Rotterdam and the RDM Campus: Opportunities for Building Climate Resilient Communities through Redevelopment

USACE Coastal Resilience Conference 23 May 2014 New Orleans





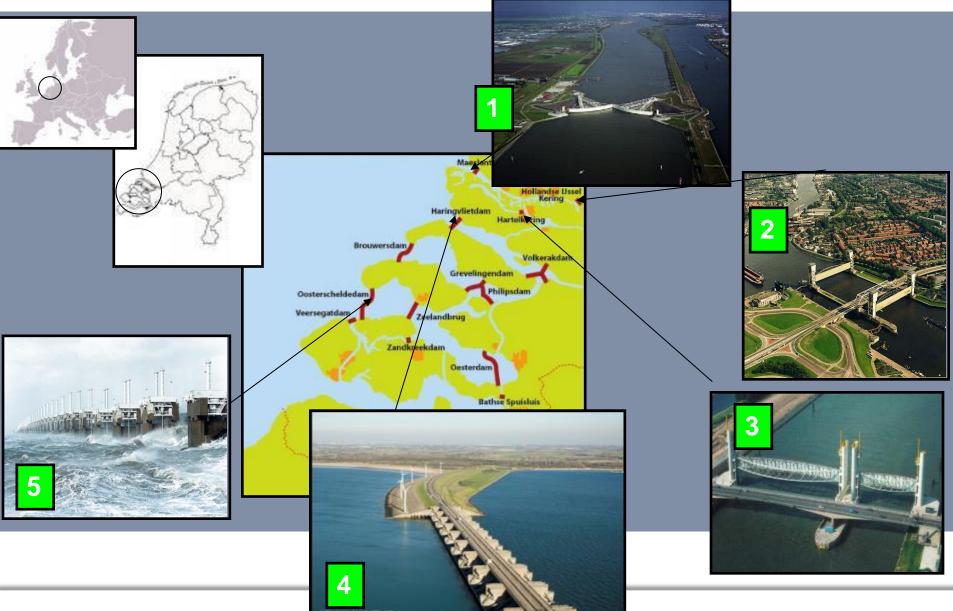
Piet Dircke - Global Director Water Management ARCADIS

Similarities between New Orleans - Rotterdam

- Geographic: vulnerable: delta, large river, partly below sea level
- Storm surge barriers, levees & flood walls for flood protection
- Large port cities with regional & national economic importance
- Climate adaptation/mitigation: oil- and gas industry & transport
- Same size: approx. 600.000 inhabitants
- Both hit by a major disaster => need for rebuilding
- Both multicultural, large low income comunities, music (jazz!)



Rotterdam & Dutch Delta Plan

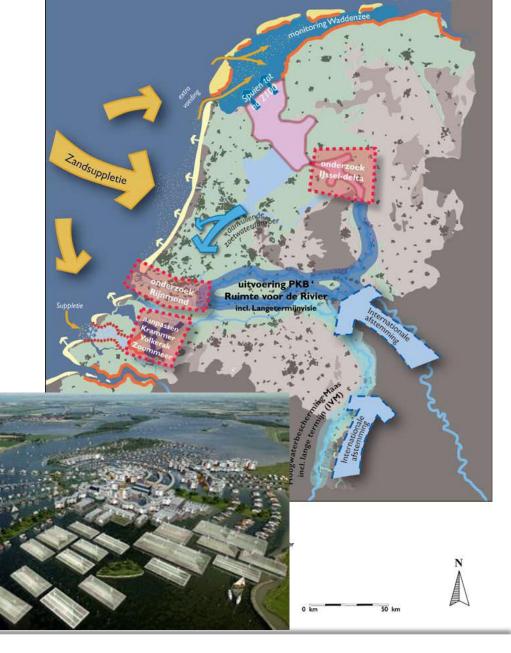




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Dutch Delta Plan II:

- Adapting to climate change
- Sea level rise
- Future challenges
- National systems approach
- Living with water
- •Long term 2100 2200









LARGEST PORT OF EUROPE
40 KM HARBOUR
2800 KM SEWER SYSTEM

THREE WATERBOARDS
612.000 INHABITANTS
400 KM CANALS + 1000 PUMPING
STATIONS



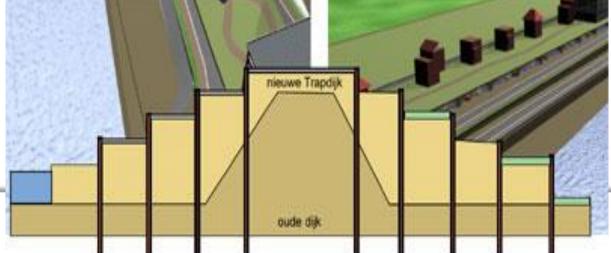




Rotterdam Multipurpose "Steps" Dike Concept



















Water Plaza





Water Plaza













Rotterdam City Ports with RDM Campus

















RDM Campus Location





RDM Campus





RDM Campus Rotterdam: Research, Design & Manufactering











A rich history

Rotterdamsche Droogdok Maatschappij 1902-1983 (Rotterdam Dry Dock Company)





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Garden village Heijplaat







Redevelopment of the RDM area









The cooperation between the partners in RDM Campus has been laid down in a cooperation agreement letter for 10 years. This is to be considered a letter of intent.





Vision

*RDM Campus is a breeding place for the Dutch creative& technical industry voor sustainable innovations with a focus to Building, Moving & Powering."

RDM Campus is a place where students and companies collaborate in an open environment and focus on new economic activity and sustainable and innovative solutions in the markets Building, Moving & Powering.







Educational concept: Innovation teams

Businesses & students







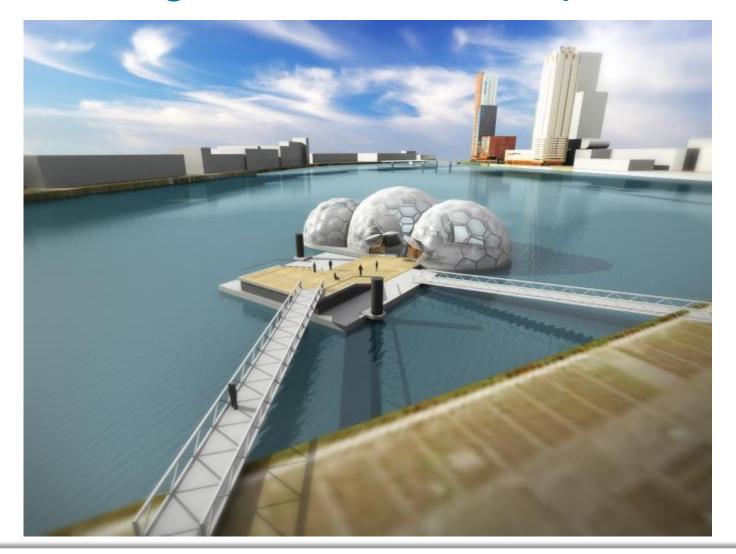


INNOVATION NETWORK

RDM Campus has an extensive network in the fields of building, moving and powering, design and architecture. Regular meetings offer lectures by professors, as well as networking opportunities.



Floating Pavillion artist impression



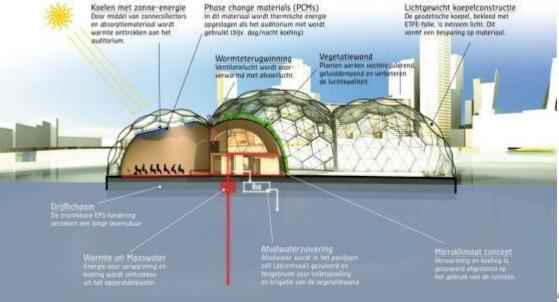


Floating Pavillion construction at RDM Campus











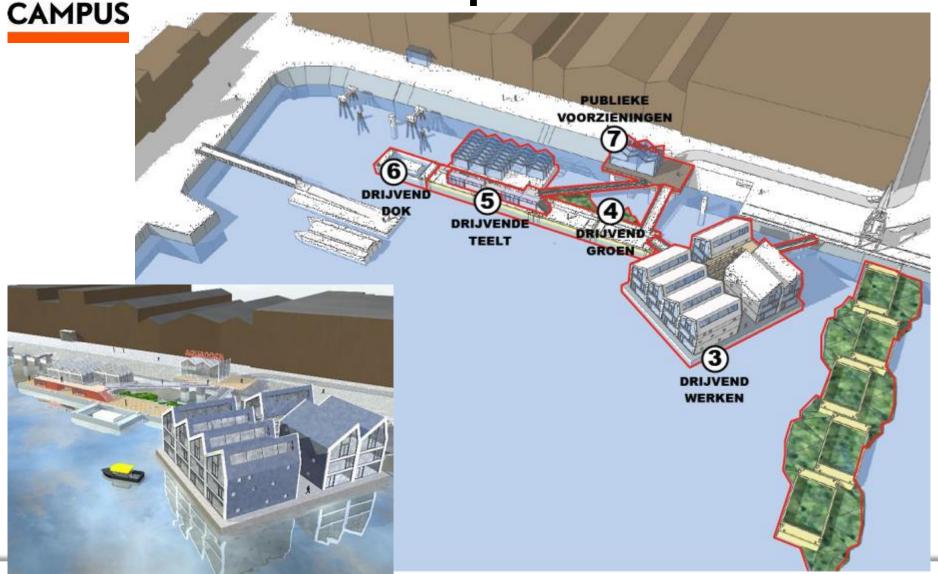
Rotterdam Waterfront and floating pavilion





RDM CAMPUS

RDM Aqua Dock





Concept House Village/ Living lab: Development, testing, implementing

- Technical innovations
- LivingLab: automation (domotica)
- Research: sustainable behavior
- **Demonstration Sustainable Houses**
- Street of the Future (Straat van de Toekomst)





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Connecting Delta Cities

Connecting Delta Cities unites those Delta Cities who strive to make their cities climate proof. They join forces in their quest for innovative adaptation strategies, sharing knowledge and best practices.

Connecting Delta Cities virtually combines the knowledge, experience and connections of Rotterdam, Tokyo, Jakarta, Hong Kong, Shanghai, New York, London and others.

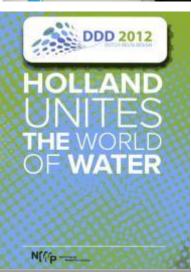
London Rotterdam Shanghal Jokyo
Hong Kong Jakarta

www.deltacities.com

Climate Adaptation

Knowledge networks & centres













More information

Check out www.rdmcampus.nl

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Thank you!!

