

# Appendix 8



## Adaptation mainstreaming for realising urban flood resilience

**dr. ir. Jeroen Rijke**

JPI Green Blue Cities Meeting, Amsterdam, 18 June 2015



# I will discuss...

... the role of 'adaptation mainstreaming' for realising urban flood resilience

... how 'adaptation mainstreaming' can be applied in practice.

... key ingredients that are required for successfully adopting 'adaptation mainstreaming'

# From adaptation planning to action



Many challenges to turn strategies into action:

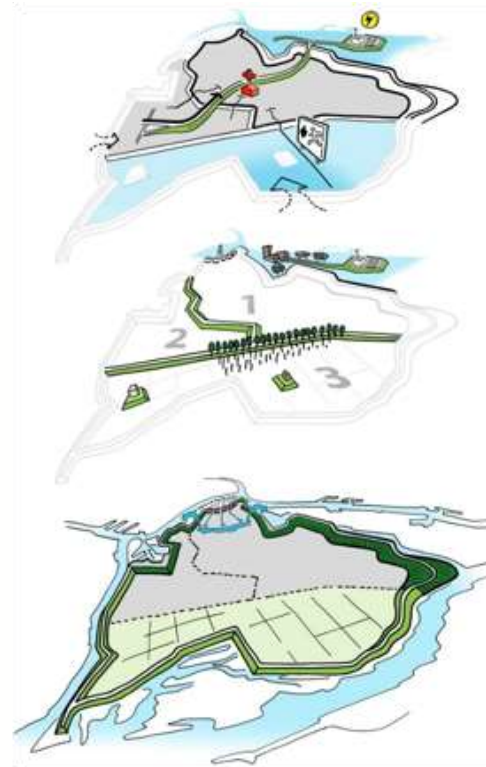
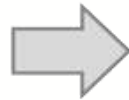
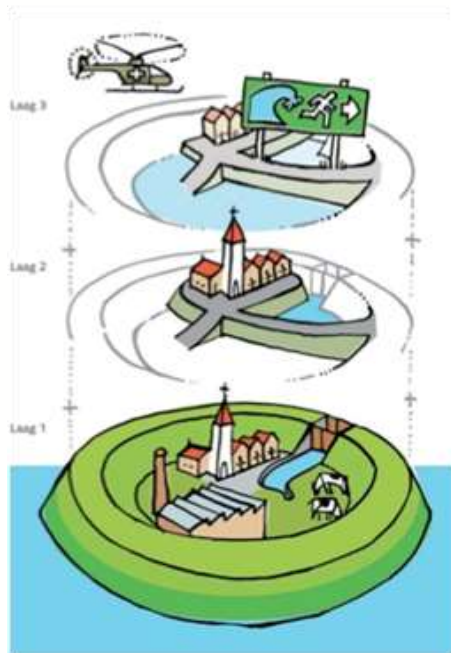
- Political sense of urgency
- Cultural
- Institutional
- Skills & competencies
- Technical
- ...
- **FINANCIAL**

# Towards urban flood resilience in Hoboken, NJ



Team OMA, 2014

# ... and in Dordrecht, NL



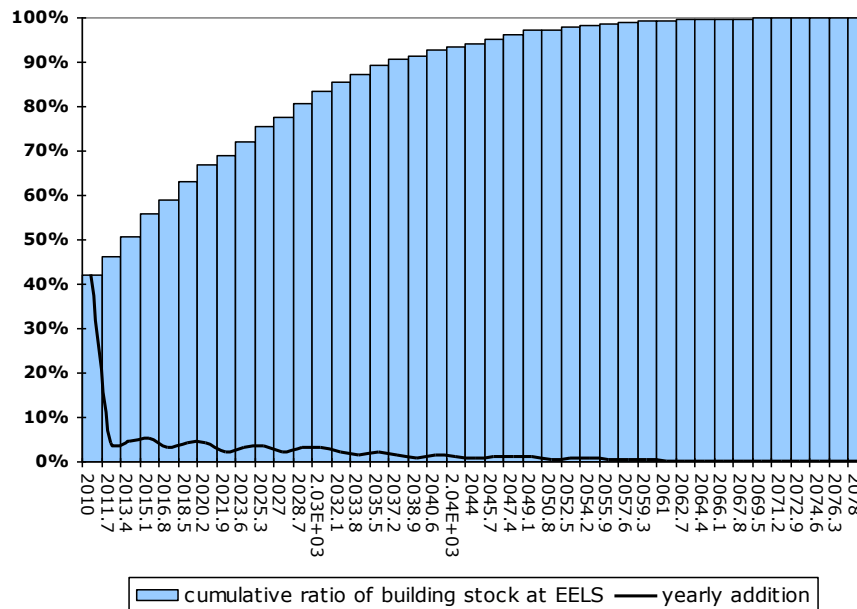
Preparedness

Prevention

Protection

# The 'adaptation mainstreaming' approach

Using planned projects, such as the (re-)development of buildings, infrastructure, urban areas, nature and recreation areas, as opportunities to integrate adaptation measures so that added societal values can be achieved against relatively low cost.



Deltares & UNESCO-IHE, 2010

© CRC for Water Sensitive Cities 2012

# Hafencity, Hamburg



Adaptation (flood proofing) measures conditional for new developments

# Rijnhaven, Rotterdam



Making adaptation conditional for urban development does not always work.

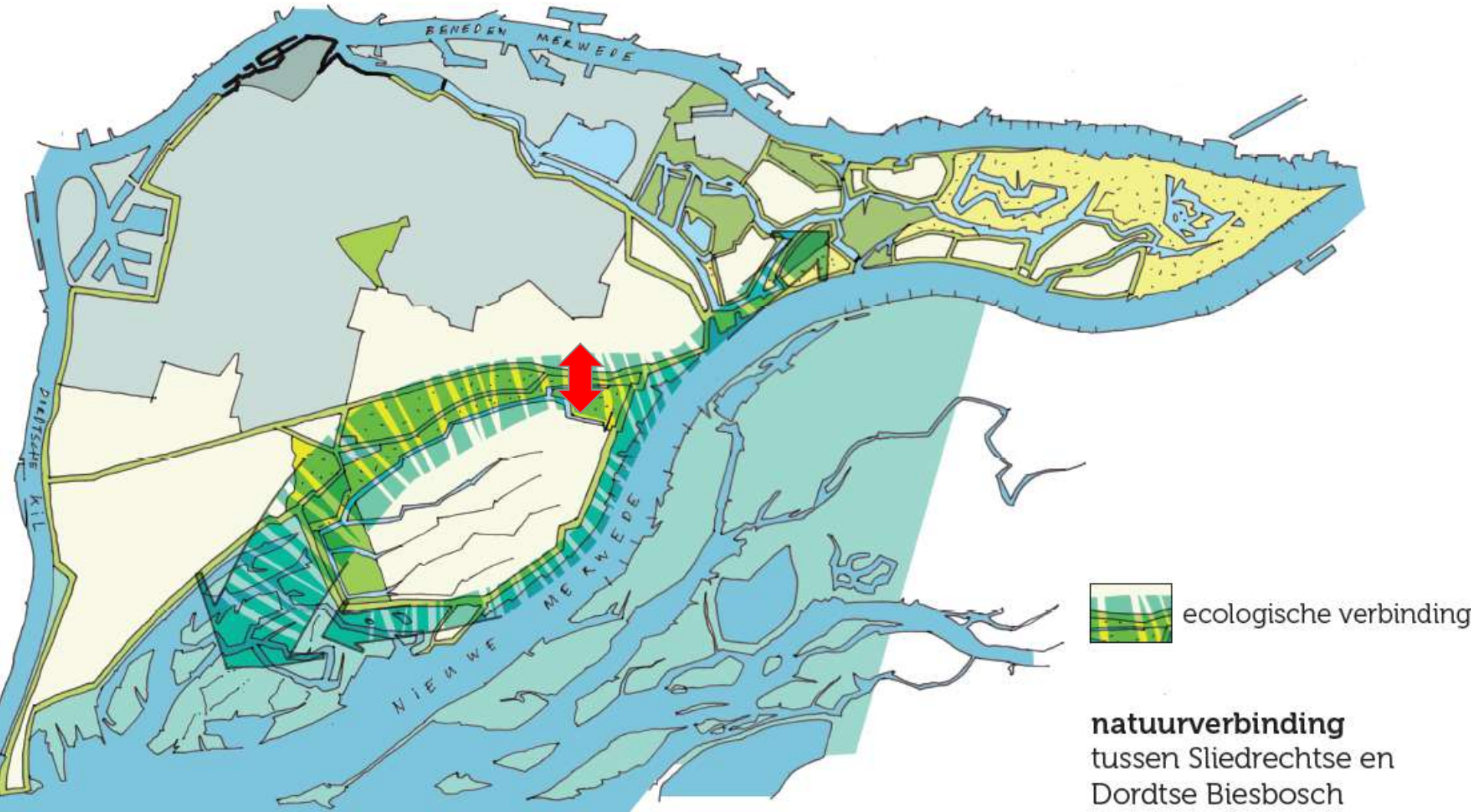


# ZoHo, Rotterdam



City greening as a binding factor for urban regeneration.

# Nieuwe Dordtse Biesbosch, Dordrecht

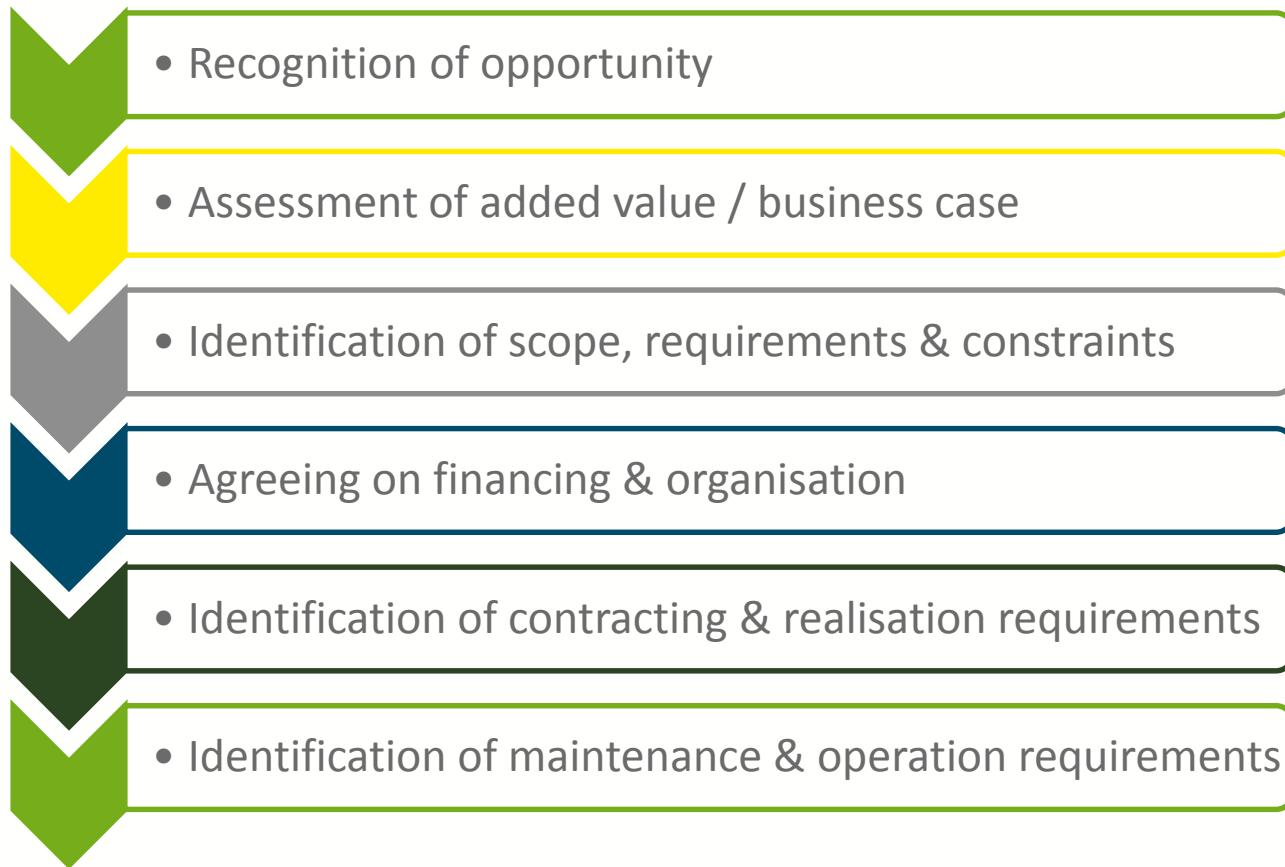


Adaptation mainstreaming can lead to synergistic effects for multiple policy domains.

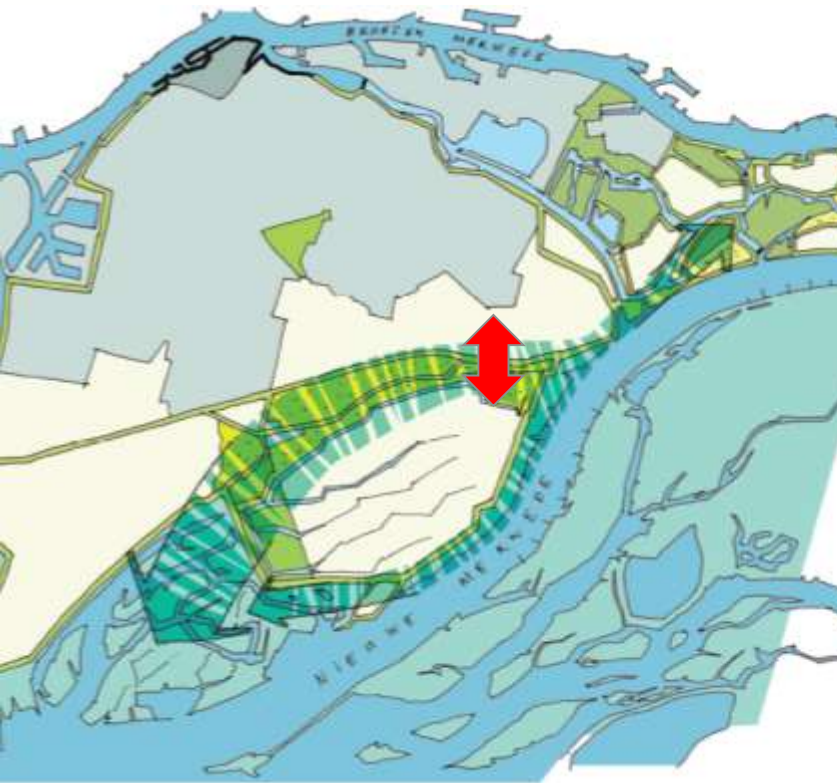
Who's running the marathon?



# Mainstreaming from the perspective of projects



# Nieuwe Dordtse Biesbosch, Dordrecht



Realisation NDB as opportunity

Ecological link + reduced flood risk vs. cost of ecopassage (150m)

Time constraints for subsidies and WFD objectives

Combi of funds, eligibility for Deltafund? Formal alliance needed?

E&C seems most suitable → involve private sector at later stage

Convenant for maintenance / securing FRM

# Alliances needed to overcome challenges

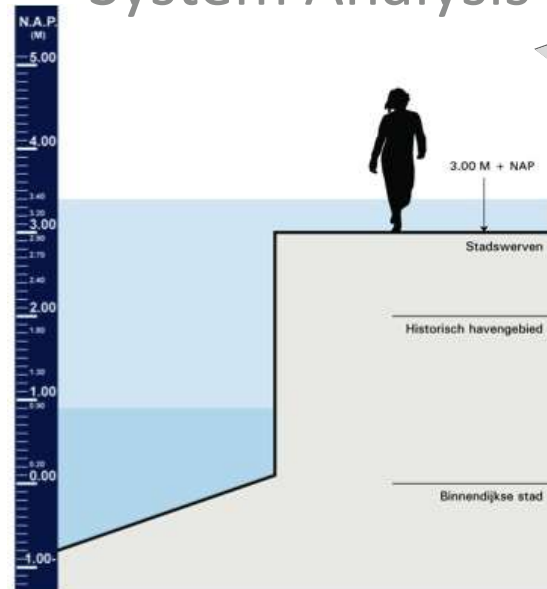
Collaborative  
Design



System Analysis



Governance



# Conclusion

## 1. Benefits of adaptation mainstreaming

- Relative cost savings / synergistic value creation
- Increased ‘negotiation space’ through scope widening

## 2. Applications of ‘adaptation mainstreaming’

- Conditional vs. voluntary
- Systematic vs. autonomous

## 3. Key ingredients for successfully adopting the approach

- Systematic approach to overcoming barriers
- People and networks are key: build and exploit alliances



CRC for  
Water Sensitive Cities

**THANK YOU!**

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Institute for Water Education



Climate Adaptation Mainstreaming through Innovation



An Australian Government Initiative

