

The Big U

Design as a tool for engagement

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'Engagement by design'



WE NEED TO CHANGE THE WAY WE THINK ABOUT BLUE AND GREEN

RESILIENCE BY DESIGN MRA



BEVERWIJK
BUSINESS DOCKS

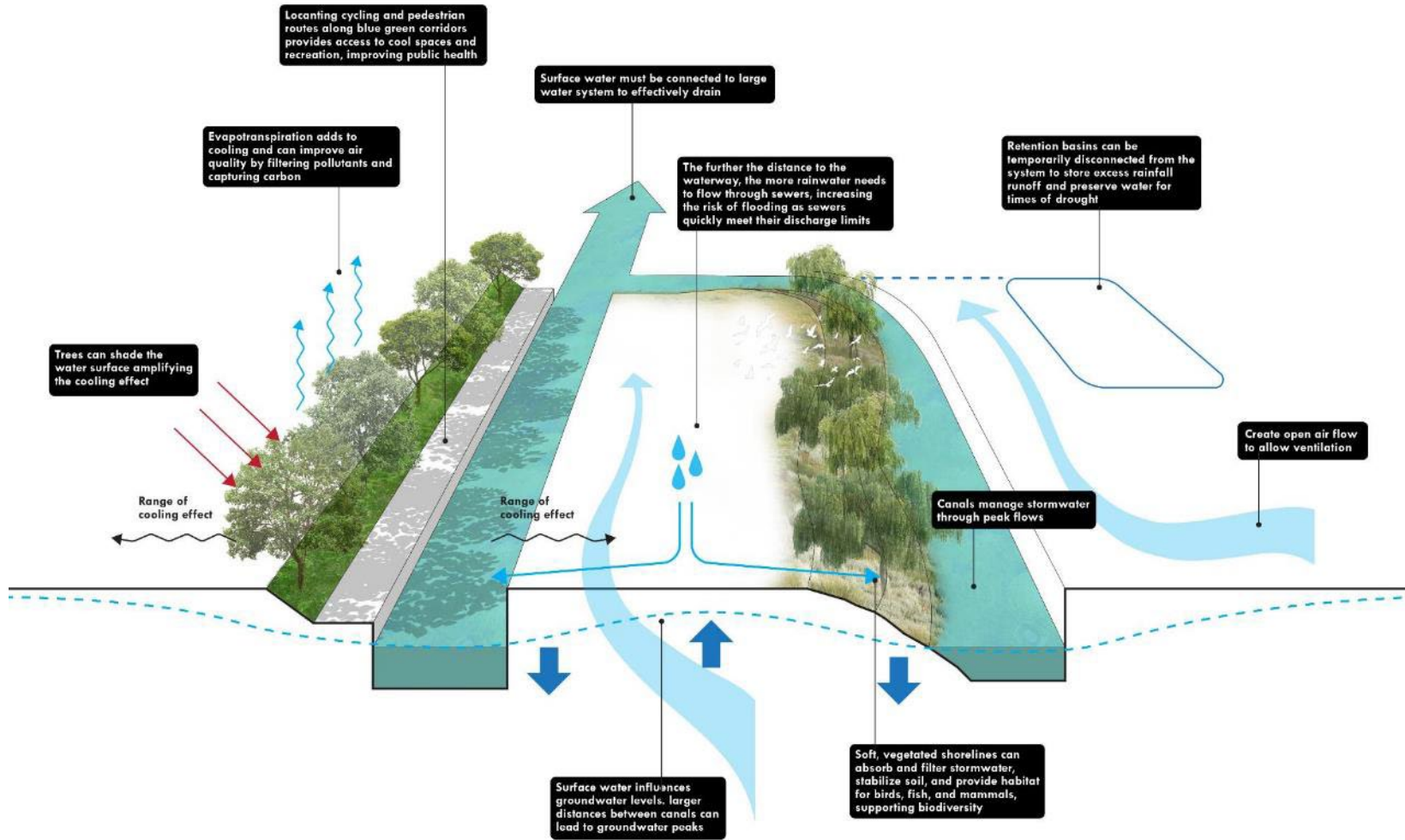
ALMERE
PAMPUS

HAARLEM
SCHALKWIJK

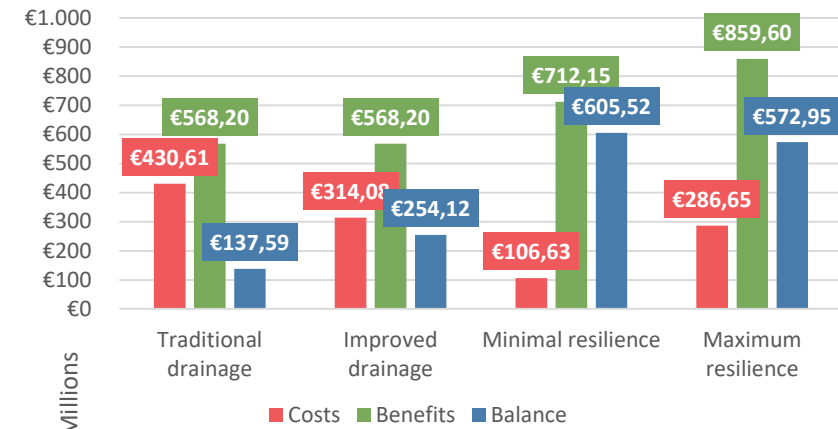
HAVEN-STAD



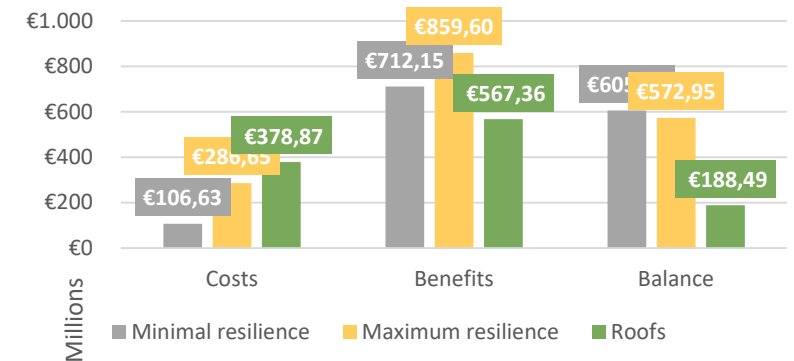
Requires additional eco-system services



Resiliency layer is cost-effective over grey infrastructure



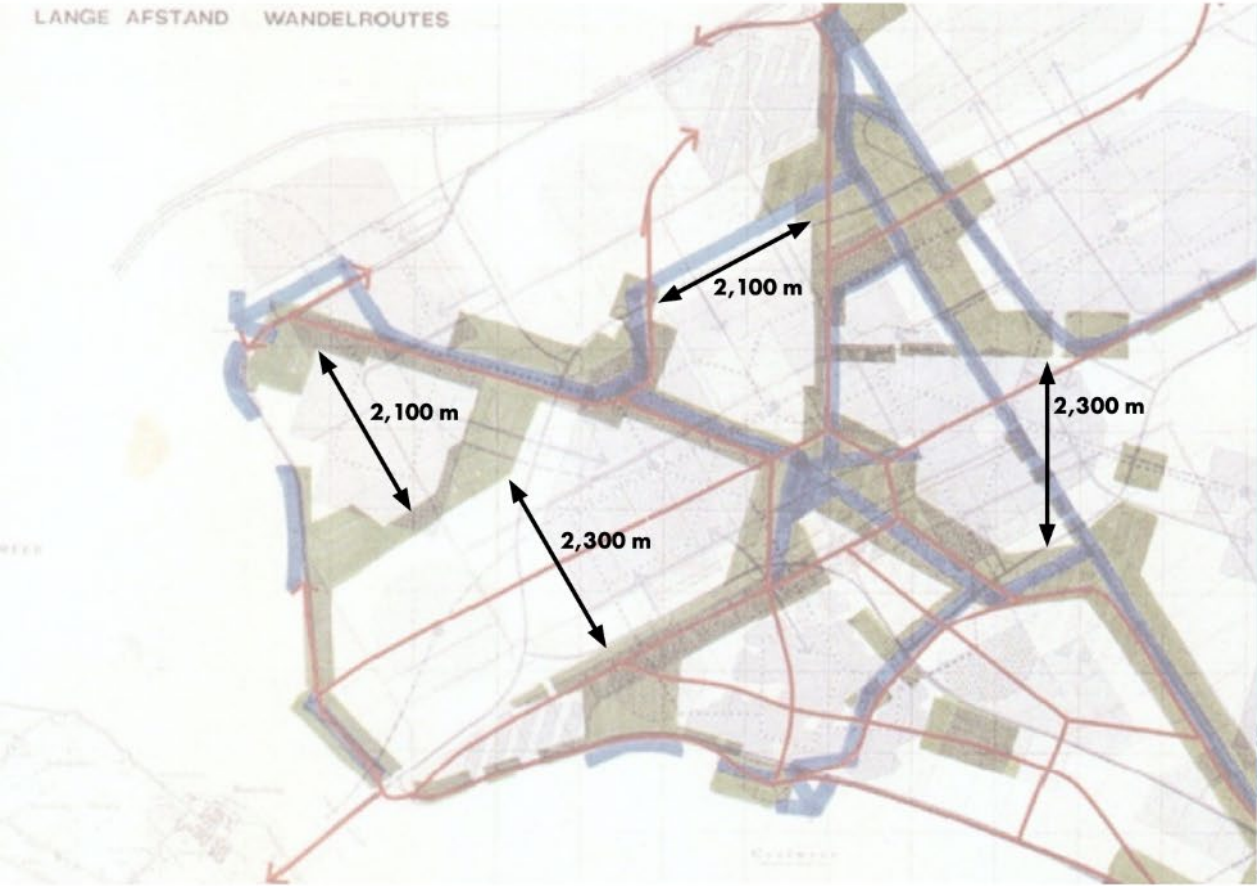
Climate adaptation measures are more cost-effective in public space than private space



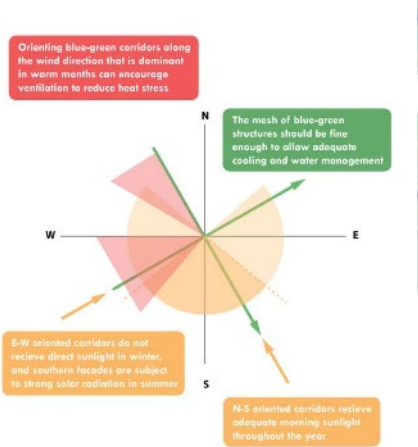
Requires a finer blue-green network mesh

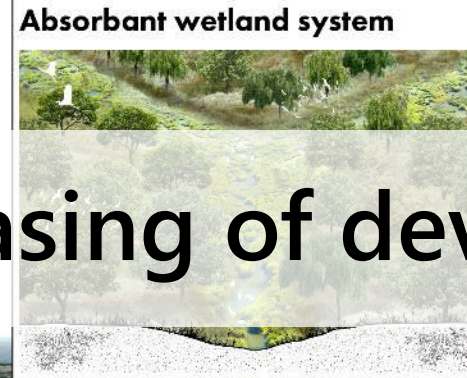
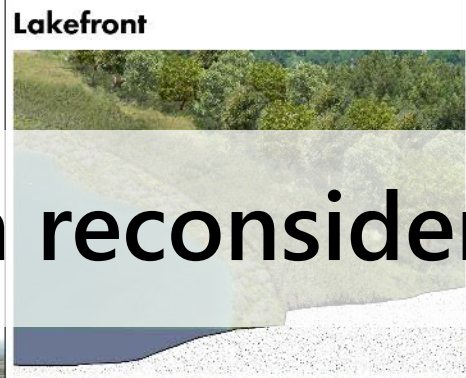
Original network of blue-green corridors

LANGE AFSTAND WANDELROUTES

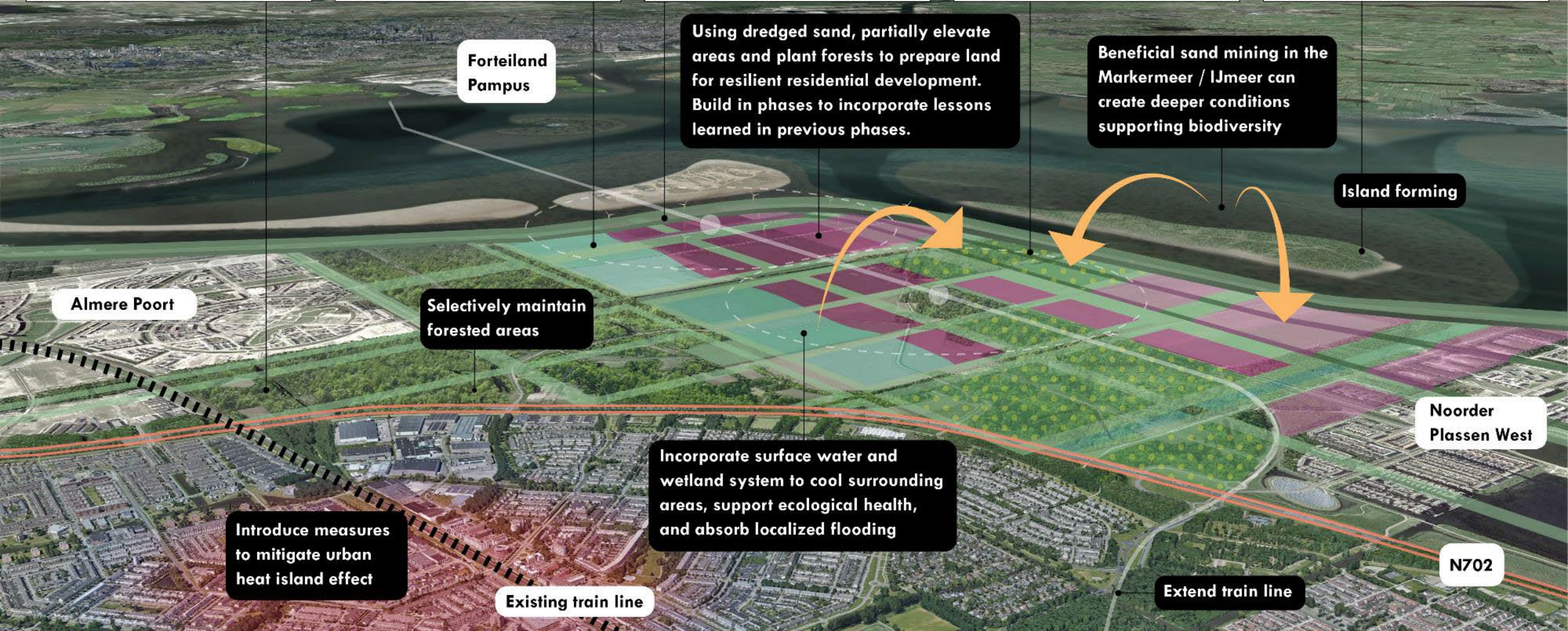


Finer blue-green network mesh



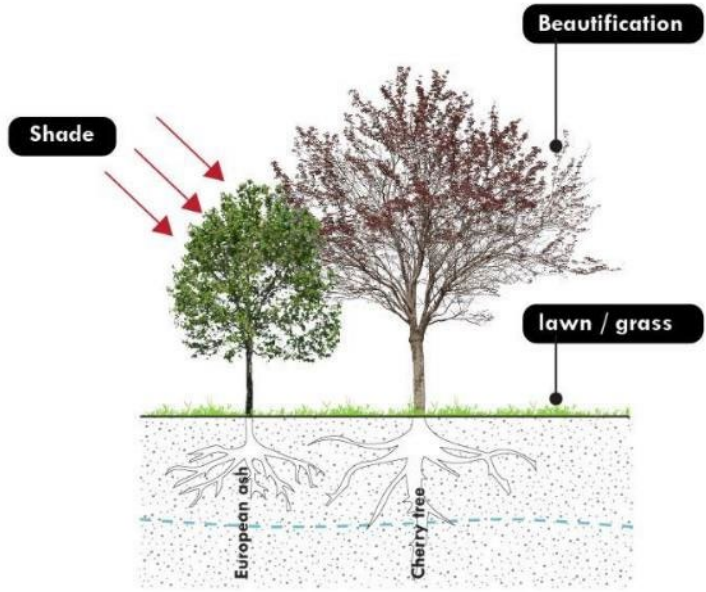


Requires a reconsideration of phasing of development

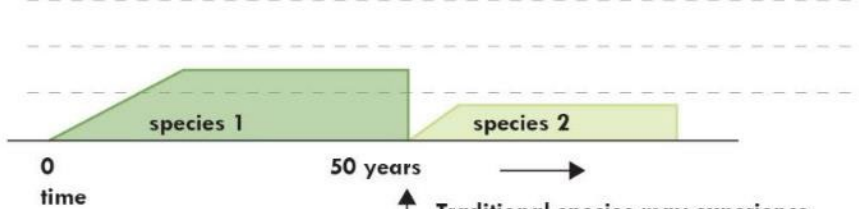


Requires rethinking of planting schemes

EXISTING TREES

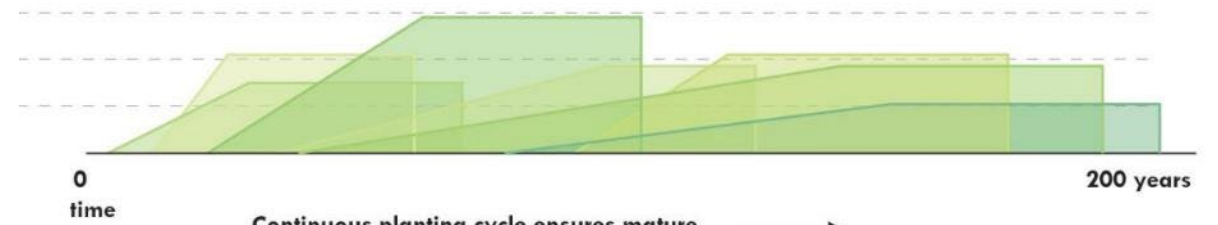
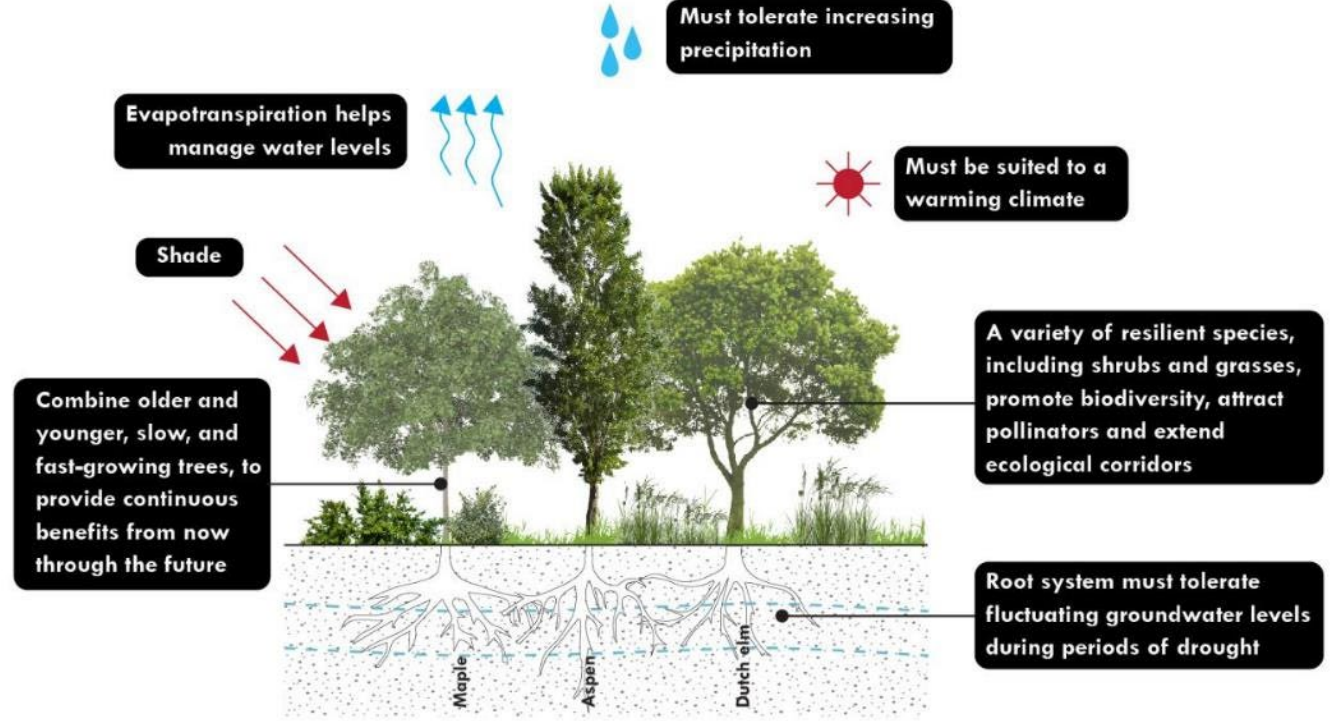


tree height



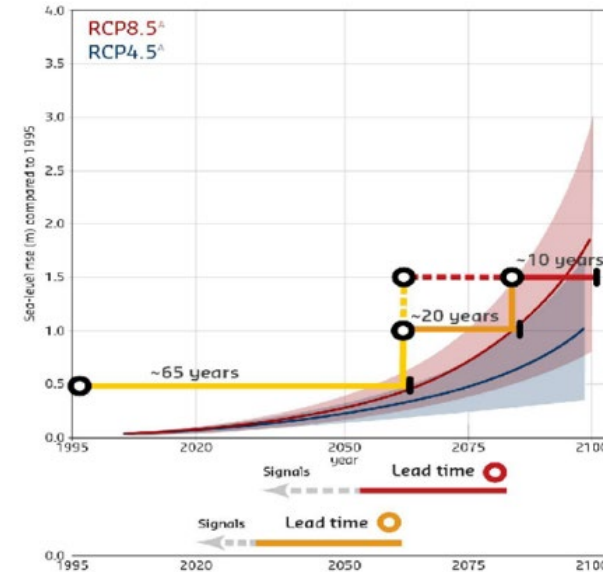
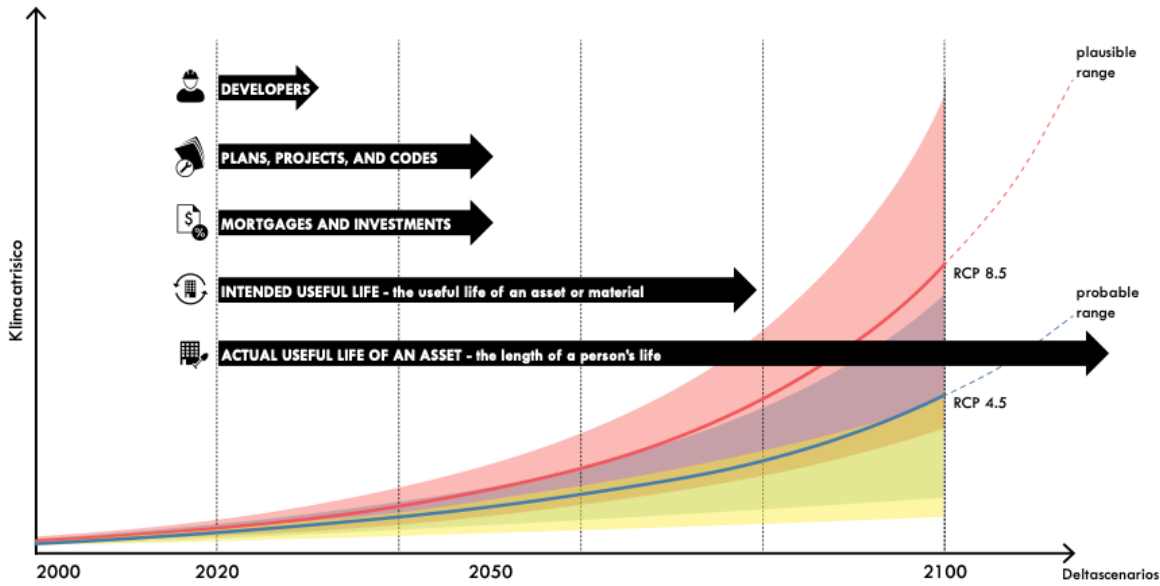
Traditional species may experience stress under climate change. Mass die-offs of monocultures

CLIMATE RESILIENT ECOLOGIES

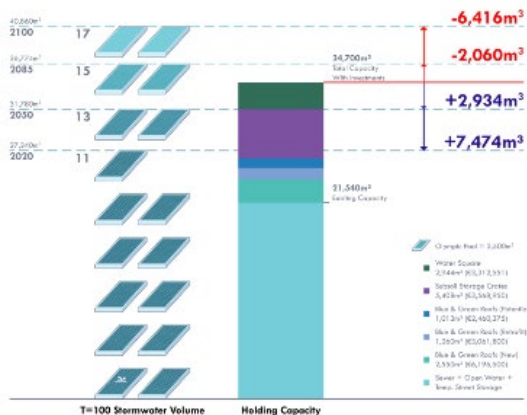


Continuous planting cycle ensures mature shade canopy and species variation over time

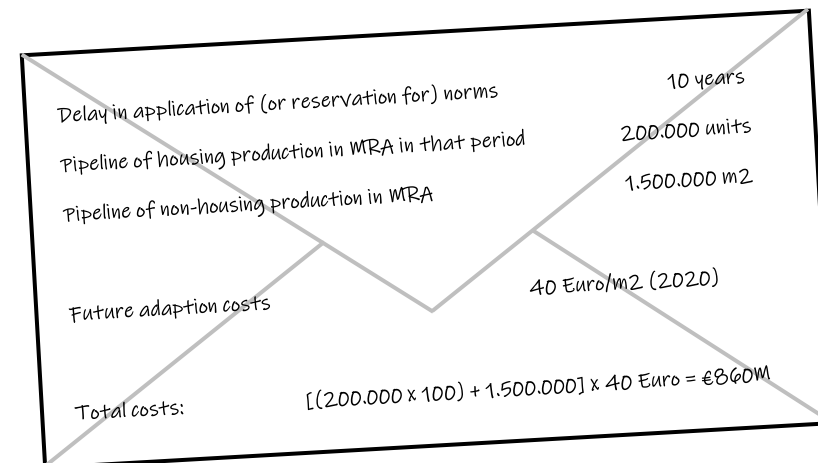
Climate change accelerates



Lifecycle of infrastructure meets a different climate reality... We have less time for implementing measures



Average Cost Per Floor Area –
€37.20/m²

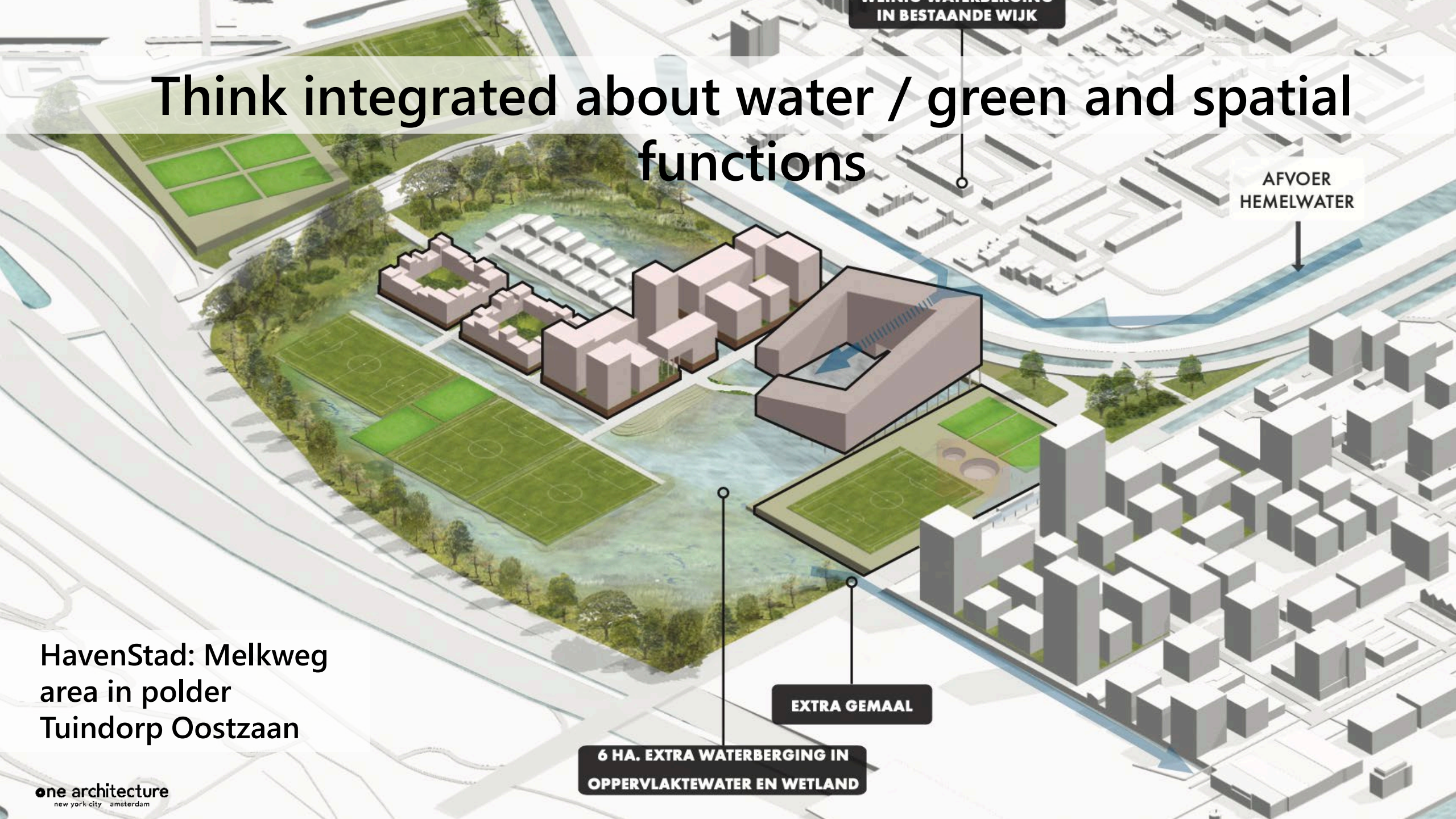


We require more space for temporary detaining water...

Otherwise cost for refitting is high and falls to public.

WE NEED TO RETHINK HOW TO USE DESIGN

Think integrated about water / green and spatial functions



IN BESTAANDE WIJK

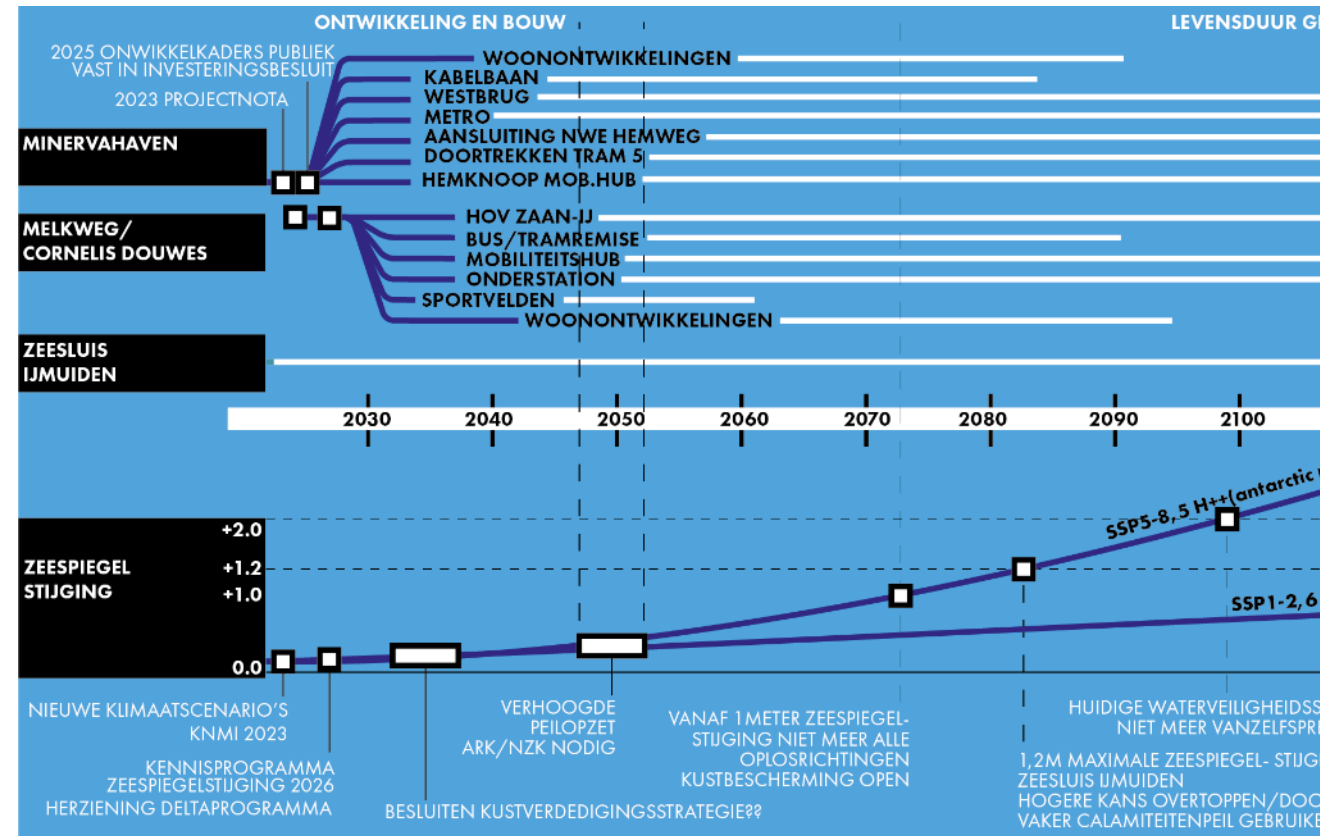
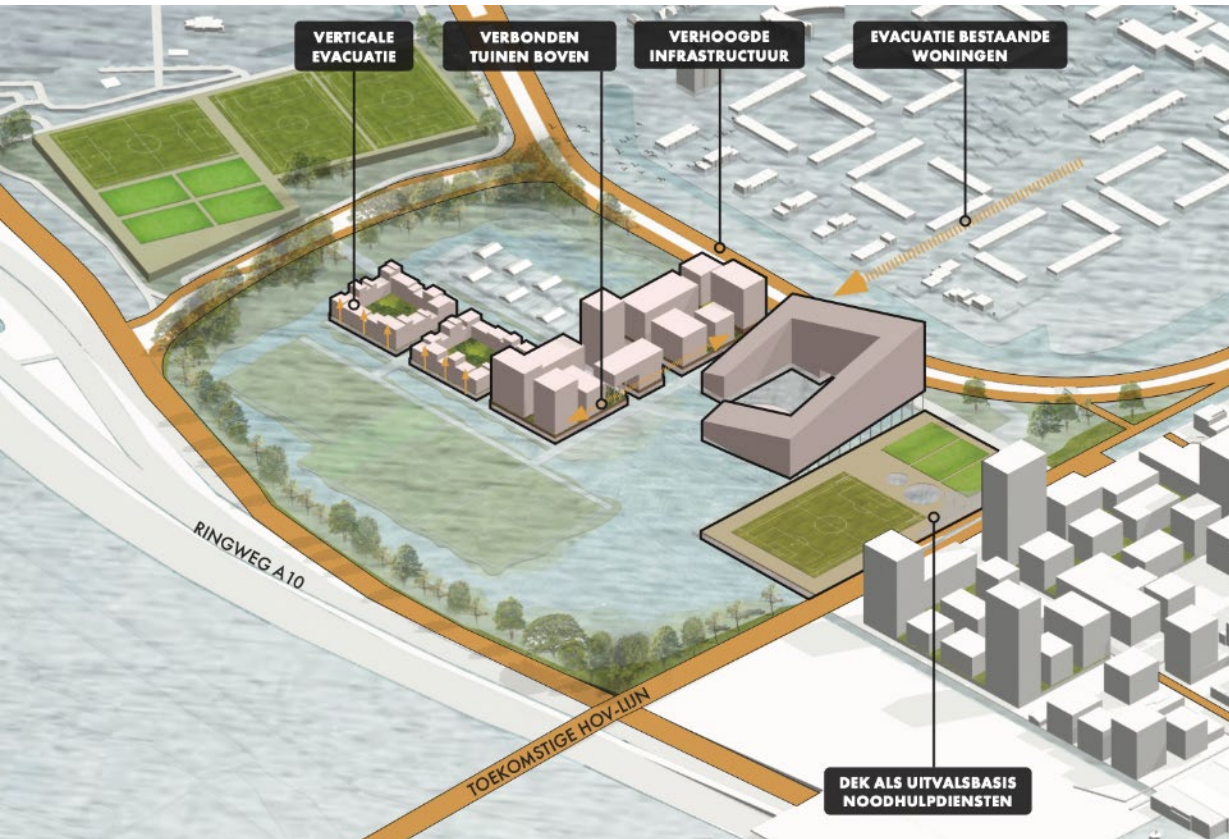
AFVOER
HEMELWATER

EXTRA GEMAAL

6 HA. EXTRA WATERBERGING IN
OPPERVLAKTEWATER EN WETLAND

HavenStad: Melkweg
area in polder
Tuindorp Oostzaan

Think integrated about process and concerns from political stakeholders



New area supports existing area during catastrophs

Use design to design the stakeholder engagement

**EAST HARLEM
RESILIENCY STUDY**





INTEGRATED FLOOD PROTECTION



SOCIAL RESILIENCY



OPEN SPACE PLANNING



EAST HARLEM IS A DIVERSE AND CHANGING NEIGHBORHOOD

Photographed by Joseph Rodriguez

FARMACIA LATINA
NOVEDADES · RECETAS · VITAMINAS

SALE POINT
Venga a donde está el sabor.
libre
ON SA ... CON RITMO

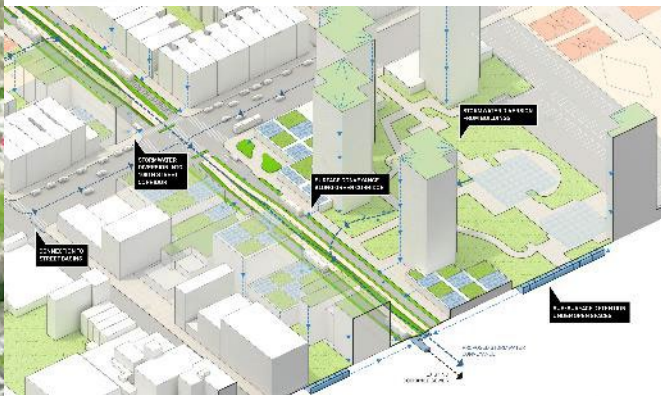
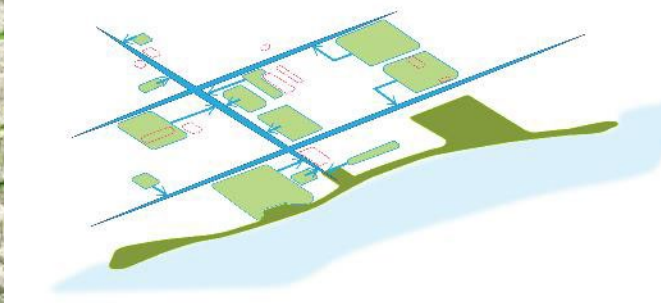
COMIDA
EXINGTO

Winston.
Lo tiene todo!

one of a kind
New York



Designing on various scales



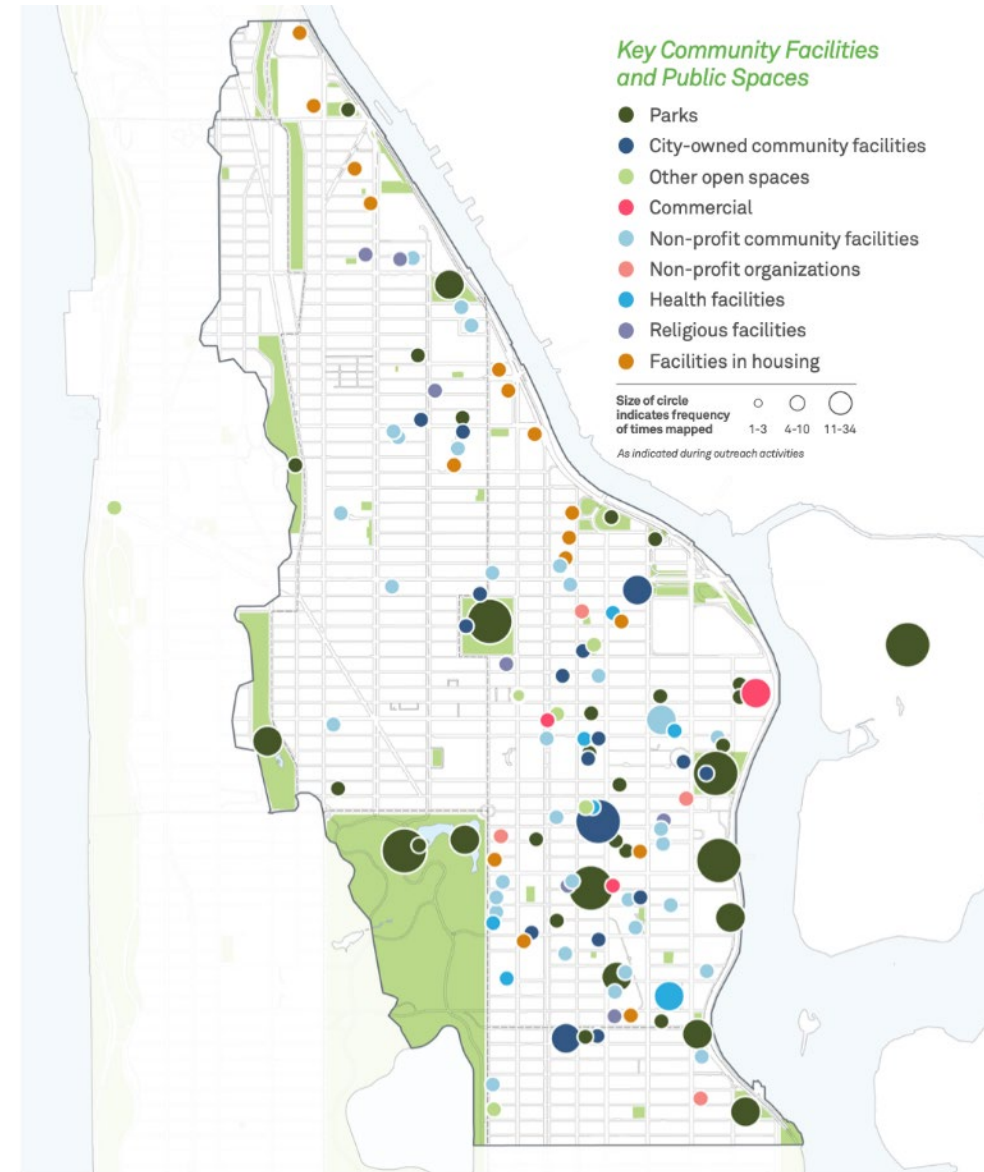
Site boundaries



SOCIAL RESILIENCY

Enabled by community organizations, public spaces, and social connections

- **Community organizations and small businesses as Resilience hubs**
- **Increase public programming and design that targets more diverse and multi-generational use of open spaces to promote social cohesion**

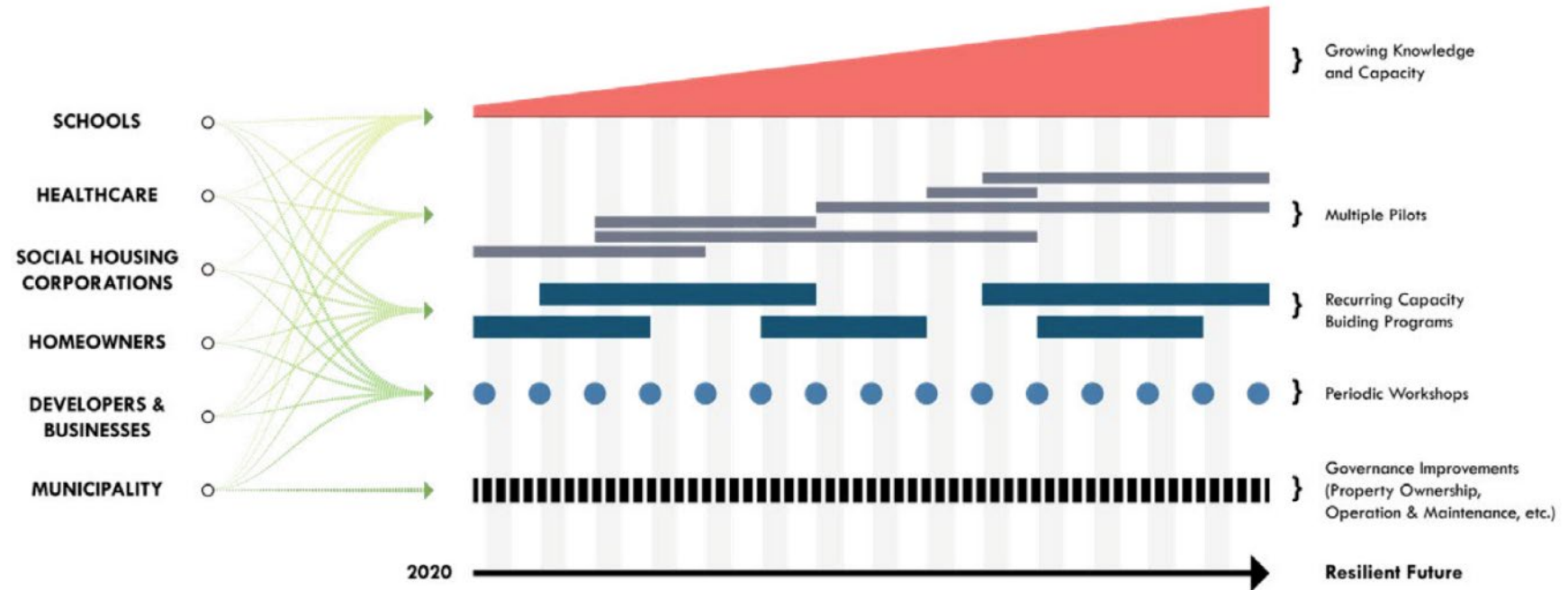


Engagement by design



We need to listen to all voices

A multi-year plan for engagement



From institutions to classrooms



**So we achieve a healthy – liveable New York City
now and in the future**

Designing the engagement In order to be good ancestor



Thank you!

More information:

<https://onearchitecture.nl>

Amsterdam Rainproof

<https://www.rainproof.nl>

Resilience by Design MRA

<https://www.metropoolregioamsterdam.nl/programma/klimaatadaptatie/resiliencebydesign/>