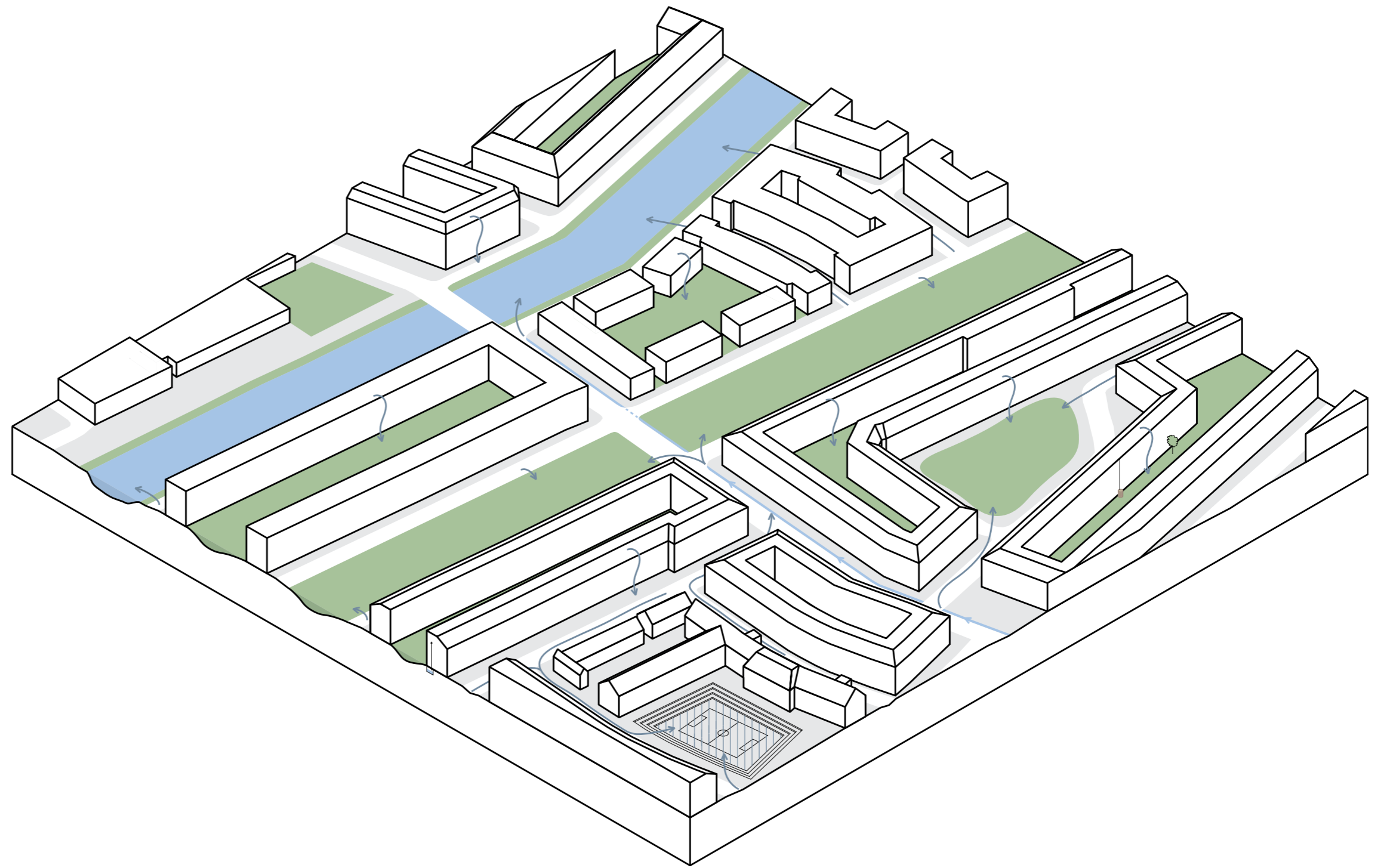
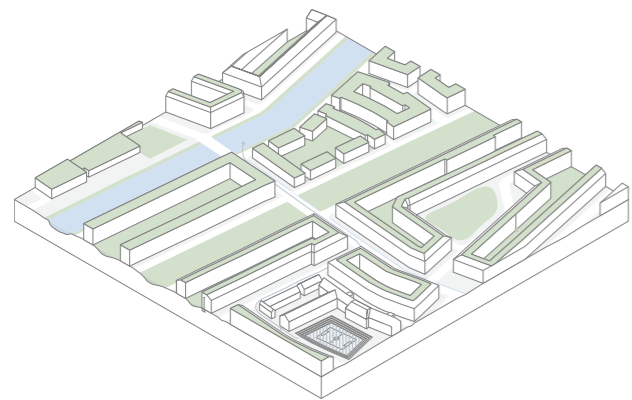
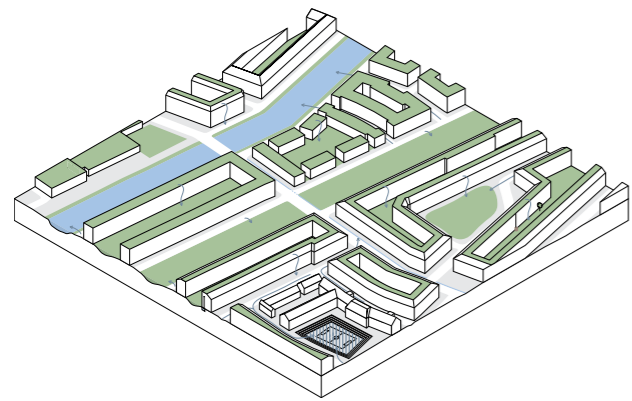
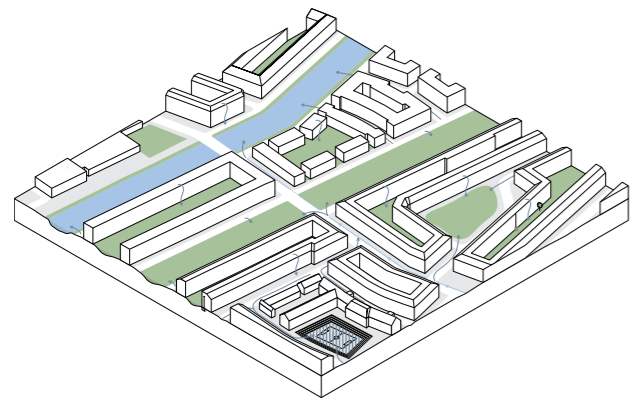
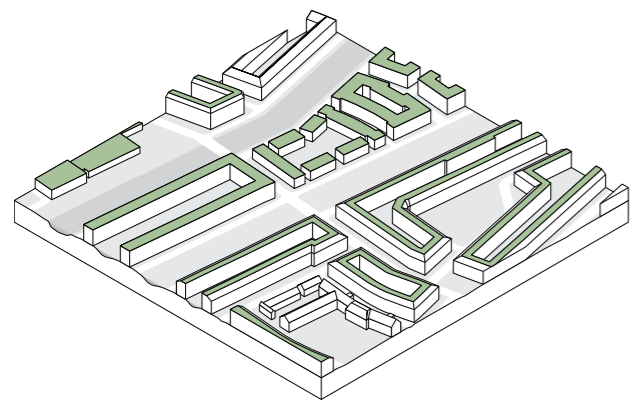
RIVIERENBUURT

phase 2



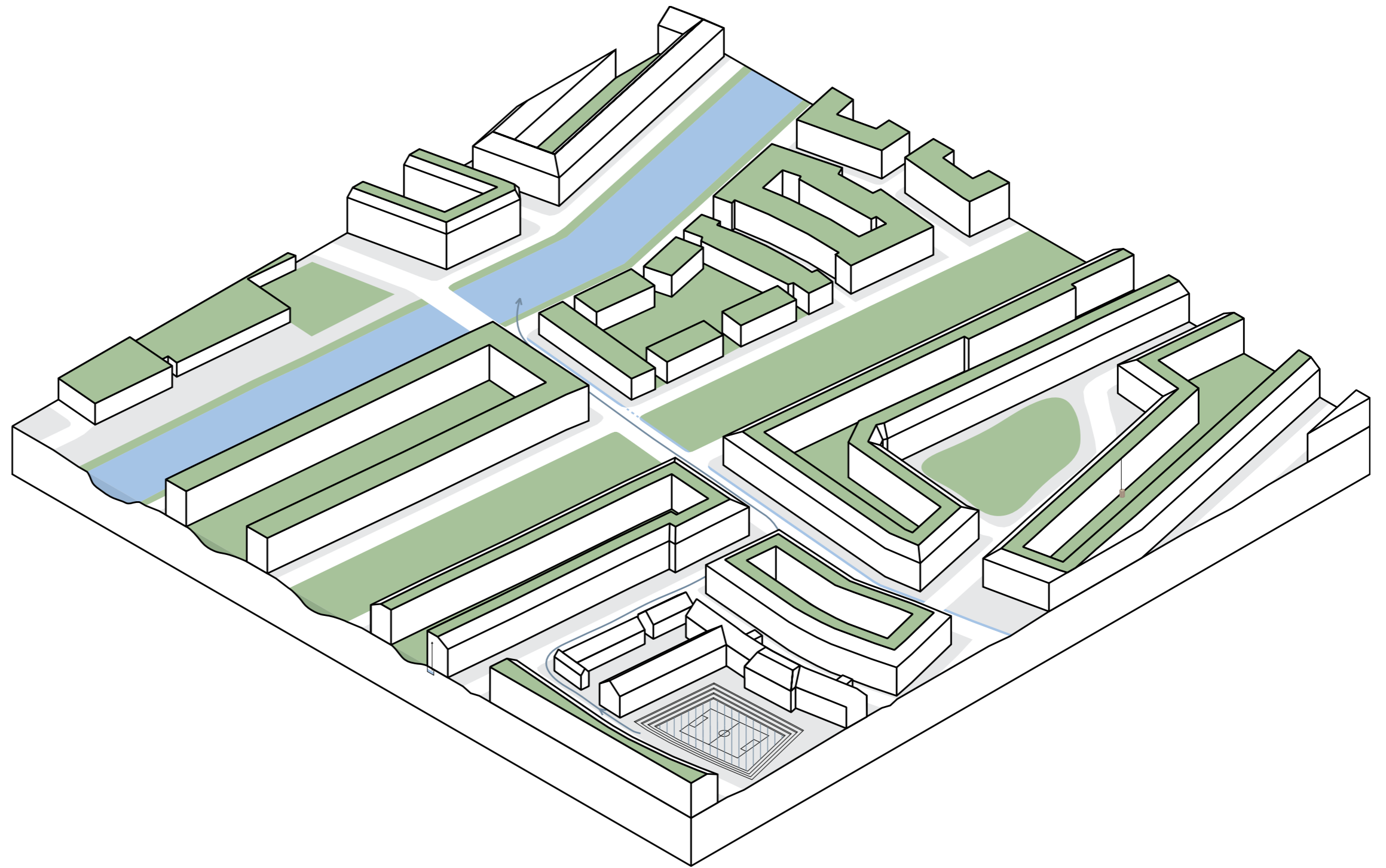
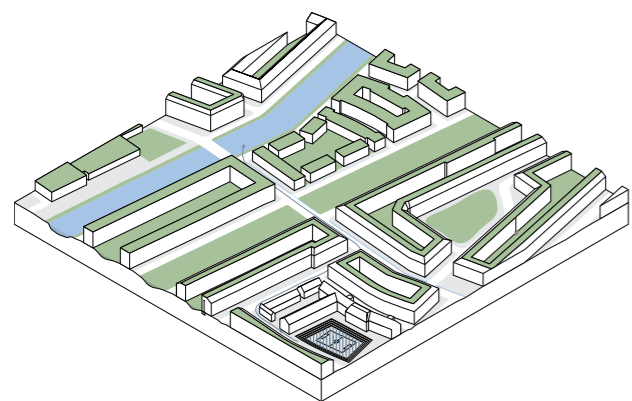
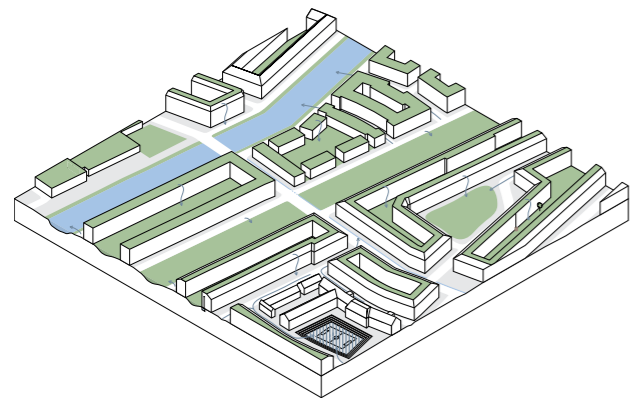
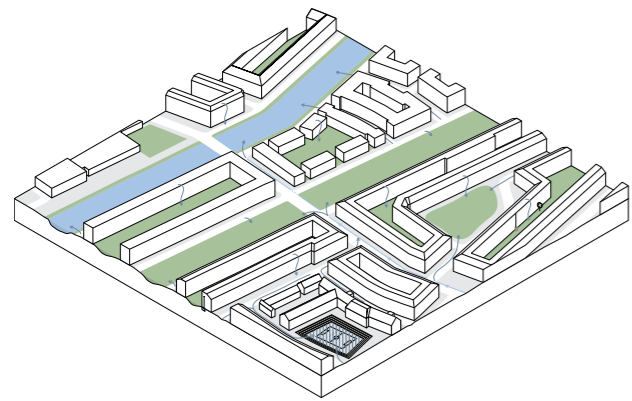
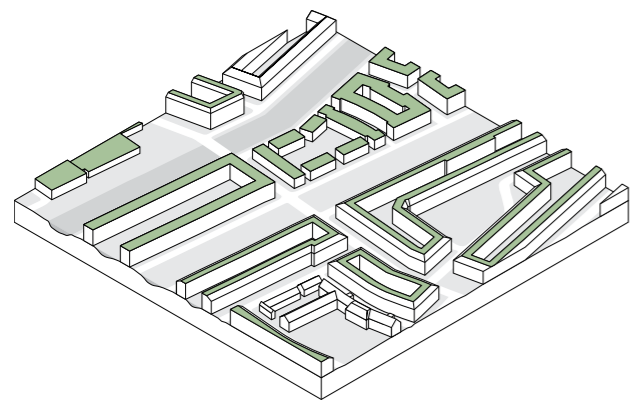
RIVIERENBUURT

phase 3



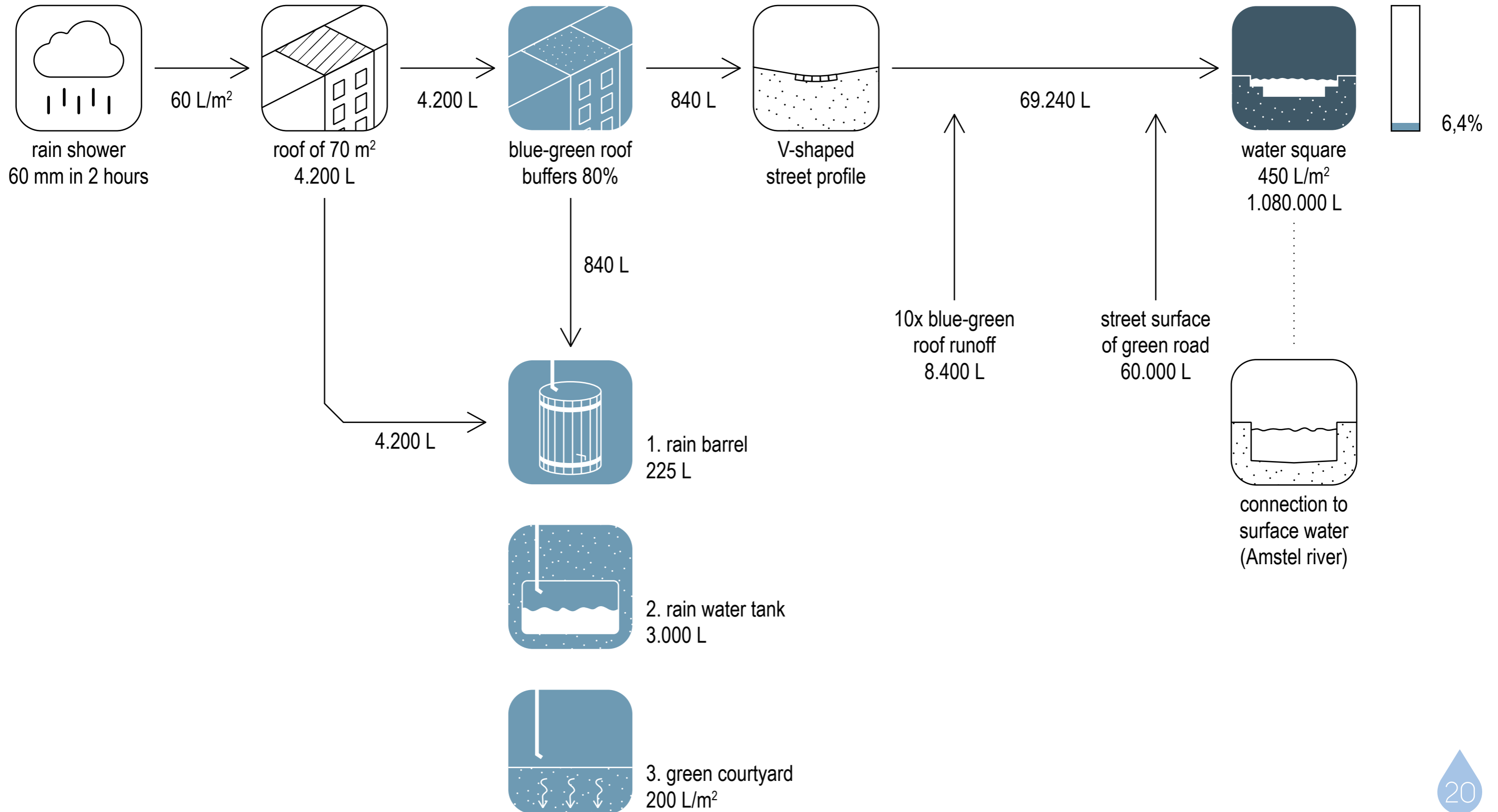
RIVIERENBUURT

phase 4



RIVIERENBUURT

evaluation



ROKIN

street scale



ROKIN

context



height differences



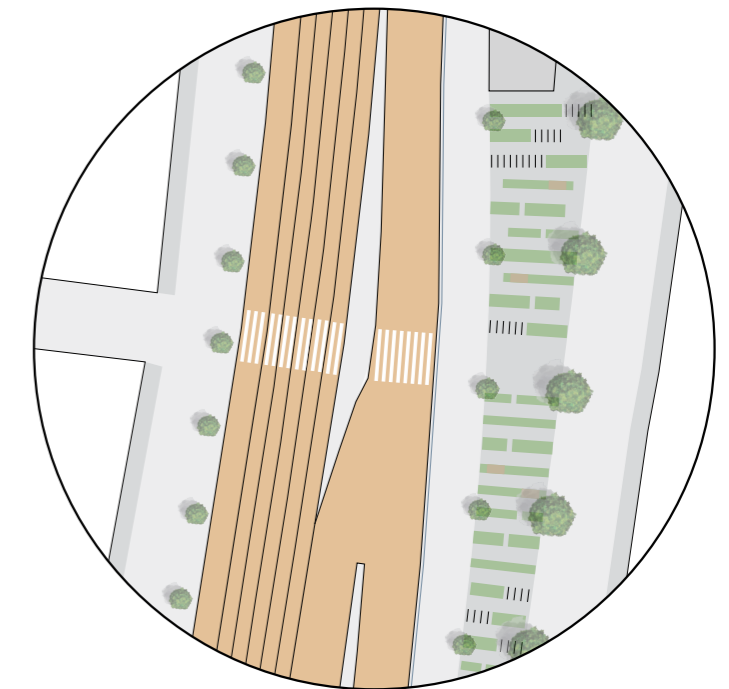
subsurface



traffic strip

ROKIN

design proposal



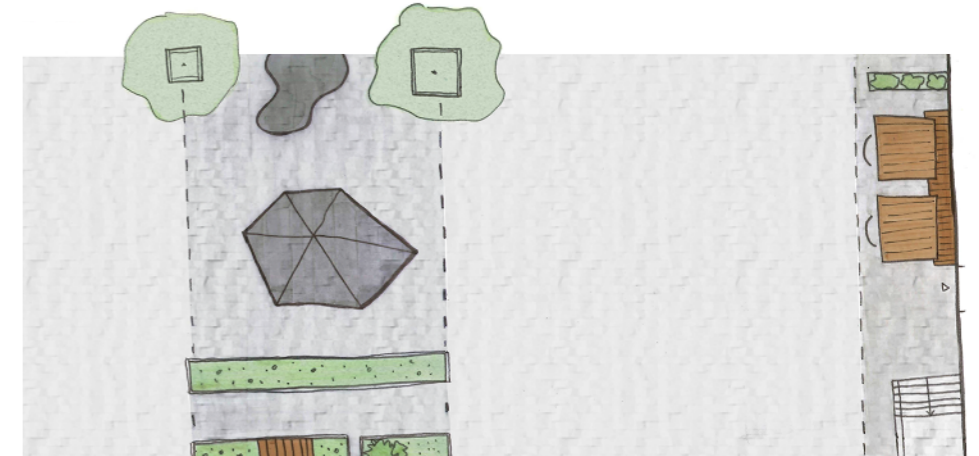
Legend

- surface water
- building
- sidewalk
- hybrid zone & facilities strip
- traffic lane
- entrance subway station
- section AA'
- planters with bench & bicycle stands
- fountain elements
- tree

ROKIN

new elements

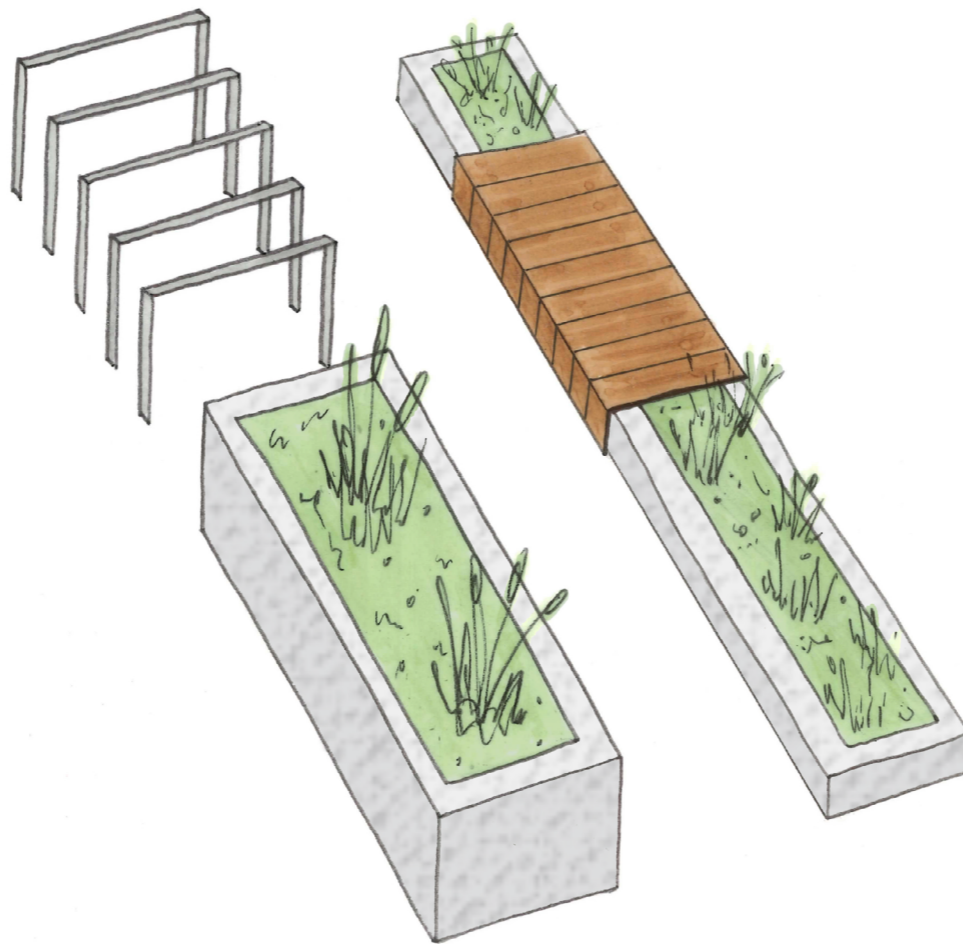
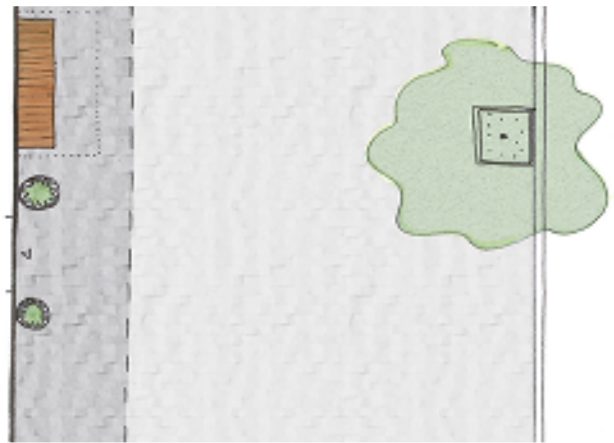
cafe



summer setting

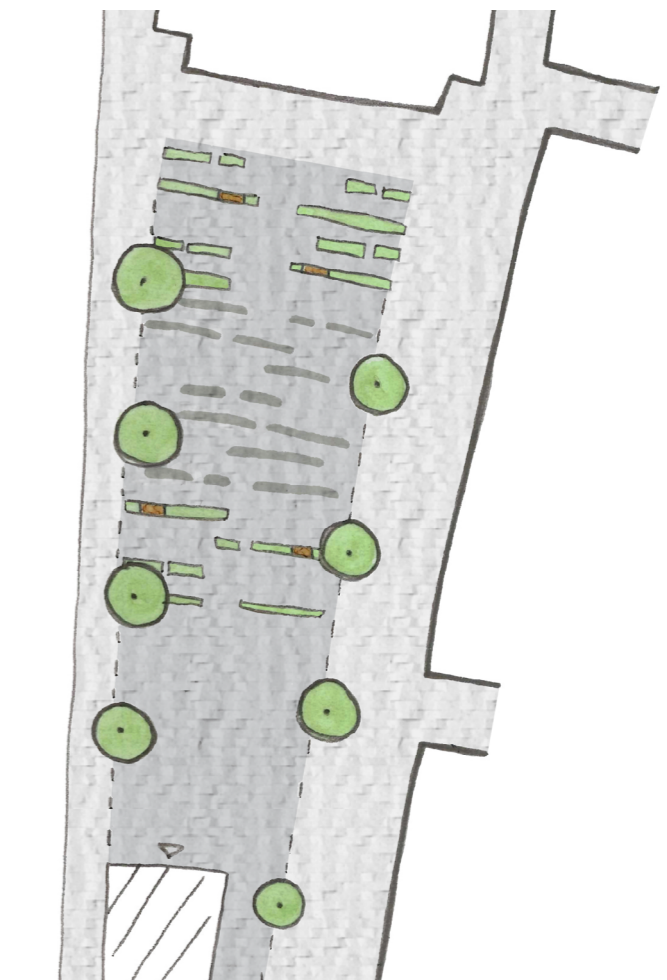
winter setting

souvenir shop



elements for facilities strip

clothing store



possible lay-out of Rokin square

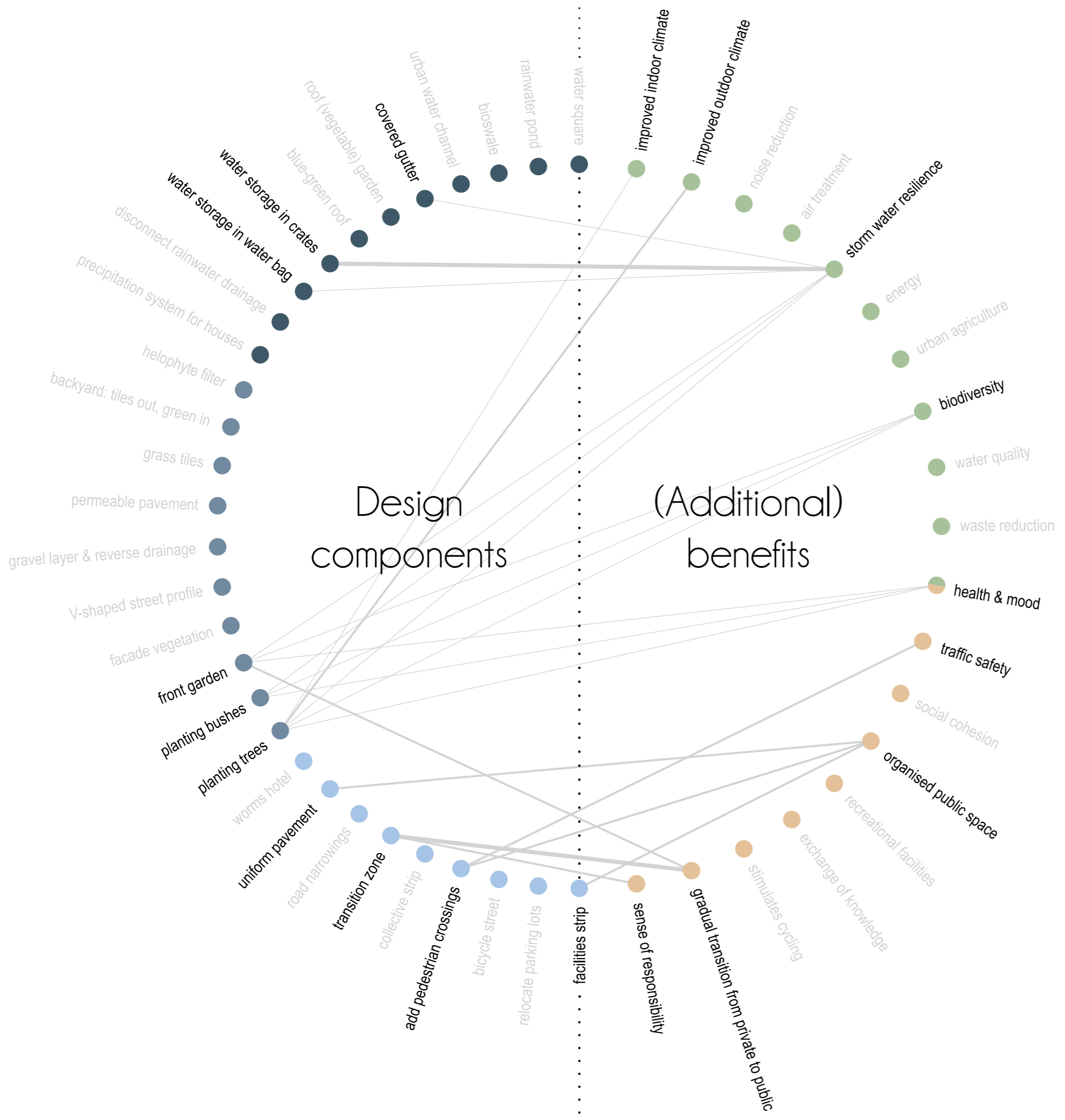
ROKIN

design proposal



ROKIN

evaluation



Legend

Type of benefit:

- sustainable benefit
- socio-economic benefit

Type of design component:

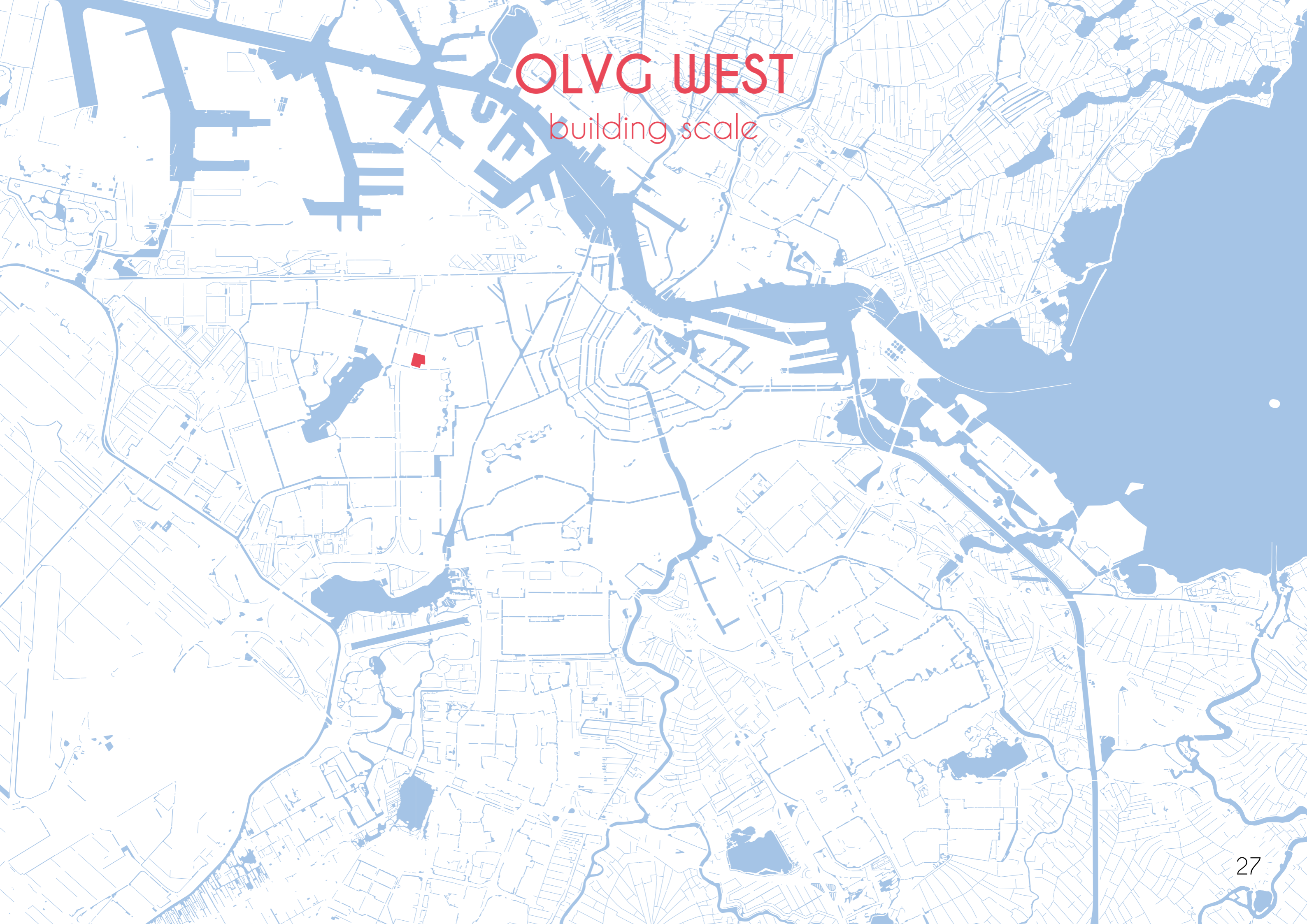
- very much water related
- somewhat water related
- not water related

Impact:

- high
- medium
- low

OLVG WEST

building scale



OLVG WEST

context



huge flat roof



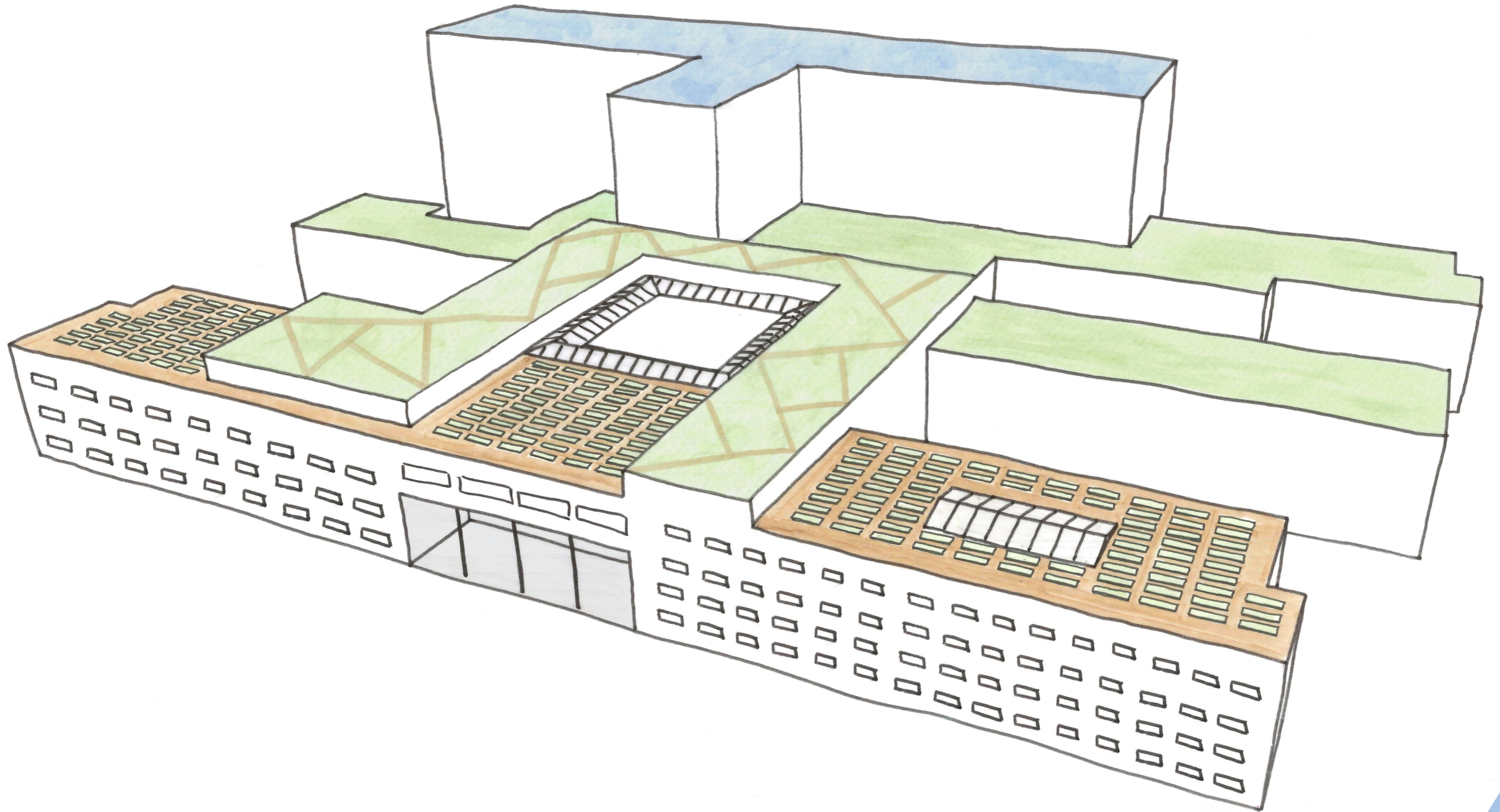
height differences



view from hospital

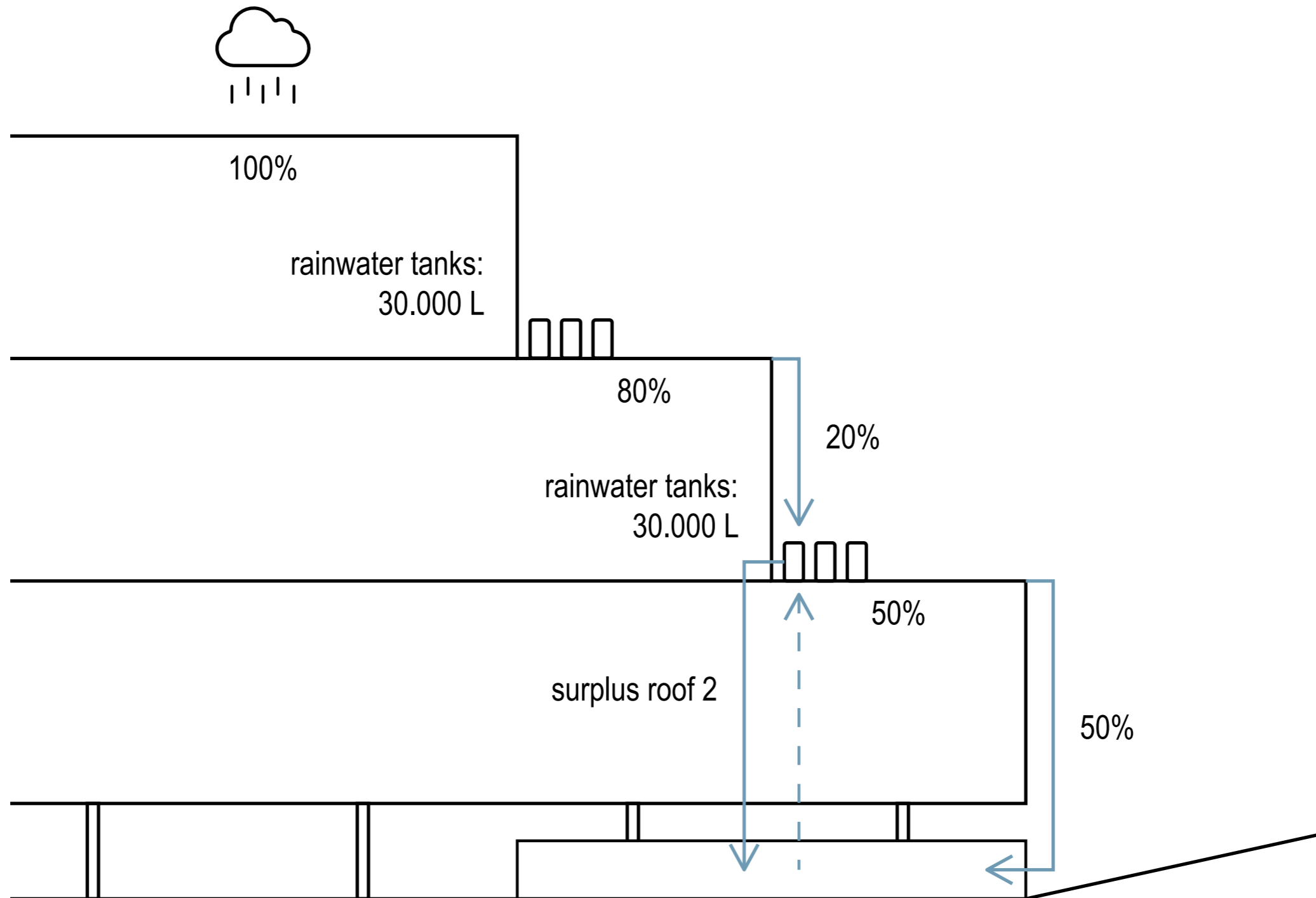
OLVG WEST

design proposal



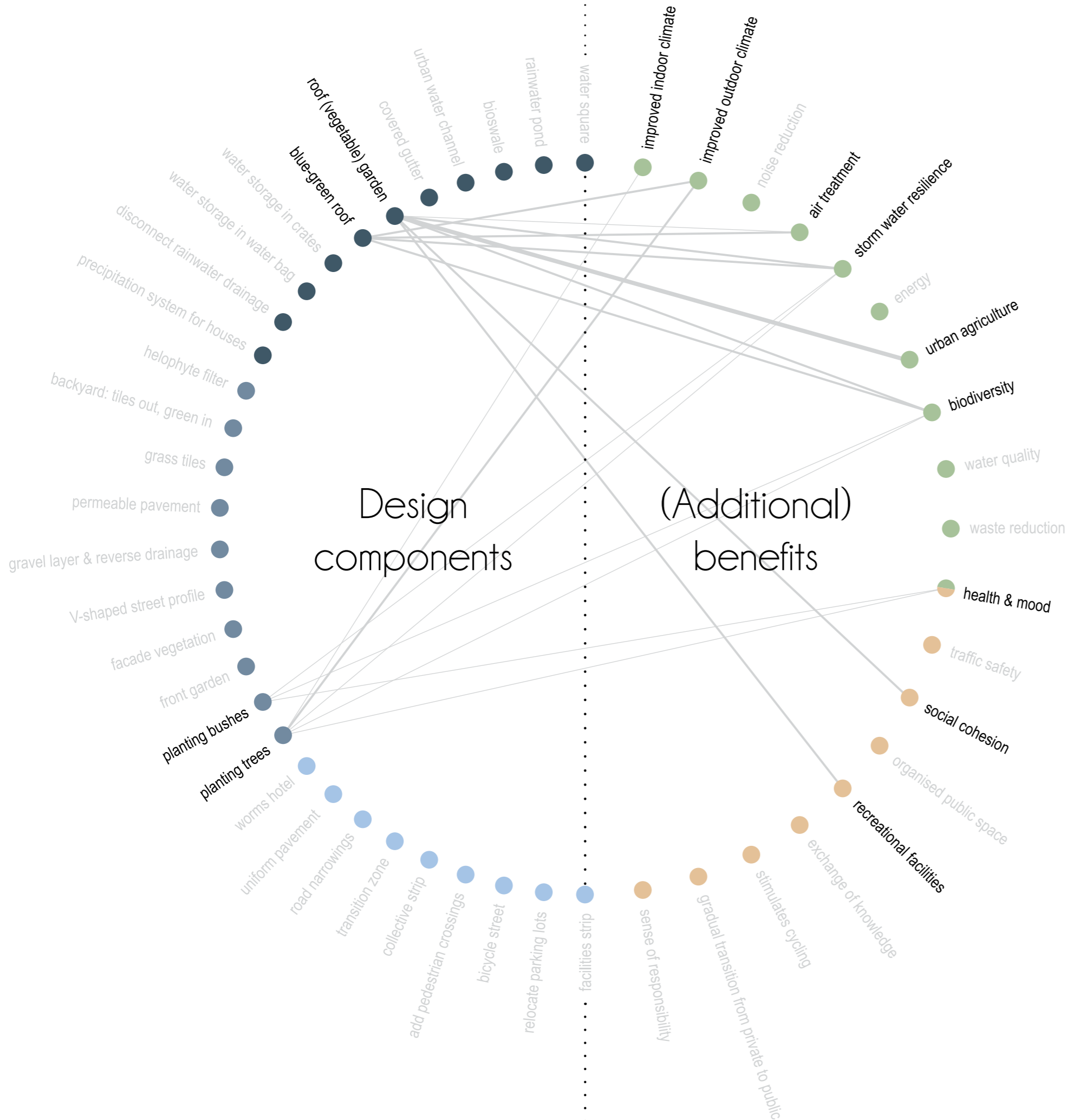
OLVG WEST

design proposal



OLVG WEST

evaluation



Legend

Type of benefit:

- sustainable benefit
- socio-economic benefit

Type of design component:

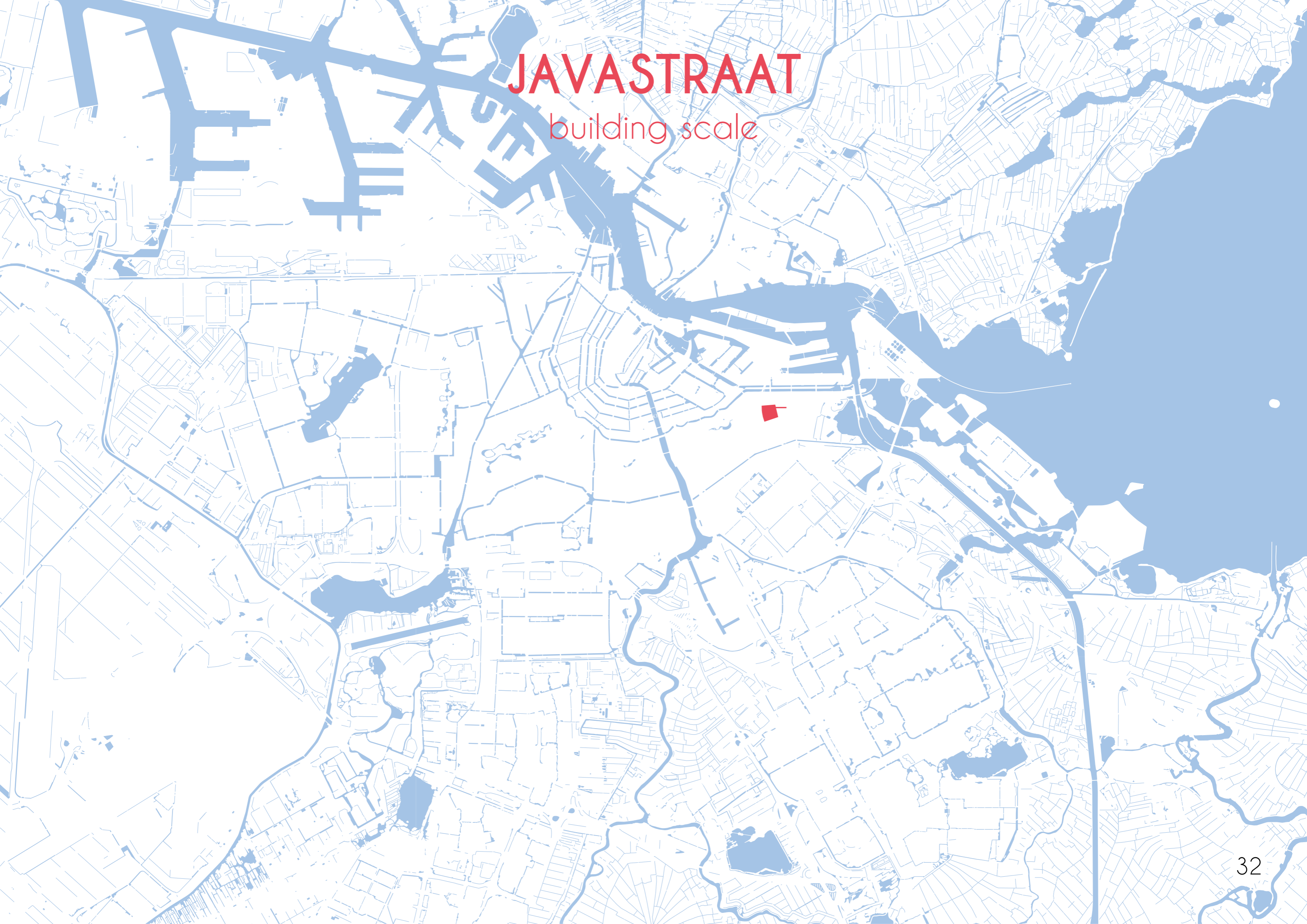
- very much water related
- somewhat water related
- not water related

Impact:

- high
- medium
- low

JAVASTRAAT

building scale



JAVASTRAAT

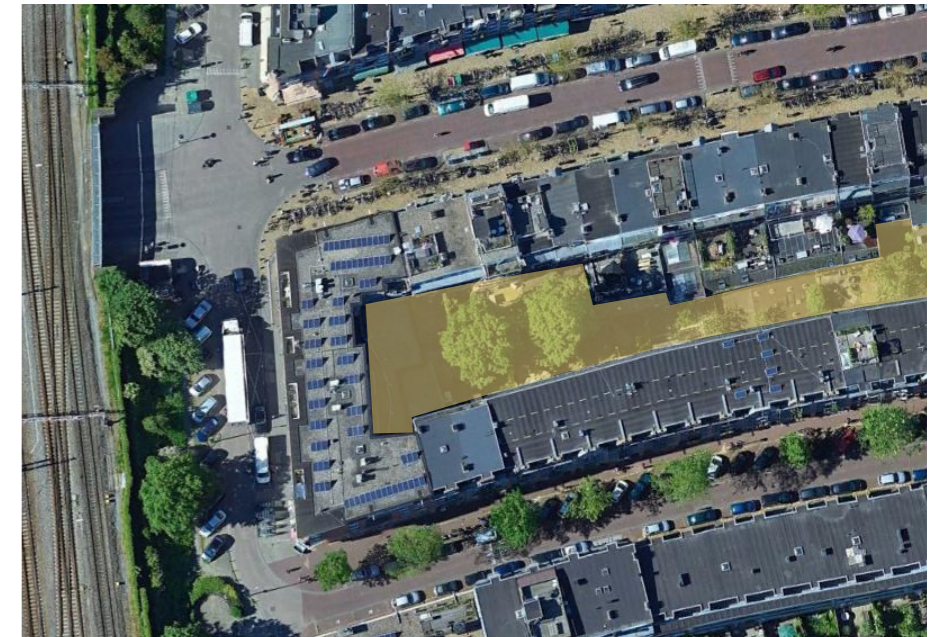
context



car parking



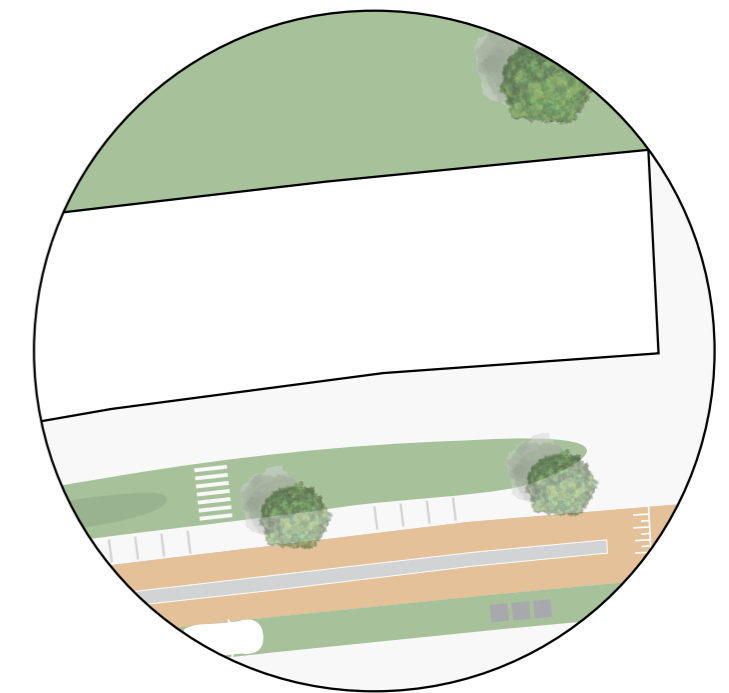
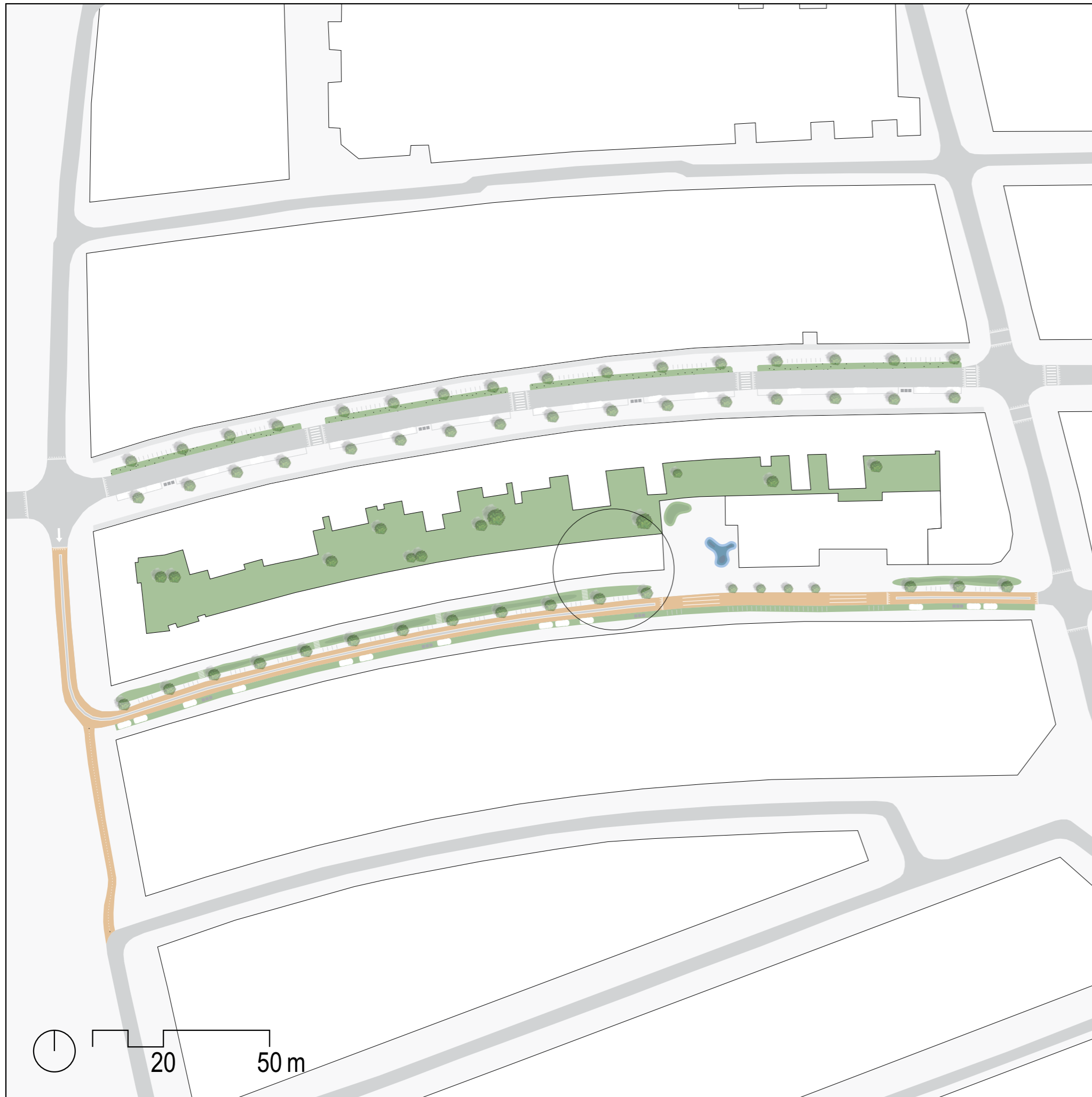
shopfronts



inner courtyard

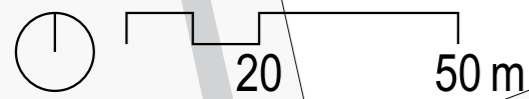
JAVASTRAAT

design proposal



Legend

- building
- green
- street
- bicycle street
- bicycle path
- transition zone
- sidewalk
- bioswale
- helophyte filter
- section
- waste containers
- bicycle racks
- tree



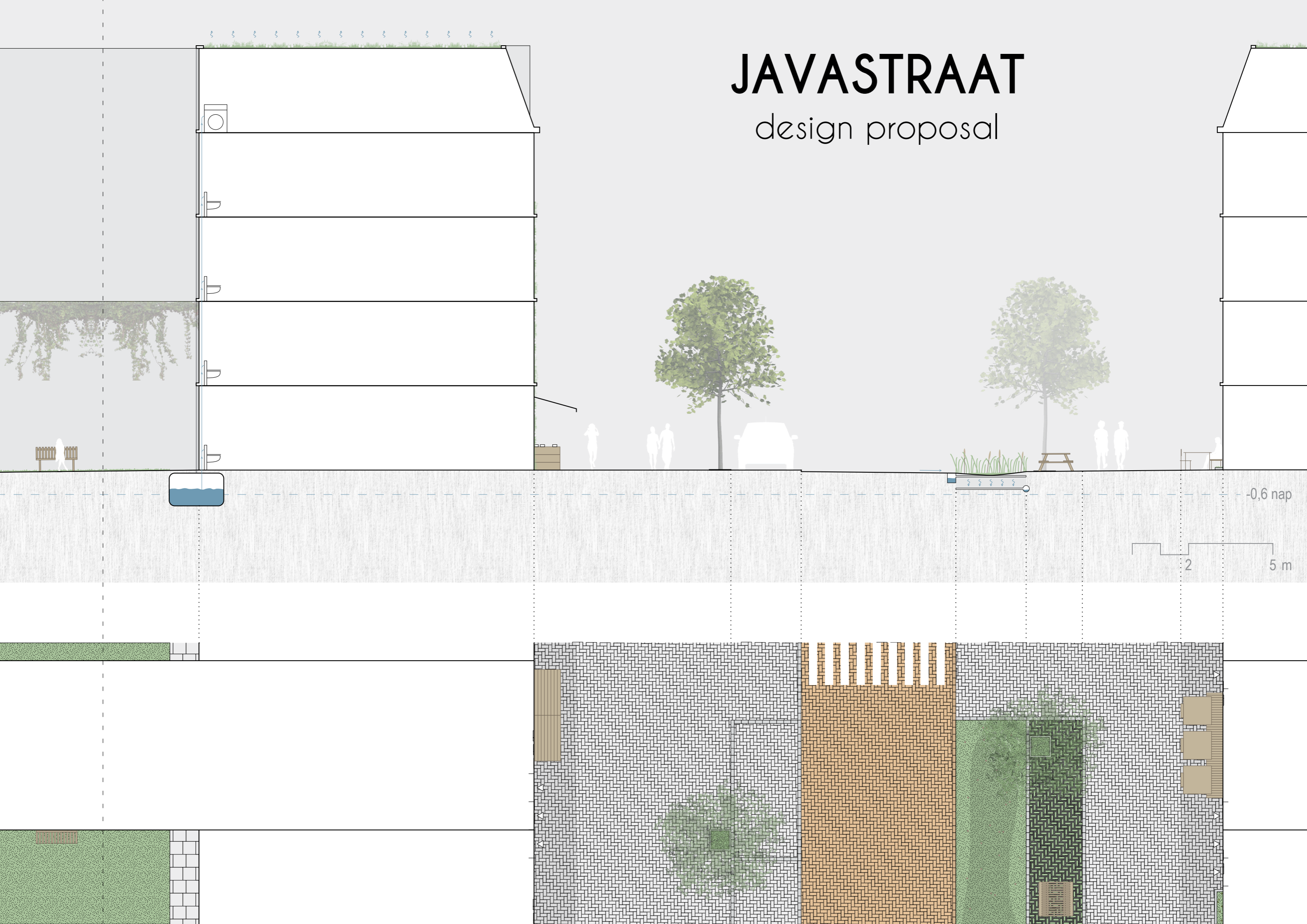
BALISTRAAT

design proposal



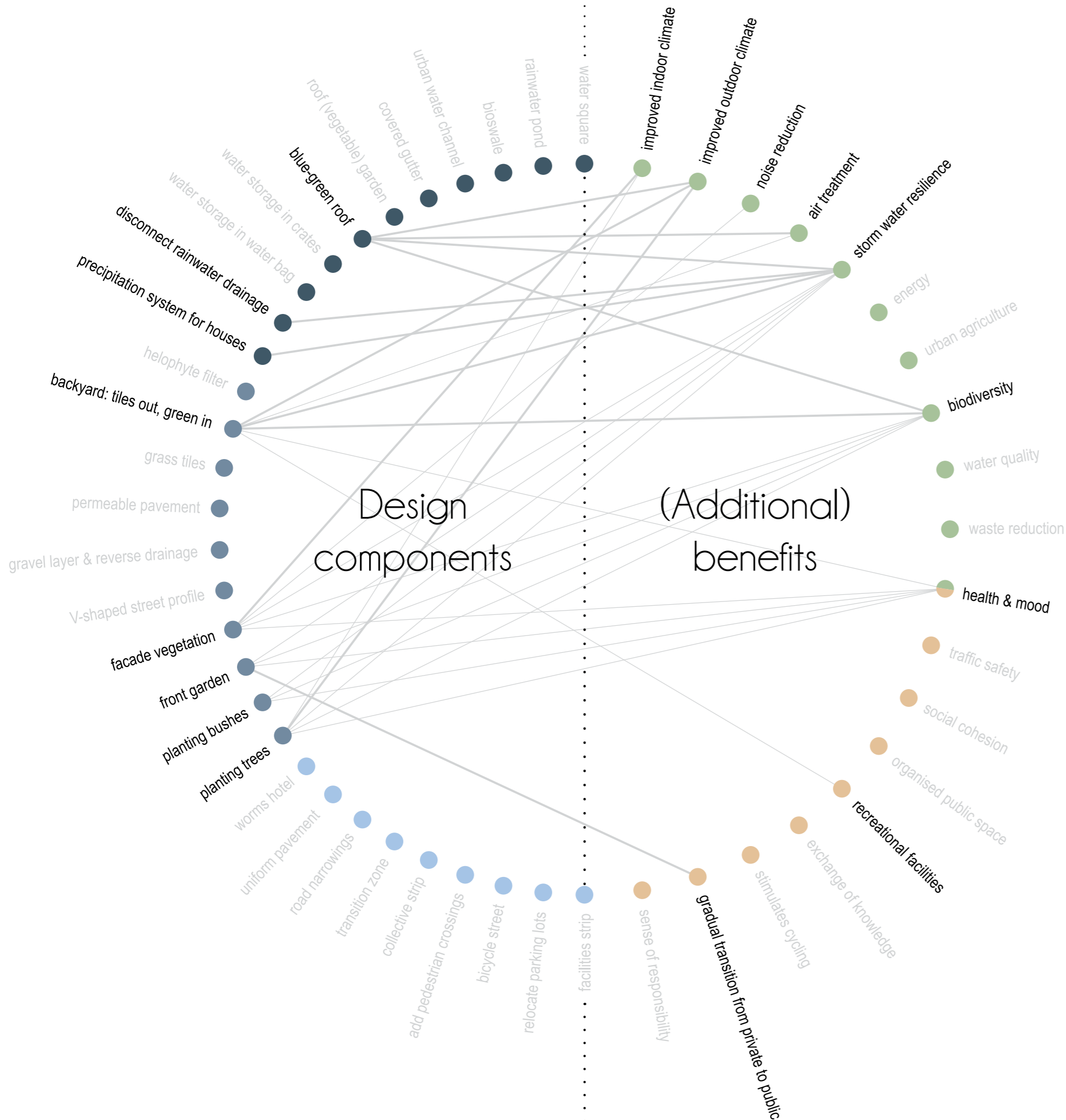
JAVASTRAAT

design proposal



JAVASTRAAT

evaluation



Legend

Type of benefit:

- sustainable benefit
- socio-economic benefit

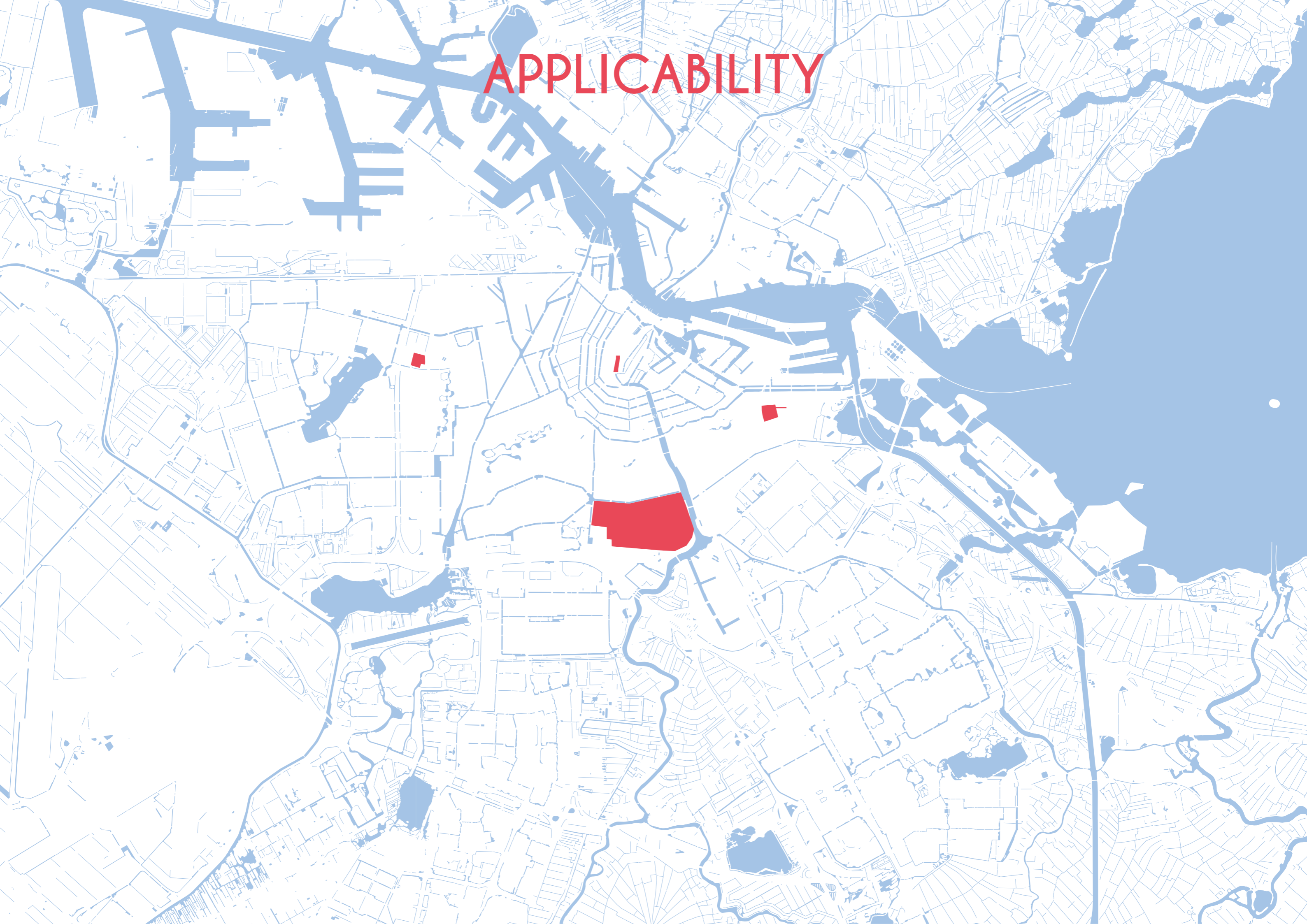
Type of design component:

- very much water related
- somewhat water related
- not water related

Impact:

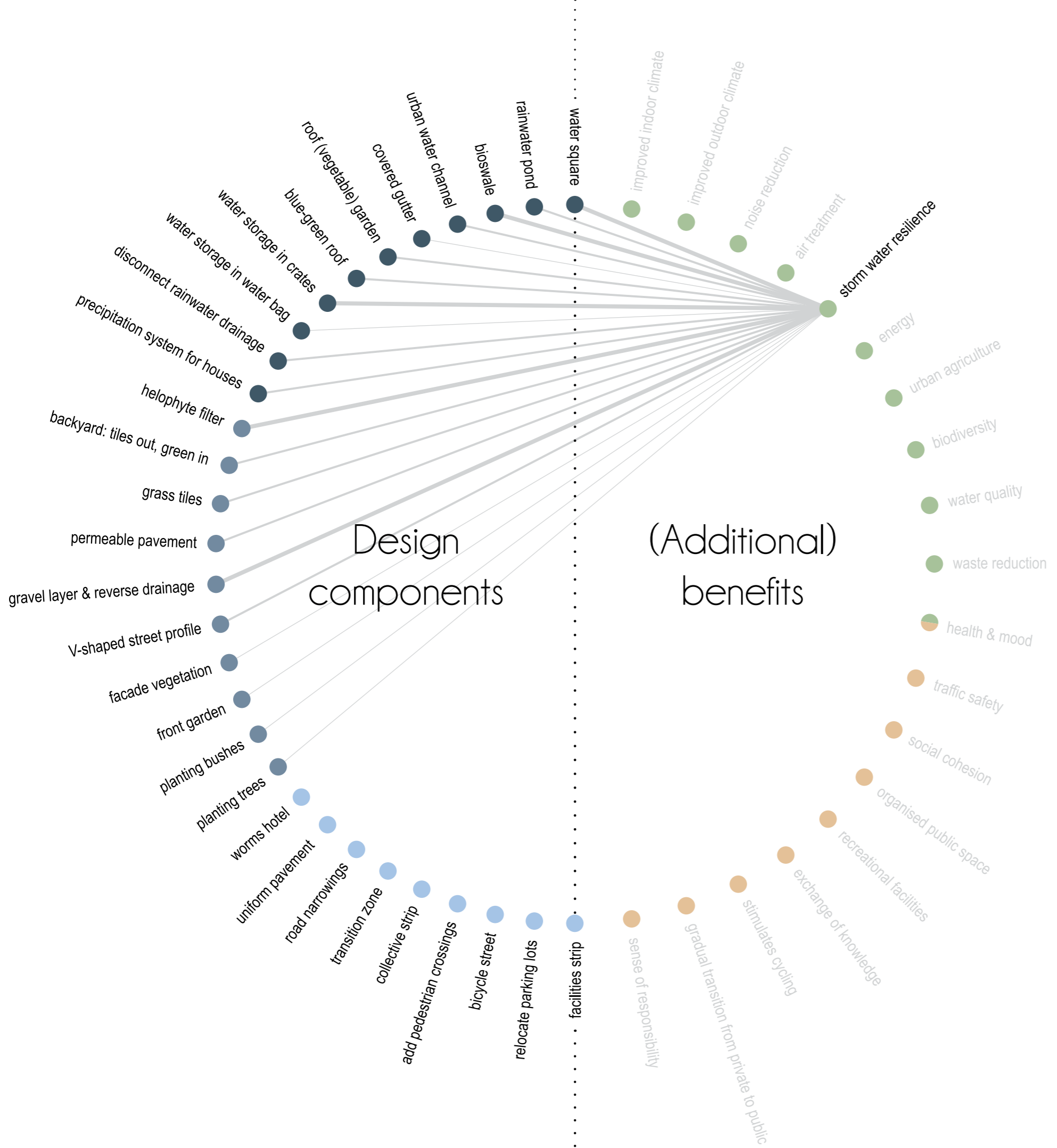
- high
- medium
- low

APPLICABILITY



CONCLUSION

qualitative evaluation



Legend

Type of benefit:

- sustainable benefit
- socio-economic benefit

Type of design component:

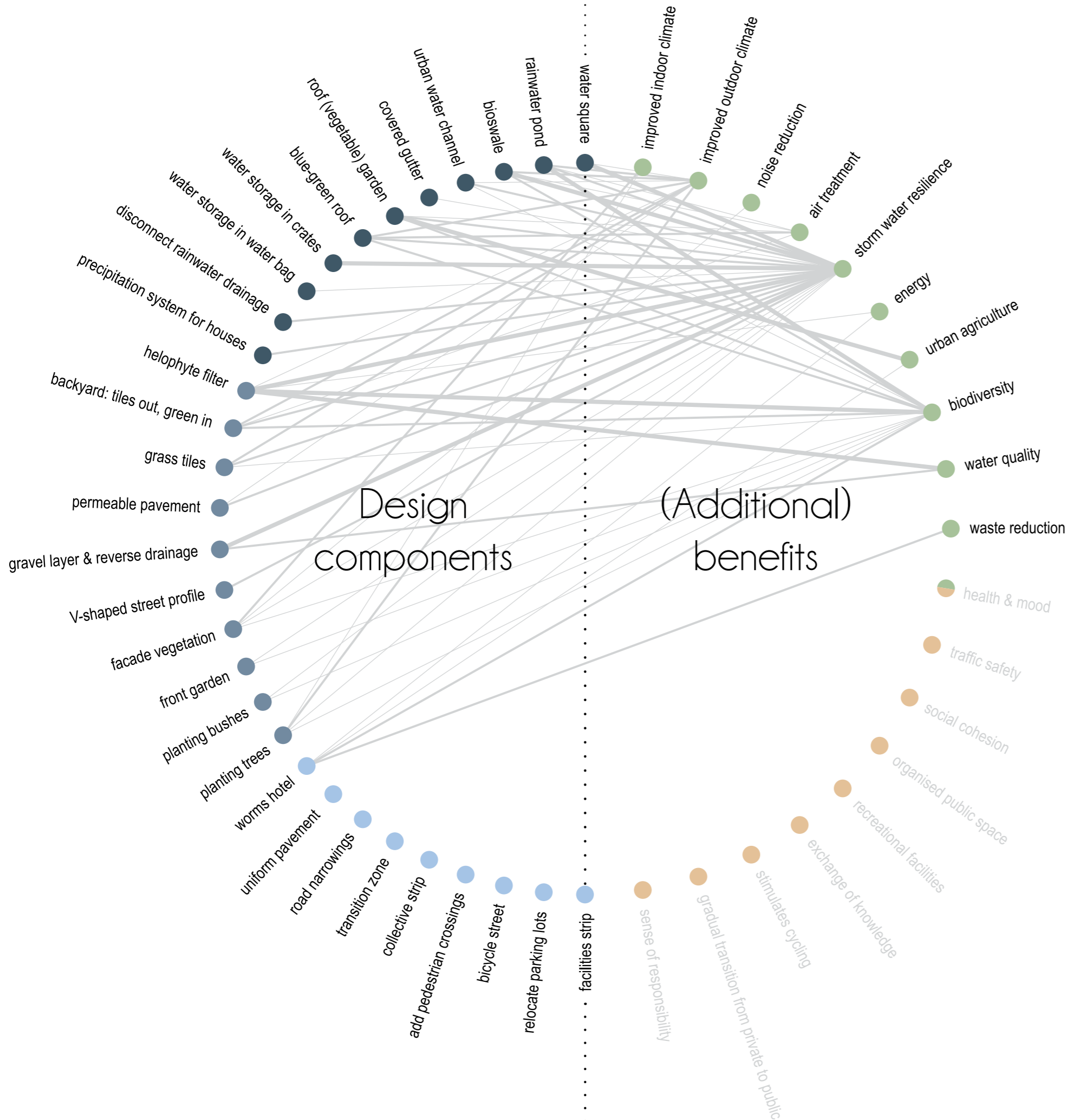
- very much water related
- somewhat water related
- not water related

Impact:

- high
- medium
- low

CONCLUSION

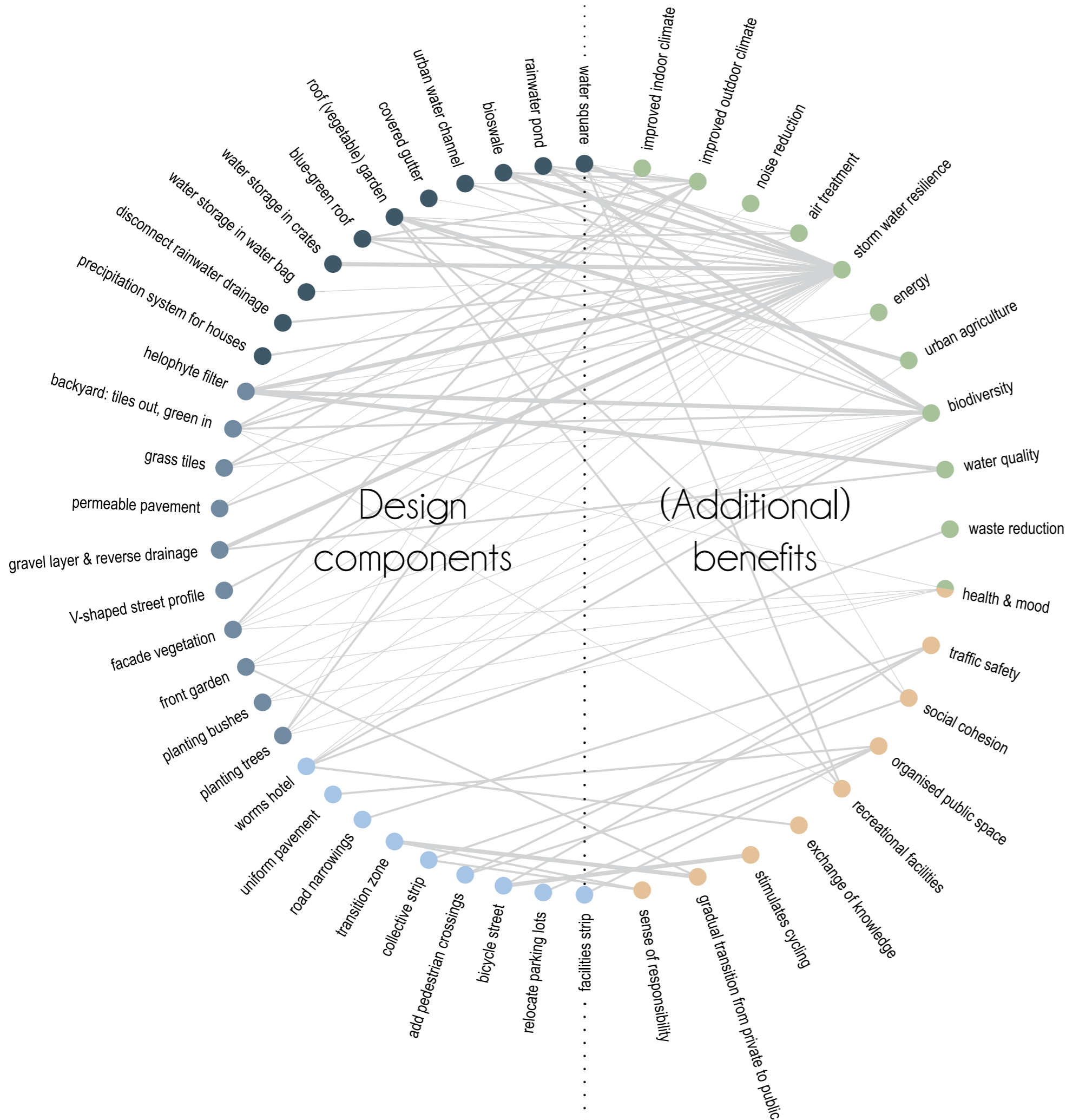
qualitative evaluation



- Legend**
- Type of benefit:
- sustainable benefit
 - socio-economic benefit
- Type of design component:
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CONCLUSION

qualitative evaluation



- Legend
- Type of benefit:
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 - socio-economic benefit
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- very much water related
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THANK YOU!
Graduation Presentation
Marieke Oosterom

