



**THE NEED FOR
DATABASES AND
VIEWERS**

**TO SUPPORT DECISION
MAKING AND LEARNING**

Ankie Bruens (Deltires)
Gemma Ramaekers (Rijkswaterstaat)



Introduction – Coastal Management

Policy:

Highwater safety → Coastline & Coastal Foundation maintenance
~12 Mm³/y (Shoreface, Beach & Gully) Nourishments

Implementation:

Nourishment program & monitoring program

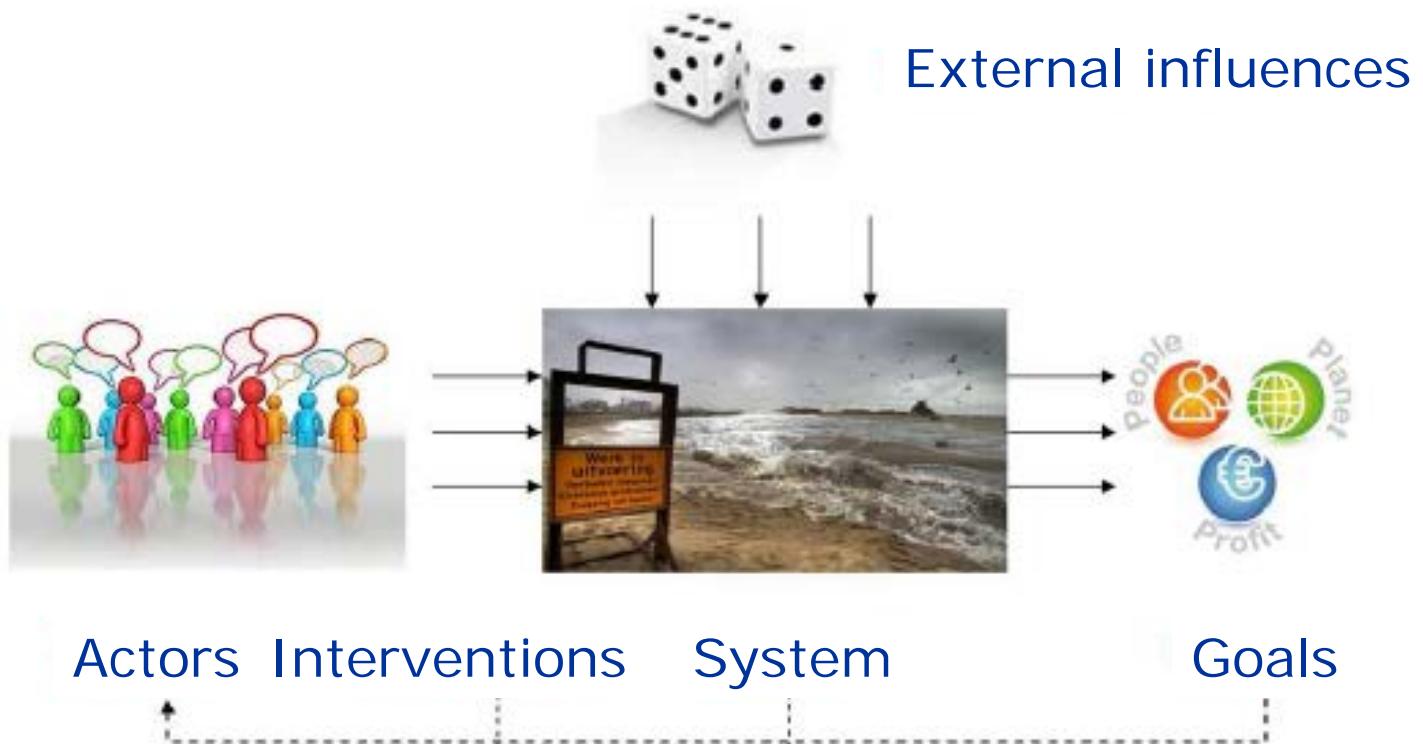
Learning:

Implementation program: natural system & governance



General Aim of a Database & Viewer

- Necessary types of information:
 - natural system (e.g. morphology)
 - nourishment history
 - agreements
 - user functions
 - etc.
- Possibility to easily visualize & provide the information (e.g. for research, advisors, actors etc.)
- Source for gaining insights into Nourishment strategy & Policy





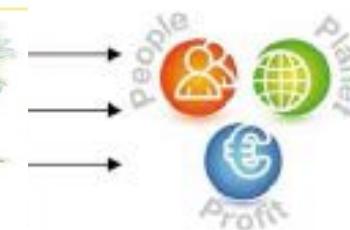
System





External influences





Goals



Interventions





Katwijk



Waterschap Scheldestromen

Actors



Rijkswaterstaat

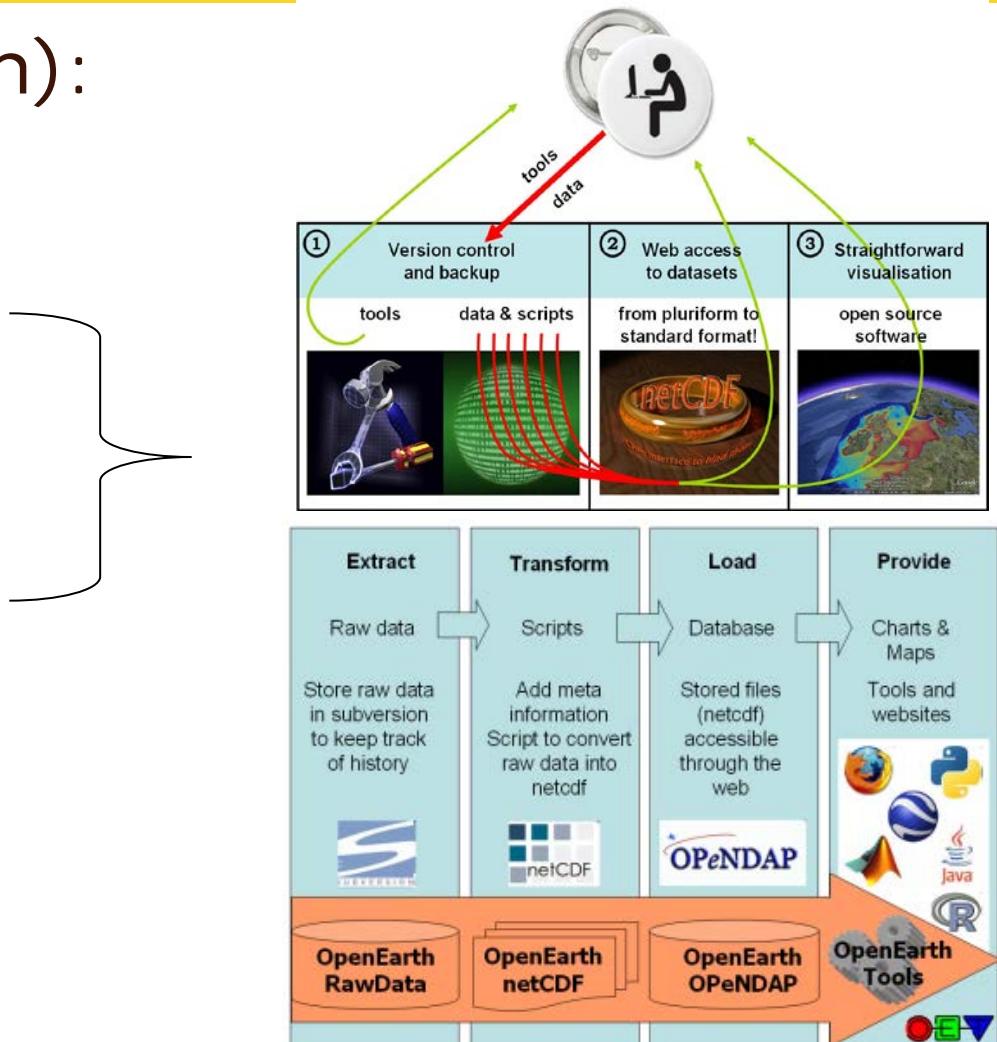


Rijkswaterstaat
Ministerie van Infrastructuur en Milieu



Database (OpenEarth):

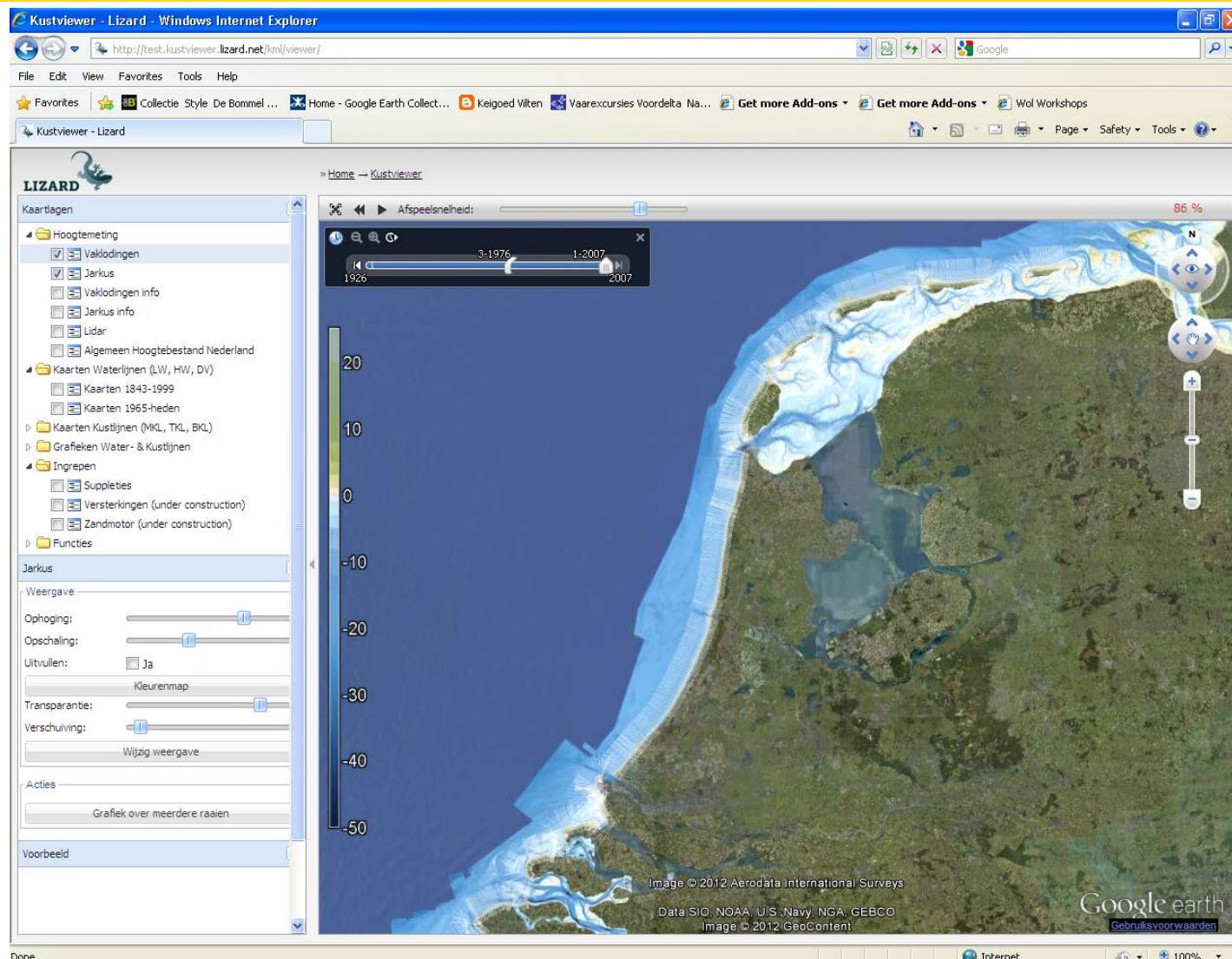
- = open
- = all necessary information
- = uniform format
- = communicate with software

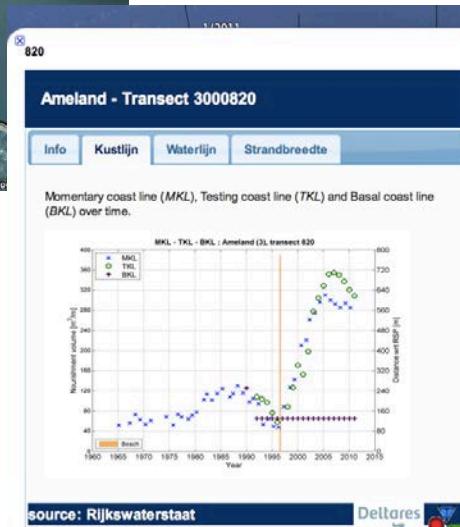
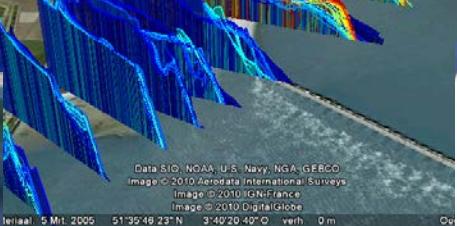
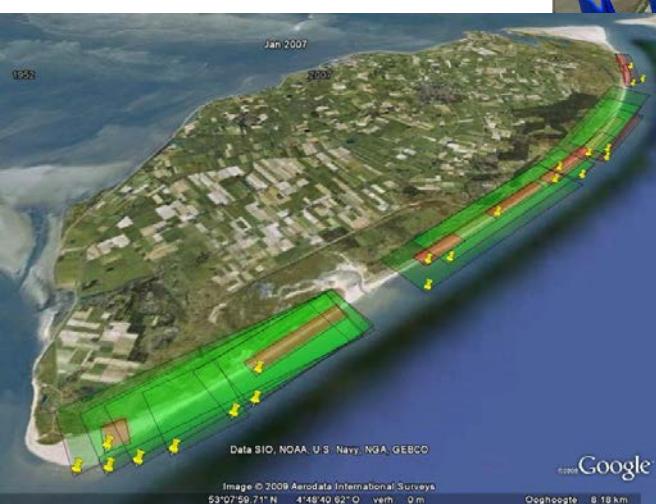
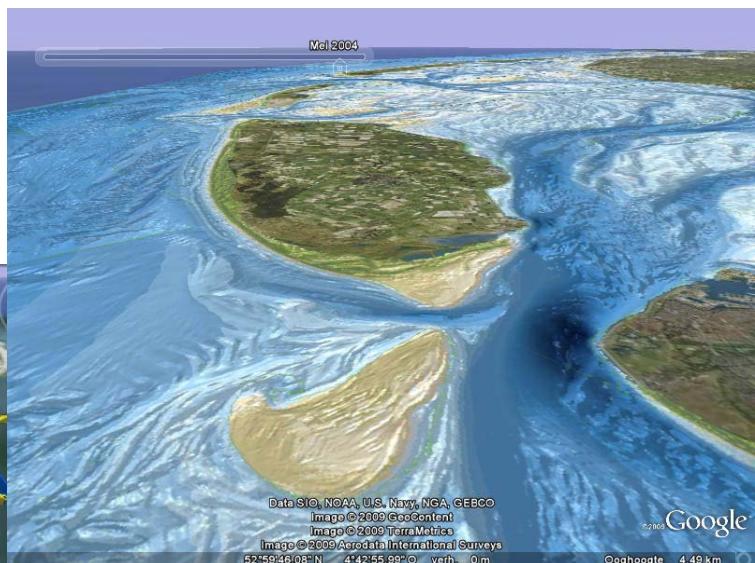
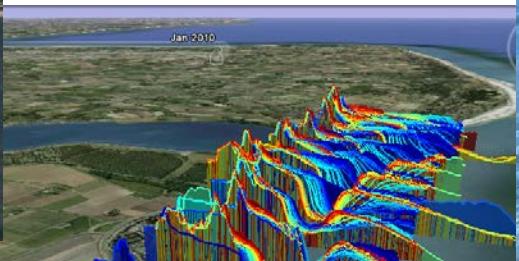


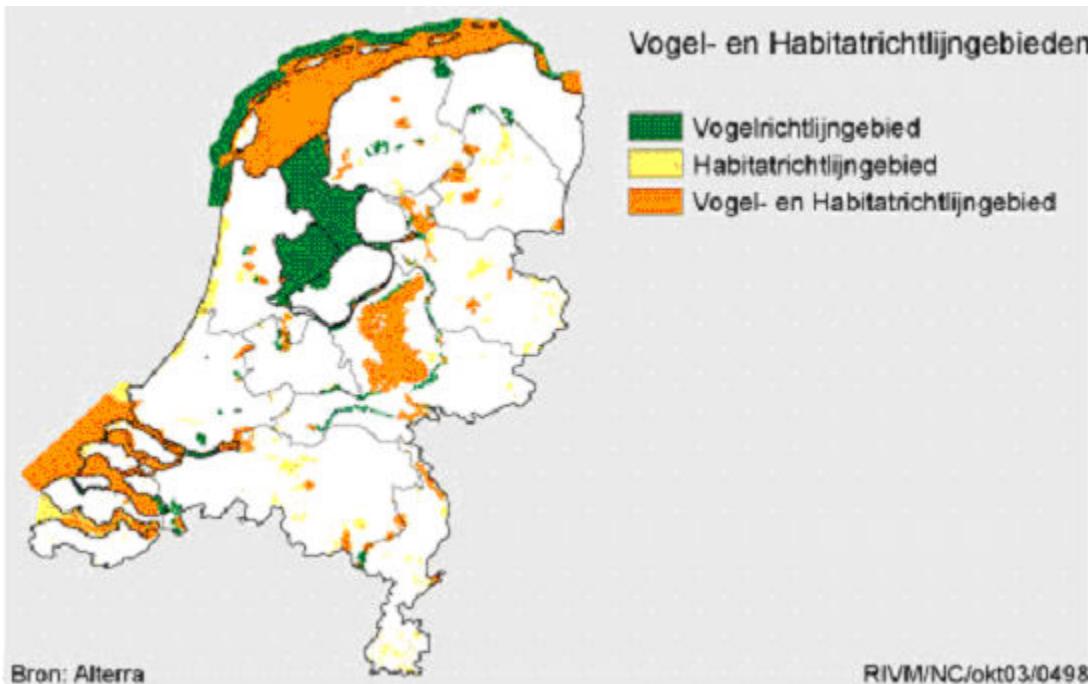
<http://publicwiki.deltares.nl/display/OET/OpenEarth>

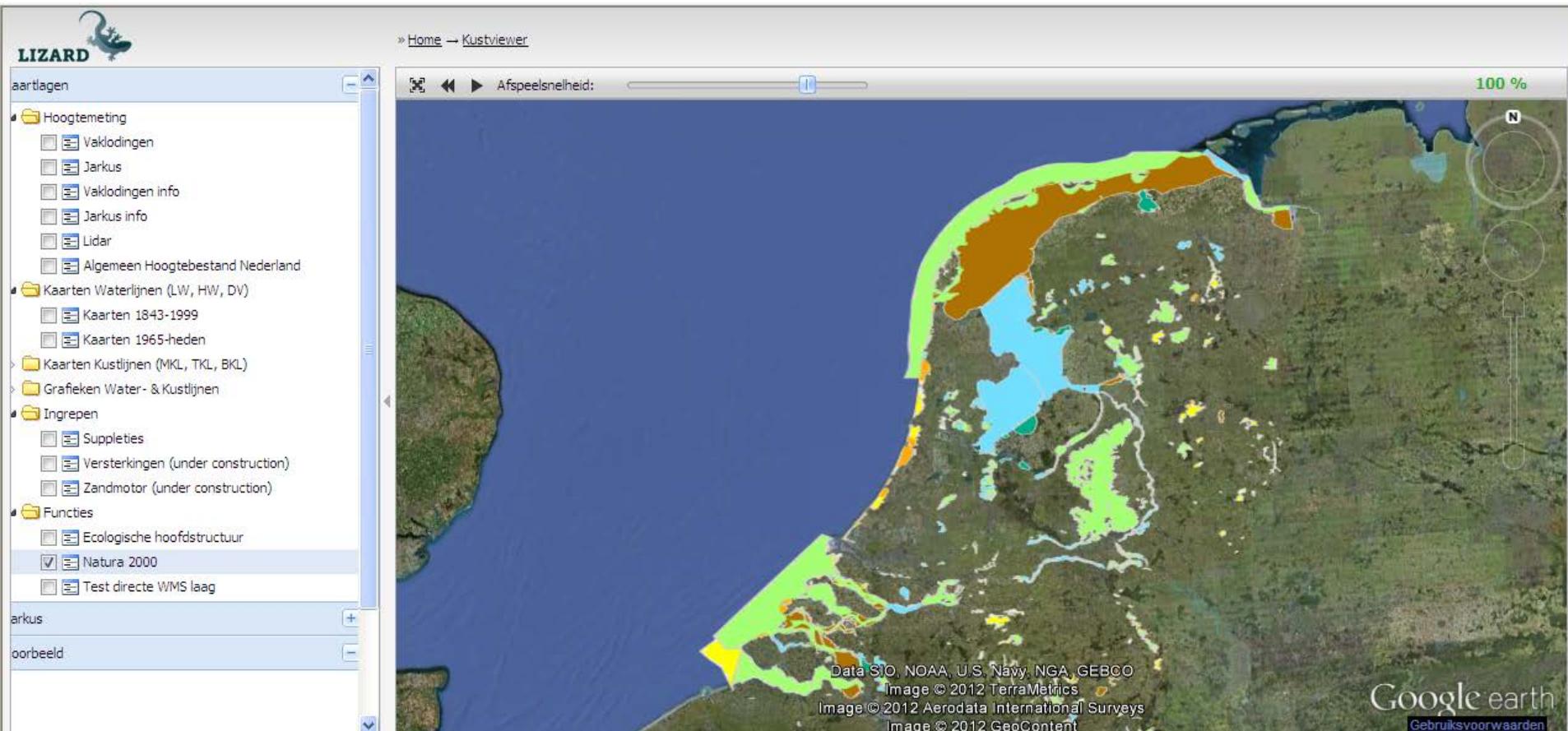


The Viewer











Result – Coastal Management

Monitoring and storage of information in a database and visualisation within a viewer → an efficient learning proces is possible → Base for sustainable Coastal Policy



Learning:

Implementation program: natural system & governance



Thank you for your attention

Future viewer link: <http://kustviewer.lizard.net>



The cover of the report features the Royal Coat of Arms at the top left, followed by the text: 'Raad van State, Rijksoverheid, Adres: Den Haag, Straat 1, Postbus 20000, 2500 PS Den Haag, Nederlandse Overheid, Centrale kantoor voor Waterstaat, Kabinet voor Economische Zaken en Kabinet voor Infrastructuur en Milieu'. At the top right is the Deltarès logo with the tagline 'Enabling Delta Life'. Below the title, there is a photograph of a sandy coastline with small boats. The main title 'KNOWLEDGE CONTINUM FOR COASTLINE MANAGEMENT IN THE NETHERLANDS' is centered in a green band. The report is divided into two main sections: 'Coastline Management' and 'Knowledge continuum'. The 'Coastline Management' section discusses the Dutch coastal research program and its goals. The 'Knowledge continuum' section explains how research findings are used in policy making and management. A diagram shows the relationship between 'Coastal research' (with three layers: Tidal, Network, and Base), 'Coastline Management' (with three layers: Policy, Management, and Practice), and the 'Knowledge continuum' (with three layers: Data, Hypotheses, and Theory). A table provides examples of research types and hypotheses for each layer. The 'Conclusions' section highlights the need for continued research and collaboration.