

CEDA-IADC CONFERENCE

Dredging for SUSTAINABLE INFRASTRUCTURE



**Dredging
Today.com**



Pitch #1

Benefits of using Dredged Material

Chris Adnitt



Benefits of using Dredged Material

Chris Adnitt

- Create Habitats for wildlife
- Protect the Coast
- Natural Filtration system
- Use for excess material
- Comply with legislation and guidance
- Sustainable Approach to managing dredged material

What can be created?

- Offshore islands
- Saltmarsh habitat
- Mangrove habitat
- Sand dune
- Oyster reefs
- Fish shelters
- Lagoons
- ???



Pitch #2

Navigation with Nature Tiedo Vellinga

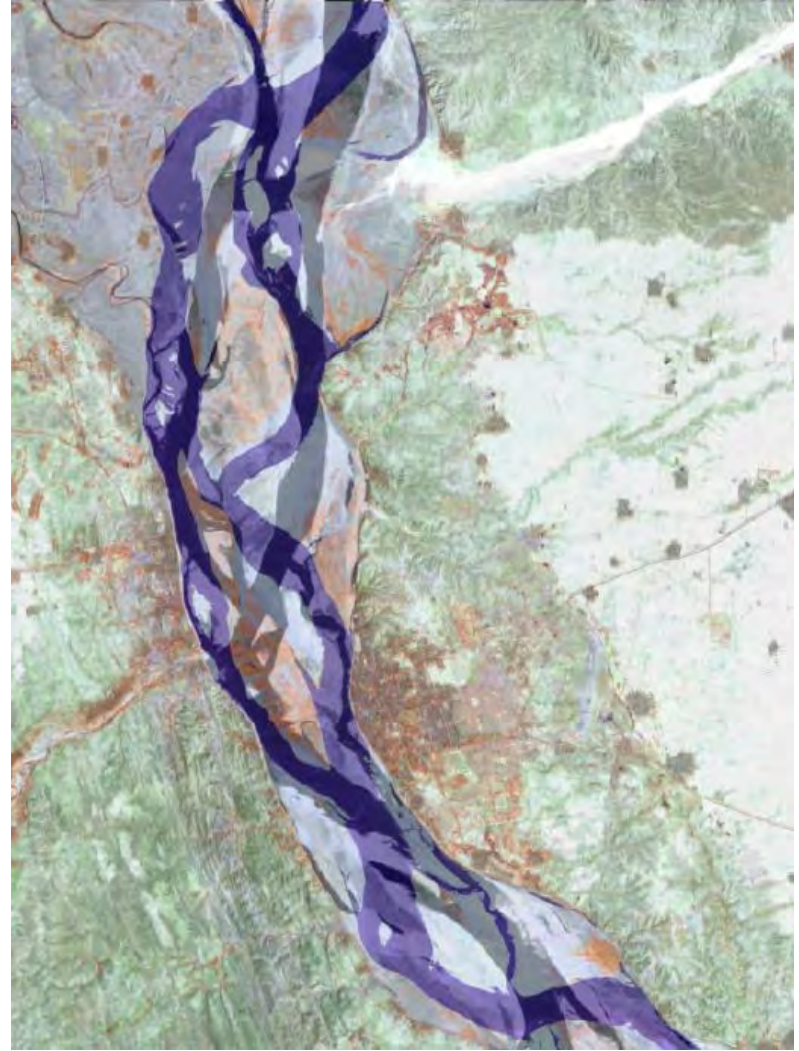


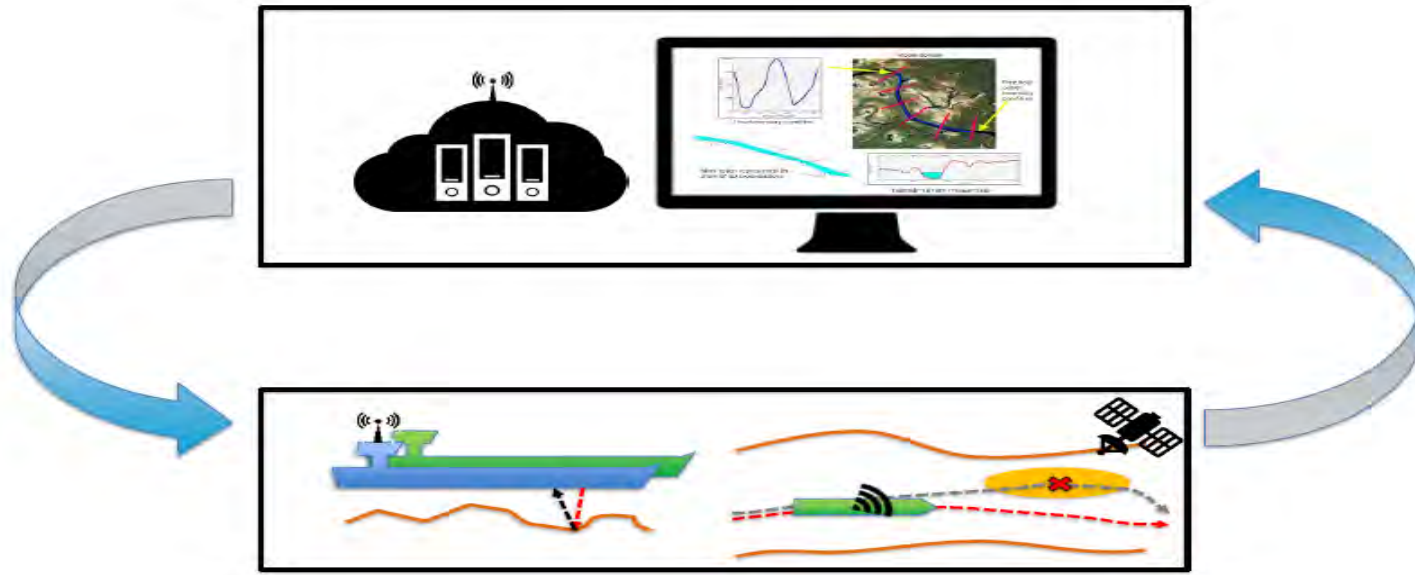
Navigation with Nature

Tiedo Vellinga



- Large rivers, like the Ayeyarwady and Mekong river, are known for their very dynamic meandering character, resulting in fast and unpredictable channel migration.
- Navigation on these rivers is significantly hampered by the high variability of both the water level and fairway channel position.
- Large scale river training works and appropriate aids to navigation are relatively expensive and not sustainable





Pitch #3

The Climate-Resilient Coast

Stefan Aarninkhof



The Climate-Resilient Coast

Stefan Aarninkhof 





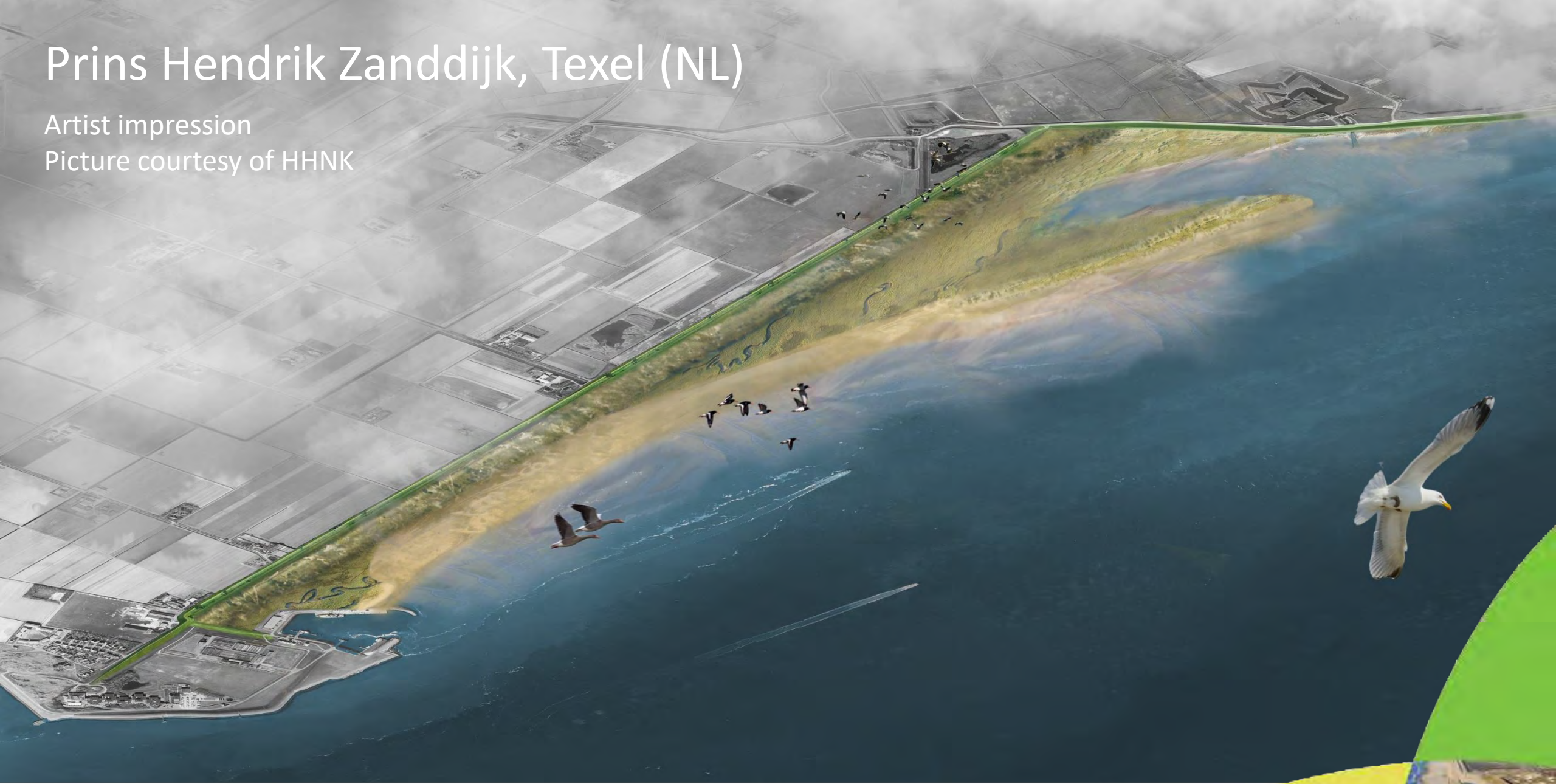
Source: Stichting Nieuw-Holland
Image by: KuiperCompagnons

Het Zuid-Hollands Kustinitiatief & de Nationale Omgevingsvisie

Prins Hendrik Zanddijk, Texel (NL)

Artist impression

Picture courtesy of HHNK



Pitch #4

Dredging Sustainable Solutions

Teresa Sá Pereira

by

Gerard van Raalte



Dredging Sustainable Solutions

Teresa Sá Pereira

Port of Lisbon

- Maintenance dredging: 2 – 3 campaigns / year, each campaign ~ 250,000 m³.
- Traditionally, placement inside estuary and in offshore disposal sites, prescribed by regulations.
- Investigations into more sustainable use or relocation options.



Dredging Sustainable Solutions

Teresa Sá Pereira

Portuguese Coast

- Studies by Portuguese Environmental Agency
- 42% of Atlantic coast sandy beaches, seriously eroding
- Protection against sea level rise and climate change needed
- Reinforce the coast line by traditional hard solutions or by sand nourishments?



Costa da Caparica

Dredging Sustainable Solutions

Teresa Sá Pereira

Port of Lisbon

- Use maintenance dredged material for reinforcement of Costa da Caparica.
- Port of Lisbon and Environmental Agency working together.
- Yet, many years (~6) before all legislative permits in place.



Pitch #5

Energy Transition Mark van Koningsveld



Energy Transition

Mark van Koningsveld





Pitch #6

Ecological Infrastructure Development

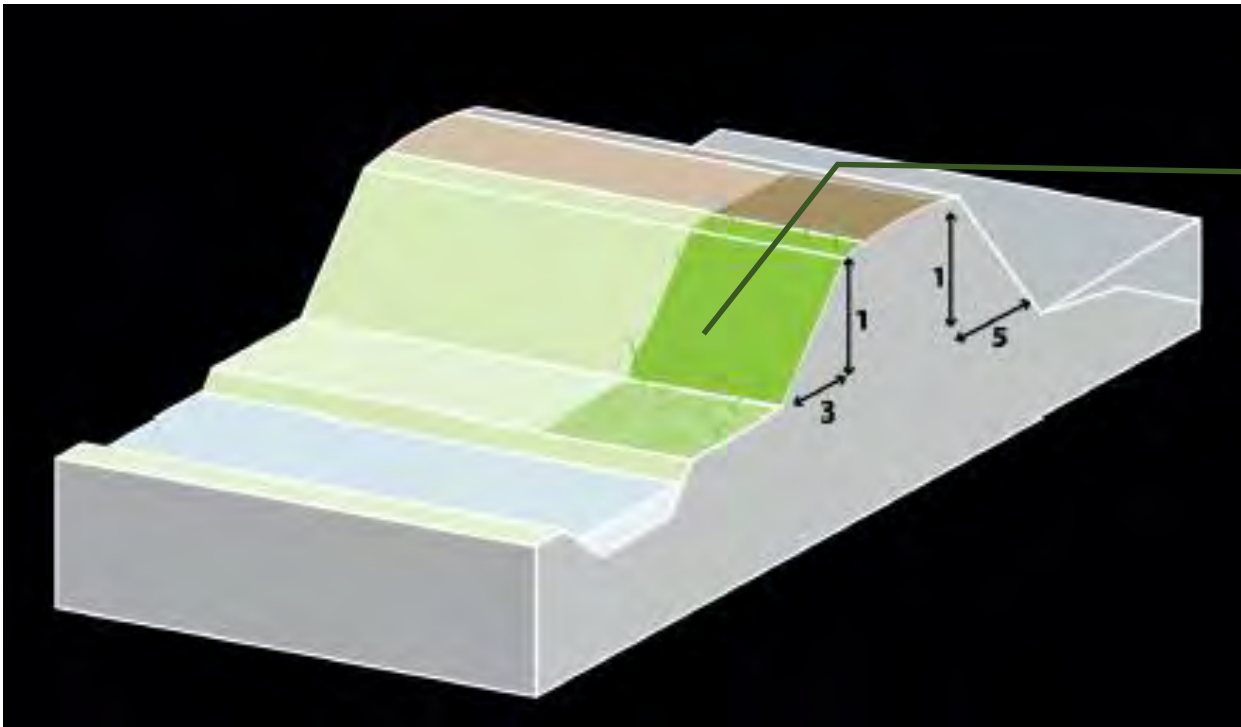
Martin Baptist



Ecological Infrastructure Development

Martin Baptist

Traditional flood defence “Form Follows Function”



green look
and feel

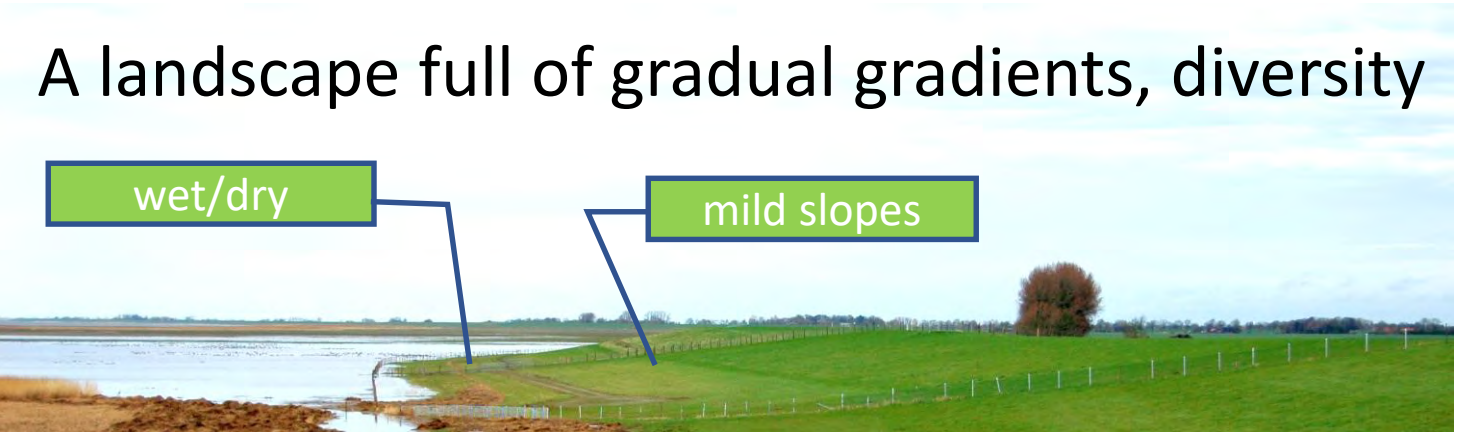


Ecologist's flood defence

"A flood resistant landscape"



A landscape full of gradual gradients, diversity



and multiple zoning

