Delfland Coast Coastal strengthening and construction of nature area

[group/visit] [date]





Delfland coast

- 2 Projects combined:
 - Coastal strengthening (Hoogheemraadschap van Delfland)
 - Creation of nature area (Rijkswaterstaat)







The Netherlands in future?

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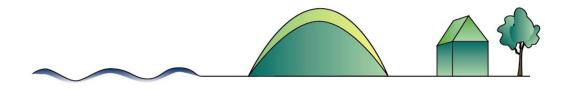




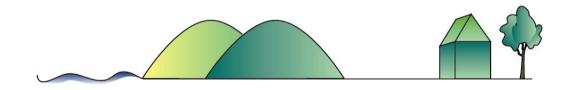


Coastal strengthening: 3 alternatives

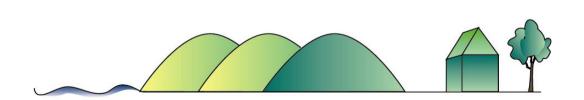
increase of dune height:



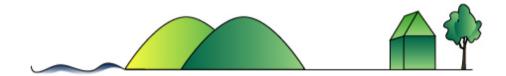
seaward extension:



wide seaward extension:



Why a seaward extension?



- natural dune accumulation
- more opportunities for development of nature
- better opportunities for tourism

What will be done?

- additional dune ridge in front of the existing dunes
- backfilling and widening the beach
- straightening of the coastline
- extension of access routes to the beach
- seaward replacement of recreation facilities



Why is a new "nature area" necessary?

- Construction Maasvlakte 2
- increased levels of NOx caused by increasing shipping transport
- quality of dune vegetation will be affected in a wide area around Maasvlakte 2
- 35 ha of "new nature" along the Delfland Coast to compensate for loss in quality in the wider area



What needs to be done?

- new dune ridge on old beach
- shallow between existing and new dune ridges
- new beach 160 200 m wide
- seaward replacements of recreational facilities
- Time frame development nature area: 10 20 years



What is a dune slack?

- a shallow in the dunes which is seasonally wet (winter) and dry (summer)
- a habitat for many rare vegetation types and animals

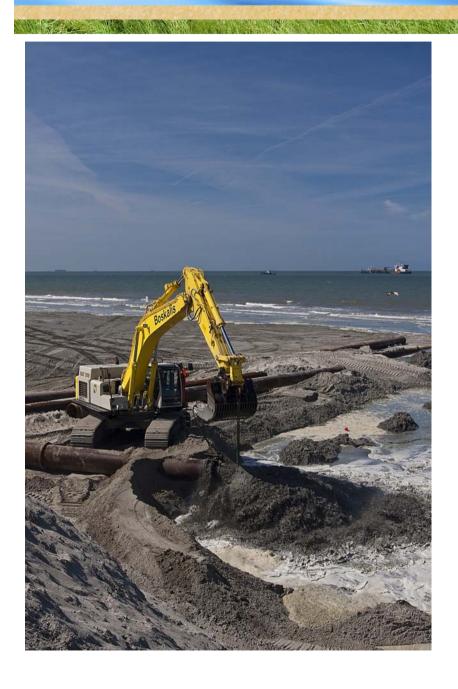


Dune slack on the island of Goeree

Implementation of works

- Sand is extracted from the North Sea floor
- Combinatie
 Delflandse Kust:
 Van Oord &
 Boskalis





Activities

- dredging and backfilling of sand of specific grain size
- forming of beach & dunes by dozers en excavators
- work continues 24/7

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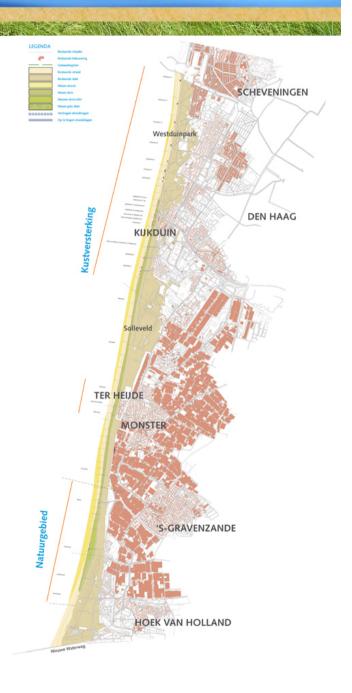


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Planning

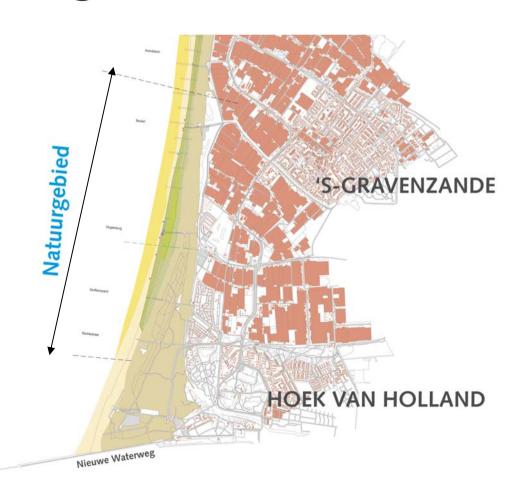
- End of 2008 end of 2011
- During spring and summer no construction work on the touristy beaches



Planning (1)

November 2008 – April 2009

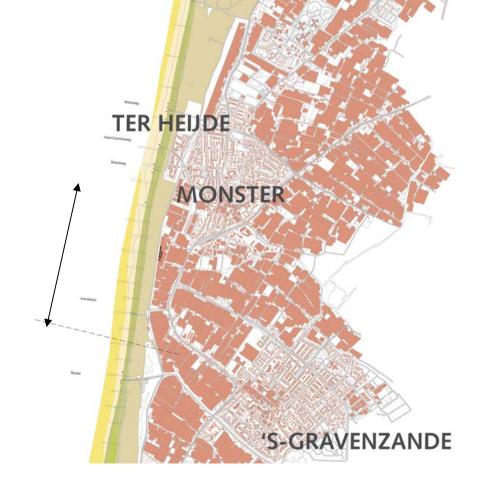
 Hoek van Holland -'s-Gravenzande



Planning (2)

February – May 2009

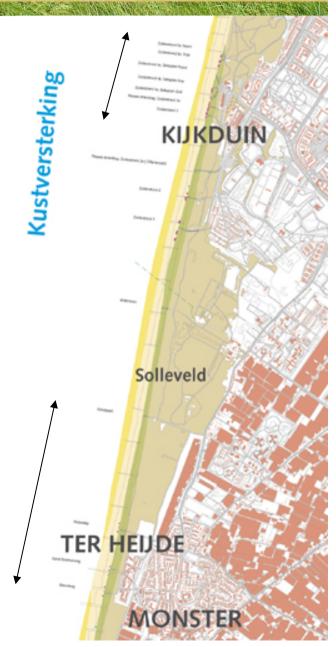
South of Ter Heijde



Planning (3)

September 2009 – April 2010

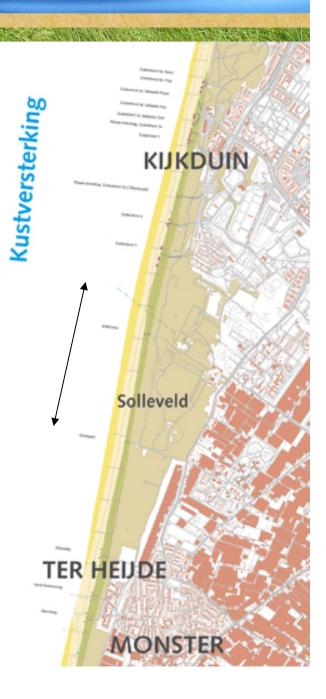
- Monster:
 Schelppad Molenslag
- Ter Heijde
- Kijkduin:Deltaplein & boulevard



Planning (4)

Spring/Summer 2010

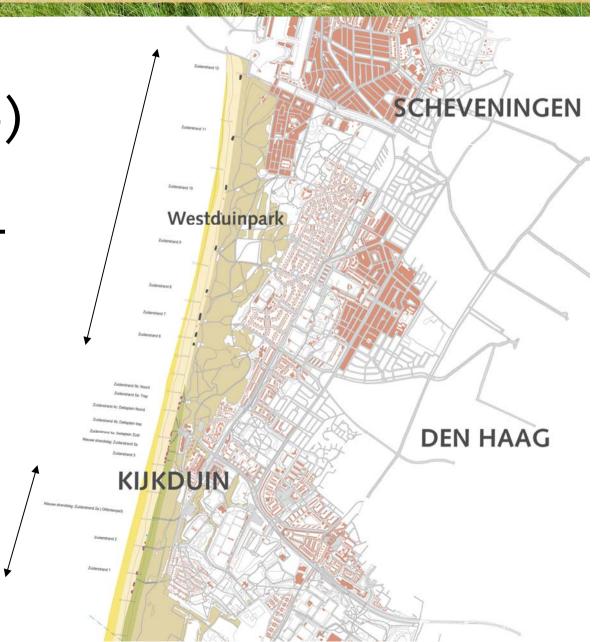
Monster: Watertoren - Schelppad

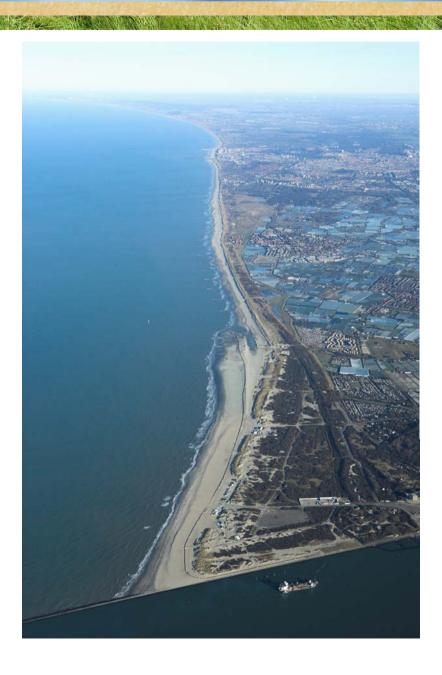


Planning (5)

Autumn 2010 – end of 2011

- Kijkduin:Ockenburg,Kijkduinpark
- Westduinpark





Questions?