

GCA webinar Mobilizing Finance For Climate Adaptation in Deltas May 26, 2023 Peter C.G. Glas MSc LLM Delta Programme Commissioner



Climate adaptation in the Netherlands, financing the Delta Programme

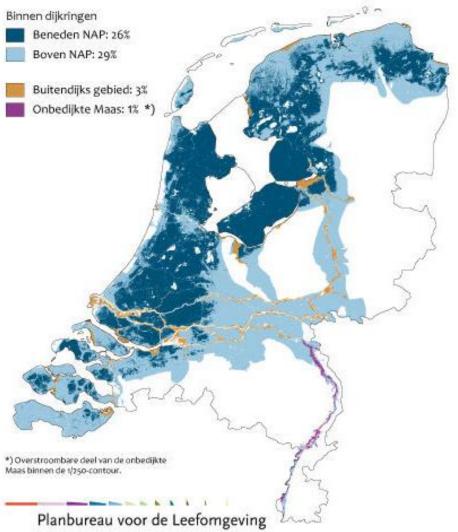
NATIONAL DELTA PROGRAMME





# The Netherlands, a delta country





26 May 2023



# Delta Programme (2010 – present)

2008 Delta Committee (long term developments)

2010 1st Delta Commissioner appointed

2011-pres. Annual Delta Programme:

- Flood protection
- Fresh water availability
- Spatial Adaptation

2012 Delta Act & Delta Fund

2015 Delta decisions & strategies adopted

2017 New flood safety standards codified by law

2020 1st 6yr Recalibration of decisions and strategies

2026 2<sup>nd</sup> 6yr Recalibration



Delta Programme 2015

# Working on the delta

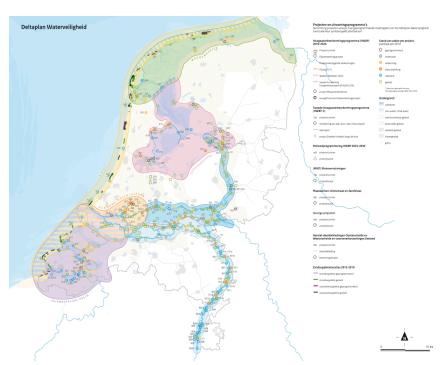
The decisions to keep the Netherlands safe and liveable



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# Delta programme regions – co-financing of three annual Delta Plans



#### Flood protection

- 1500 km dykes by 2050 (43%)
- € 400 mln./yr
- 50/50 central government water boards



## Freshwater availability

- 2015-2021 € 400 mln.
- 2022-2028 € 800 mln.
- € 1 / € 3 central government /decentral gov. agencies



# Spatial adaptation

- 2021-2027 € 600 mln.
- € 1 /€ 2 central government /decentral gov. agencies

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### Government Water Institutions: Main Structure

Water framework directive Municipal water directive Drinking water directive Ground water directive Regional flood risk directive

National water policy, legal standards, supervision, operational tasks national water infrastructure

Regional water policy, licensing the major groundwater abstractions and supervision on Regional Water Authorities and Municipalities

Sewage system, storm water collection and urban groundwater level

342 Municipalities



European Union

#### National Government

Ministry for Infrastructure and Water Management Delta Commissioner Rijkswaterstaat (Nat. Water Agency)

Flood protection, water quantity and quality management, waste water treatment

21 Regional Water Authorities

Drinking water production and supply

10 Public
Drinking Water
Companies



# All water services in The Netherlands are publicly owned and operated

- All water tasks together cost appr. €8 bln per year (appr 1% of GDP of the Netherlands)
- Appr 20% is financed by central government (mainly through the Delta Fund),
- Appr 80% is financed by local and regional branches of government (and drinking water companies) through taxes and tariffs paid by households, businesses, infrastructure, land owners and farmers



# A changing financial climate adaptation landscape

- Dutch Central Bank (DNB) Sustainable Finance: Climate Adaptation Workforce (scenarios, adaptation and financing), report expected by end of 2023
- Deloitte Impact Foundation: Netherlands Climate Adapative study, to be presented to the Delta commissioner November 2023
- Rethink The Delta: initiative between private and public sector on future long term adaptive strategies for impact mitigation and prevention financing
- Annual Dutch Delta conference (November 9 in Groningen)
  - 2022: keynote by financial sector: "the cost of doing nothing"
  - 2023: special session by the Financial Sector



# Three lines of defense, public-private flood risk financing and insurance



# **Risk prevention**

- Green Dutch State Loans (€16 bn, financing ao Deltafund)
- NWB Water Bonds (€5.7 bn, financing regional Water Authorities)
- NWB Water Innovation Fund
- Dutch Financial Sector (Pension Funds and Insurance Companies) invests in Green Dutch State Loans and Water Bonds



# **Risk mitigation**

- Decentral governmental climate resilience subsidies
- Building requirements decree
- Mortgage and Insurance conditions related to flood risks and climate adaptation





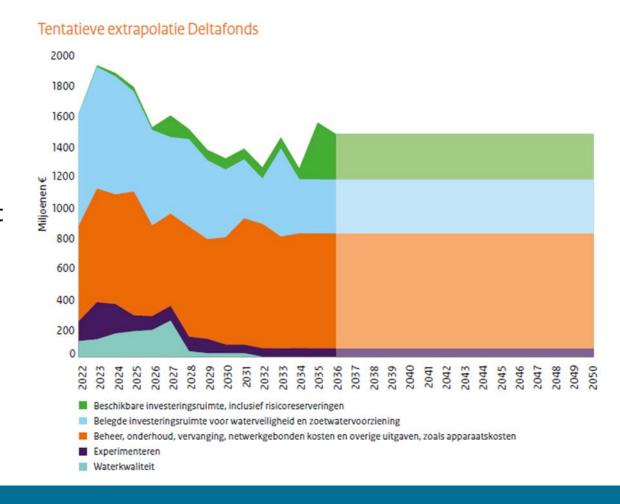
# Risk recovery

- Disaster Compensation Act (WTS): (partial) compensation for uninsurable, unavoidable, and non-recoverable damage from disaster. Depends on a political decision.
- Voluntary Flood Insurance: available for businesses and individuals, covering local flooding and regional flooding (not primary defense floods)



# Structural and adaptive character of the Delta Fund

- Structural financing up to €1,5 bln/year
- Appr. 52% available for investments in the Delta
   Programme (co-financing)
- Appr 48% for costs of maintenance RWS, not part of the Delta Programme
- Delta Fund: € 21 bln reserved 2023-2036
   € 22 bln projected 2036- 2050
- Stable and adaptive financial outlook: long term availibility of financing, and annual adjustments





## Lessons Learned from the adaptive character of the Delta Programme and Delta Fund



#### **Decision making in an uncertain future**

- → Calls for adaptive strategies:
  - Clear in objectives,
  - Adaptable to actual conditions
  - Avoid lock-ins
  - Linking short term agenda's with long term water challenges

#### Implementation in an uncertain future

- → Benifits from:
  - Flexible measures ("speed up/slow down")
  - Building with Nature or robust design
  - Spatial planning (water and soilconditions prioritize)
  - Stable budgettary outlook (2023  $\rightarrow$  2036  $\rightarrow$  2050)

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# Thank you for your attention



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