A broader understanding of the dutch position

The Netherlands: a delta of Rhine, Meuse, Scheldt and Eems
Past: The 20th century

• 1916 floods (North)
  ➢ Structural solutions with dams and barriers (Afsluitdijk dam to create IJsselmeer)

• 1953 flood disaster (South-West)
  ➢ Structural solutions with dams and barriers (Delta Works)

• 1993/1995 high water levels (rivers)
  ➢ Also spatial solutions (Room for the River)
Vulnerably to Flooding

North Sea

Rijn

24 mei 2018

Title of the presentation

1. Rotterdam in Europe

Vulnerability to Flooding

Delta Programme – Spatial Adaptation Twitter:
#DeltaplanRA
If we do nothing......
Change is happening
Change is happening

Bangladesh,
20 Augustus 2017
Change is happening

Livorno, 10 September 2017
Highway A1, the Netherlands
Deltacommission new style (2007 – 2009)

• Increased rainfall, rising sea levels, higher temperatures
• greater impact: population has increased
• This is why the Netherlands needs to look far ahead and draw up sound plans for the future.
• These plans are presented in the annual Delta Programme.
Institutional arrangements: 2010

- Delta Act
- Delta Programme: measures, every year to Parliament
- Delta Commissioner: progress, uniformity, consistency
- Delta Fund (1 bln euro/yr)
Three Deltaplan

Deltaplan Ruimtelijke adaptatie
Maatregelen om Nederland klimaatbestendig en waterendurant in te richten

Deltaplan Waterveiligheid
Maatregelen om Nederland te beschermen tegen overstromingen

Deltaplan Zoetwater
Maatregelen voor de beschikbaarheid van zoetwater in Nederland
Focus on Deltaplan Spatial adaptation

- climateproof en waterrobust spatial design
- In 2020 we act accordingly, in 2050 we have realized a waterrobust environment
Sense of urgency

• Potential damage: €71 billion until 2050
• South Netherlands 2016: over 700 million damage in few hours
• Münster 300 mm of rain in few hours
• Evaluation Deltadecision;
  – current approach and goals not enough
  – Acceleration and intensivation needed

→ Deltaplan Spatial Adaptation.
Scope Deltaplan

- Waterlogging
- Heat
- Flooding
- Drought

Delta Programme – Spatial Adaptation Twitter: #DeltaplanRA
7 ambitions
Water-resilient and climate-proof spatial planning in the Netherlands

- Drawing up implementation agenda
- Mapping out vulnerabilities
- Conducting risk dialogue and drawing up strategy
- Capitalising on opportunities for linkage
- Regulating and embedding
- Encouraging and facilitating
- Responding to calamities
Ambition 1: Mapping out vulnerabilities

- Before 2019 every municipality has performed a stress test.
Delta Programme – Spatial Adaptation Twitter: #DeltaplanRA
Climate Effect Atlas (heat stress)
Ambitie 2: Riskdialogue and building a strategy

• Before 2020 assessment of risks by performing riskdialogues with relevant partners in the area

• Leads to strategy
Ambitie 3: making an implementation plan

• Before the end of 2020 every municipality has a joint implementation plan
Ambition 4: Capitalising on opportunities for linkage

- Linking the water management challenges to existing agenda’s for development and maintenance.
Roofpark Rotterdam

Delta Programme – Spatial Adaptation Twitter: #DeltaplanRA
Ambition 5: Promoting and Facilitating

- Incentive Programme
- Platform Climateproof Together
- Kennisportal www.ruimtelijkeadaptatie.nl
Ambition 6: Regulating and embedding

- Integral part of environmental visions
- Explore (additional) legislation and regulations
- Appeal individuals on their own responsibility
Ambition 7: Responding to calamities

• Damage and nuisance will persist
• For calamity, during and afterwards
House and lot level

Delta Programme – Spatial Adaptation Twitter: #DeltaplanRA
Community and city level

b) In de wijk
Regional level

c) Op regionaal schaalniveau
Governance Delta programme Spatial adaptation

Kaart B: Gebiedsoverleggen die rapporteren over RA

1. RBO Rijn-Noord/Nedereems
2. Bestuurslijk Platform Uisselmeergebied
3. Zoetwaterregio Hoge Zandgronden-Oost
4. Zoetwaterregio West-Nederland
5. Gebiedsoverleg Rijnmond-Drechsteden
6. Zoetwaterregio Rivieren-gebied
7. Gebiedsoverleg Zuid-westelijke Delta

Delta Programme – Spatial Adaptation Twitter: #DeltaplanRA
Essence

- Prevention
- Avoiding damage

- Long term goals
- 7 ambitions short term
- Governance structure
- Linkage with spatial development

- Deltaplan and -programme Spatial Adaptation

Delta Programme – Spatial Adaptation Twitter: #DeltaplanRA
Possible transferables

• The need for a long term goals and short term strategy
• The need for understanding the urgency and scale of the problem of waterlogging
• The need for a governance structure at the right scale
• The need for a broader spatial approach and linkage are to ensure solutions
And remember to also see the fun side of it!

- [http://www.omroepbrabant.nl/?news/2783681303/Tom+zag+het+noodweer+en+pakte+meteen+zijn+wakeboard+Dit+is+wel+een+bucket+list+dingetje+[VIDEO].aspx](http://www.omroepbrabant.nl/?news/2783681303/Tom+zag+het+noodweer+en+pakte+meteen+zijn+wakeboard+Dit+is+wel+een+bucket+list+dingetje+[VIDEO].aspx)