



E&E in brief



- Philosophy: investing in nature creates space for economic development
- 20 Parties
 Governments, NGO's and companies
- Eems-estuary (seaside) en Eemsdelta (landside)
- Platform, to seek solutions, to boost innovations and to accelarate operations
- Agreement with intentions E&E 31-10-2012

'Fundament = the will to cooperate!'



E&E Method



Success factors:

- 'Developing' in stead of 'allowing'
- Dialog up front, openness and transparancy
- Stimulating new relationships companies, NGO's and governments
- Governmental regulation = safety net in stead of steering instrument



Results



- Development industial areas around two harbours (incl. Google)
- Development of large wind on land concentration areas (850 MW)
- Acceptance of an strategic oil reserve VOPAK (incl. deepening fairway in Eems-Dollard estuary)
- Ecological measures boarders (soggy) and sweet-salt transitions
- Birds Radarinstallations and investments in birds isles
- Ecological + in acquisitions
- Program Eems-Dollard 2050

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Motivation



Eems-Dollard: ...unique nature area

- only remaining estuary in the Waddensea, the Netherlands
- Rare nature types
- UNESCO world heritage: Waddensea

... ecological bottleneck

- loss of land-water transition zones (fresh- & salt)
- increase of turbidity
- decrease of primary production

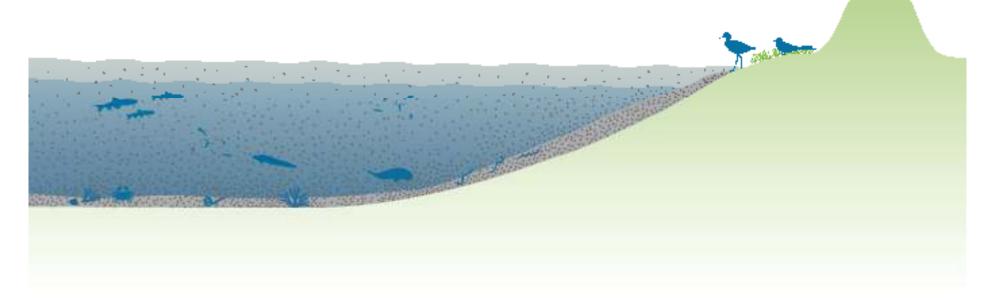
... large task with environmental opportunities

- energy transition, industrial greening and port development
- improve quality of life
- climate adaptation and water safety



HUIDIGE SITUATIE







Aims of the program

Assumptions in MIRT-research report

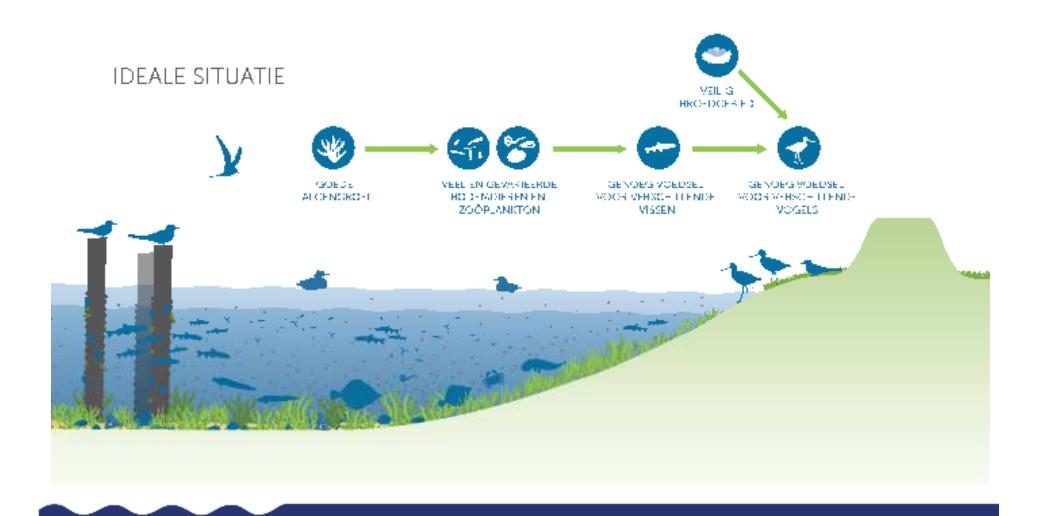
- Need for solution based approach
- Implementation of the multiannual adaptive program

Program Eems-Dollard 2050

- Cooperation between nation and region to improve water quality
- Programming measures
- Implementing insights and innovations
- Realising ecological target for ED2050
- Corporation with Germany









Upscalable pilots



Fourteen projects







Eight Owners (3 big Supporters)

























Hydro-morphological improvement (1/2)



Aims

- Insights in hydro-morphological processes
- Explore measures to reduce slick concentration to improve ecology
- Knowledge development for adjust ecological target

Approach

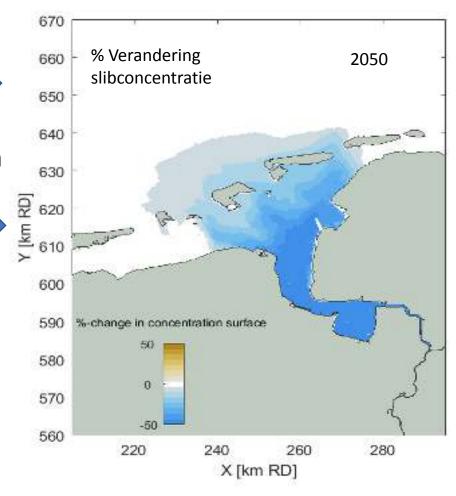
- Application-oriented modelling of water- and sediment
- Insight in long term development of the estuary
- Effect evaluation of the measures (short- and long term)

Hydro-morphological improvement (2/2)



Measures

- Subtract slick
- Deposit slick in Waddensea
- Increase sand plate area through the deposit of sand
- Advance sedimentation
- Addit terrestrial intertidal area
- Emphasis and extension of river characteristics



Vital coast (1/2)

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Aims

- Restore estuary transition zones (fresh-salt, water-land, breeding area and flee-grounds for birds)
- Create capture capacity for slick

Approach

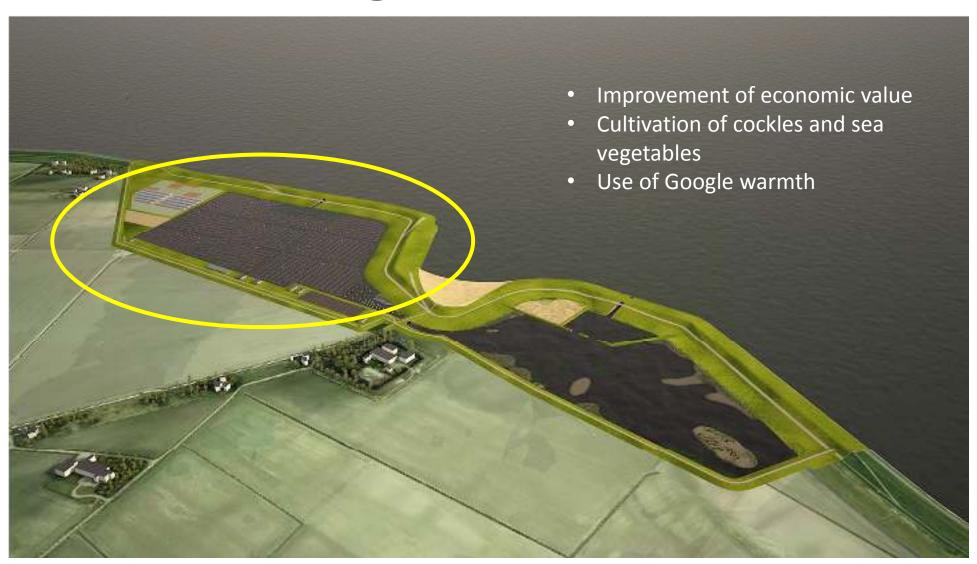
- Opportunities to connect economy, water safety and environmental experience/quality
- Water safety innovation as main driver
- Explore opportunities for upscaling concepts







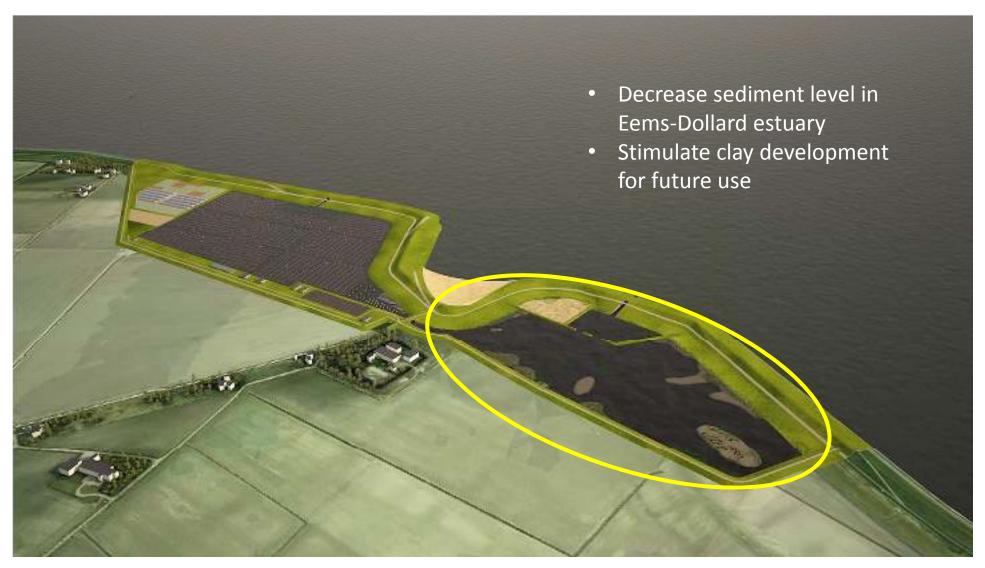
Innovative agriculture







Building with nature



Vital coast (2/2)

Projects in first phase

- Birds Isle Stern
- Twin Dike
- Rich Dike
- Marconi
- Great en Little Polder Termunten
- Polder Breebaart
- Broad green Dike
- Mosselbed Paap





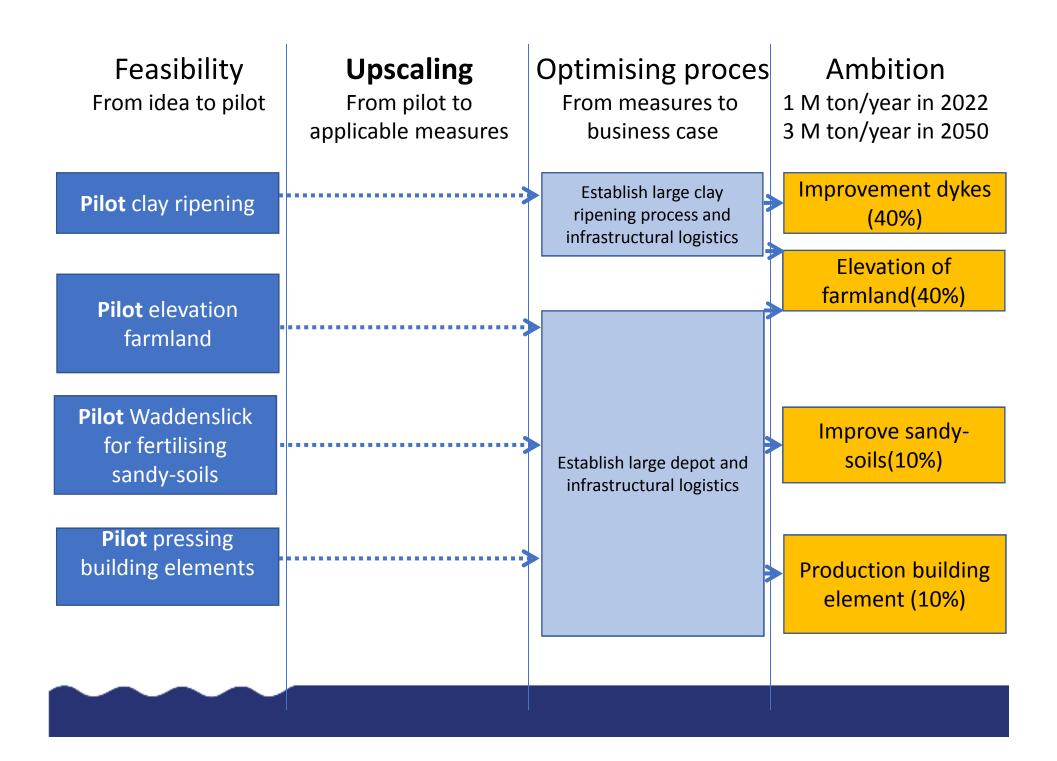
Utilise slick (1/2)



Aims

- Identification and exploration of business cases to utilise slick
- Facilitate upscaling with the ambition to utilise annual 1 million ton of slick (starting in 2022)





Cooperation with Germany (1/1) DOLLARD 500

Aim

 Improve boardcrossing cooperation on all levels with as basis the common content

Approach

- Workgroups for cooperation (monitoring, communication, counsel)
- Workgroup SubG (knowledge exchange utilise slick, effects on nature and the measure utilise slick)

