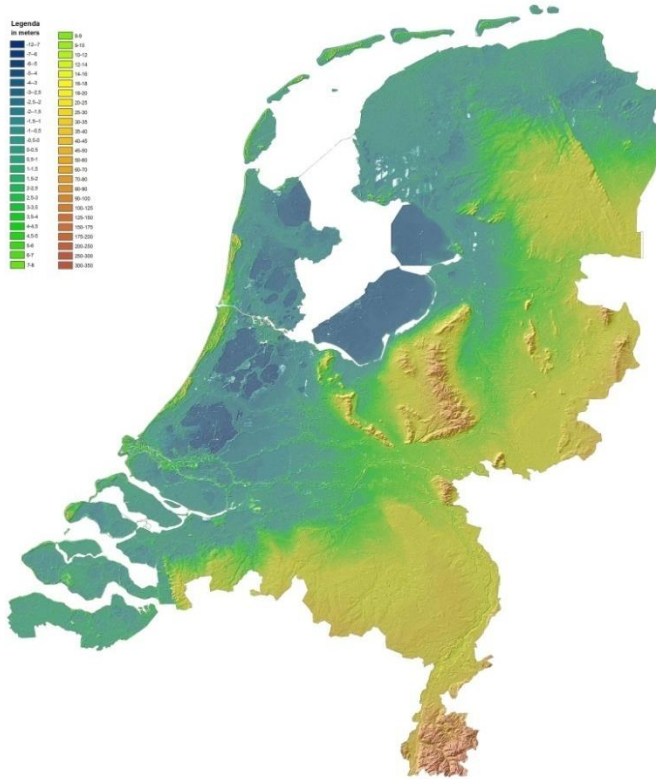
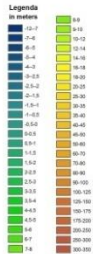




Actueel Hoogtebestand Nederland (AHN)
met reliëf-schaduwwerking



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Ministerie van Infrastructuur en Milieu

The Deltaplan revisited

Changing perspectives in the Netherlands' flood risk reduction philosophy

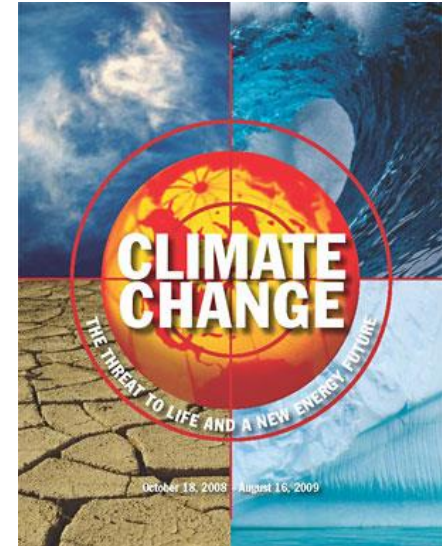
17 – 10 - 2014
HELP- Washington

Melanie Schultz van Haegen



Global Trends

- More floods, more damage, more risk
- Due to population growth, urbanisation, climate change, inadequate land & water management





Water & The Netherlands: Long term history



1580



1700



2000



1953 Disaster

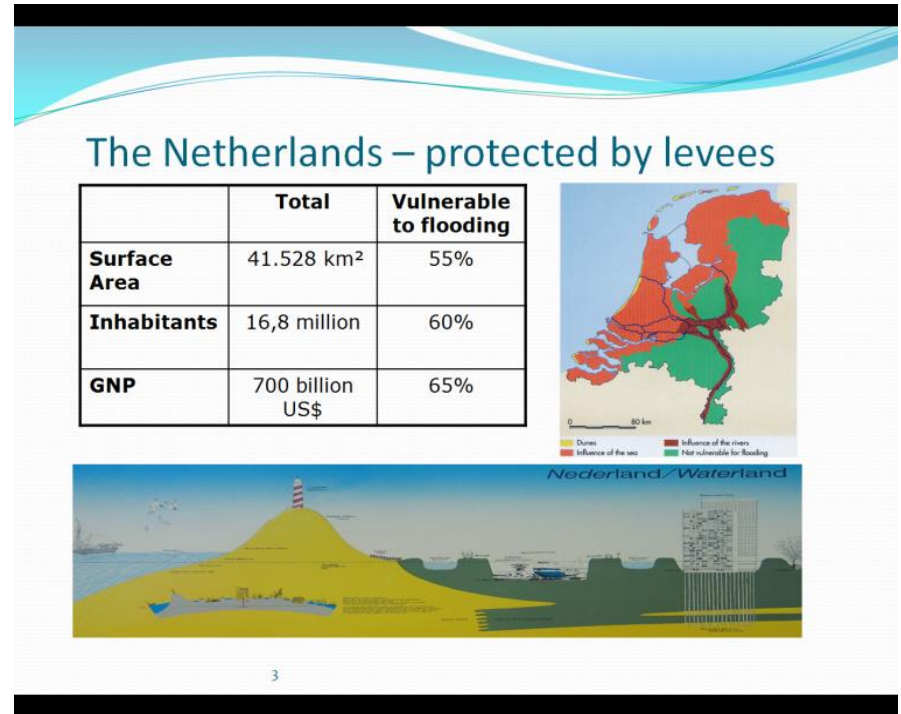
Construction of dams and barriers





Changed perspective in the Netherlands

- From fighting against water to living with water
- Pro-active approach, building resilience





The Deltaplan revisited: from flood protection to integrated risk management

- a minimum safety level for each citizen in the Netherlands (a probability to die due to a flood of at most 1/100,000 per year),
- the introduction of a new set of safety standards for the Dutch flood defences based on a societal cost-benefit analysis,
- counteracting social disruption in case of flooding, and
- protecting vital and vulnerable infrastructure.



The Deltaplan revisited

- Legislation – Programme – Fund – Commissioner - Implementation
- Forward-looking – flexible adaptive approach
- Multi-layer safety
- Multilevel governance
- Participation
- Integrated risk management





Building with nature





From concept to action

- DRR – WRM – Climate Adaptation – Development should go hand in hand (NL -DRR facility)
- Connect national experiences to international frameworks (cooperation NI – OECD, NL – WB)
- Assure basic requirements: funding, good governance, stakeholder involvement, capacity



Messages

- Be prepared for more extreme events and even higher impacts of disasters.
- Disaster Risk Reduction, Water Resources Management and Climate Adaptation should no longer be treated as separate topics
- Use new data and tools for risk assessment to identify and prioritize actions. Improve preparedness of citizens in terms of risk awareness and emergency planning
- Risk reduction, preparation and prevention are sensible investments that pay off in terms of reduced loss of life, avoided damage, and long-term economic growth and stability.
- Risk prevention should be integrated with long-term planning and create opportunities for synergies with planned investments, including plans for adaptation to climate change.
- Uncertainties are no excuse for inaction: be flexible and adaptive