Climate-proof flood risk management

joint concepts and
overview of the research programme

Team meeting
29 september 2010

Research programme

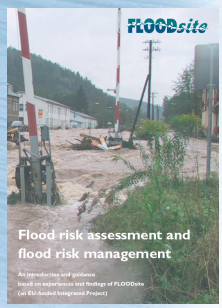
- Adaptation of *flood risk management policy* to climate change at national and regional levels: *innovative measures and instruments*
- by a consortium of:
  - Deltares
  - Delft University of Technology (DUT)
  - Wageningen University en Research Centre (WUR)
  - Institute for Environmental Studies, Free University, Amsterdam
  - HKV lijn in water
  - Flood Hazard Research Centre (FHRC MU)
  - GFZ German Research Center for Geosciences
- Character: scientifically sound, but practice-oriented (co-financed by stakeholders)

6 Work packages

1. Controlling flood levels: flexible flood barrier systems
2. Reducing the impact of waves: natural buffers
3. Multi-functional flood-protection zones (embankments)
4. Reduction of flood consequences
5. International comparison of adaptation policies
6. Cross-cutting approaches: uncertainty, robustness and designing for spatial quality

Key concepts connecting the work packages

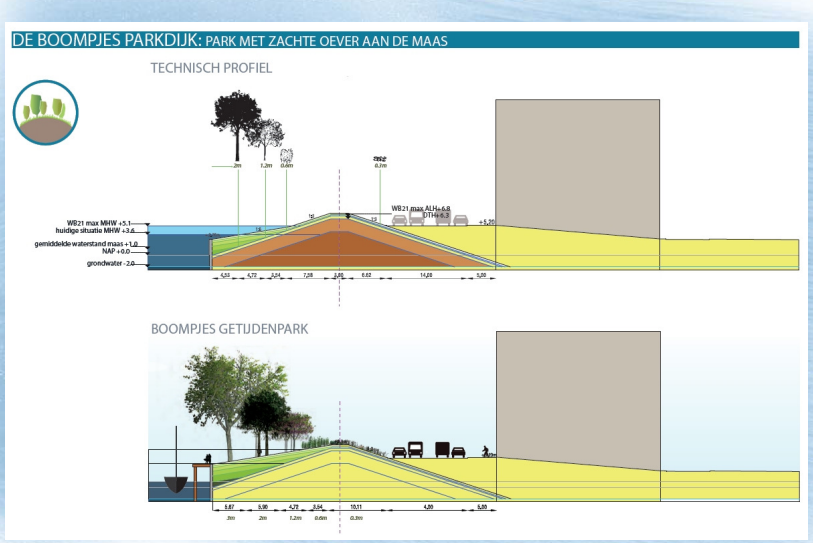
- Risk approach
  - Flood risk = Flood probability * (exposure)* flood consequence
  - Thus consider both/ all three in view of:
    - effectiveness in risk reduction
    - cost-effectiveness/ efficiency
- Sustainability
  - Future-proof, climate-change proof, side effects
  - A.o.:
    - Robustness
    - Flexibility (adaptation paths)
    - Spatial quality



Work package 1: Flood control barriers

Work package 2: Natural buffers

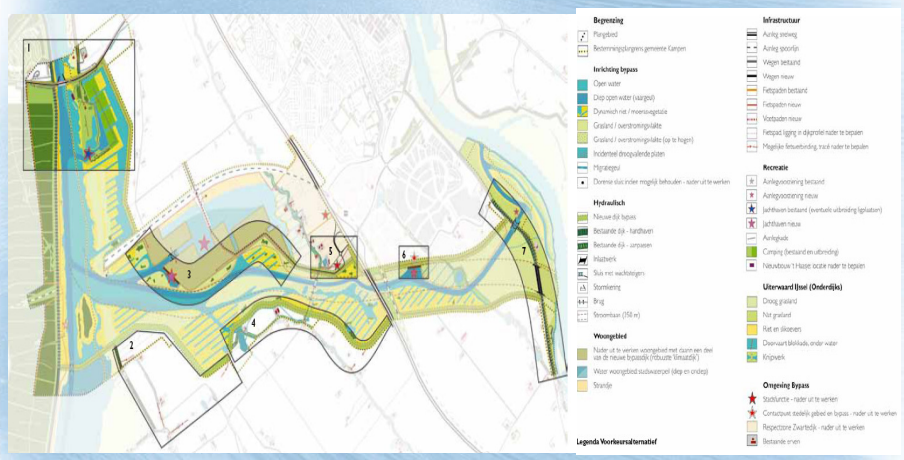
Work package 3: Robust multi-functional defences



Work package 4: Exposure and consequence reduction

Work package 5: International comparison of adaptation strategies

Work package 6: Cross-cutting approaches: dealing with uncertainties and enhancing spatial quality



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- Visit our exhibit (joined with theme 2)
- Visit our website (for a summary of the research programme)
- Subscribe to our newsletters (in Dutch)
- Otherwise …?