

Introduction to innovationproject HPZ



EcoShape

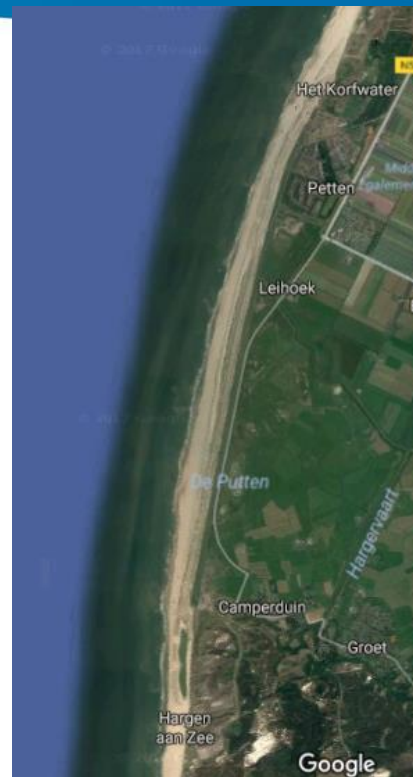
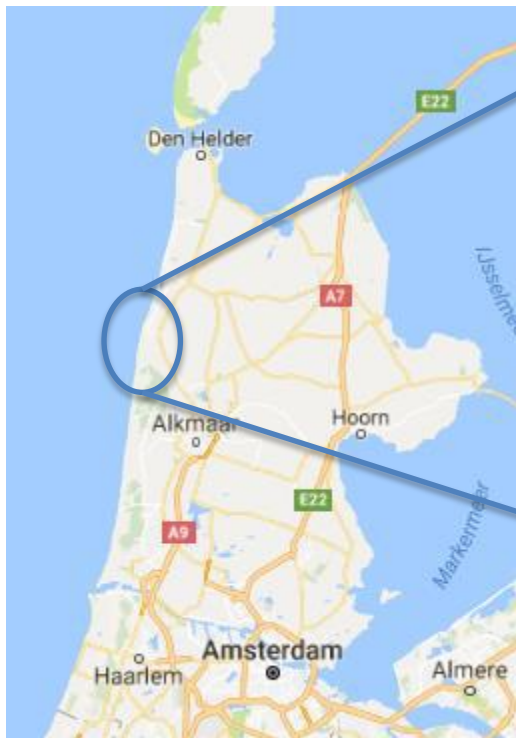
17 November 2017

building with nature

Content

- Why a sandy solution?
- Why an innovation project?

Why a sandy solution?





The original sea defence no longer met the safety standards

Heightening the current dike was not an option: the village of Petten should have been moved





*Safety can be
combined with
nature development
& recreation*

building with nature



ape

h nature

- 35 Million m3 sand ~ 440 soccer fields
- Meeting the safety standards for 2050
- Recreation
- Nature development

Siebert Swart © 2015



ape

h nature

Why an innovation project?



*Faster and more efficient
realization of sandy
foreland solutions*

Innovation project



- 4 year project (2015 – 2018)
- ~ 1.4 MEUR (HWBP, HHNK, Ecoshape)
- Several specialists of: Deltares, WMR, WEnR, HKV, Witteveen+Bos, Arcadis



3 Topics

1. Habitat development
2. Geometry development
3. Perception

Innovation project

- Past 3 years: mainly data collection
 - Lidar (4x per year)
 - Expert sessions (2x per year)
 - Vegetation monitoring (1x per year)
 - Soil composition tests
 - Several other measurements, such as: groundwater, salinity, gravel and shellscoverage.
- Coming year: mainly analysis of the results