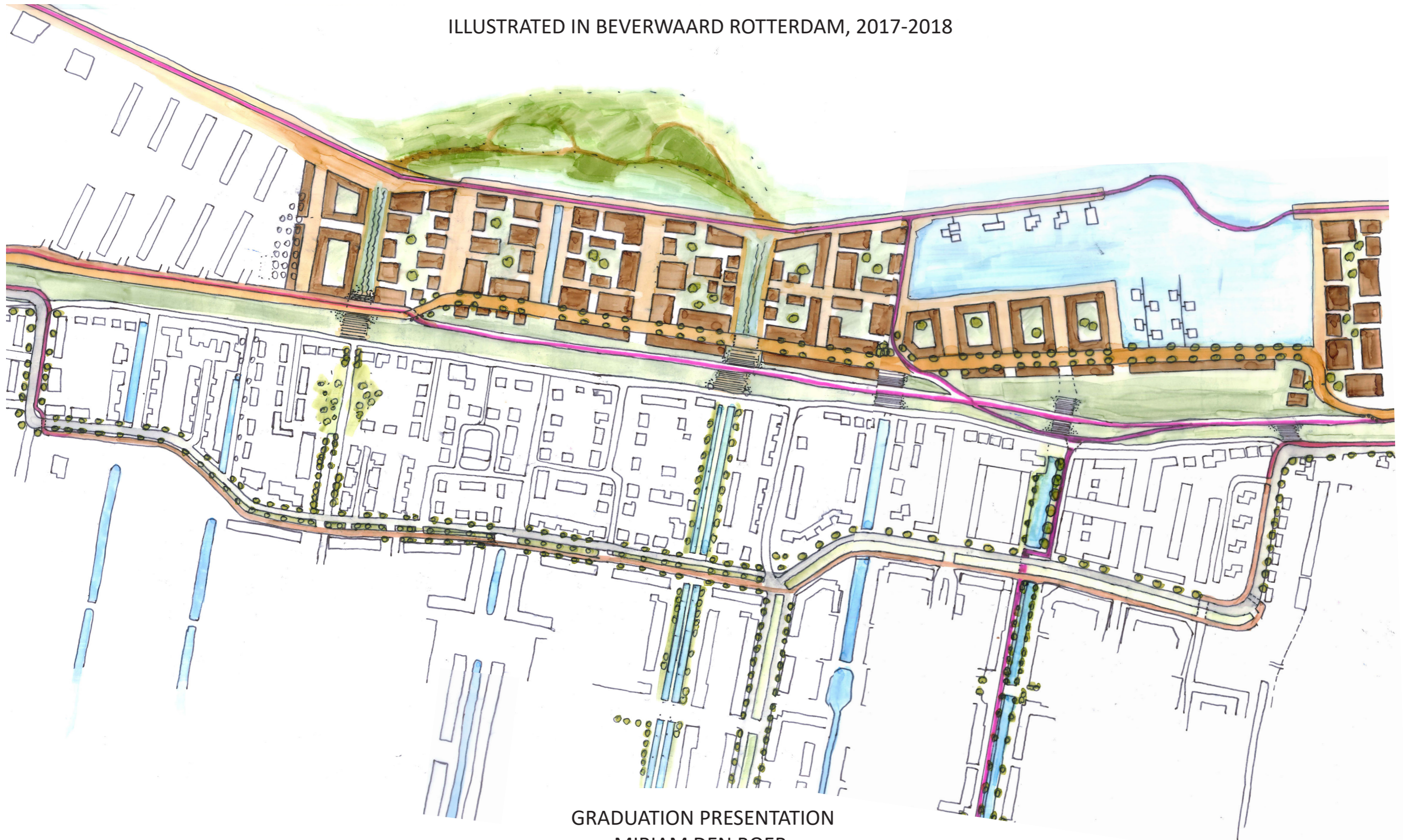


ENGAGING BOTTOM-UP AND TOP-DOWN PLANNING STRATEGIES IN URBAN AREAS

TOWARDS MORE INTEGRAL AND RESPONSIVE URBAN REGENERATION PROCESSES

ILLUSTRATED IN BEVERWAARD ROTTERDAM, 2017-2018



GRADUATION PRESENTATION
MIRIAM DEN BOER

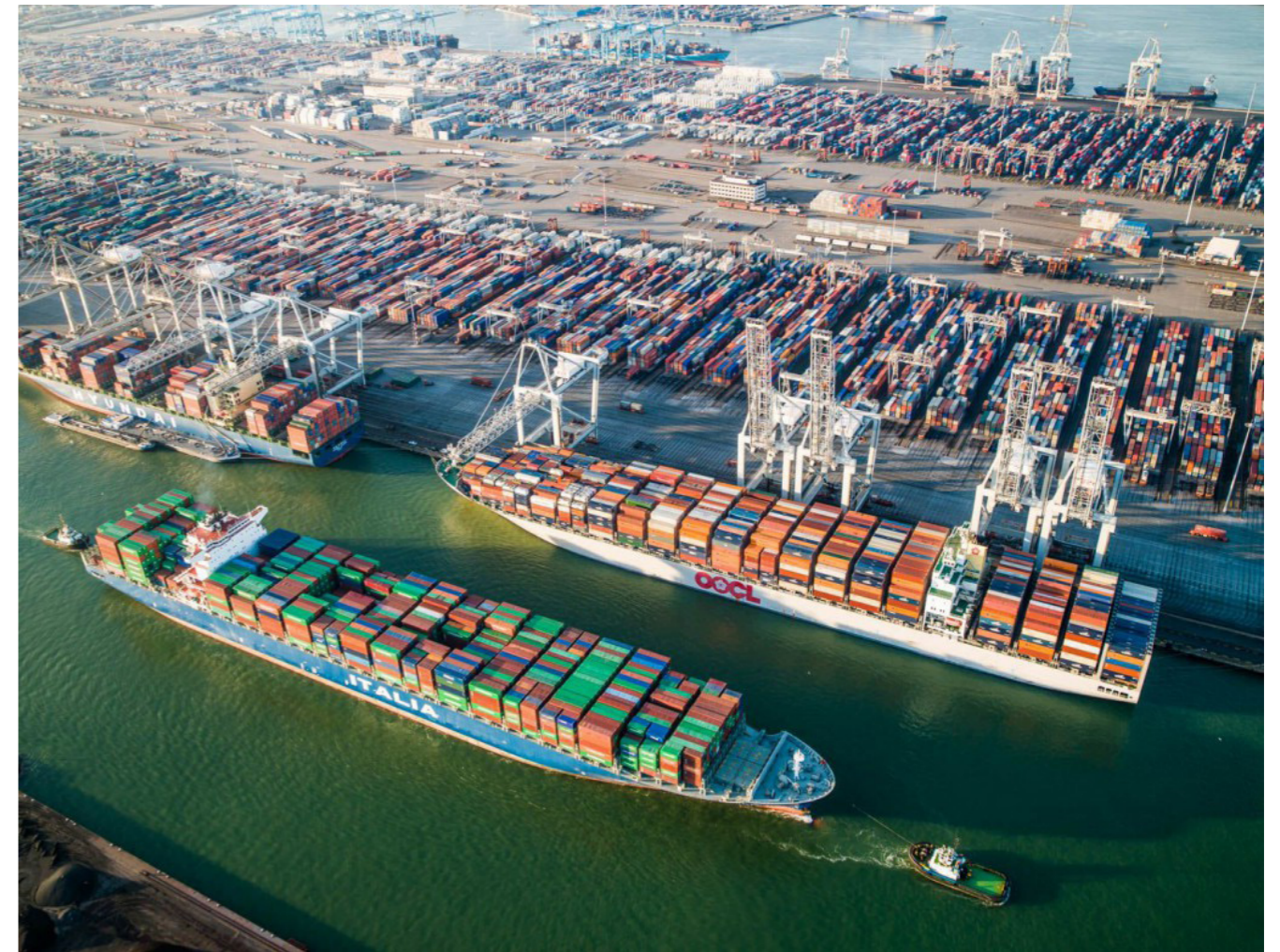
REGENERATE UNDERDEVELOPED AREAS

Slums



Township of South-Africa

Rotterdam
World Harbor City



Harbor of Rotterdam

CONTENT

1. CONTEXT

2. THESIS STRUCTURE

3. FINDINGS

4. PROPOSAL

5. PLANNING AND DESIGN APPROACH

6. CONCLUSION

CONTEXT

THESIS STRUCTURE

FINDINGS

PROPOSAL

APPROACH

CONCLUSION



THE NETHERLANDS

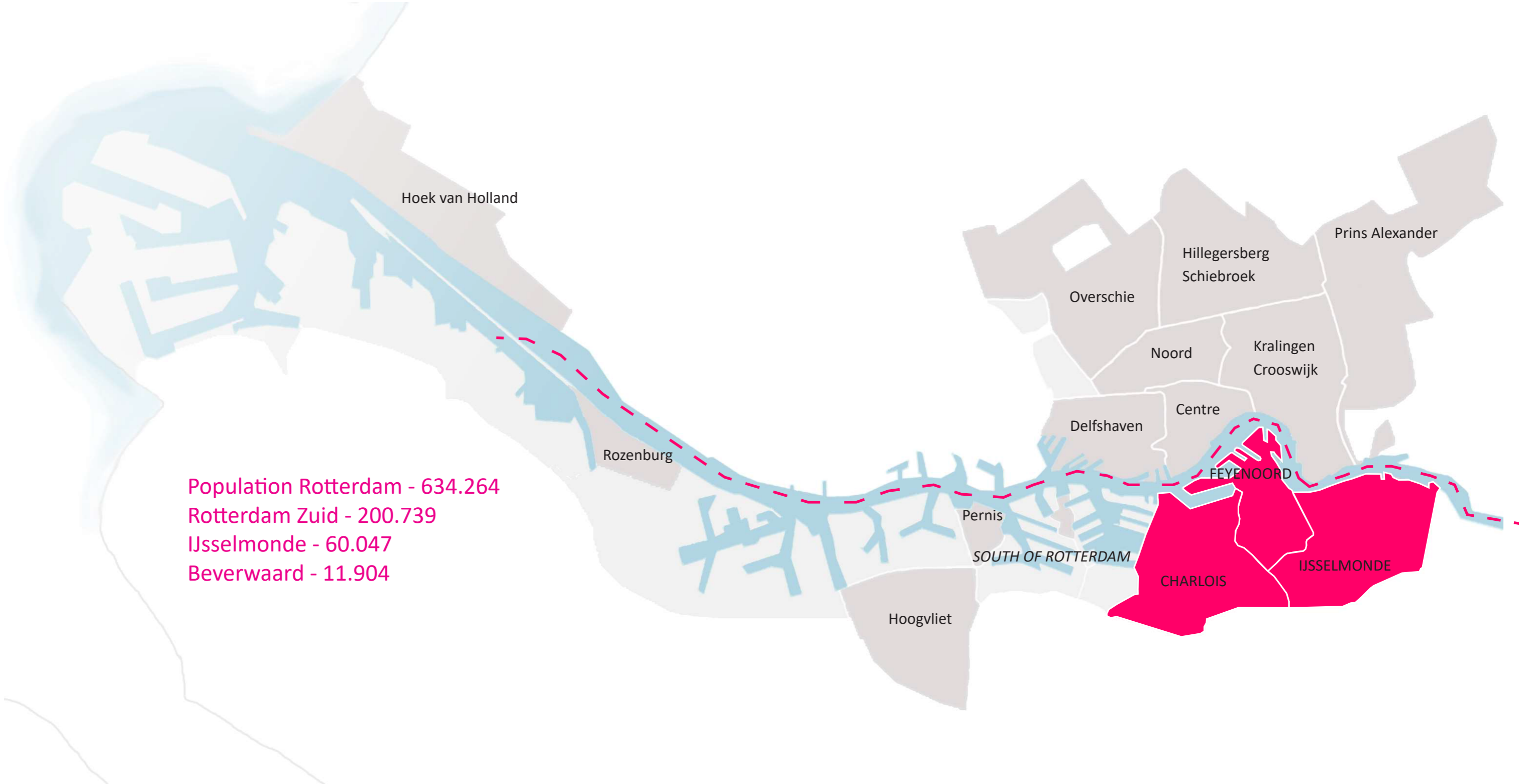
PROBLEM NEIGHBORHOODS: 'VOGELAARWIJKEN'



based on <http://www.klarendal.nl/bezuinigen-en-doorpakken/>

ROTTERDAM

PROBLEM AREA 1/3 OF TOTAL INHABITANTS



based on Wijkprofiel, 2014-2016

TOP-DOWN PLANS
THE REGENERATION PLANS DID NOT WORK

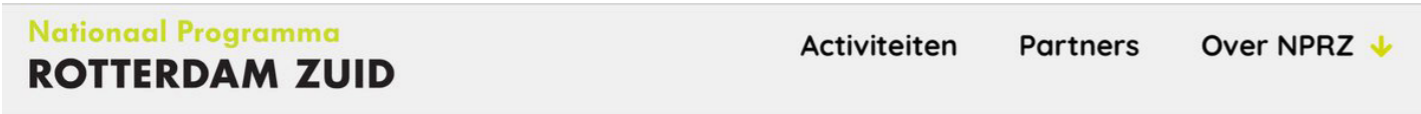
for the south of Rotterdam



FOCUS OF INTEGRAL REGENERATION PLAN

EDUCATION, HOUSING, WORK

NPRZ WEBSITE "OUR FOCUS:.."



NPRZ werkt aan een nieuw perspectief voor Rotterdam Zuid.
Wij focussen op:

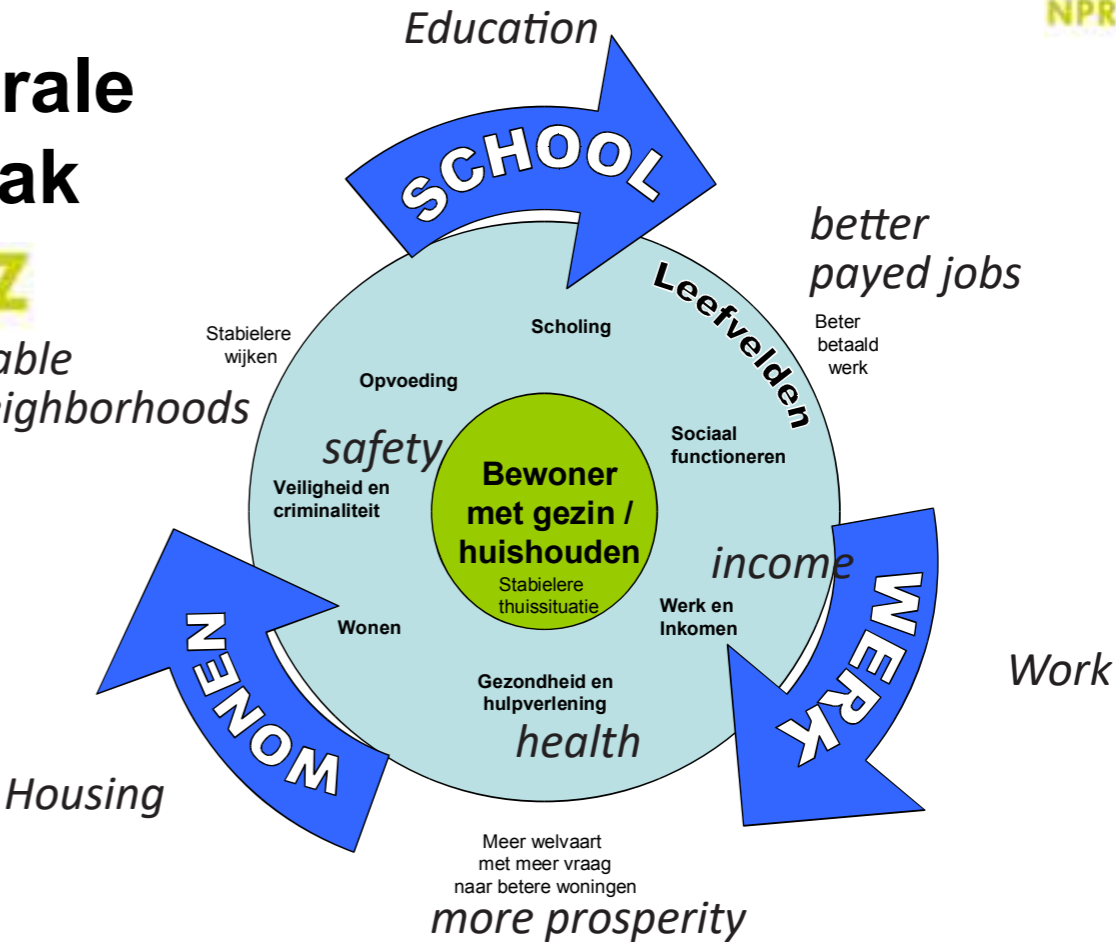
- SCHOOL
- WERK
- WONEN
- BEWONERS
- CULTUUR
- VEILIG

Education Work Housing

NPRZ 2015 - 2018 INTEGRATED PLAN

Integrale aanpak

NPRZ



<https://nprz.nl/over-nprz/>

<https://nprz.nl/over-nprz/nprz/over-ons> // NPRZ, 2015-2018

WHY PUBLIC SPACE IS IMPORTANT

INTERACTION, DISCOVERIES, CULTURAL EXCHANGE

SOCIAL SECURITY, IMPROVING LIFE, HEALTH, PARTICIPATION

Park, Vroesenpark Rotterdam



Pedestrian street, Nieuwe Binnenweg Rotterdam



Market square, Blaak Rotterdam



Social security



Outdoor sport activities



Community gardening



TOP-DOWN WORKS INSUFFICIENT MORE BOTTOM-UP



CONTEXT

THESIS STRUCTURE

FINDINGS

PROPOSAL

APPROACH

CONCLUSION

BOTTOM-UP IS ESSENTIAL

CO-CREATION GOUPLEIN



CONTEXT

THESIS STRUCTURE

FINDINGS

PROPOSAL

APPROACH

CONCLUSION

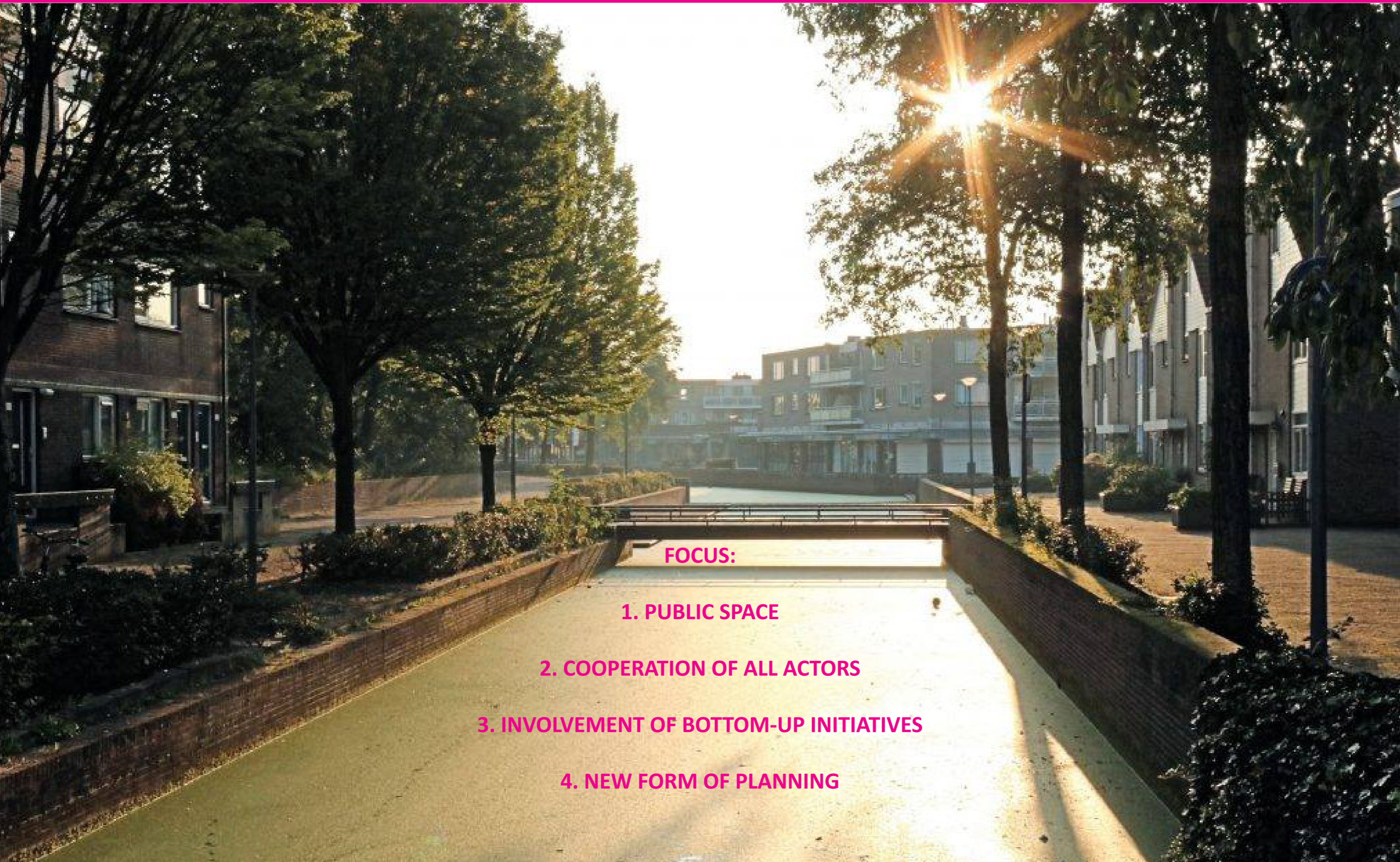
COMPLEX
ALL DIFFERENT ACTORS



“A complex system is a system based on many interacting parts and each part is a system itself.”
- Han Meyer (2015)

PROBLEM STATEMENT

NEED FOR A NEW URBAN REGENERATION PLAN



FOCUS:

1. PUBLIC SPACE

2. COOPERATION OF ALL ACTORS

3. INVOLVEMENT OF BOTTOM-UP INITIATIVES

4. NEW FORM OF PLANNING

RESEARCH QUESTION

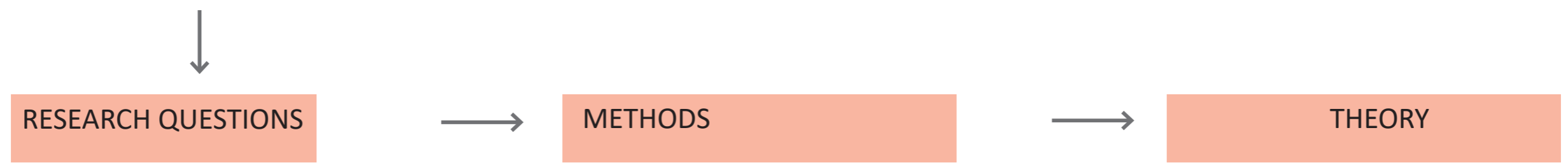
In what way can **TOP-DOWN** urban regeneration **PLANS**, top-down **PLANNING PROCESSES** (including strategies and tools) and **BOTTOM-UP DEMANDS ENGAGE** with each other in a way that **LOCAL PUBLIC SPACE** can be more responsive and urban areas could be more improved in a sustainable way, in medium and long term, recognizing current residents and migration of new inhabitants?

RESEARCH QUESTION

②
③
①

In what way can TOP-DOWN urban regeneration PLANS, top-down PLANNING PROCESSES (including strategies and tools) and BOTTOM-UP DEMANDS ENGAGE with each other in a way that LOCAL PUBLIC SPACE can be more responsive and urban areas could be more improved in a sustainable way, in medium and long term, recognizing current residents and migration of new inhabitants?

⑤



① DEMANDS OF LOCAL CITIZENS	Interview urban planner Interview local residents	L. ALBRECHTS new strategic planning 'current planning not accurate'
② URBAN REGENERATION PLANS	Literature studies (incl. policies)	D. KOZAK 'learning from the past'
③ STRUCTURE OF PLANS AND INVOLVEMENT OF CITIZENS	Interview experts from municipality Observing and mapping	M. CARMONA reasses urban structure 'complexity of actors'
④ IMPORTANCE OF PUBLIC SPACE	Analyzing space Literature studies	C. MOSER asses of weakest group 'use of assets'

METHODOLOGY

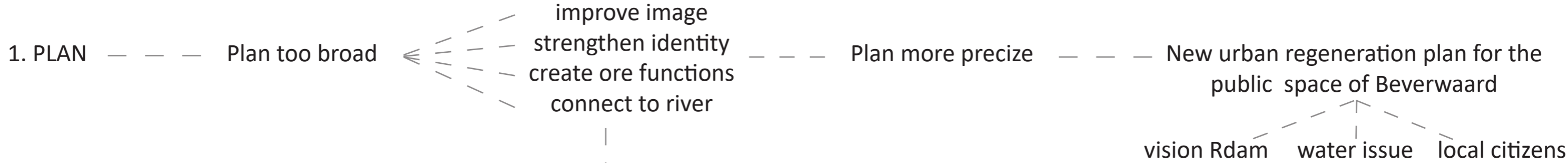


CURRENT

PROBLEM

PROPOSAL

OUTCOME



structure municipality planning system

involve citizens

Design challenge

Bring process and plan together

Interview experts
Literature and policy document studies

documents, reports, interviews

CONTEXT

THESIS STRUCTURE

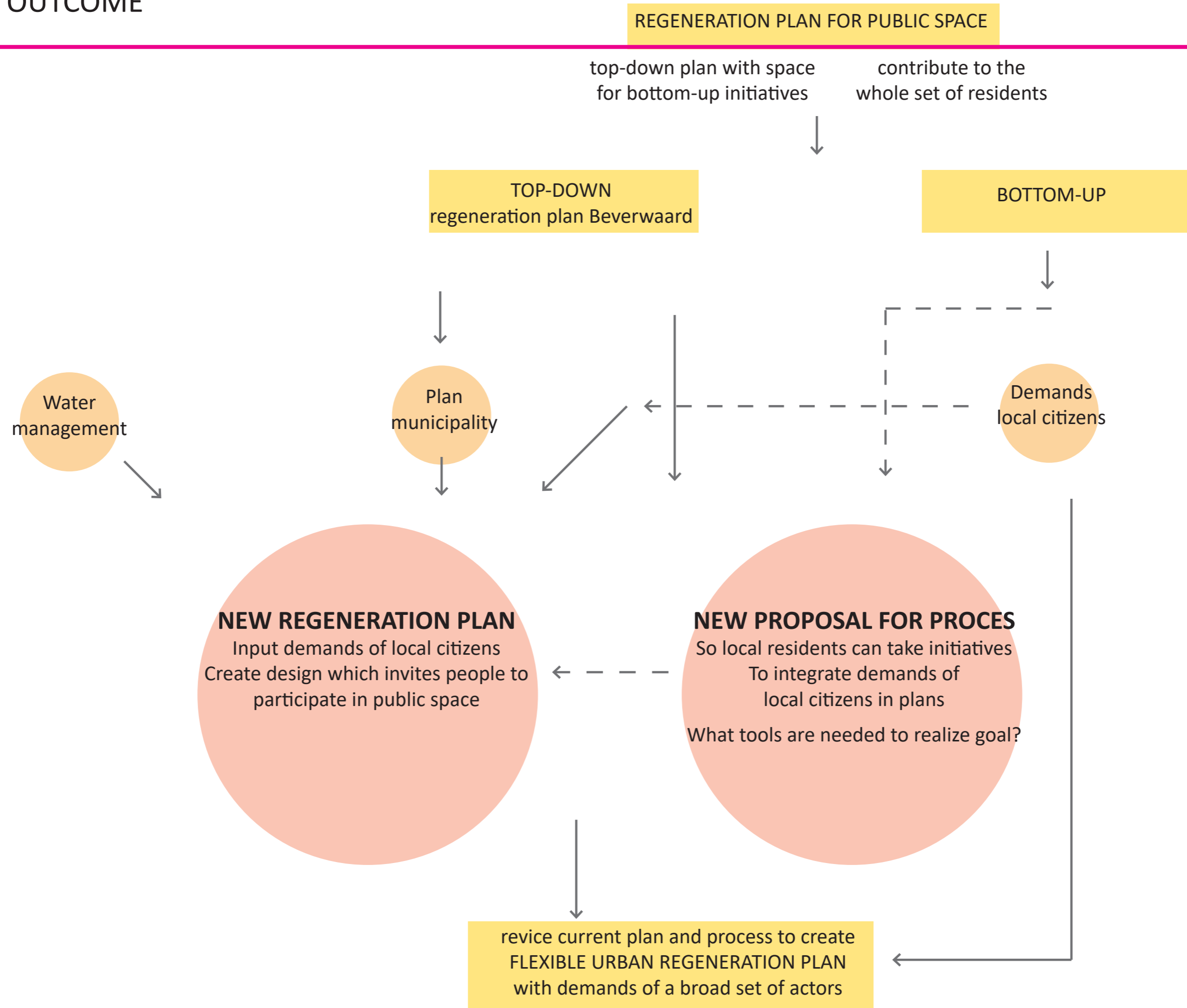
FINDINGS

PROPOSAL

APPROACH

CONCLUSION

PLANNED OUTCOME



REGENERATION PLAN FOR PUBLIC SPACE

top-down plan with space for bottom-up initiatives

contribute to the whole set of residents

TOP-DOWN regeneration plan Beverwaard

BOTTOM-UP

Water management

Plan municipality

Demands local citizens

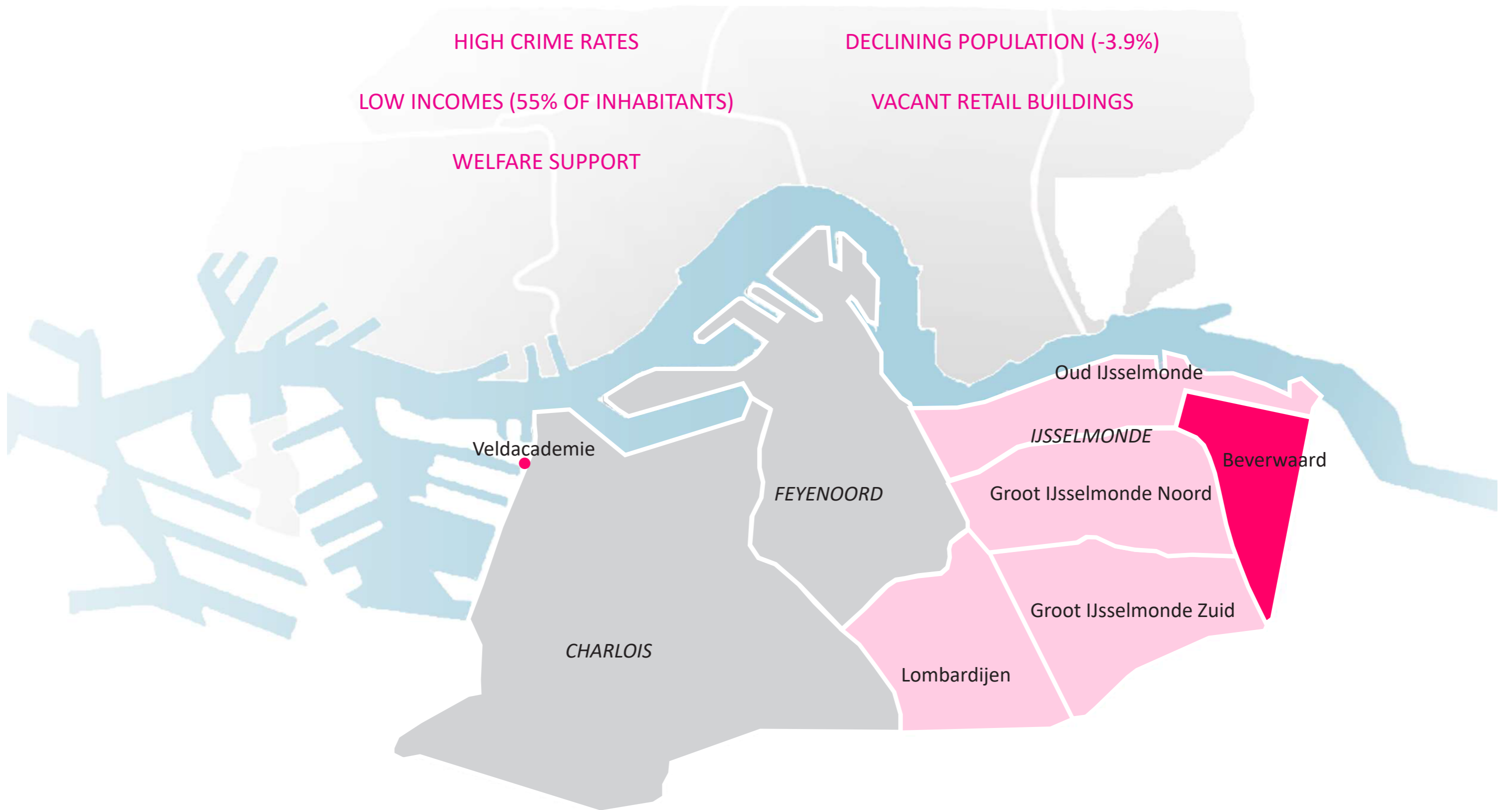
NEW REGENERATION PLAN
Input demands of local citizens
Create design which invites people to participate in public space

NEW PROPOSAL FOR PROCES
So local residents can take initiatives
To integrate demands of local citizens in plans
What tools are needed to realize goal?

revise current plan and process to create FLEXIBLE URBAN REGENERATION PLAN with demands of a broad set of actors

WHY BEVERWAARD?

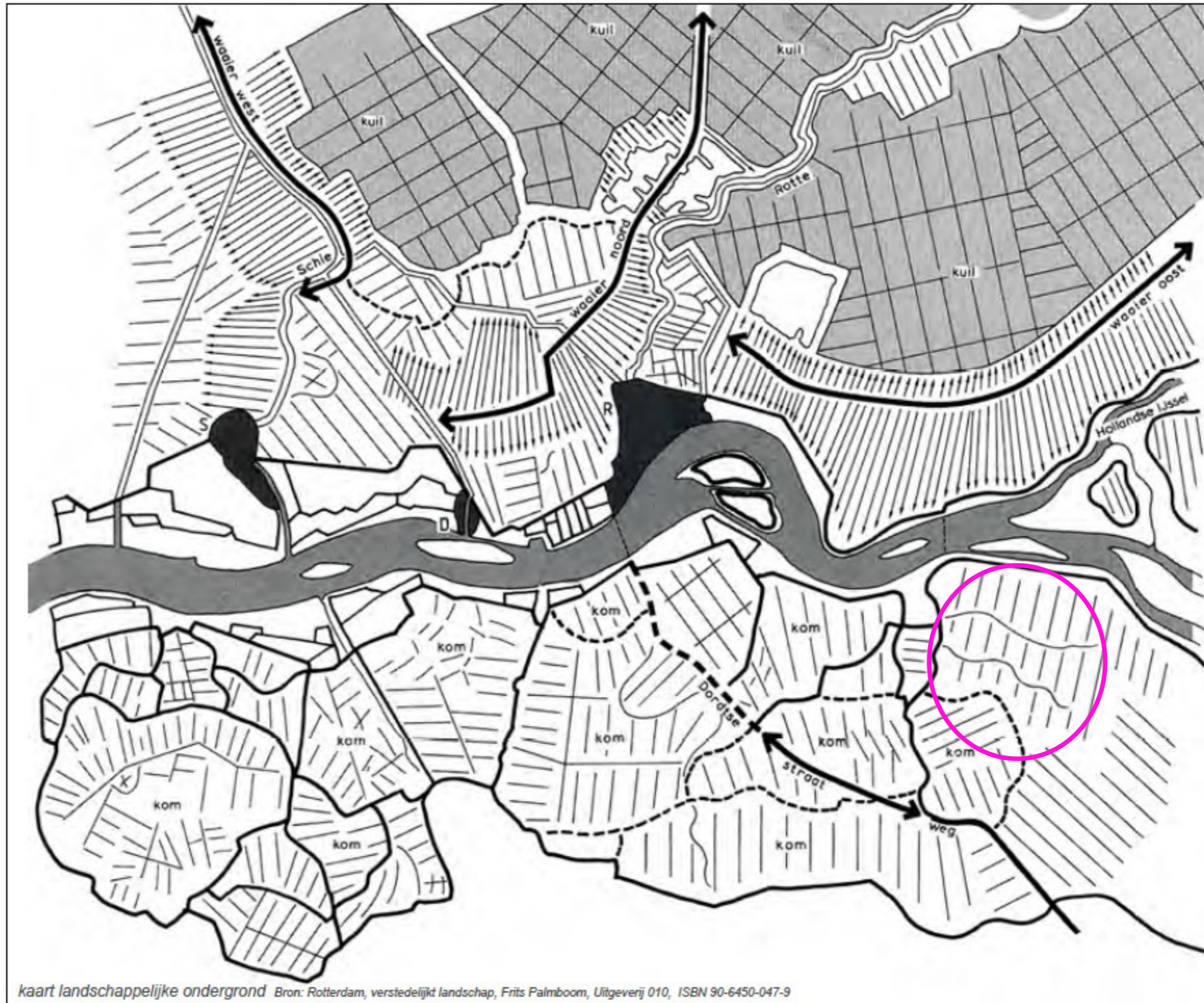
MEETS THE CRITERIA OF A PROBLEM NEIGHBORHOOD



based on Wijkprofiel, 2014-2016

THE START OF BEVERWAARD: PHYSICAL STRUCTURE

POLDER STRUCTURE ROTTERDAM



handboek rotterdamse stijl - kaart ondergrond

GREEN SINGELS

GREEN FAMILY NEIGHBOURHOOD WITH URBAN CHARACTER



Beverwaard - nieuwe woonwijk op Zuid

CONTEXT

THESIS STRUCTURE

FINDINGS

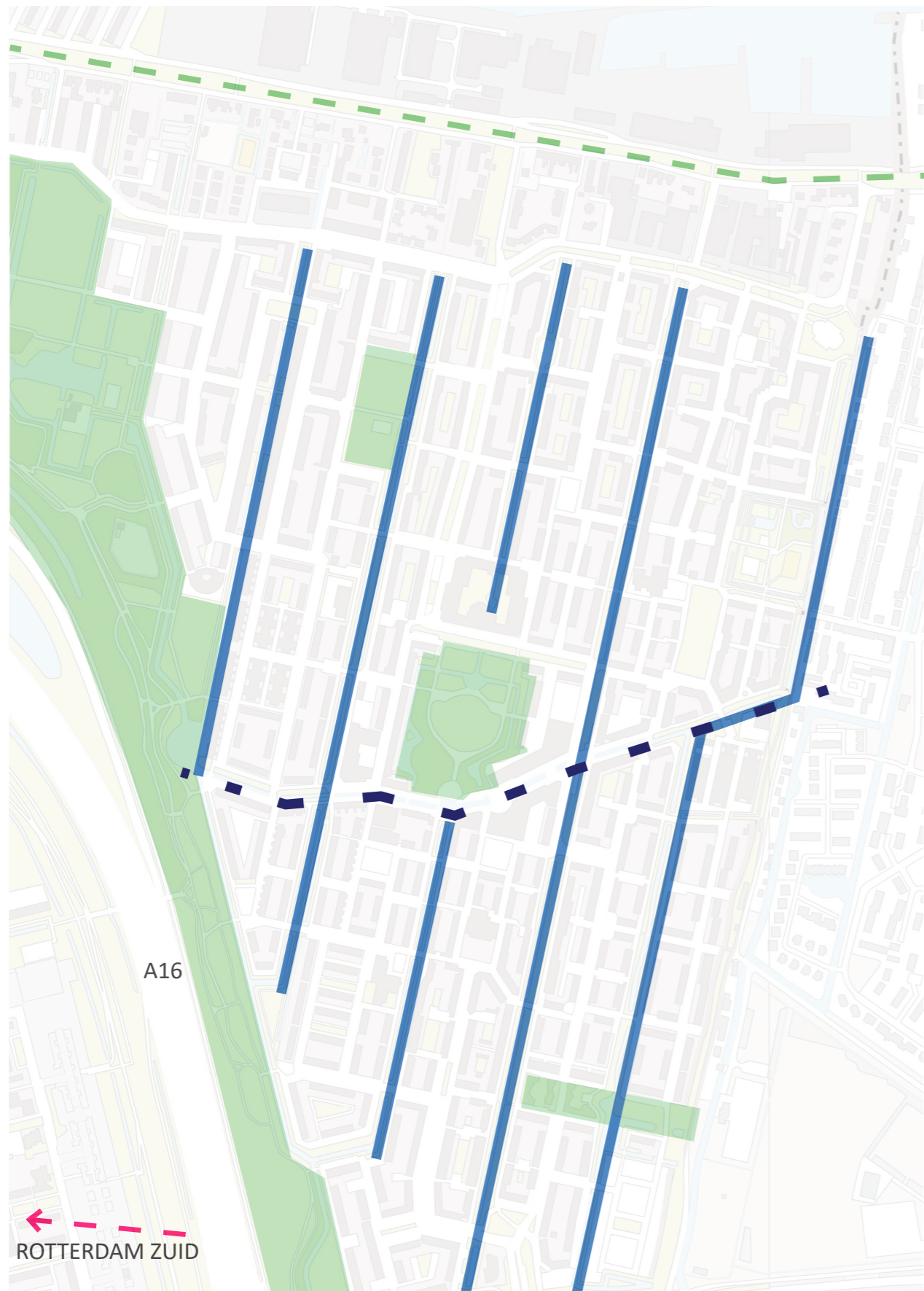
PROPOSAL

APPROACH

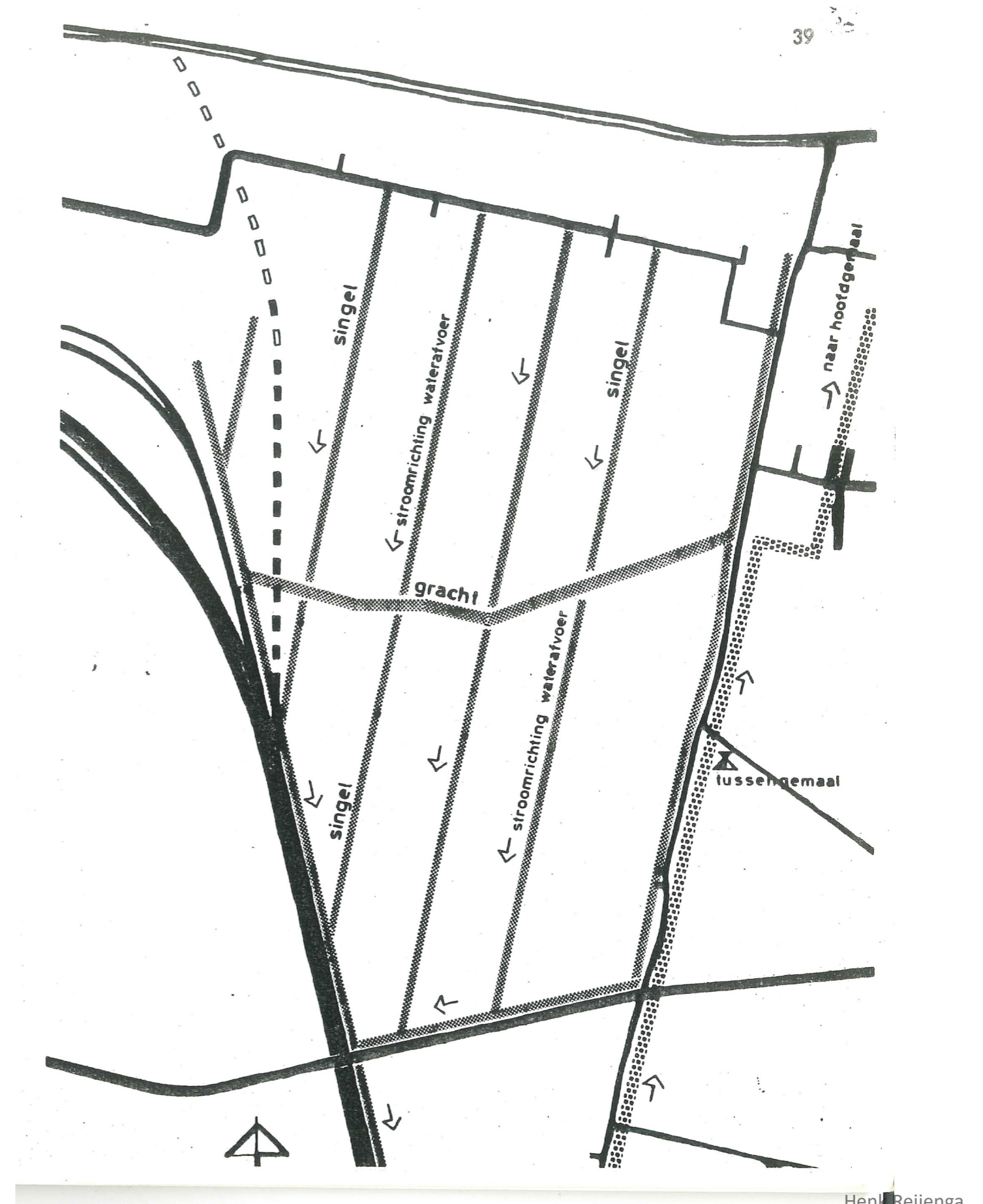
CONCLUSION

STRUCTURE

WATER STRUCTURE / GREEN STRUCTURE



base map Veldacademie, 2016



Henk Reijenga

CONTEXT

THESIS STRUCTURE

FINDINGS

PROPOSAL

APPROACH

CONCLUSION

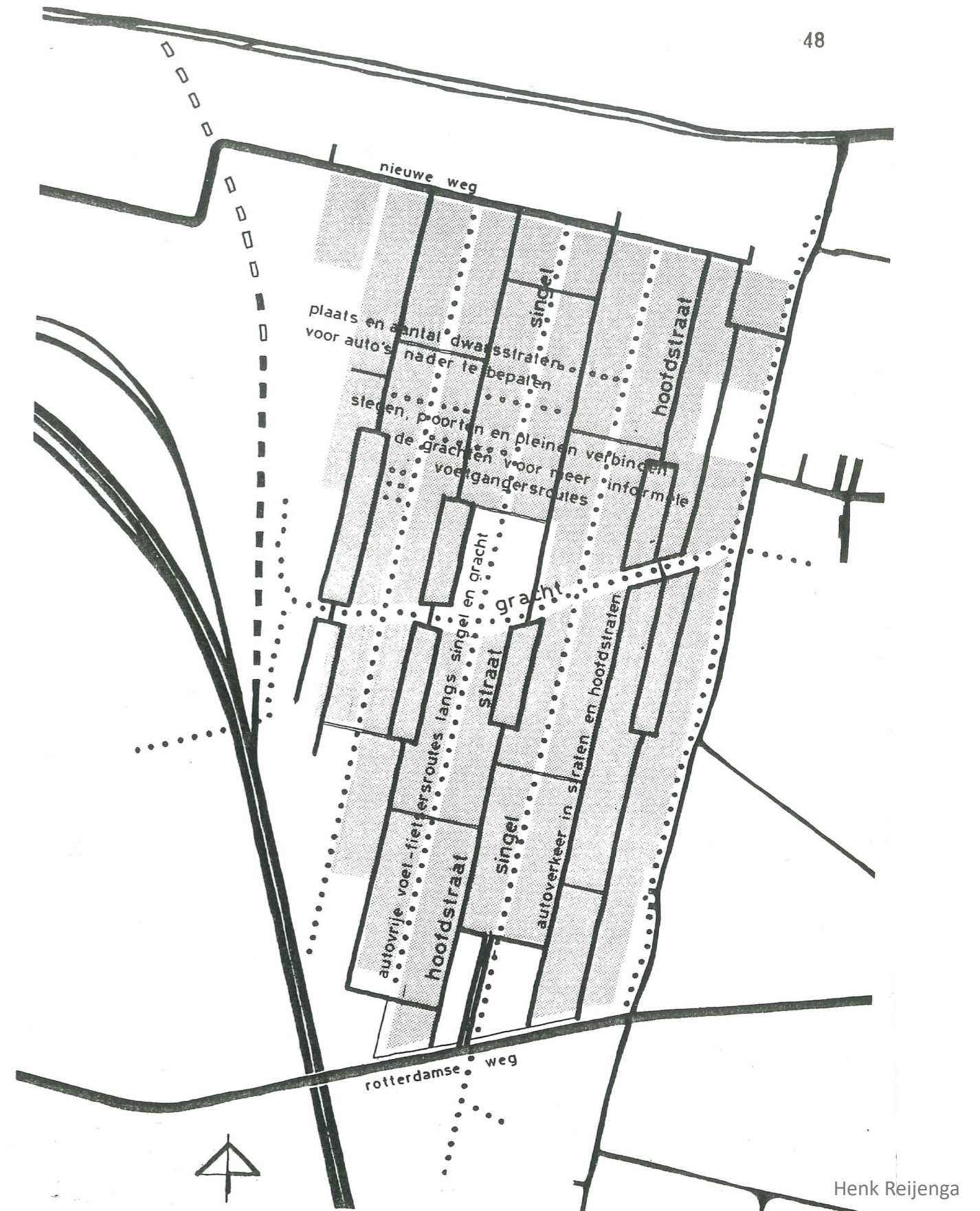
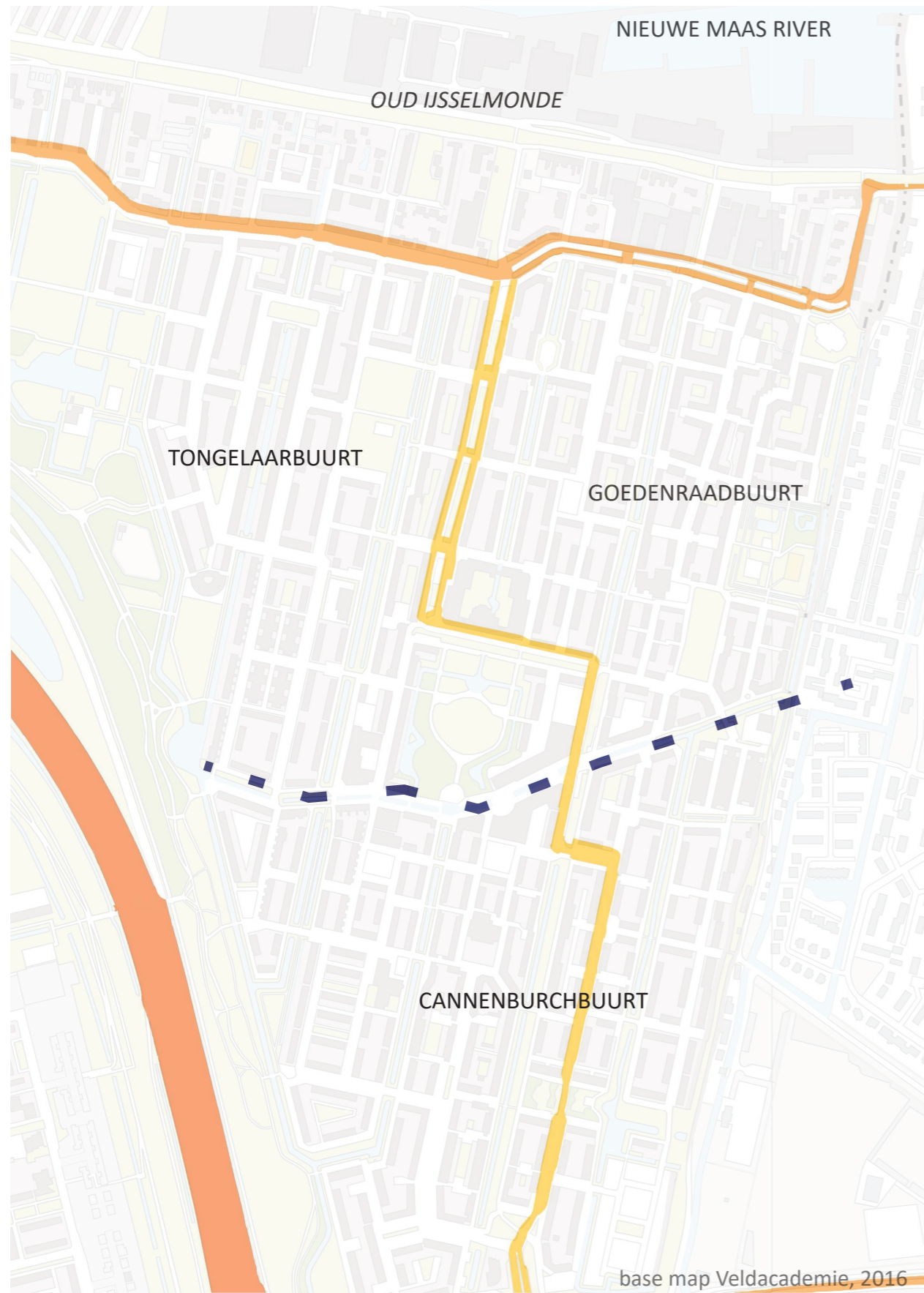
URBAN CHARACTER



Henk Reijenga

STREET NETWORK

FOCUSSED TO PEDESTRIANS



CONTEXT

THESIS STRUCTURE

FINDINGS

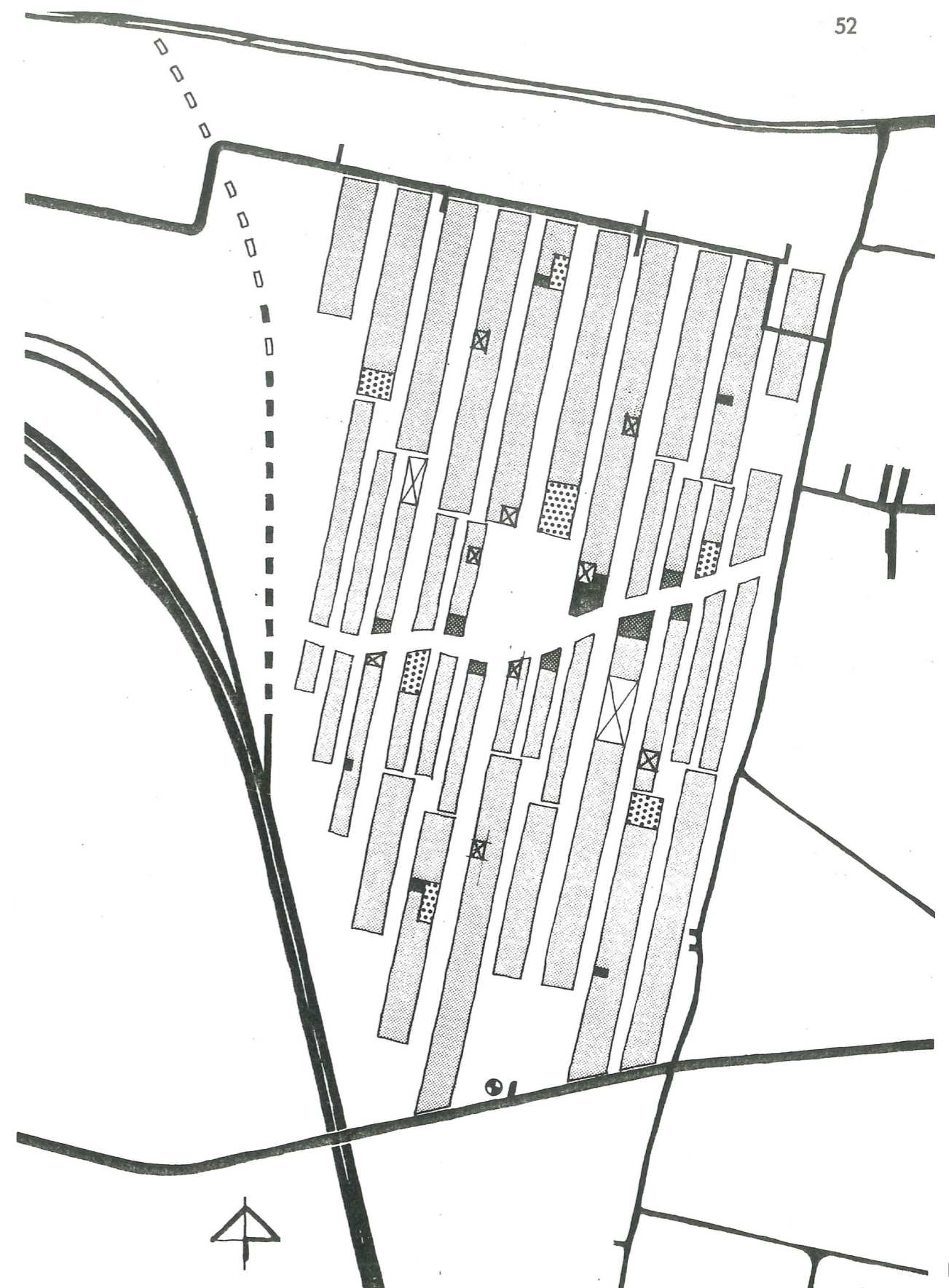
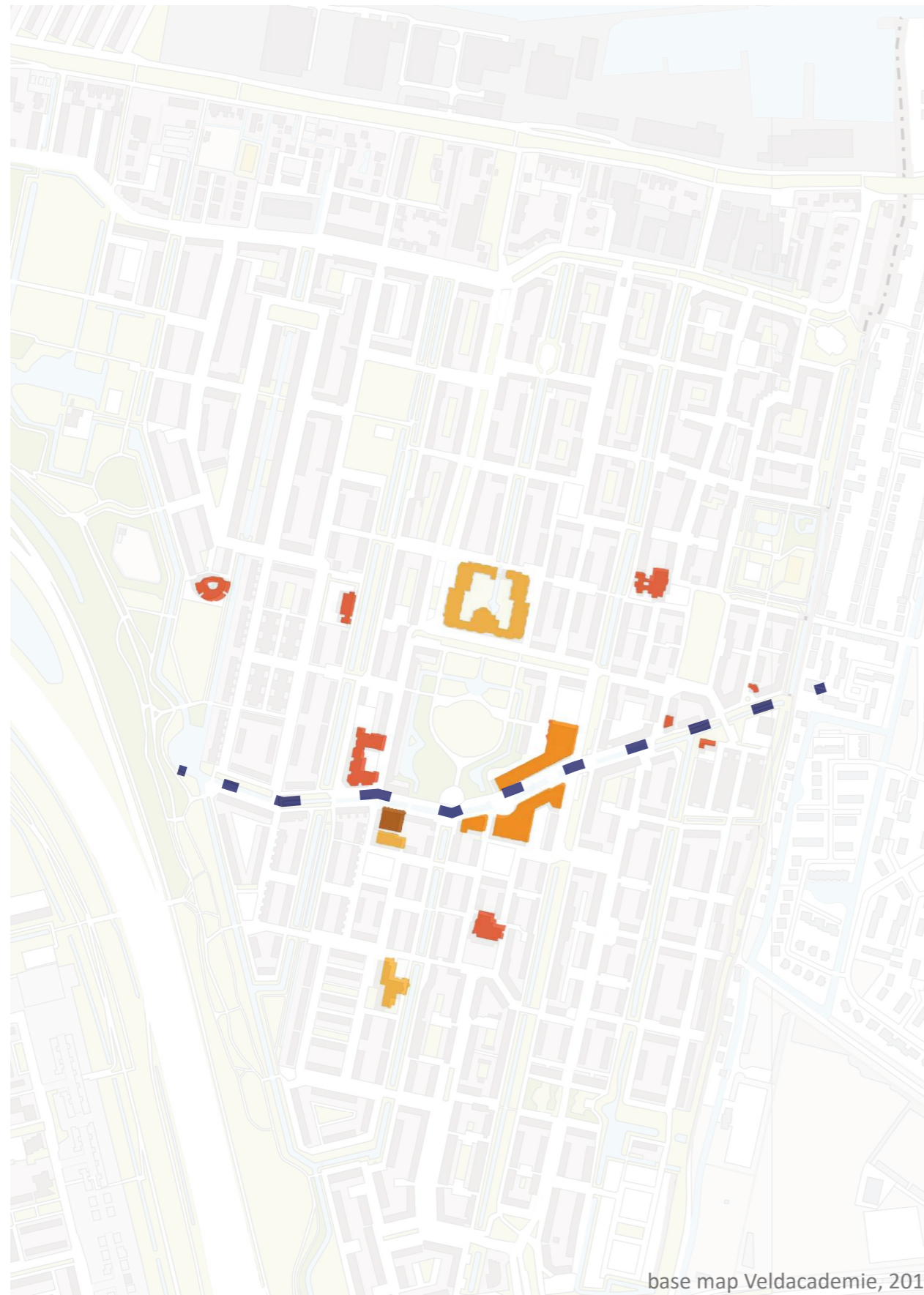
PROPOSAL

APPROACH

CONCLUSION

FUNCTIONS

ALONG OUDE WATERING



Henk Reijenga

CONTEXT

THESIS STRUCTURE

FINDINGS

PROPOSAL

APPROACH

CONCLUSION

TOP-DOWN
CURRENT REGENERATION PLAN

PLAN

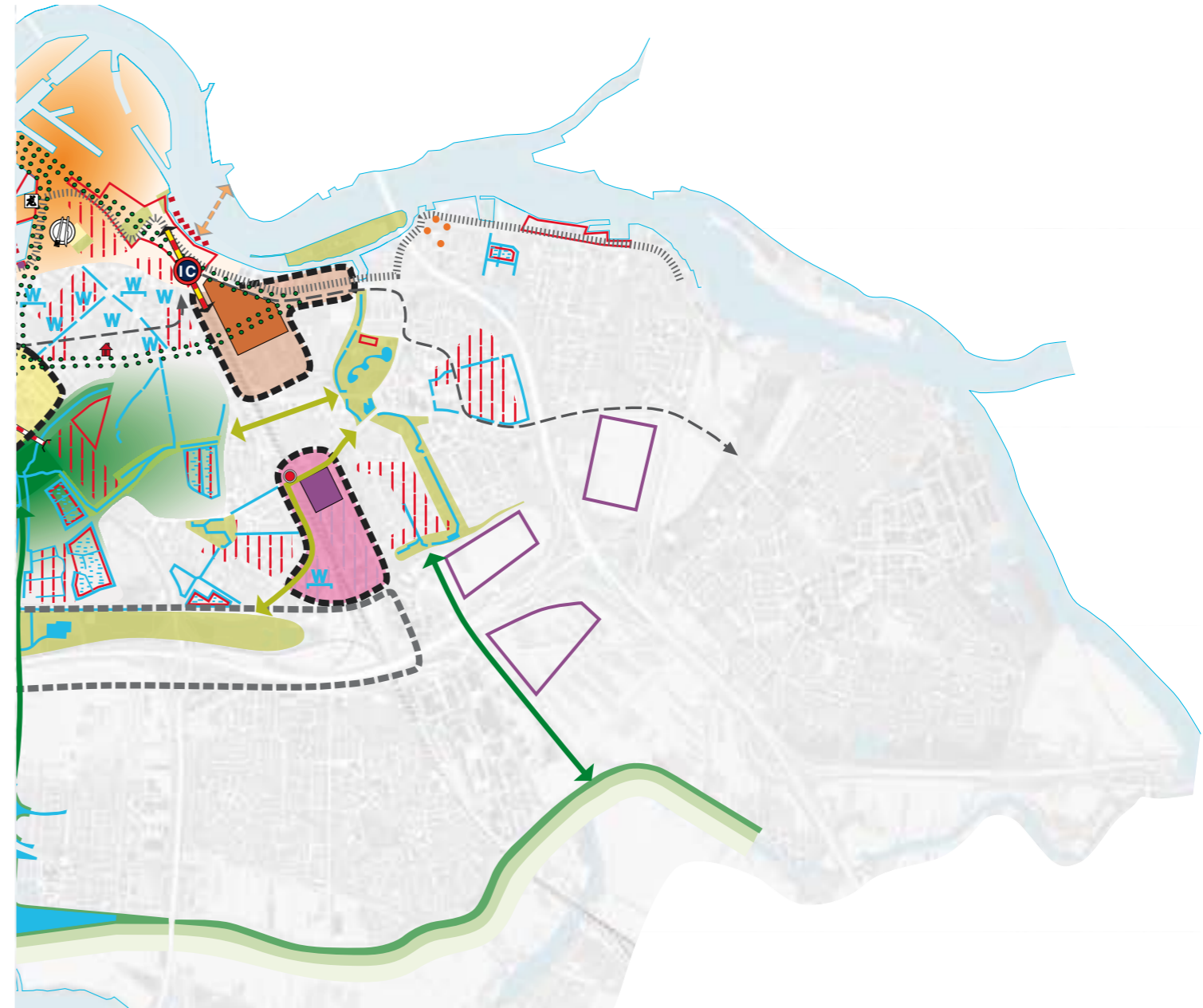
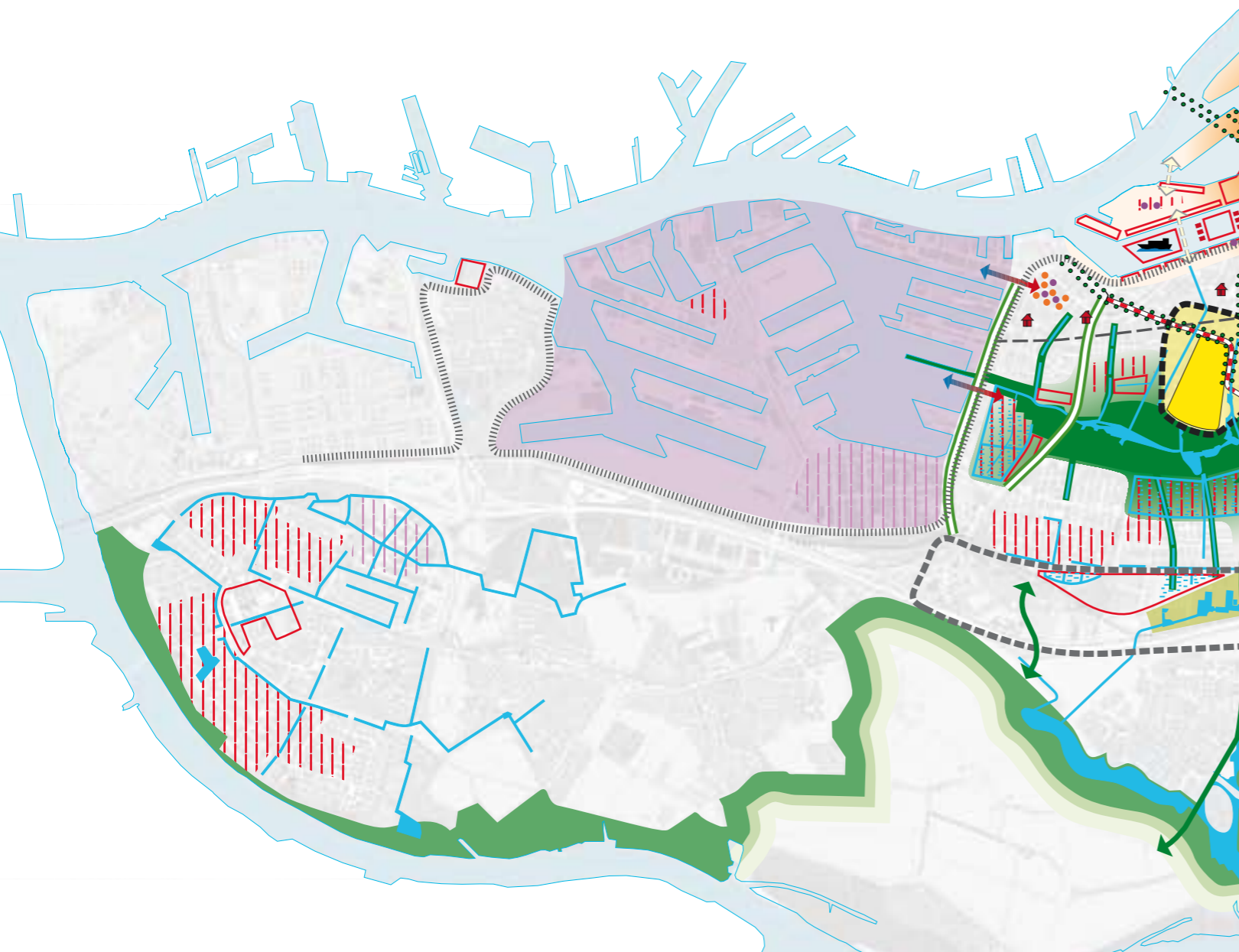
1. VISION OF ROTTERDAM

2. GUIDELINES

3. VISION BEVERWAARD

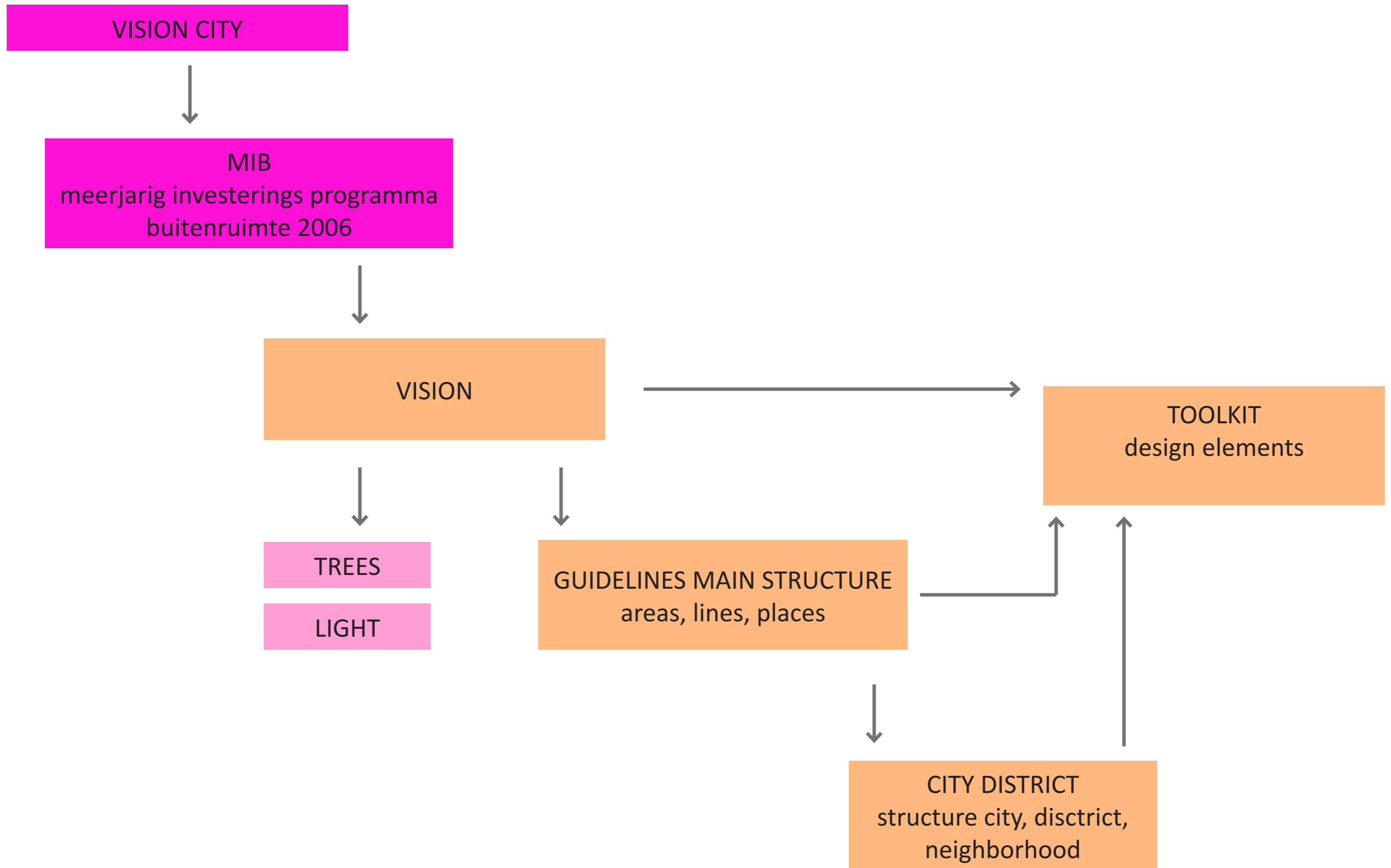
VISION MUNICIPALITY OF ROTTERDAM

STRATEGY FOR THE SOUTH OF ROTTERDAM

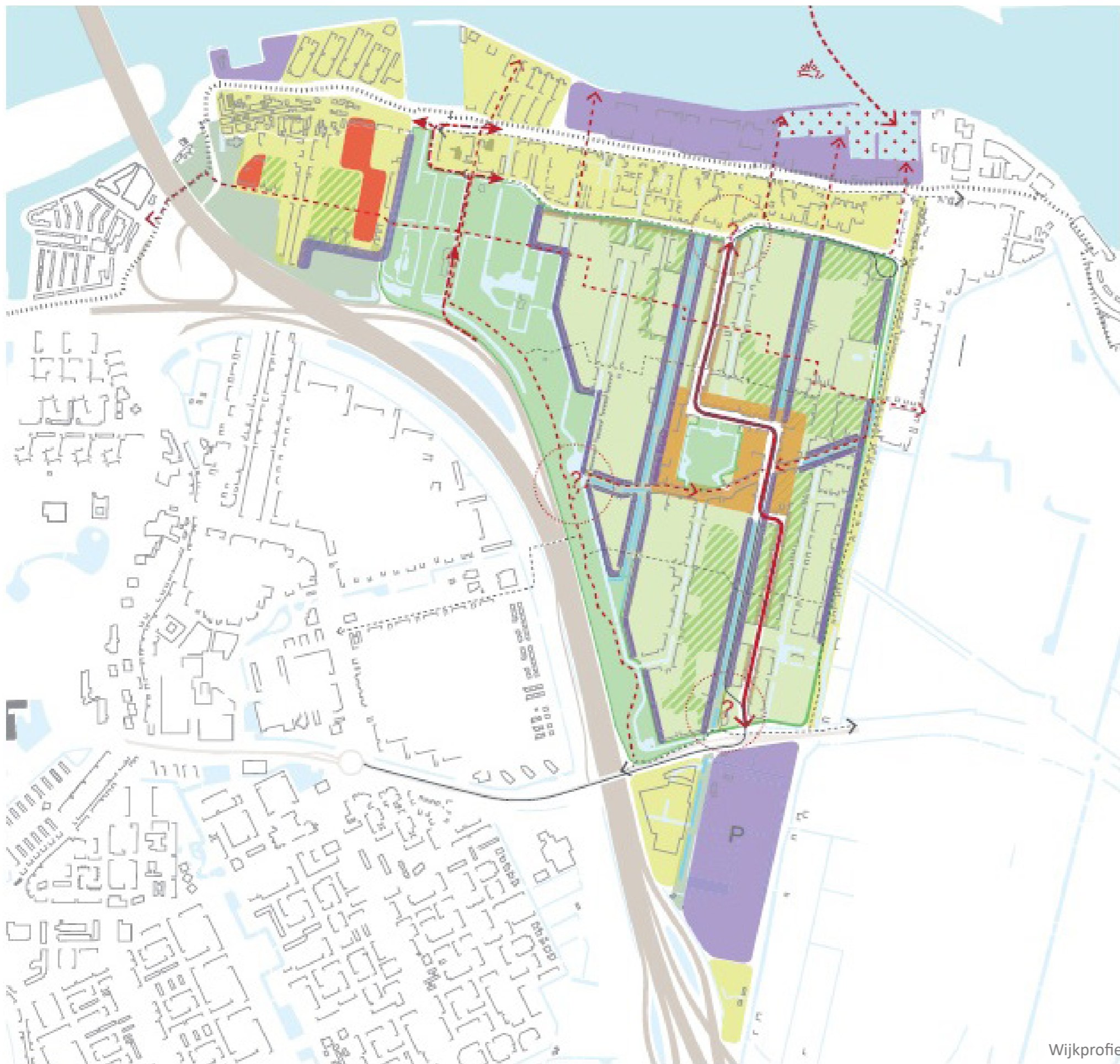


Stadsvisie 2030

GUIDELINES ROTTERDAM STYLE



VISION FOR BEVERWAARD STRATEGY



- IMPROVING IMAGE
- CREATE IDENTITY
- CONNECTION TO RIVER
- CONNECTION TO BOLNES
- MORE FUNCTIONS
- IMPROVE PUBLIC SPACE



CONTEXT

THESIS STRUCTURE

FINDINGS

PROPOSAL

APPROACH

CONCLUSION

TOP-DOWN
CURRENT PLANNING PROCESS

PROCESS

1. STRUCTURE MUNICIPALITY

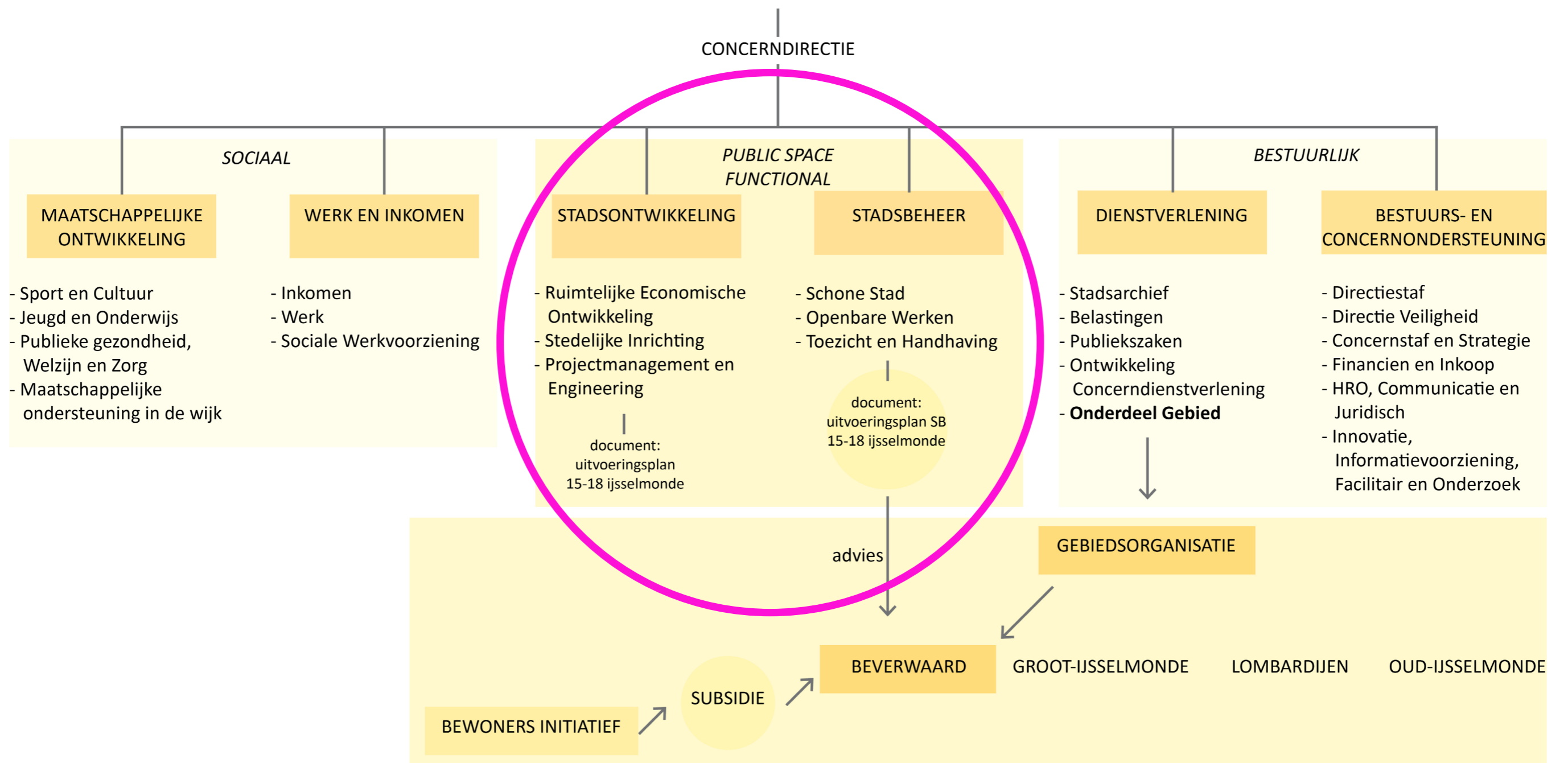
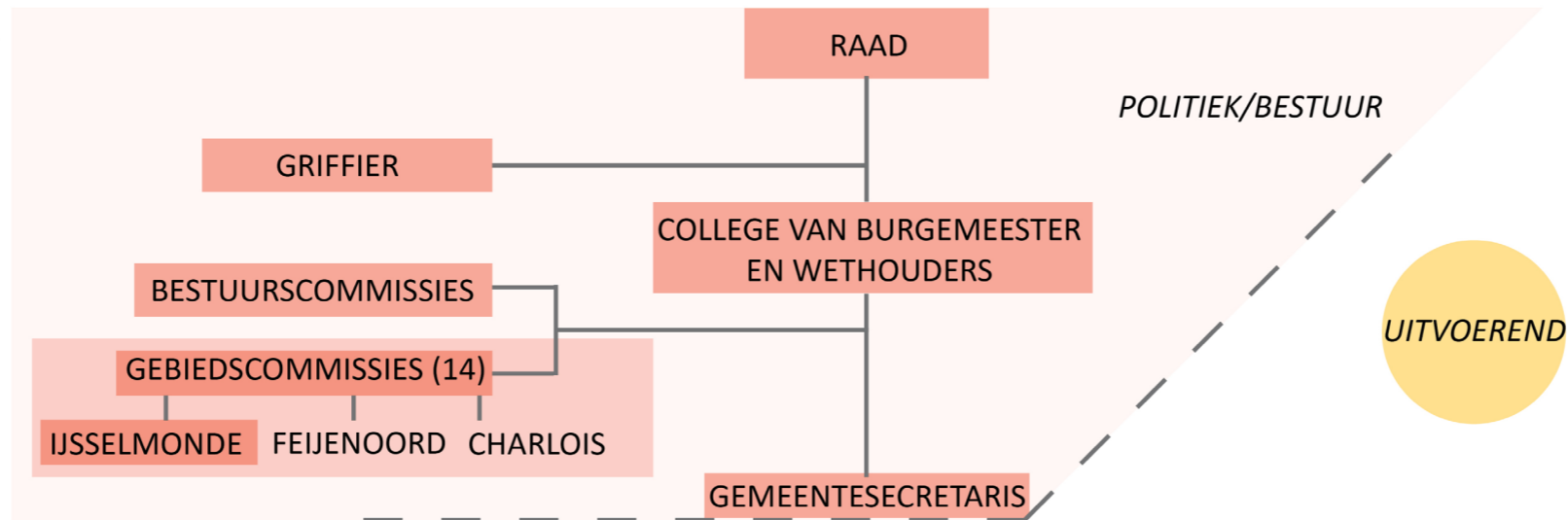
2. HOW DO PLANS WORK FROM
INITIATIVE TO FINAL DESIGN

3. NEW LAW 2019

STRUCTURE MUNICIPALITY OF ROTTERDAM

WHO IS WORKING FOR PUBLIC SPACE

MUNICIPALITY STRUCTURE



CONTEXT

THESIS STRUCTURE

FINDINGS

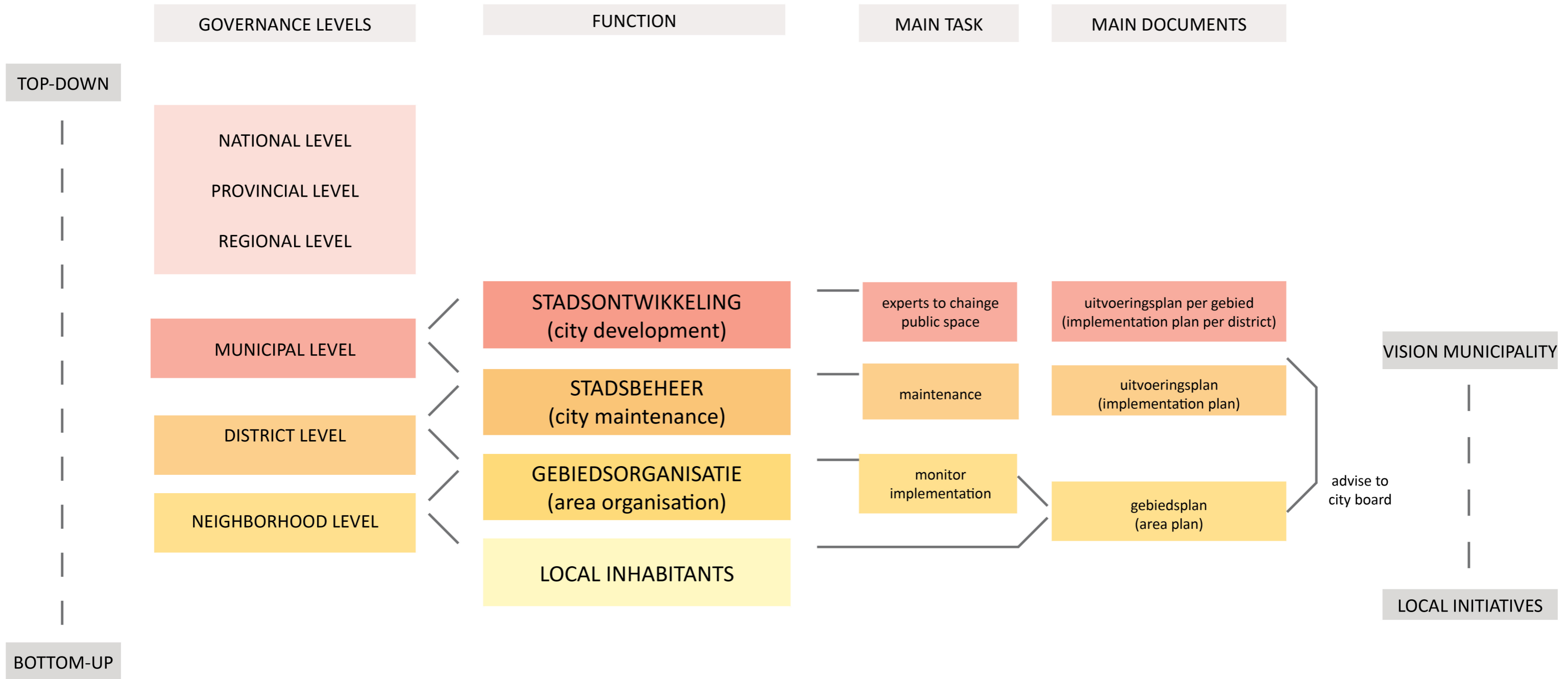
PROPOSAL

APPROACH

CONCLUSION

LINK BETWEEN MUNICIPALITY AND LOCAL CITIZENS

EXPERTS, MAINTENANCE AND ADVISE



CONTEXT

THESIS STRUCTURE

FINDINGS

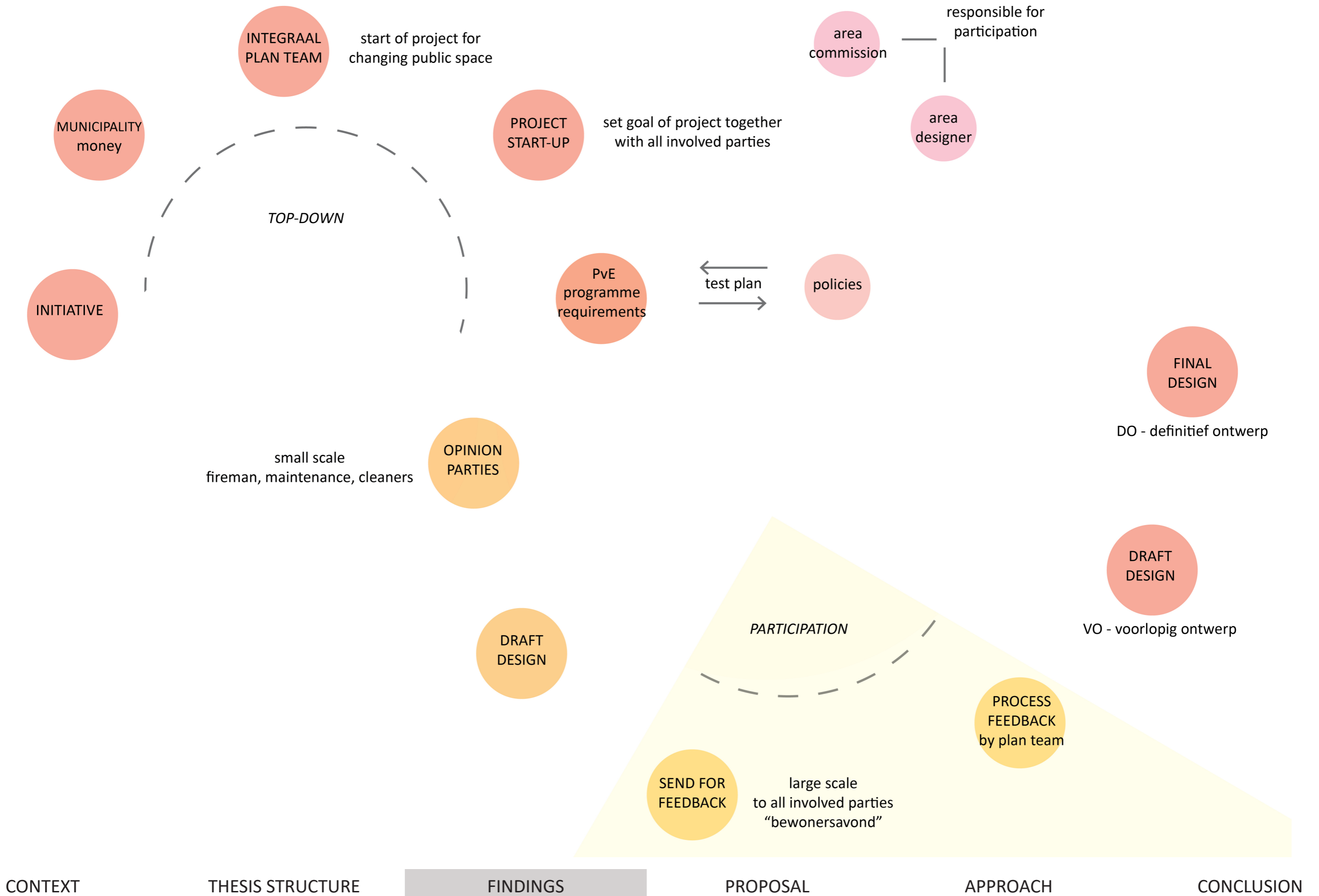
PROPOSAL

APPROACH

CONCLUSION

PLANNING PROCESS

IP PROCEDURES



NEW LAW

'DE NIEUWE OMGEVINGSWET'

FROM SEPERATED SYSTEM, TO ONE INTEGRATED SYSTEM

1.BETTER OVERVIEW

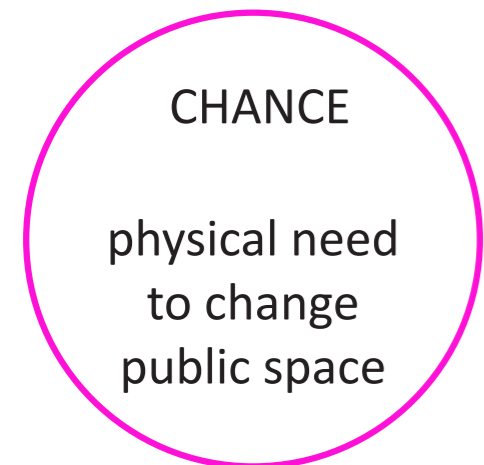
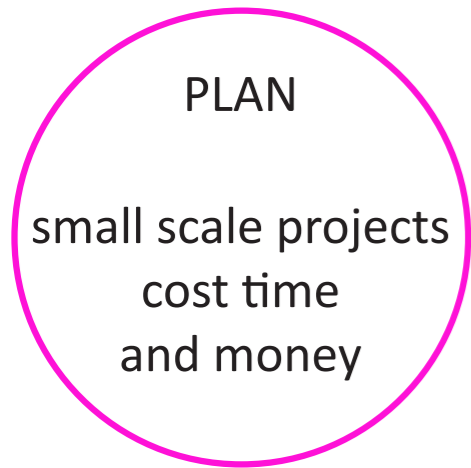
2.PHYSICAL LIVING ENVIRONMENT

3. MAKE USE MORE EASY



ANALYSING FINDINGS

HOW TO ENGAGE TOP-DOWN AND BOTTOM-UP?



TOP-DOWN
PLAN

TOP-DOWN
PROCESS

REVISE CURRENT PLAN
link plan to process to people



CONTEXT

THESIS STRUCTURE

FINDINGS

PROPOSAL

APPROACH

CONCLUSION

WATER CHANCE FOR ROTTERDAM



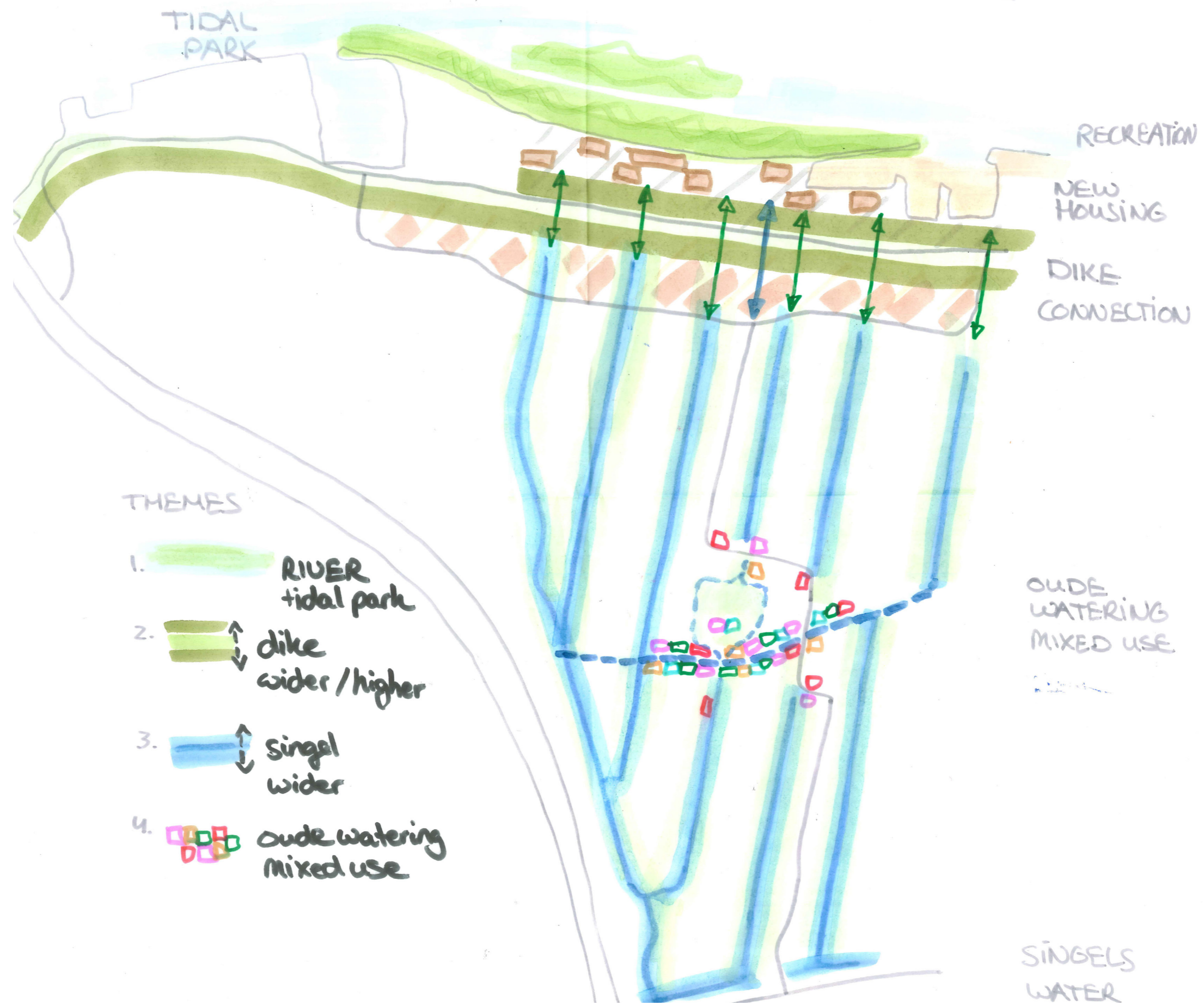
WATER ADVISE BEVERWAARD

RETAIN, DRAIN, STORE AND CLEAN WATER

“THREATS MUST BE TRANSFORMED INTO OPPORTUNITIES”

WATER PUBLIC SPACES BEVERWAARD

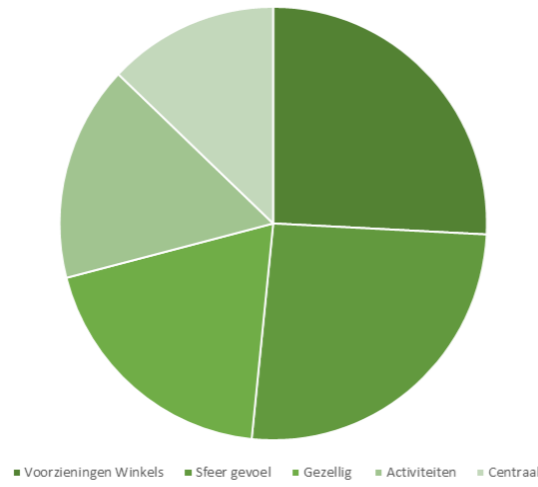
FOCUS AREAS FOR RESEARCH



INPUT FROM LOCAL CITIZENS OUTCOME ONLINE SURVEY

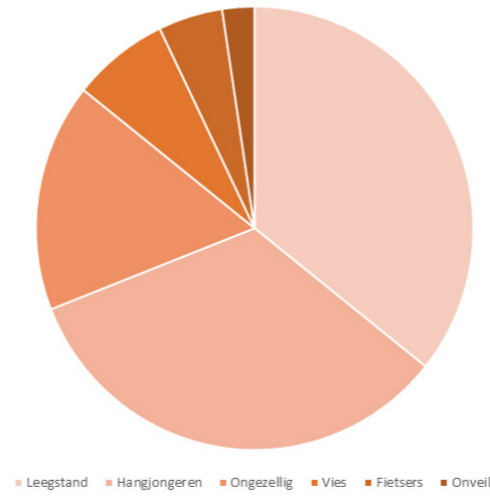
OUDE WATERING CANAL

OUDE WATERING POSITIVE



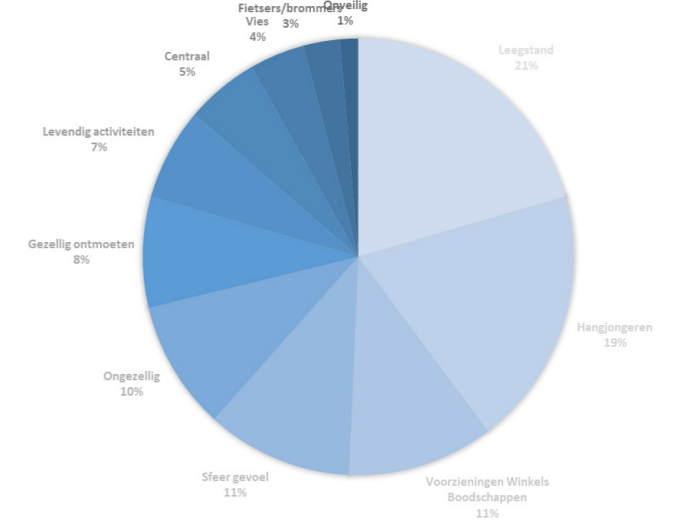
SHOPS
ACTIVITIES

OUDE WATERING NEGATIVE



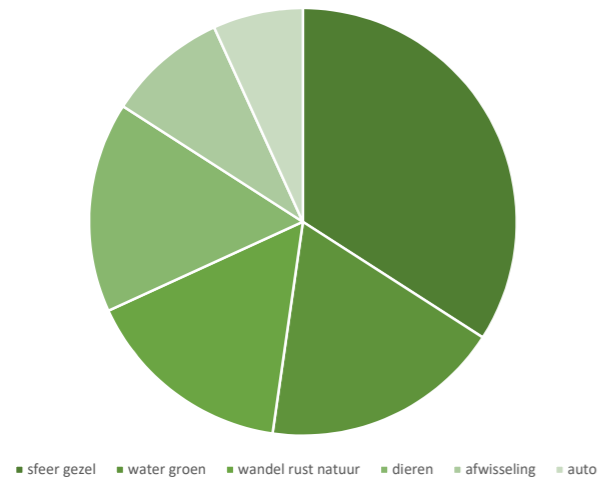
VACANCY
UNSAFE

OUDE WATERING OVERALL



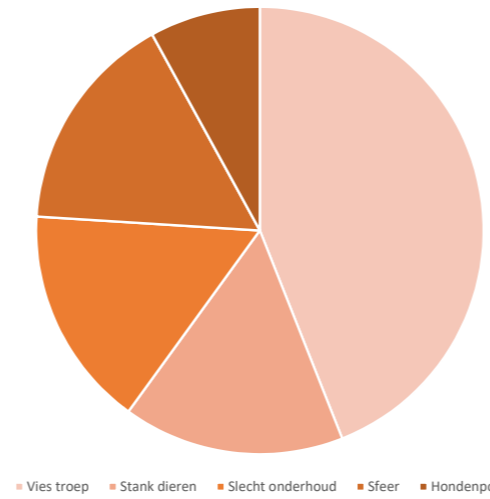
SINGELS

SINGELS POSITIVE



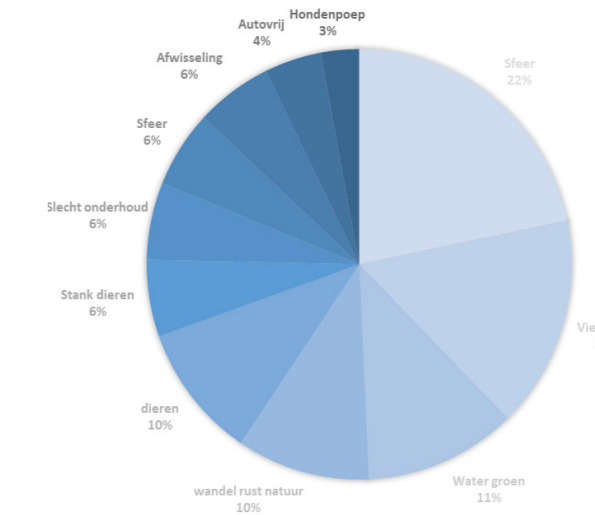
GREEN
NO CARS

SINGELS NEGATIVE



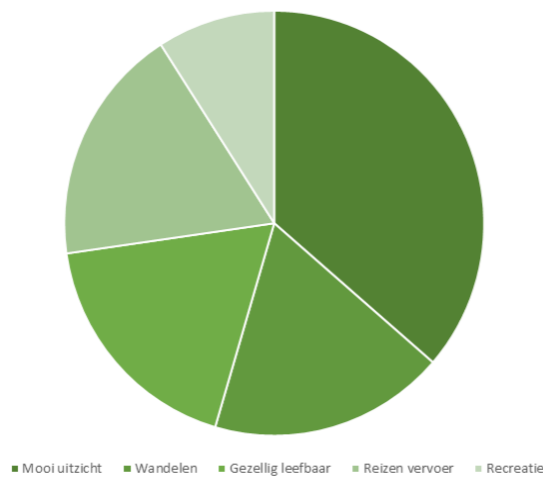
BAD MAINTENANCE

SINGELS OVERALL



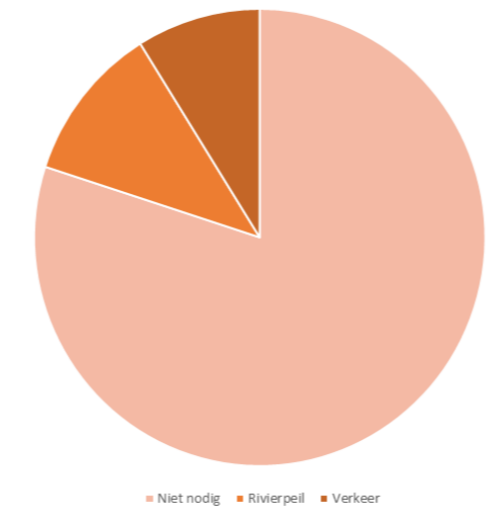
RIVER

RIVER POSITIVE



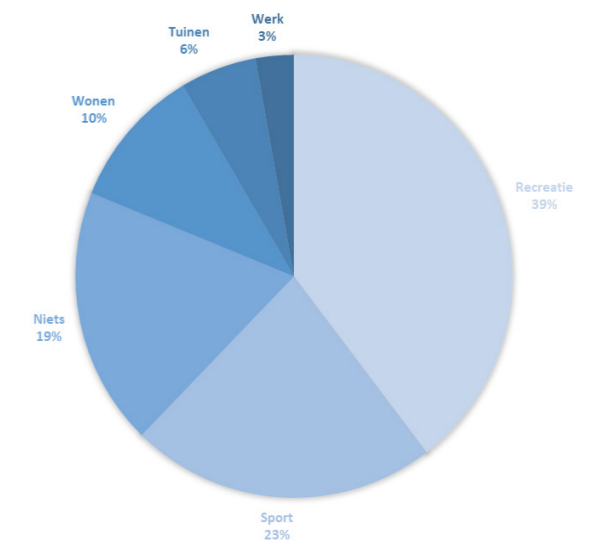
VIEW
WALKING
RECREATION

RIVER NEGATIVE



NO NEED
TO CHANGE

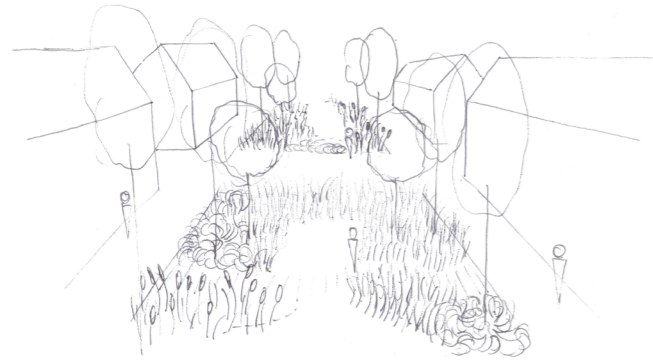
RIVER AREA ACTIVITIES



INPUT FROM LOCAL CITIZENS

OUTCOME ONLINE SURVEY

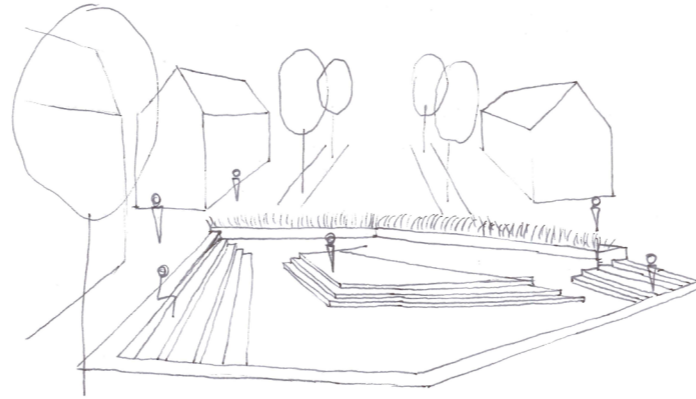
MEER GROEN



Meer verschillende soorten groen voor een divers en natuurlijk uiterlijk wat tegelijkertijd zorgt voor waterinfiltratie



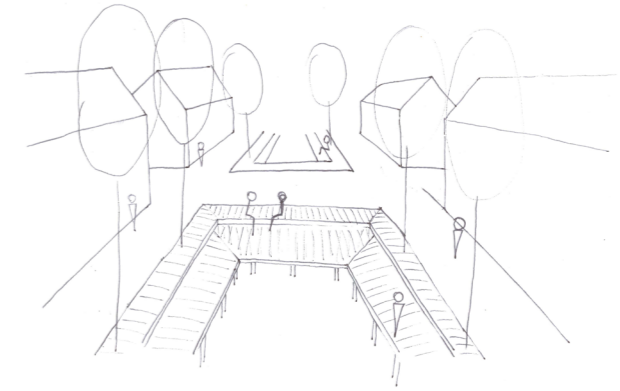
WATERPLEIN



Een waterplein als nieuwe ontmoetingsplek in de wijk waar kinderen kunnen spelen en water wordt opgevangen



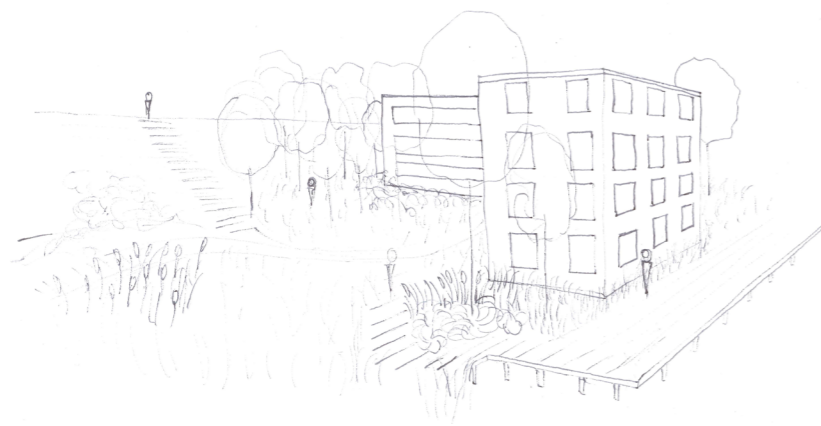
WATER RUIMTE GEVEN



Ruimte geven aan het water door de singels te verbreden en zo de kwaliteit van de buitenruimte te verbeteren



RECREATIE AAN RIVIER



Een nieuwe verblijfsplek maken aan het water, om te sporten, wandelen, zwemmen



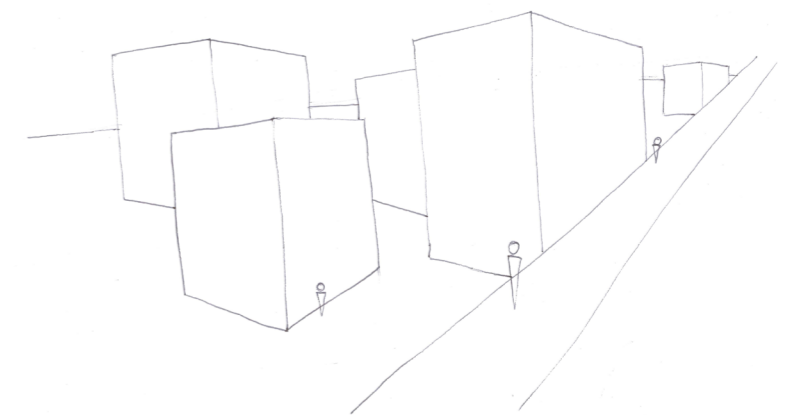
WONEN AAN DE RIVIER



Uitbreiding van de wijk Beverwaard met luxere woningen aan het water



SLOOP VERVALLEN INDUSTRIE



Industrie en leegstaande panden aan de rivier slopen om ruimte te maken voor nieuwe initiatieven



CONTEXT

THESIS STRUCTURE

FINDINGS

PROPOSAL

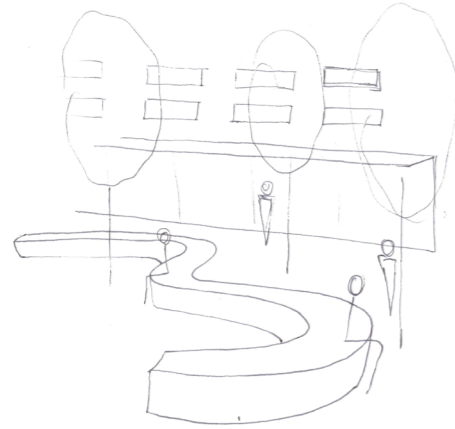
APPROACH

CONCLUSION

INPUT FROM LOCAL CITIZENS

OUTCOME ONLINE SURVEY

ZITPLEKKEN



Zitplekken maken in het winkelgebied voor ontmoeting tussen bewoners wat zorgt voor sociale veiligheid



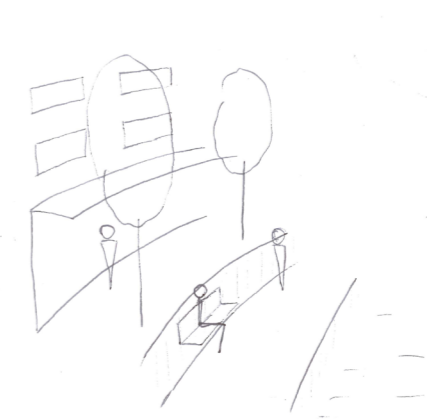
TRANSFORMATIE LEEGSTAANDE WINKELPANDEN



Het transformeren van leegstaande winkelpanden tot woningen om leegstand op te vullen en ervoor te zorgen dat elk uur van de dag activiteiten zijn in het winkelgebied



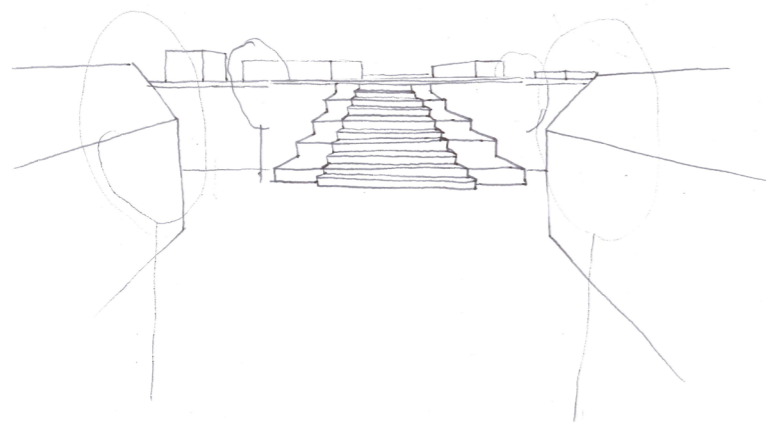
KADE



De kade verlagen om het water onderdeel te laten zijn van de openbare ruimte waardoor de kwaliteit ervan wordt verbeterd



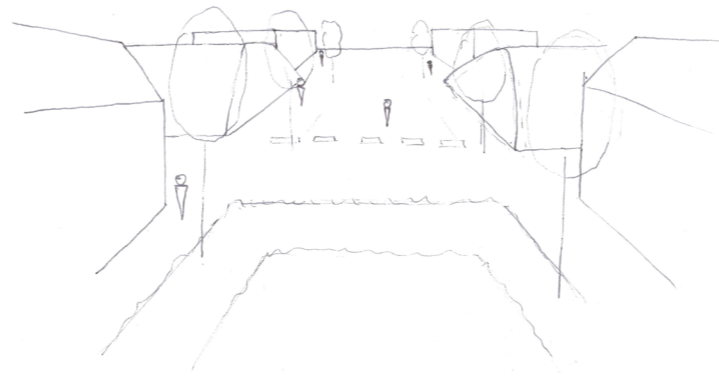
TRAP



Een grote opvallende trap maken over de dijk om een directe (functionele) verbinding te maken van de wijk naar de rivier



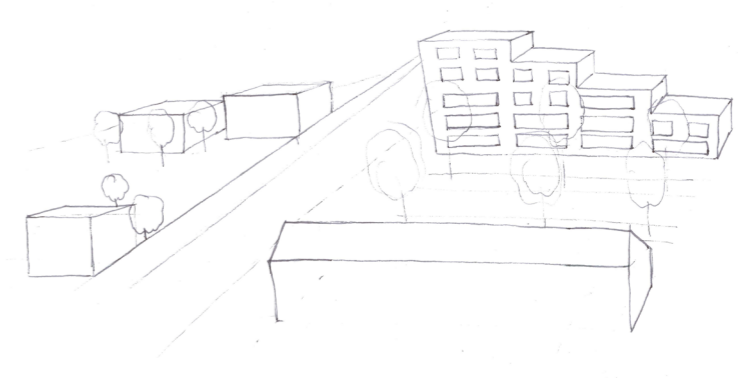
OPENING IN DIJK



Een opening in de dijk maken voor een visuele verbinding van de wijk naar de rivier



NIEUWE HOGE WONINGEN



De bebouwing langs de dijk in hoogte aan te passen voor een overgang/verbinding naar de dijk in gebouwhoogte







MAIN CONCLUSION INPUT LOCAL CITIZENS

CHANGE SINGELS, CREATE RECREATIONAL AREA AND IMPROVE CENTER



DESIGN CHALLENGE

PROCESS		1. TOP-DOWN PROCESS show how local citizens can be involved
MUNICIPALITY VISION		2. TOP-DOWN PLAN guidelines to improve Beverwaard, but no specific proposed interventions how to reach that goal
WATER VISION		3. WATER address water in projects for public space
BOTTOM-UP DEMAND		4. BOTTOM-UP DEMANDS address demands of all citizens

PROPOSAL

A NEW URBAN REGENERATION PLAN FOR THE PUBLIC SPACE OF BEVERWAARD

1. PROCESS

-INVOLVE LOCAL CITIZENS



2. DESIGN

-WATER CHALLENGES

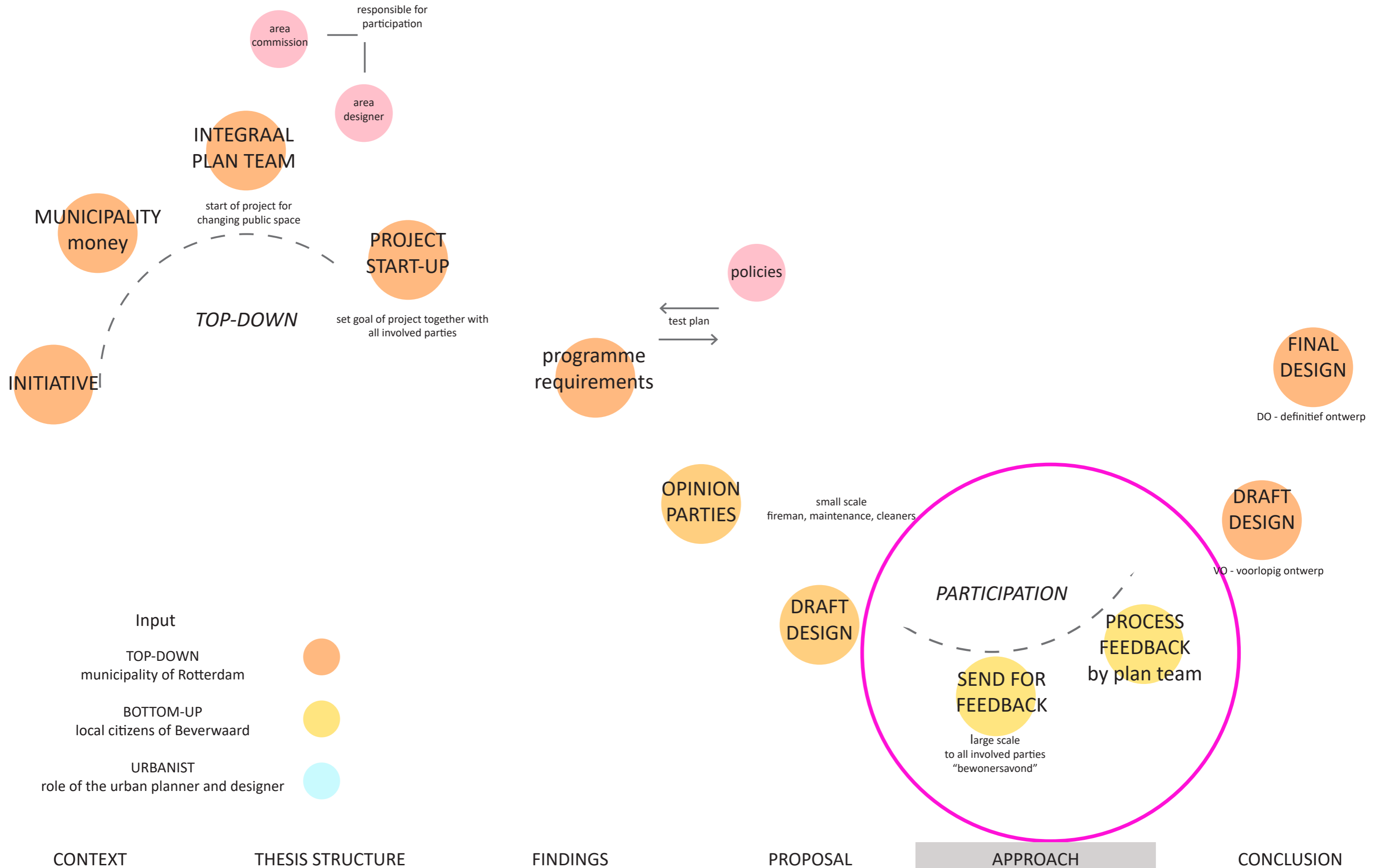
-VISION OF MUNICIPALITY

- DEMANDS OF LOCAL CITIZENS



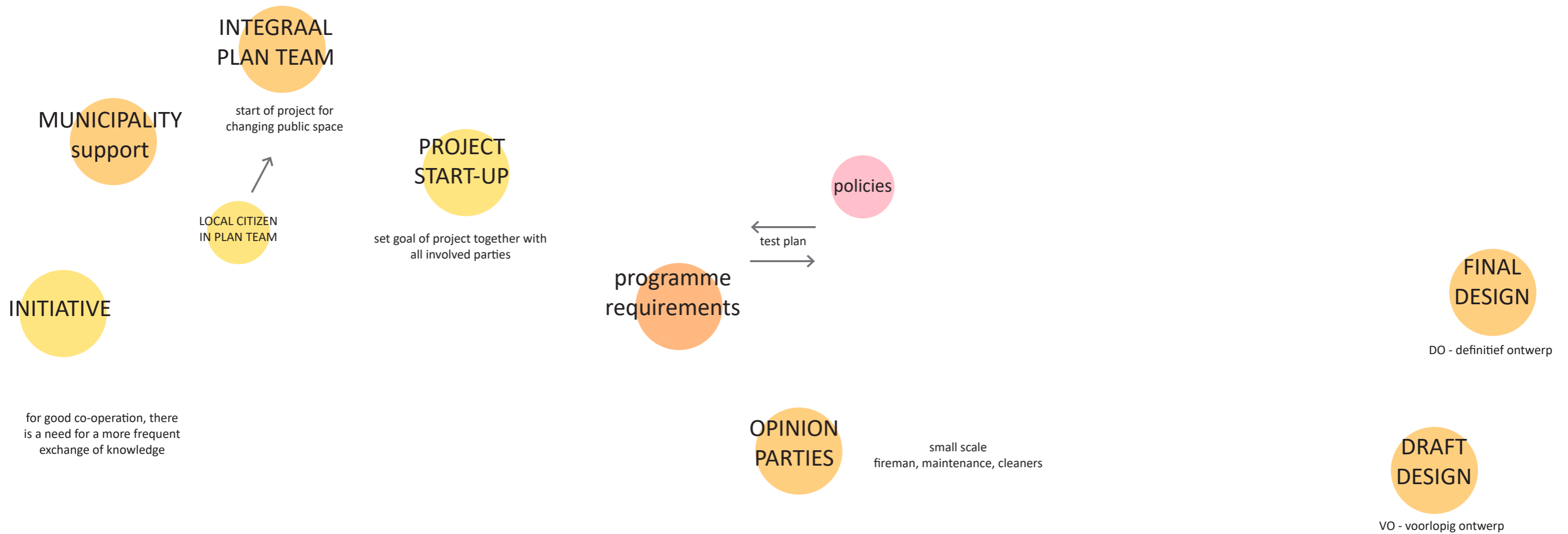
PROCESS

CURRENT PROCESS



PROCESS

PROPOSED PARTICIPATORY PROCESS



- Input
- TOP-DOWN
municipality of Rotterdam
 - BOTTOM-UP
local citizens of Beverwaard
 - URBANIST
role of the urban planner and designer

CONTEXT

THESIS STRUCTURE

FINDINGS

PROPOSAL

APPROACH

CONCLUSION

SEND FOR FEEDBACK

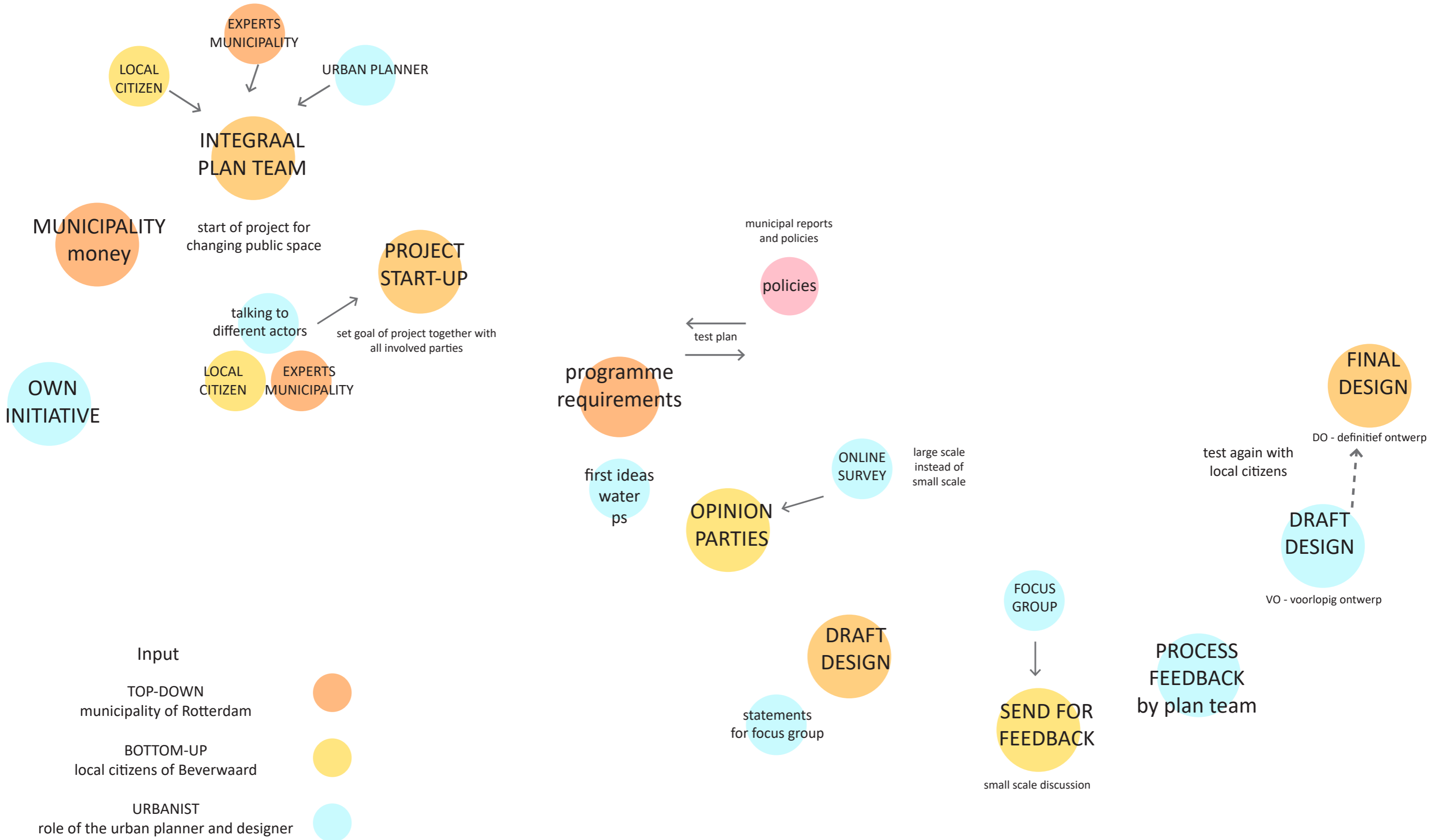
large scale to all involved parties "bewonersavond"

PROCESS FEEDBACK by plan team

DRAFT DESIGN

PROCESS

ROLE OF URBANIST



CONTEXT

THESIS STRUCTURE

FINDINGS

PROPOSAL

APPROACH

CONCLUSION

INPUT FOR DESIGN
WATER, MUNICIPALITY AND LOCAL CITIZENS

WATER CHALLENGES



water adaptation, retention, and storage

MUNICIPALITY VISION



translate vision into concrete goals

BOTTOM-UP DEMAND



adapt plans to demands of local citizens

INPUT FOR DESIGN

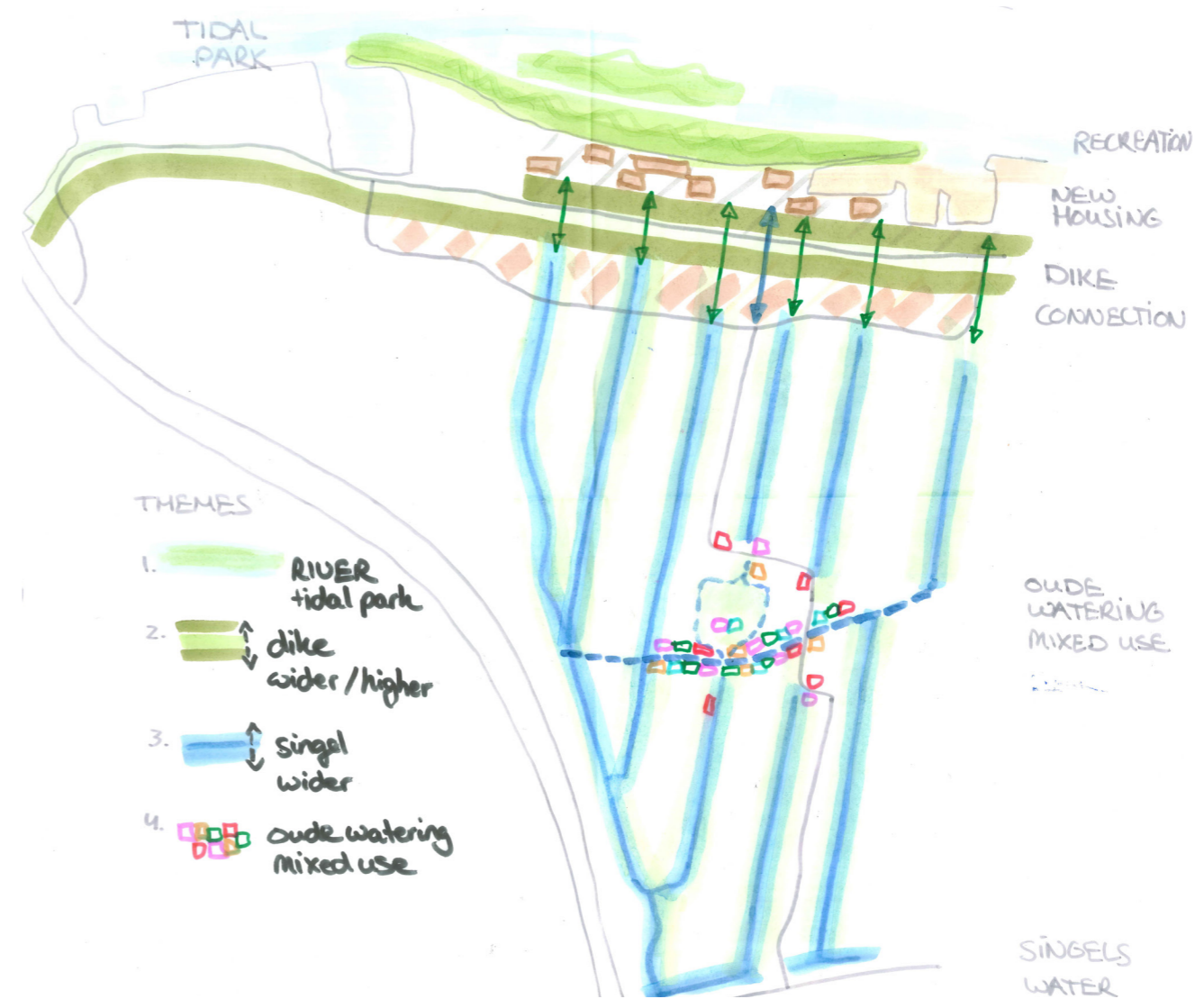
FOUR MAIN FOCUS AREAS

1. THE SINGELS
MORE GREEN, GIVE ROOM FOR WATER

2. A NEW RECREATION AREA
CYCLE AND PEDESTRIAN ROUTE

3. CENTER OF BEVERWAARD
MAKE IT ATTRACTIVE

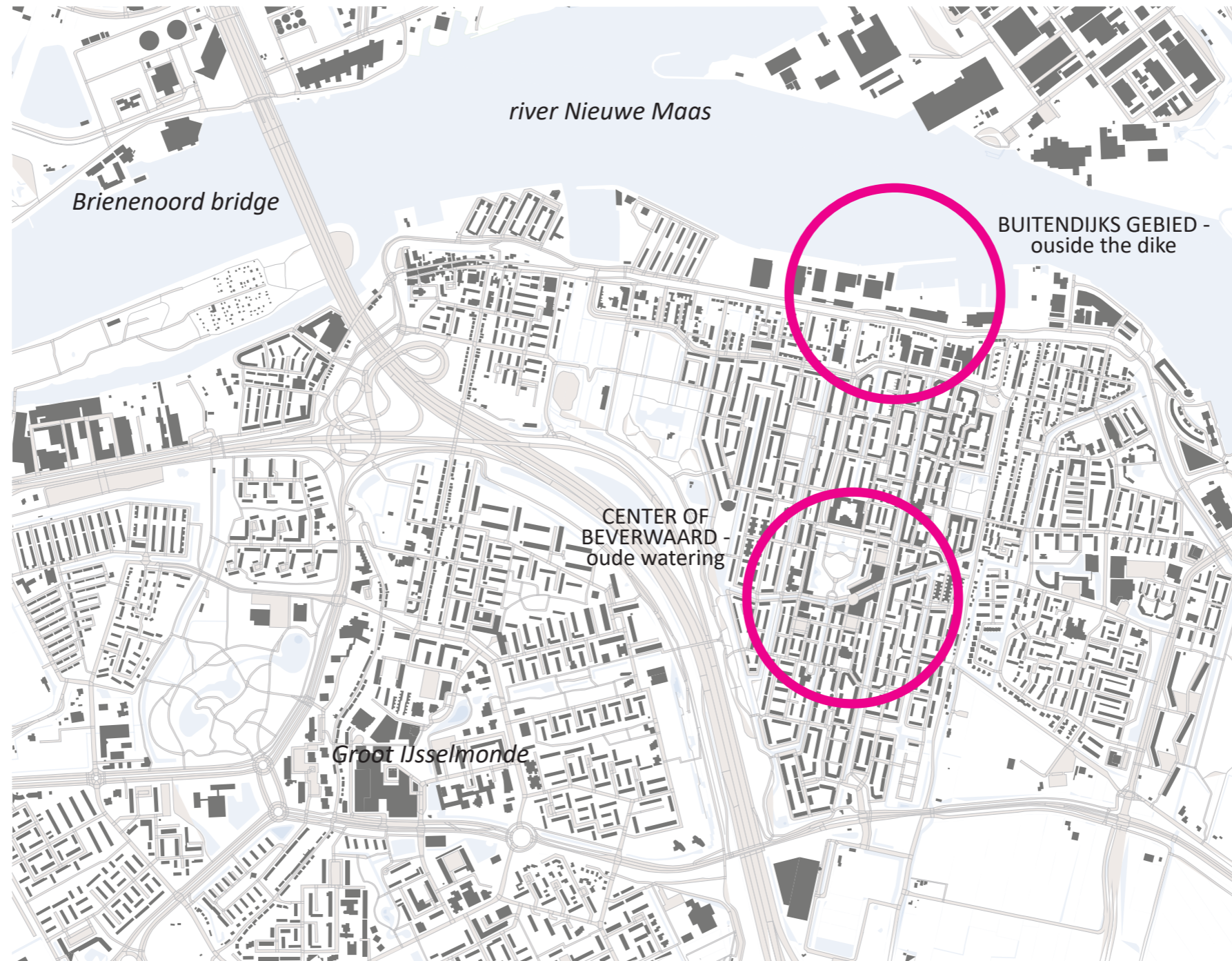
4. CONNECTION
IMPROVE ACCESSIBILITY OF BEVERWAARD



CONCEPT

TWO FOCUS AREAS

PRINCIPLE

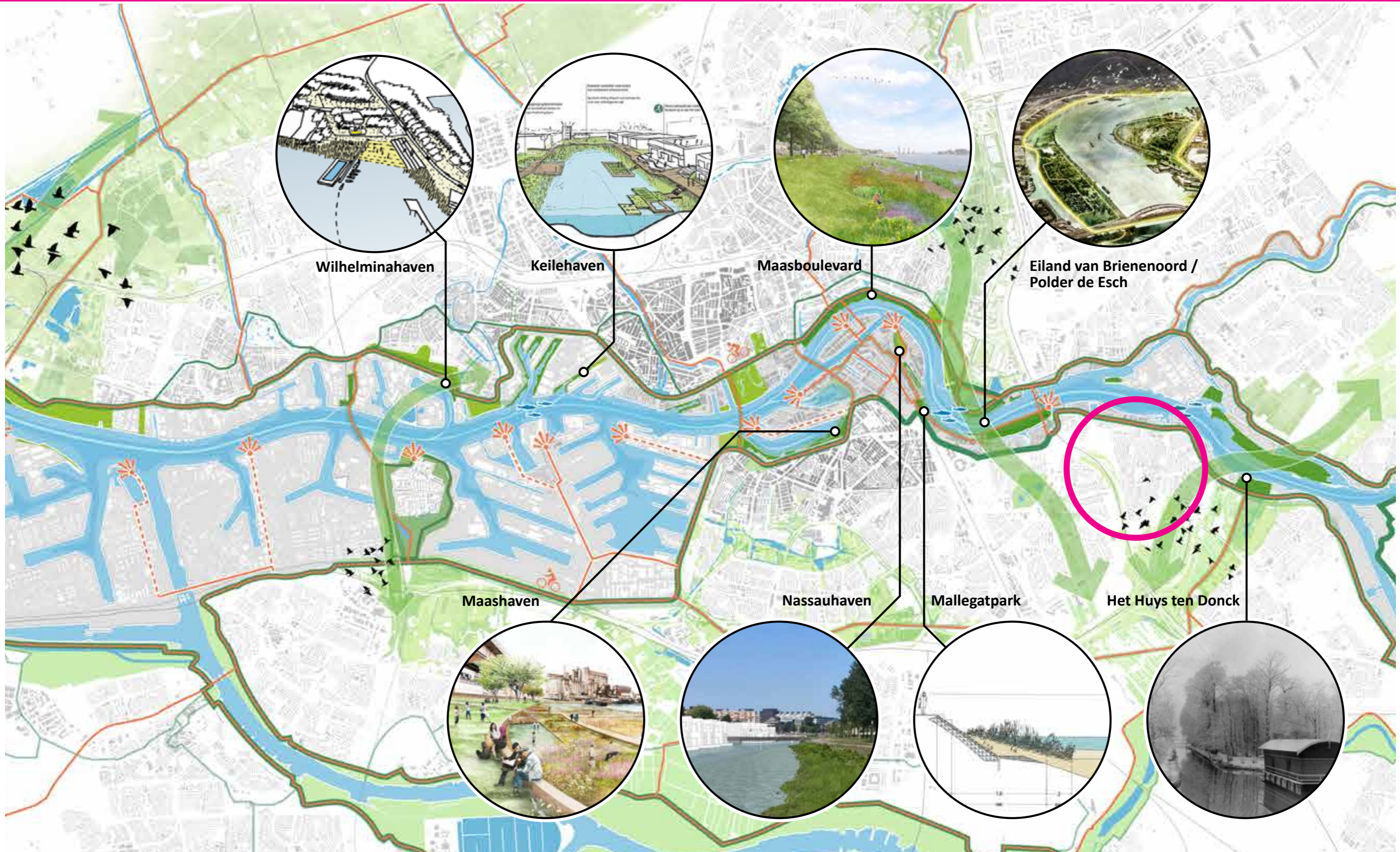


RIVER AREA

CENTER OF BEVERWAARD

LINK TO BIGGER SCALE

PROJECTS ALONG THE RIVER MAAS AND PROPOSED GREEN CORRIDORS



Source: De Urbanisten, 2016

CONTEXT

THESIS STRUCTURE

FINDINGS

PROPOSAL

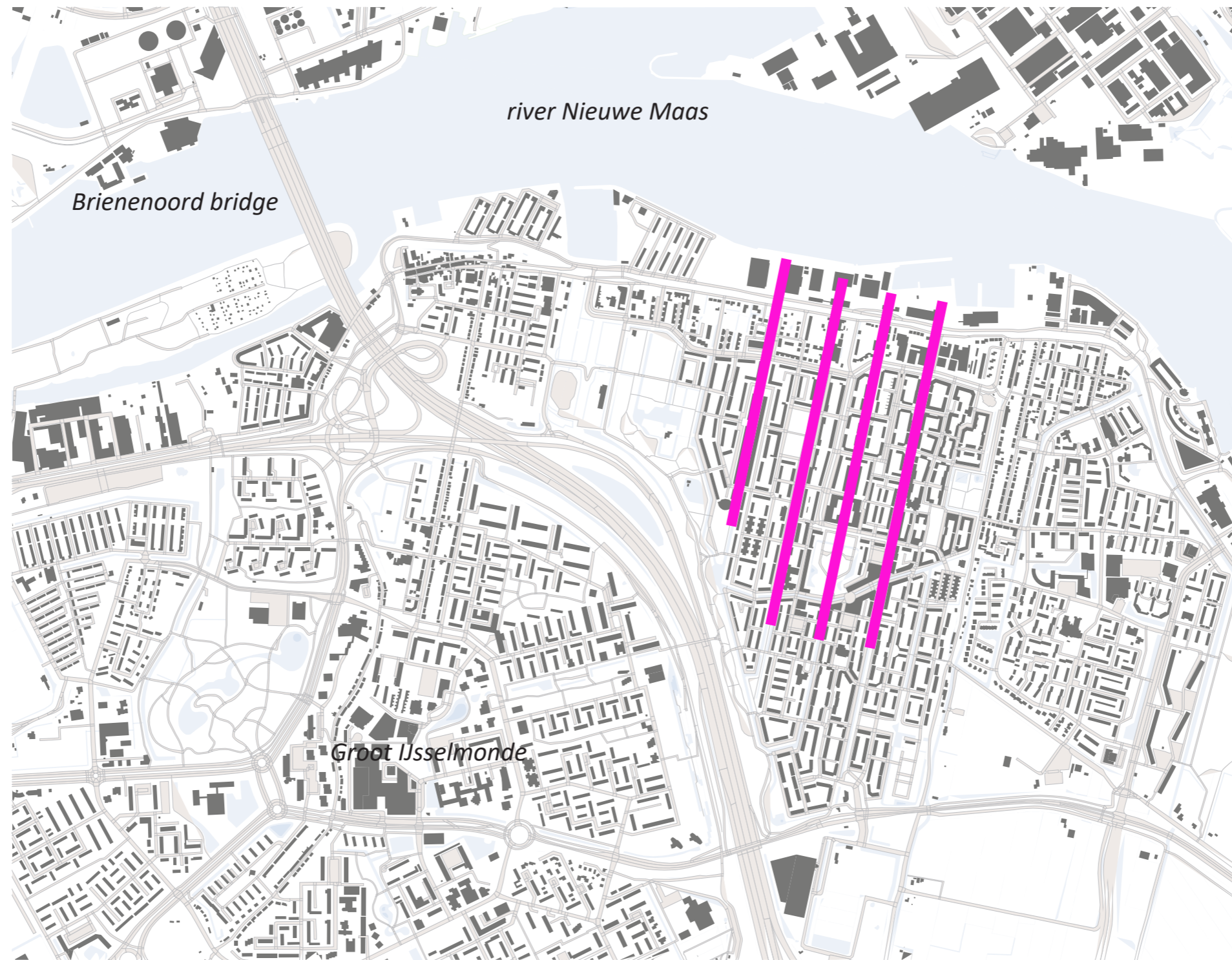
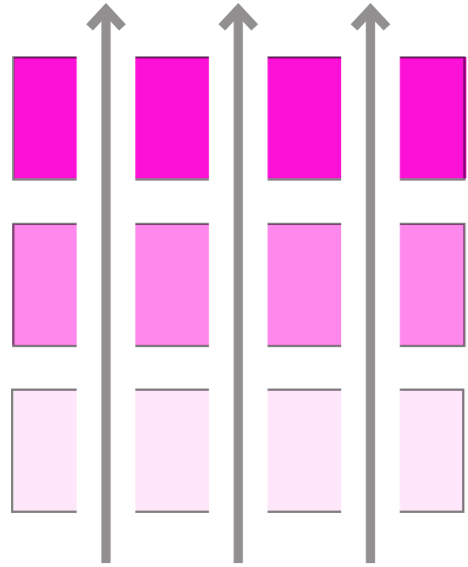
APPROACH

CONCLUSION

CONCEPT

CONNECTION THROUGH SINGELS

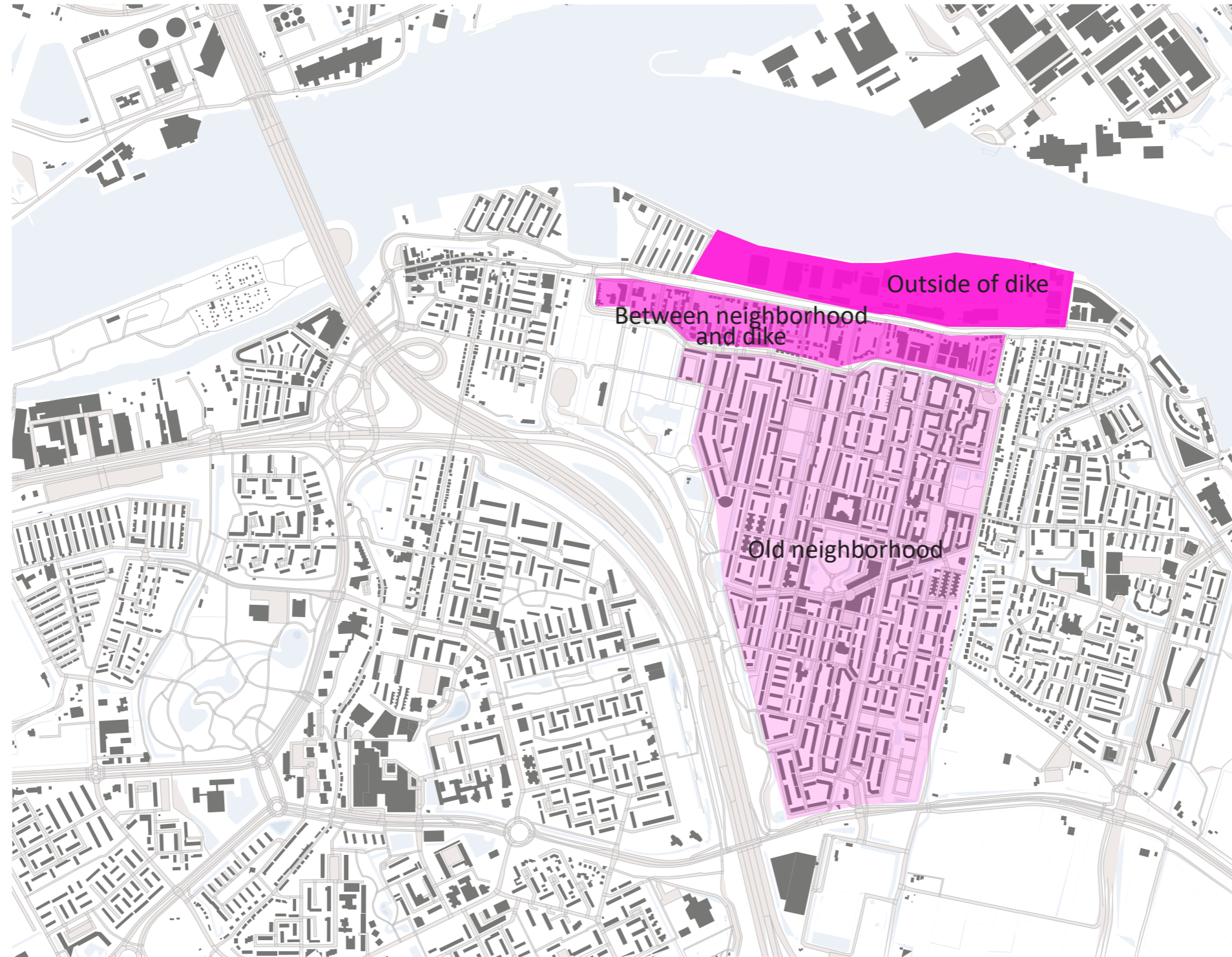
PRINCIPLE



CONCEPT

THREE DIFFERENT DESIGN AREAS

PRINCIPLE



CENTER OF BEVERWAARD

OUDE WATERING CANAL



CONTEXT

THESIS STRUCTURE

FINDINGS

PROPOSAL

APPROACH

CONCLUSION

CENTER OF BEVERWAARD

MAIN SQUARE



CONTEXT

THESIS STRUCTURE

FINDINGS

PROPOSAL

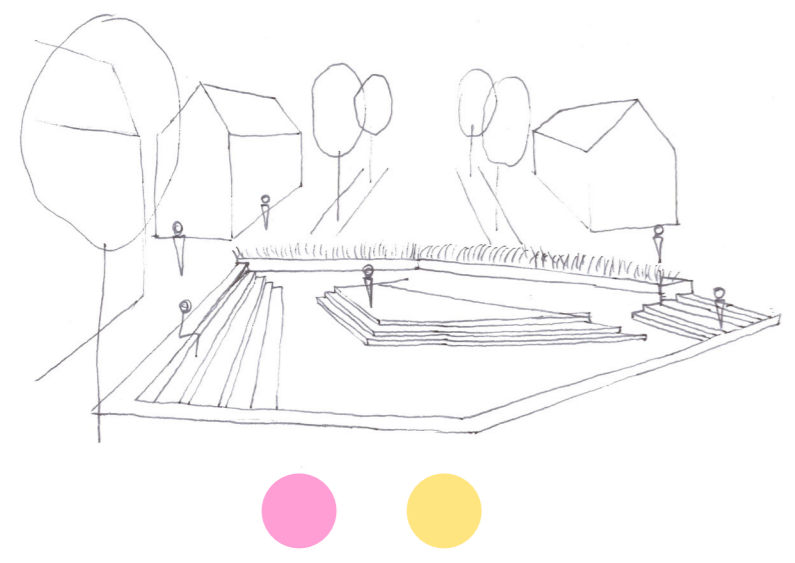
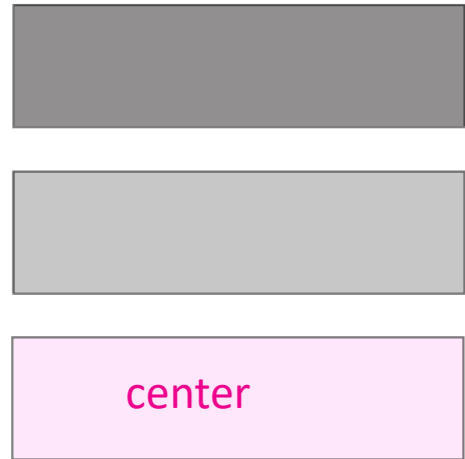
APPROACH

CONCLUSION

CENTER OF BEVERWAARD

OUDE WATERING - APPLIED FROM FOCUS GROUP

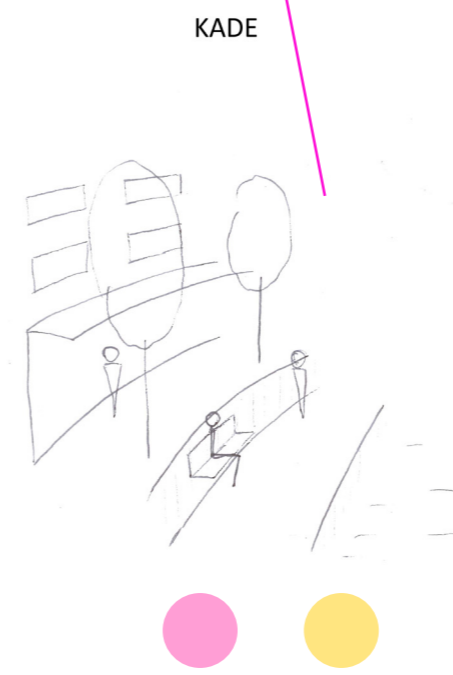
PRINCIPLE



CONTEXT

THESIS STRUCTURE

FINDINGS



PROPOSAL

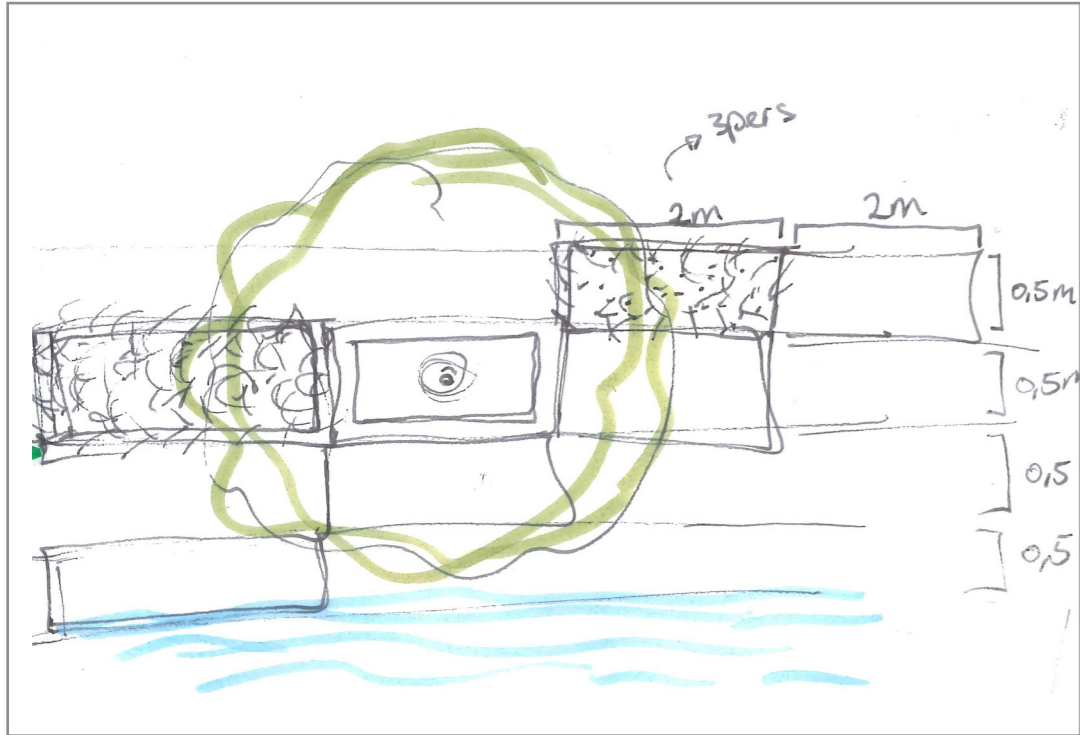
APPROACH

CONCLUSION

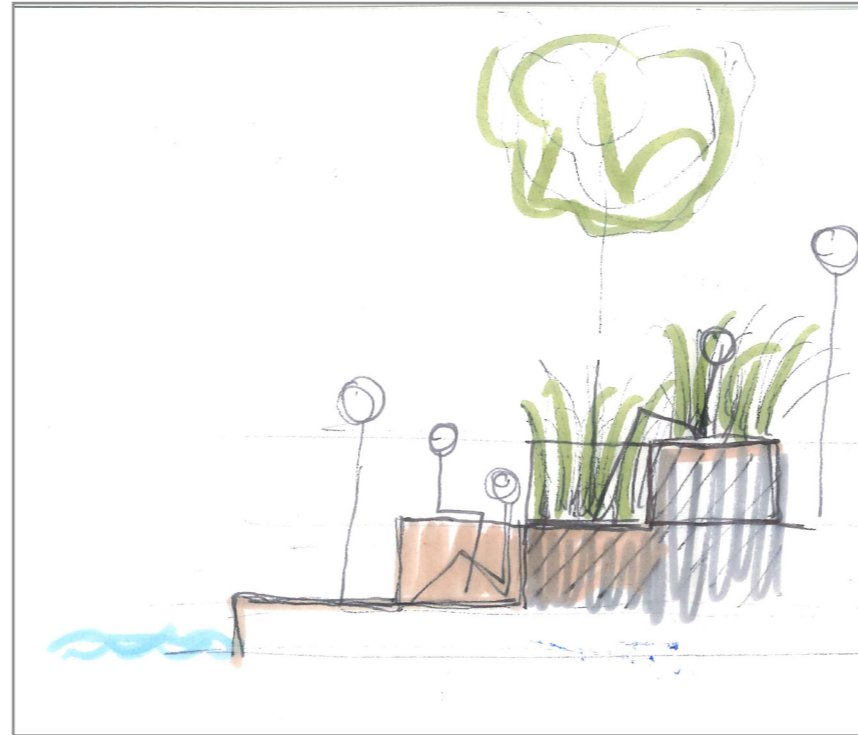
WATER SIDE

SEATING, GREEN, LOWER WATER SIDE

TOP VIEW



SIDE VIEW



FRONT VIEW



CONTEXT



THESIS STRUCTURE



FINDINGS



PROPOSAL

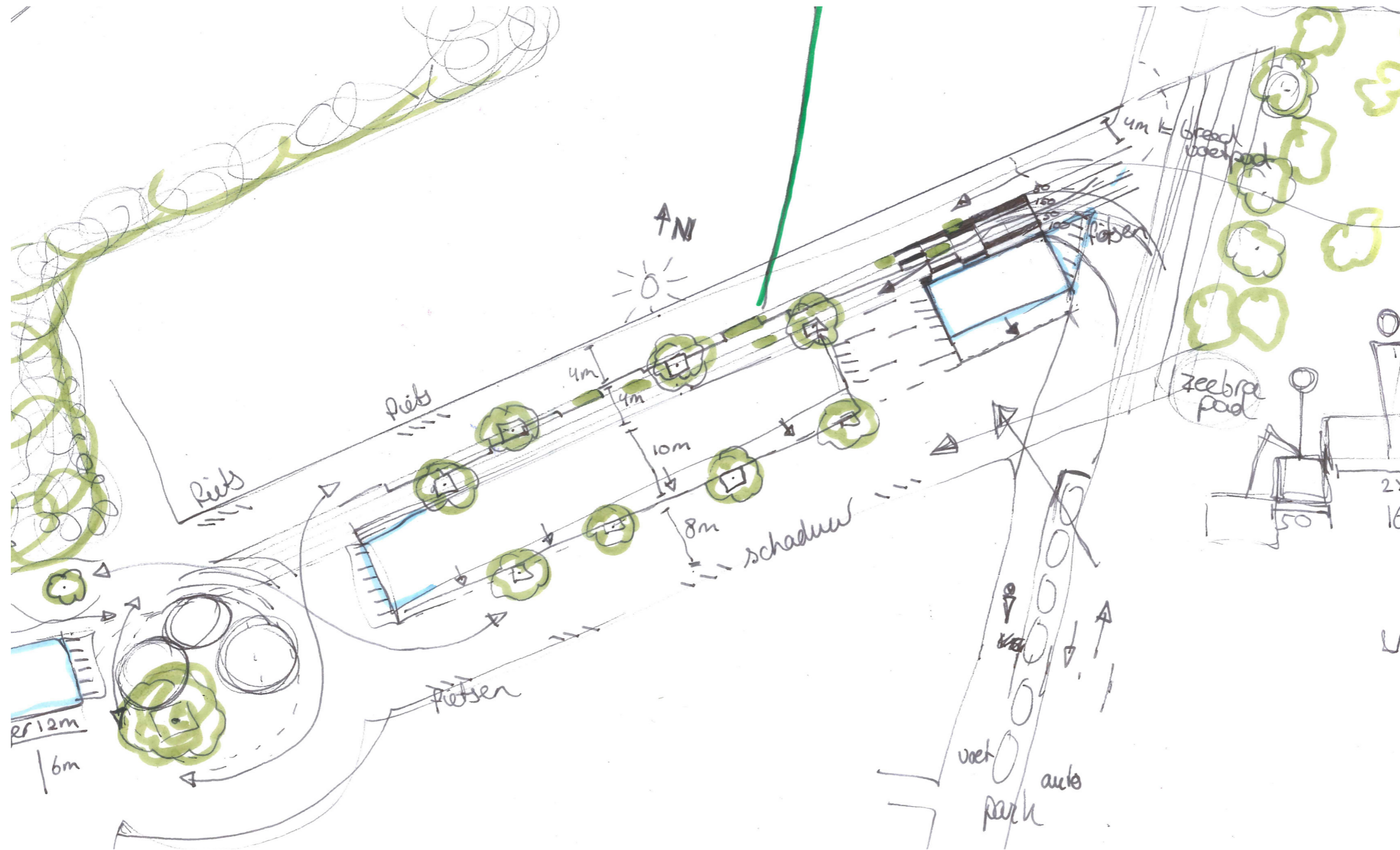


APPROACH

CONCLUSION

WATER SIDE

SEATING, GREEN, LOWER WATER SIDE

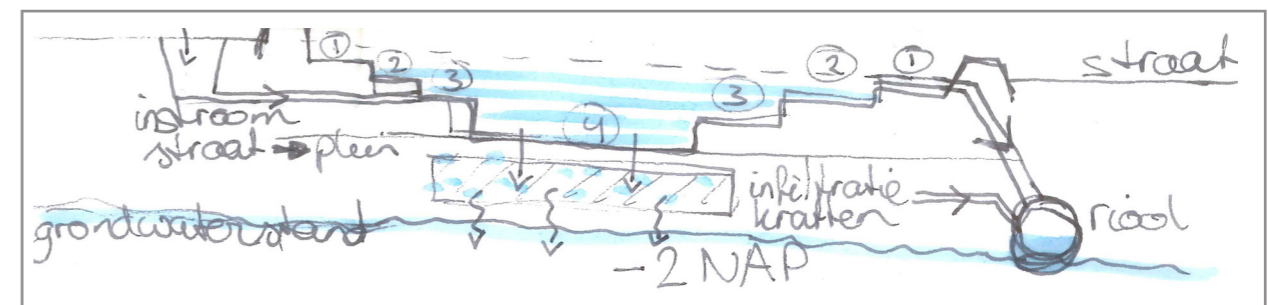
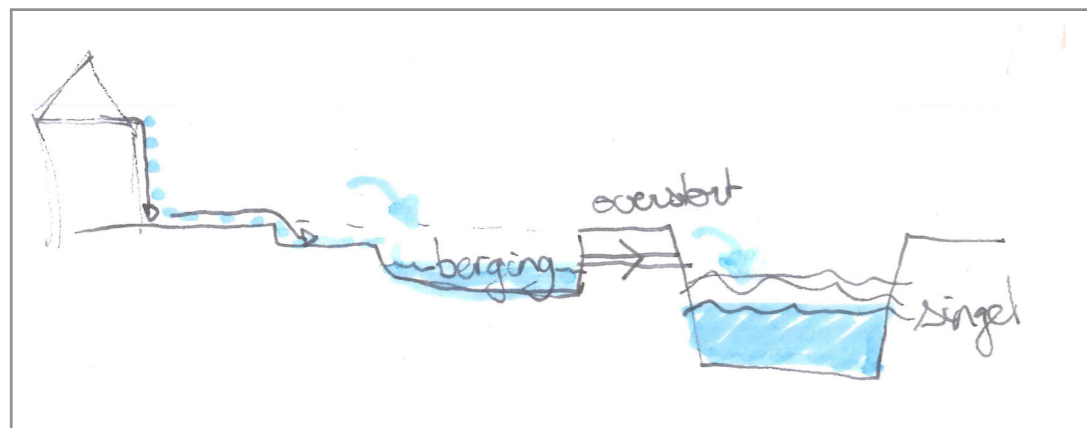


SQUARES

WATER SQUARE, MARKET SQUARE, PLAYGROUND



PRINCIPLE SECTIONS WATER SQUARE



CONTEXT

THESIS STRUCTURE

FINDINGS

PROPOSAL

APPROACH

CONCLUSION

SINGELS

MOLECATENSINGEL



CONTEXT

THESIS STRUCTURE

FINDINGS

PROPOSAL

APPROACH

CONCLUSION

SINGELS

RHIJNAUWENSINGEL



CONTEXT

THESIS STRUCTURE

FINDINGS

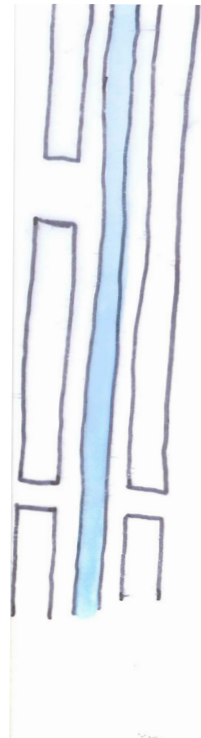
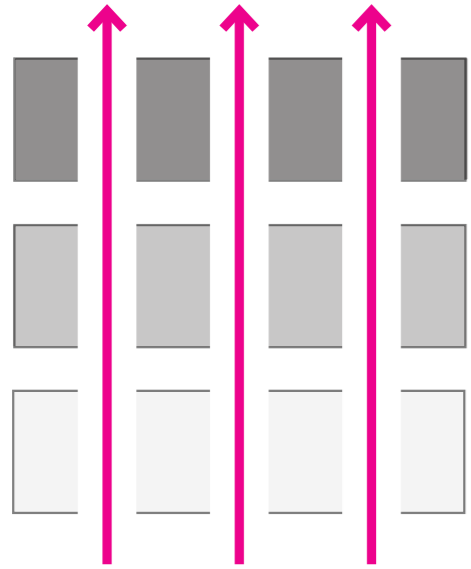
PROPOSAL

APPROACH

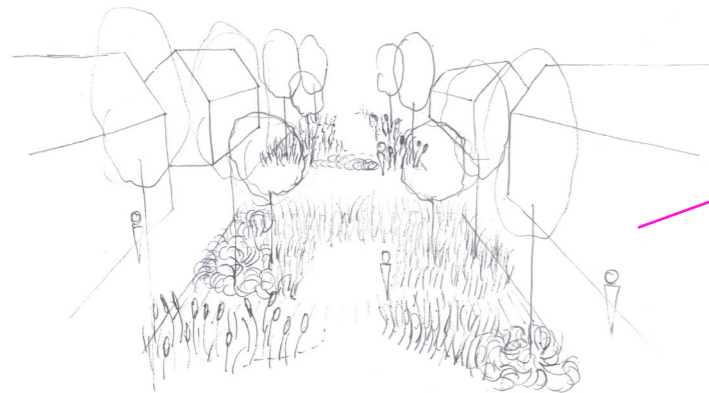
CONCLUSION

SINGELS

APPLIED FROM FOCUS GROUP



MEER GROEN



CONTEXT

THESIS STRUCTURE

FINDINGS

PROPOSAL

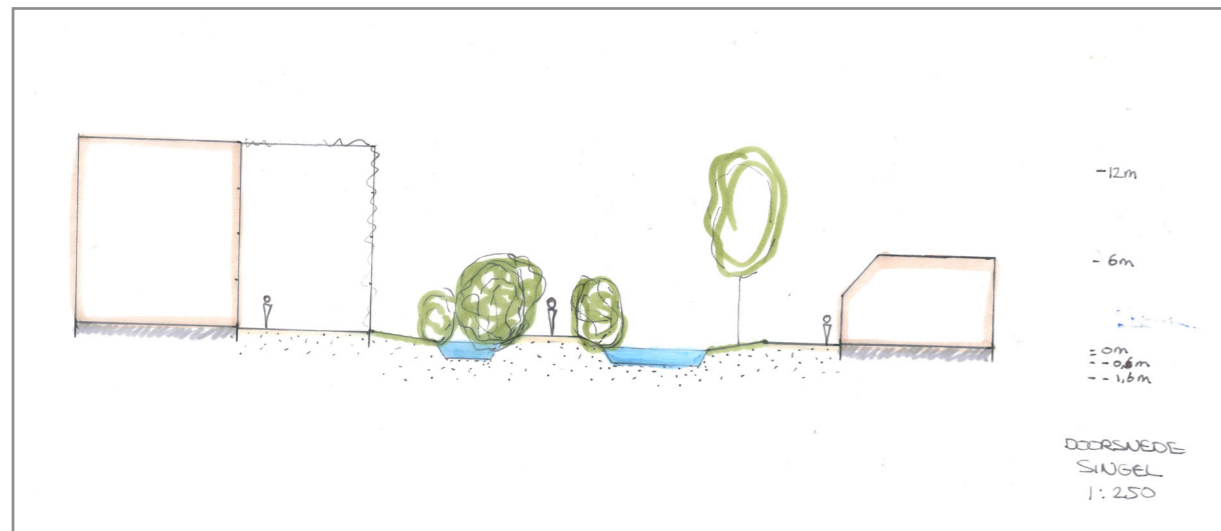
APPROACH

CONCLUSION

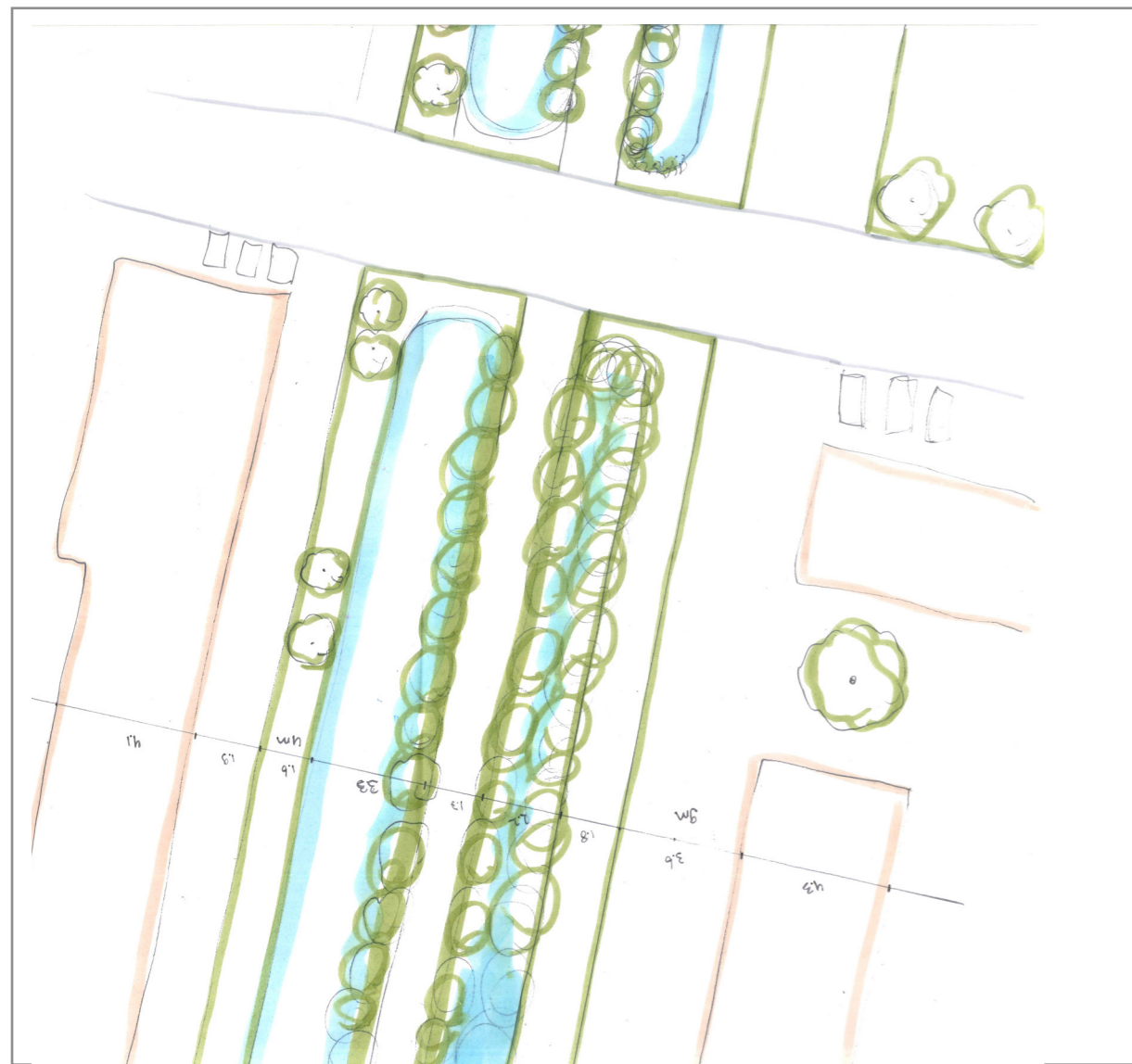
MOLECATENSINGEL

GREEN PEDESTRIAN ROUTE

SECTION



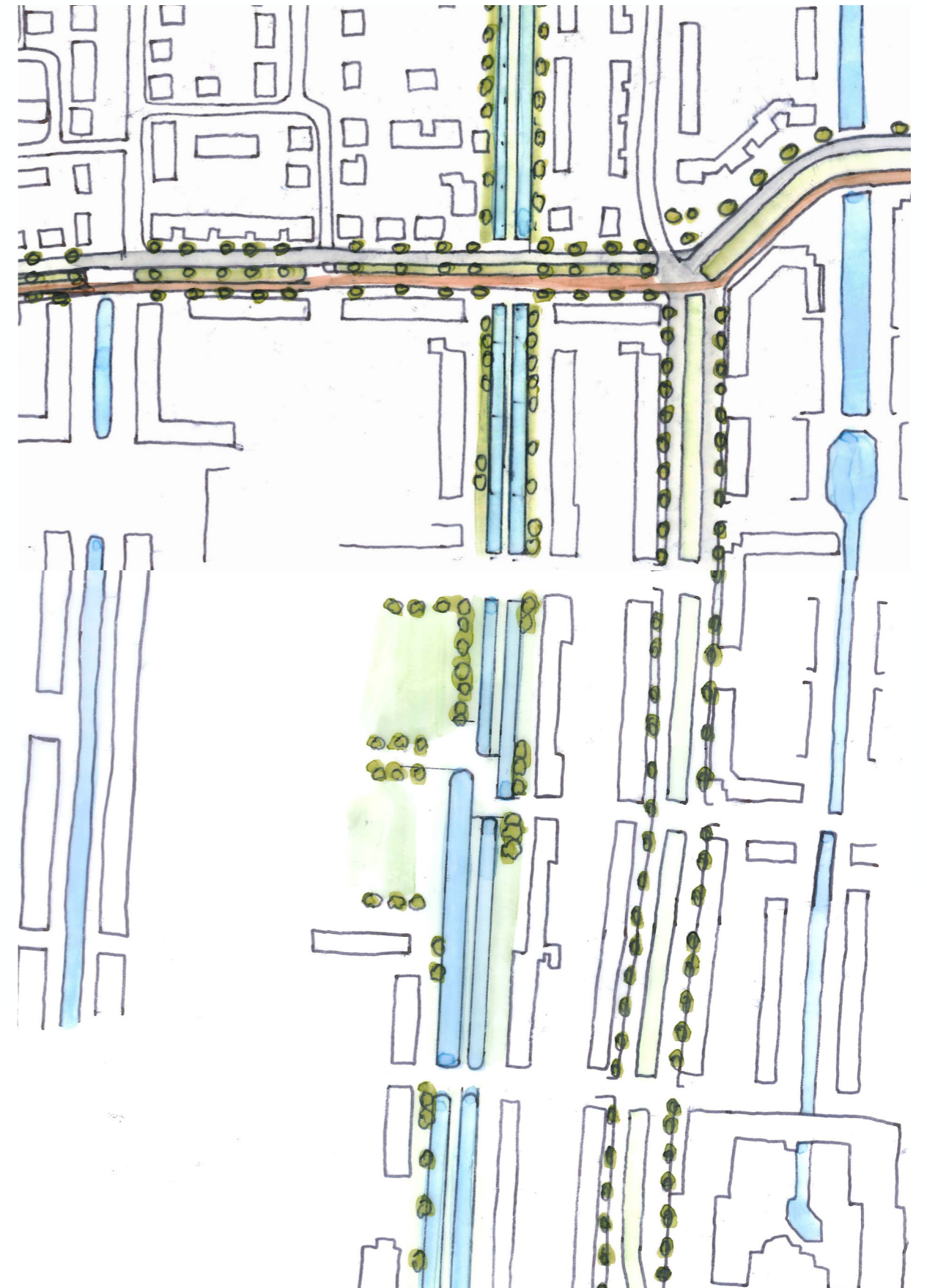
DETAIL



CONTEXT

THESIS STRUCTURE

FINDINGS



PROPOSAL

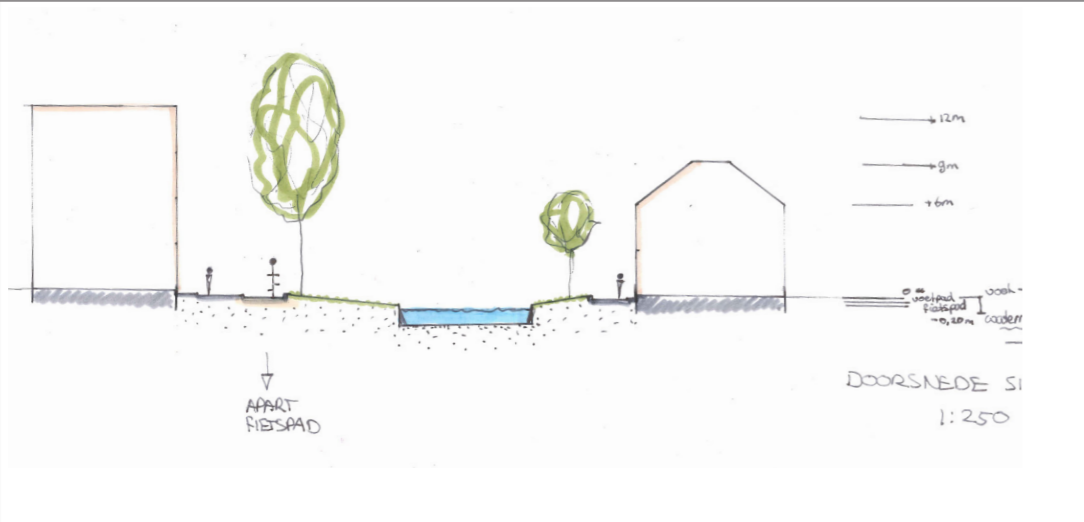
APPROACH

CONCLUSION

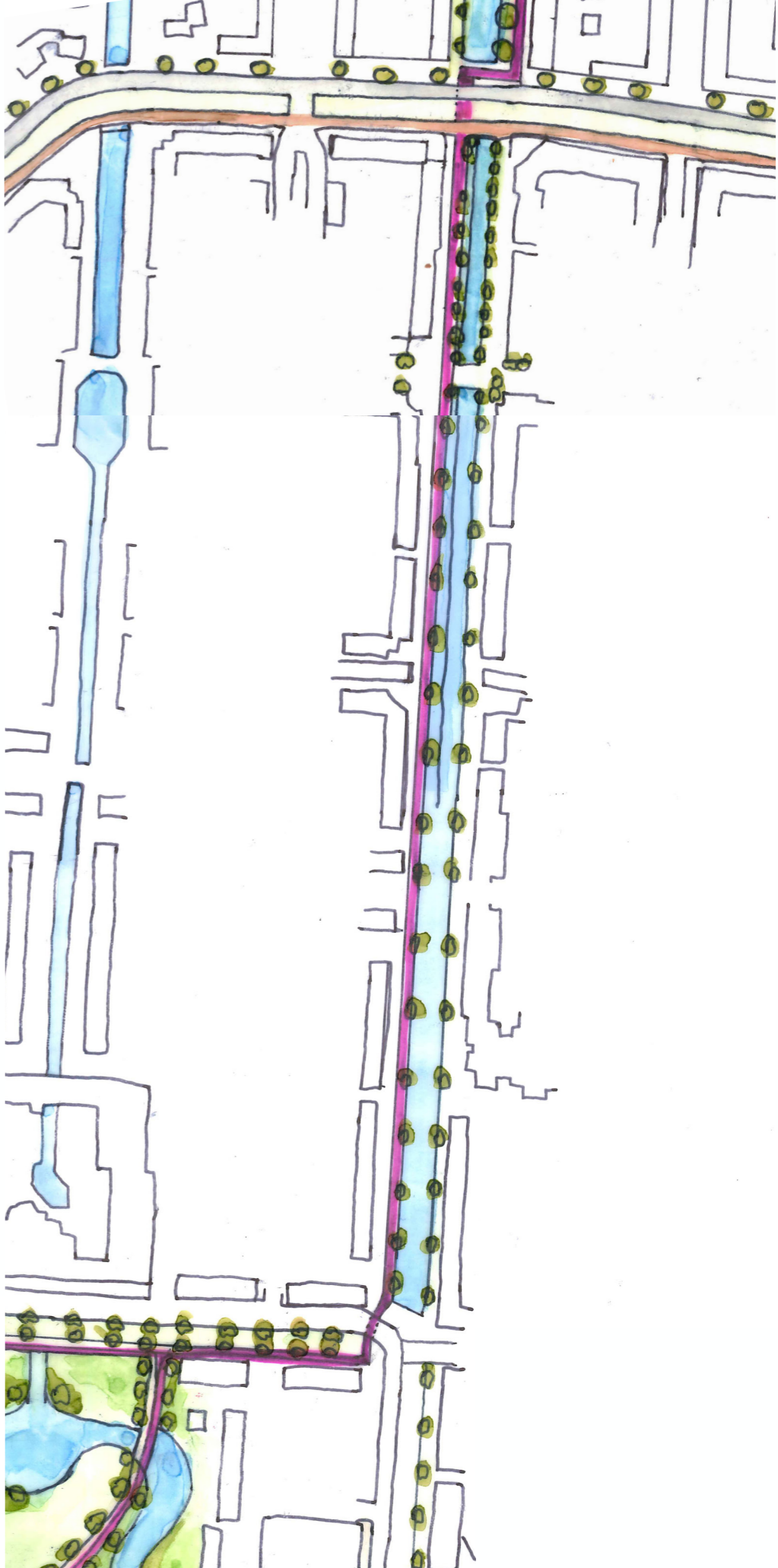
RHIJNAUWENSINGEL

BLUE CYCLING ROUTE

SECTION

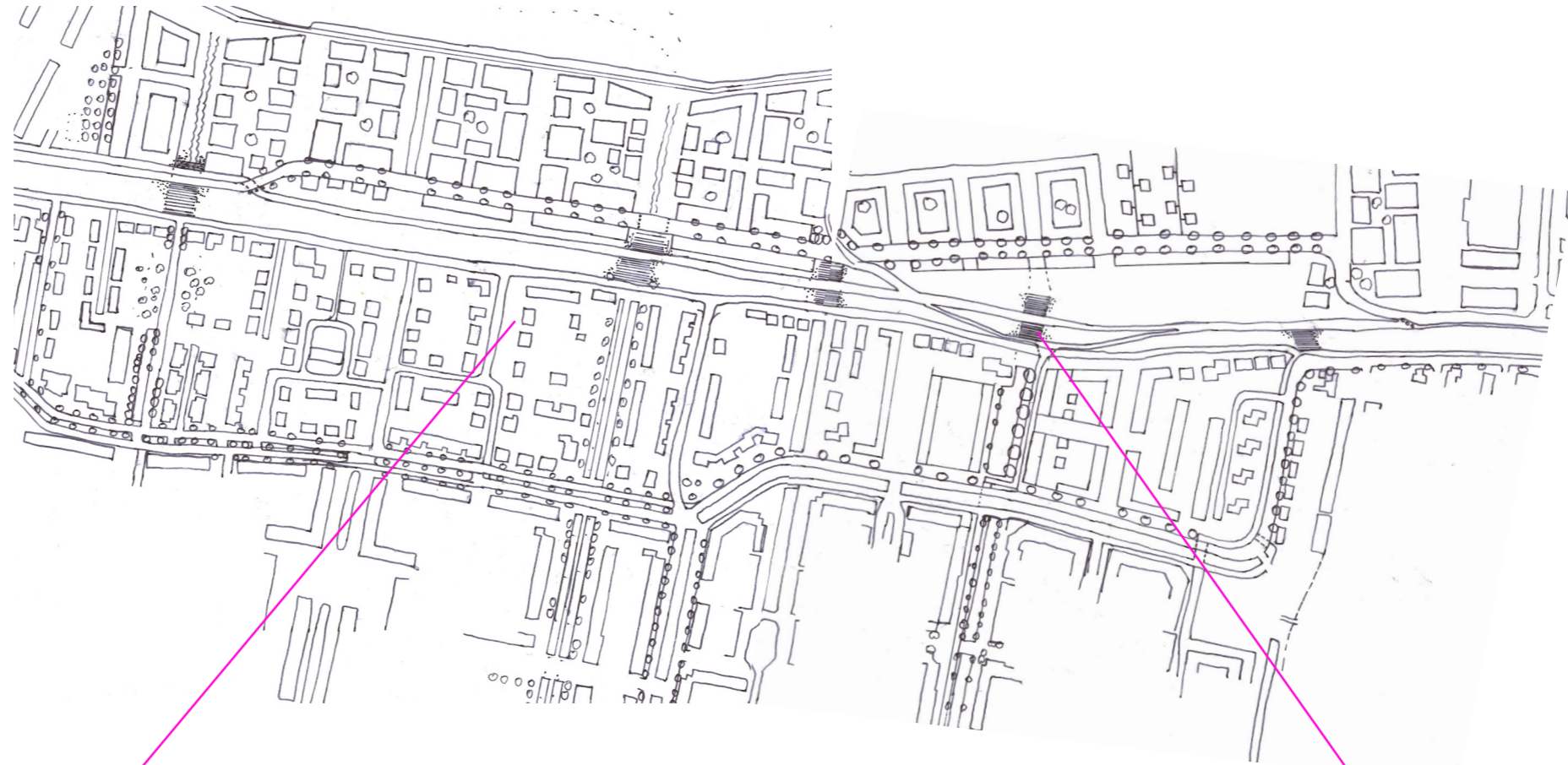
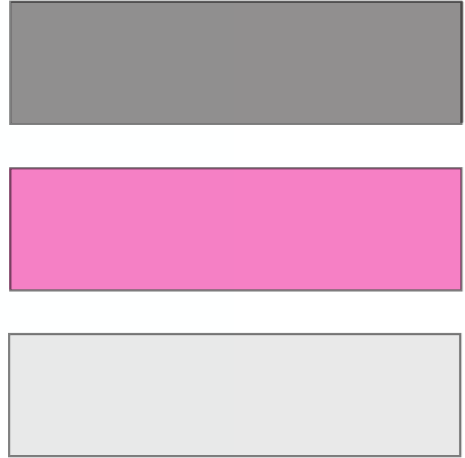


DETAIL

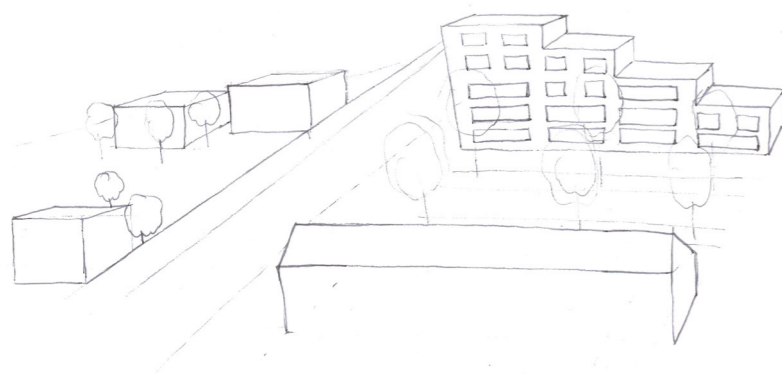


DIKE AREA

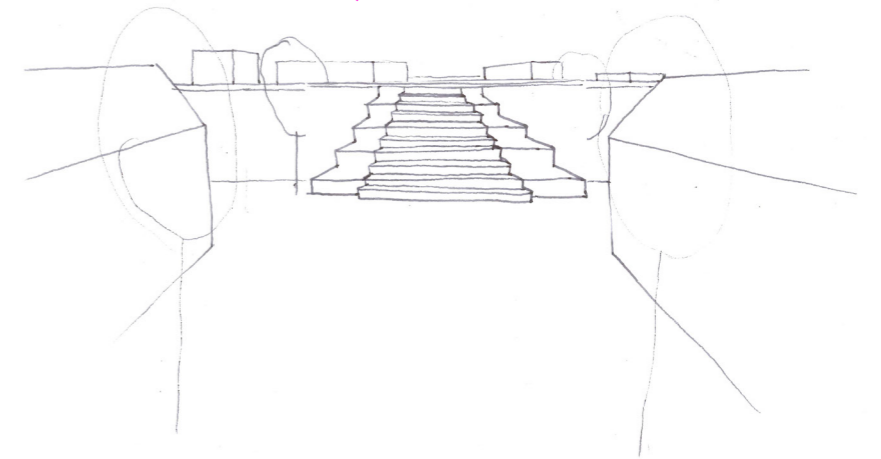
IN BETWEEN DIKE AND NEIGHBORHOOD - APPLIED FROM FOCUS GROUP



NIEUWE HOGE WONINGEN



TRAP



CONTEXT

THESIS STRUCTURE

FINDINGS

PROPOSAL

APPROACH

CONCLUSION

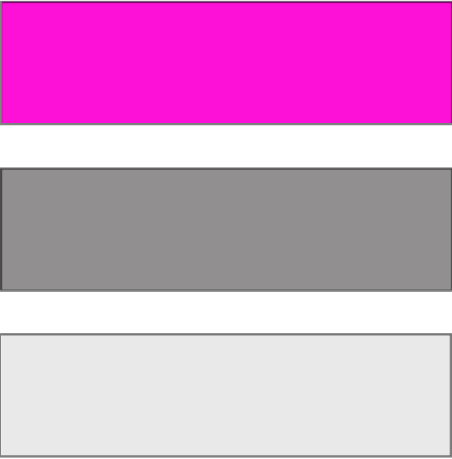
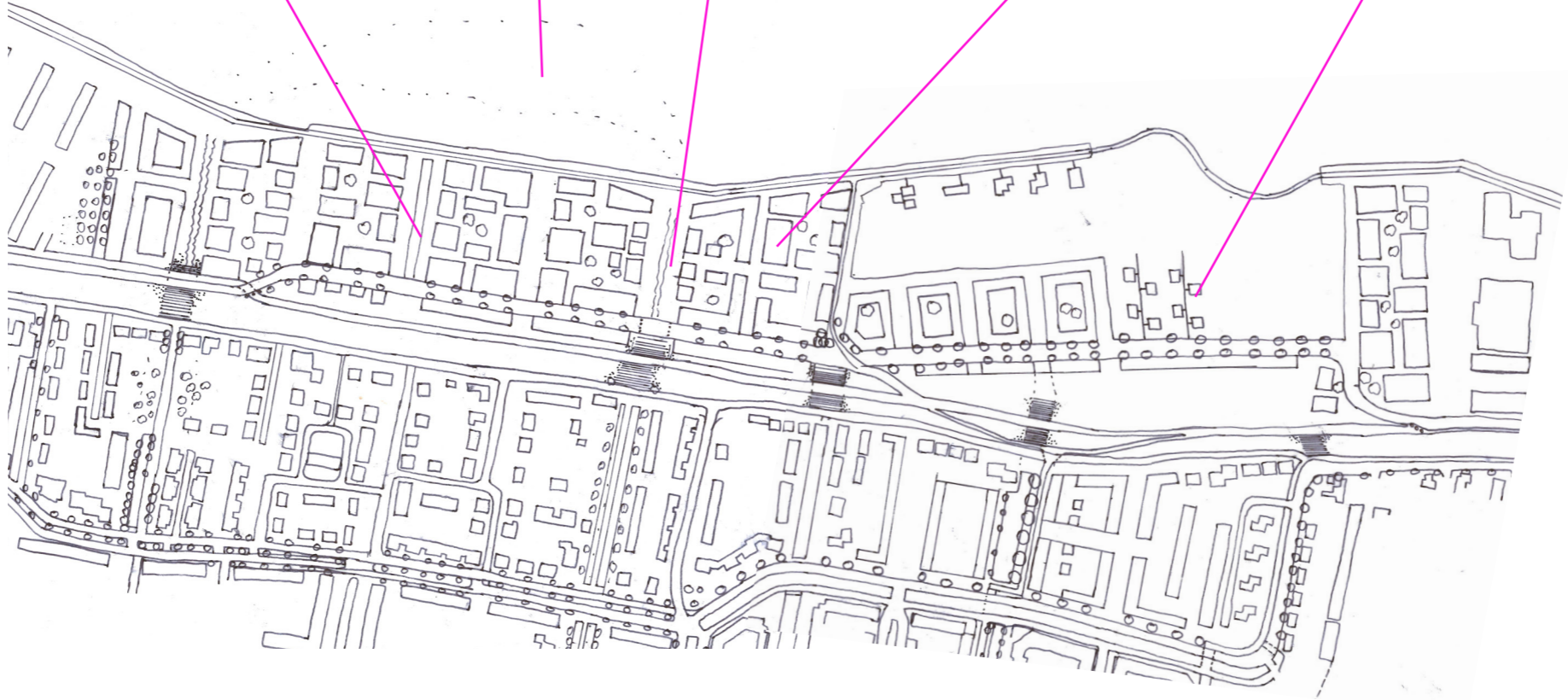
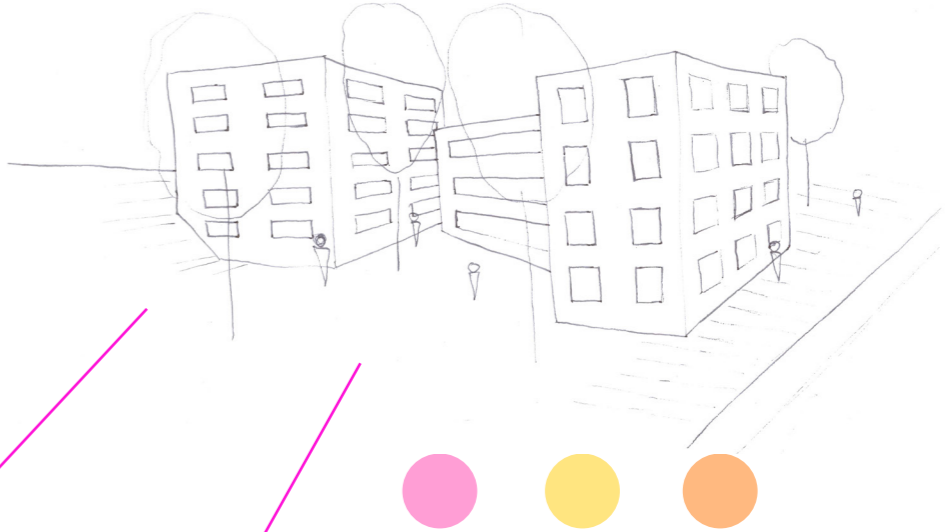
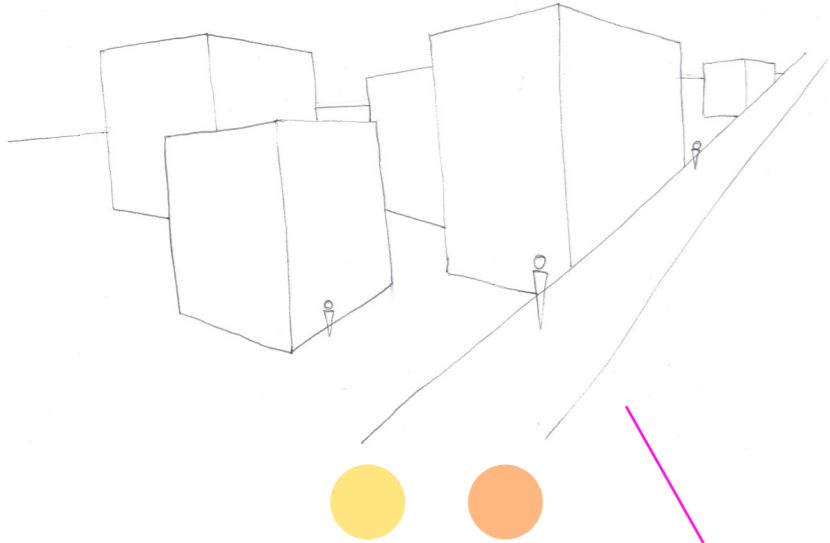
RIVER AREA

OUTSIDE DIKE - APPLIED FROM FOCUS GROUP

SLOOP VERVALLEN INDUSTRIE

RECREATIE AAN RIVIER

WONEN AAN DE RIVIER



CONTEXT

THESIS STRUCTURE

FINDINGS

PROPOSAL

APPROACH

CONCLUSION

RIVER AREA

TIDAL PARK AND NEW INFRASTRUCTURE



CONTEXT

THESIS STRUCTURE

FINDINGS

PROPOSAL

APPROACH

CONCLUSION

RIVER AREA

CYCLE ROUTE AND HOUSING



DESIGN INTERVENTIONS LINKED TO FINDINGS

THREE MAIN ACTORS

WATER CHALLENGES
water adaptation,
retention, and storage



DESIGN INTERVENTIONS

Water square
Make canal Oude Watering wider
More water ponds in the park
More green in the shopping area
More green along the Molecatensingel
Making the Rhijnauwensingel wider
Extend the singels in the area before the dike
Realizing water boulevards in the river area
Tidal park in the river

OUTCOME

Water storage
Water storage
Water storage
Water retention
Water retention
Water storage
Water storage
Water storage
Water retention
Water retention
Give water space

BOTTOM-UP DEMANDS
adapt plans to demands
of local citizens



Seating in shopping area
Market square
Water square
Play ground
Cycle path
Pedestrian path
Cycle route along river
Tidal park

Participation
Attractive
Attractive
Attractive
Connectivity
Connectivity
Connectivity and recreation
Recreation

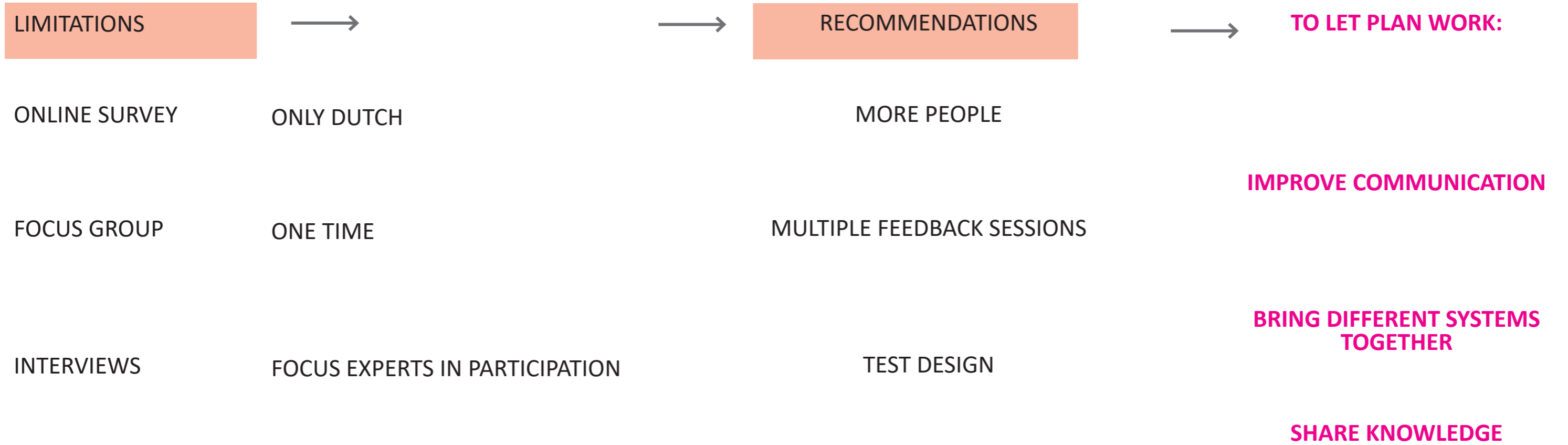
MUNICIPALITY VISION
translate vision into
concrete goals



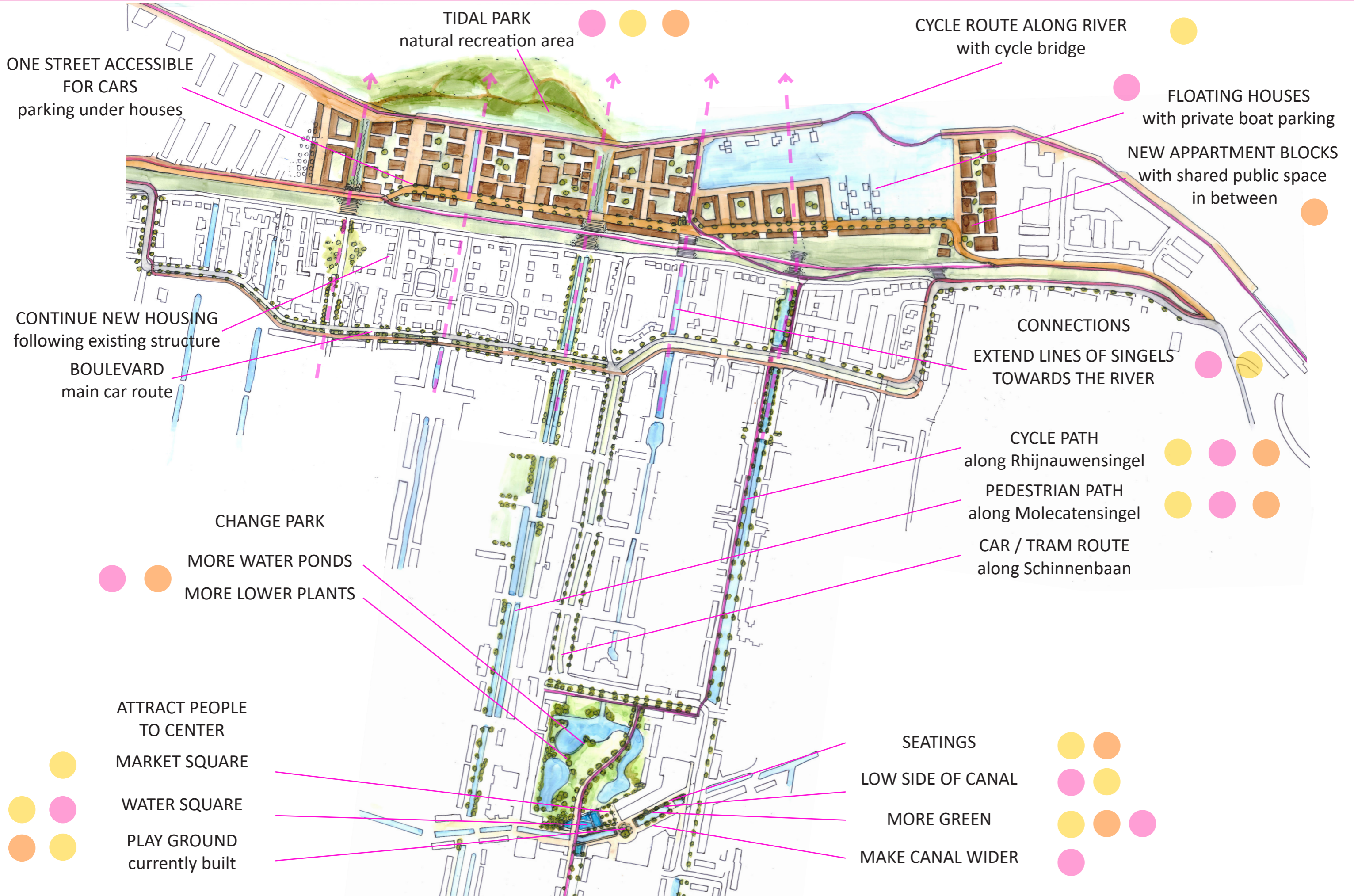
New housing
Cycle path along singel
Pedestrian path along singel
Seatings shopping area
More green in park and shopping area
Tidal park

Housing vision
Connectivity
Connectivity
Attractive
Attractive
Sustainability

RECOMMENDATIONS



FINAL REGENERATION PLAN TO IMPROVE THE PUBLIC SPACE OF BEVERWAARD





NEW URBAN REGENERATION PLAN
TO IMPROVE THE PUBLIC SPACE OF BEVERWAARD