

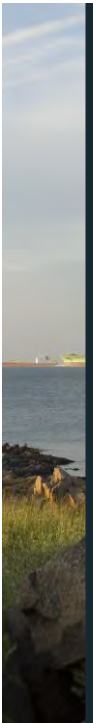
# WaddenGIS – An innovative WebGIS for the Wadden Sea Region

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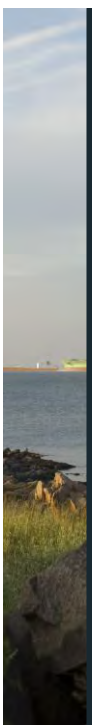
Wadden Sea Forum , Den Helder, 17<sup>th</sup> – 18<sup>th</sup> May 2011



## The idea!

Open and transparent spatial information for the Wadden Sea Region

- Trilateral
- Crossing administrative borders (e.g. land - coastal waters - EEZ)
- Cross sectoral
- Easy to access and easy to use
- Maps and information from different sources shown in one common symbolisation
- Information on both existing and planned uses
- A tool helping stakeholders to identify pressures, processes and conflicts in the Wadden Sea Region
- A tool helping stakeholders to develop own cross-border solutions and to participate actively in decision making processes



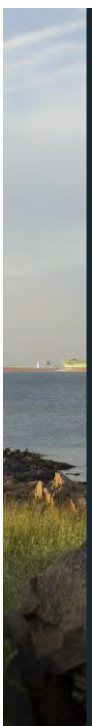
## What is used?

### Content

- Data licensed from national and regional authorities
- Proved data from European agencies and international organisations
- Proved scientific data (planned)

### Technics

- OpenSource UMN Mapserver
- MapFish AddOn



## Current status

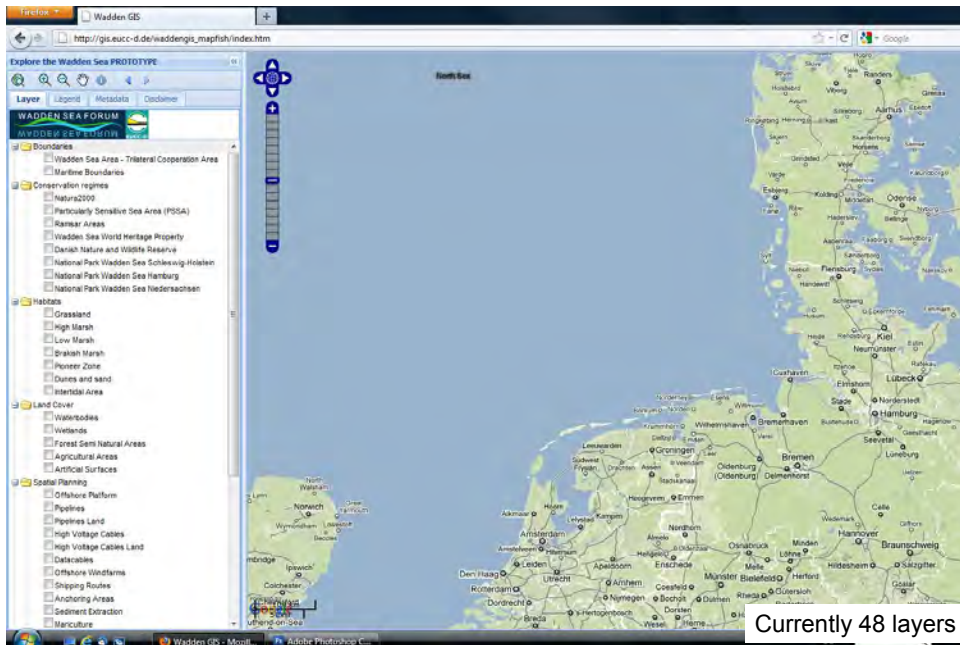
WSF and EUCC agreed in 2010 to develop the WaddenGIS in a step-by-step approach starting with a basic package.

This package includes the general setup of the WebGIS (server and software) as well as following content

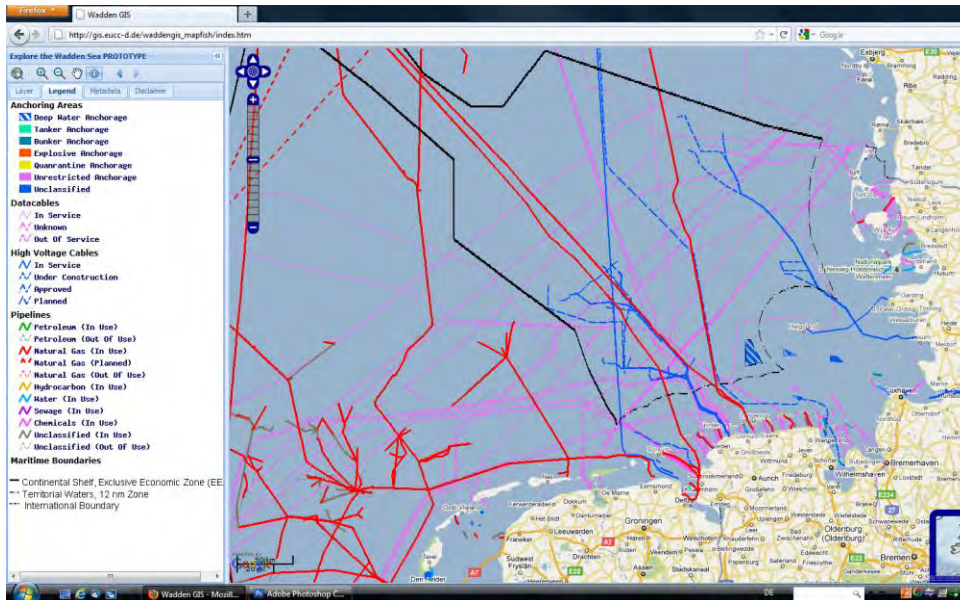
- Trilateral Cooperation Area
- Protected Areas (RAMSAR, SAC, SPA, PSSA, National ...)
- Habitat types (dune and sand, intertidal area)
- Background layer (Google Satellite, Google Terrain, OpenStreetMap)
- Nautical charts DE, DK, NL (extracts: facilities, borders)
- Spatial planning in EEZ DE, DK, NL
- CORINE land use data
- Borders
- Spatial Planning DE, DK, NL (coastal waters, extracts regional planning)
- Harbours (specialisation, data delivered by WSF)
- Bathymetry
- Beaches (EEA data)
- Layer groups Energy & Mining

May 2011: PROTOTYPE version online (work in progress)

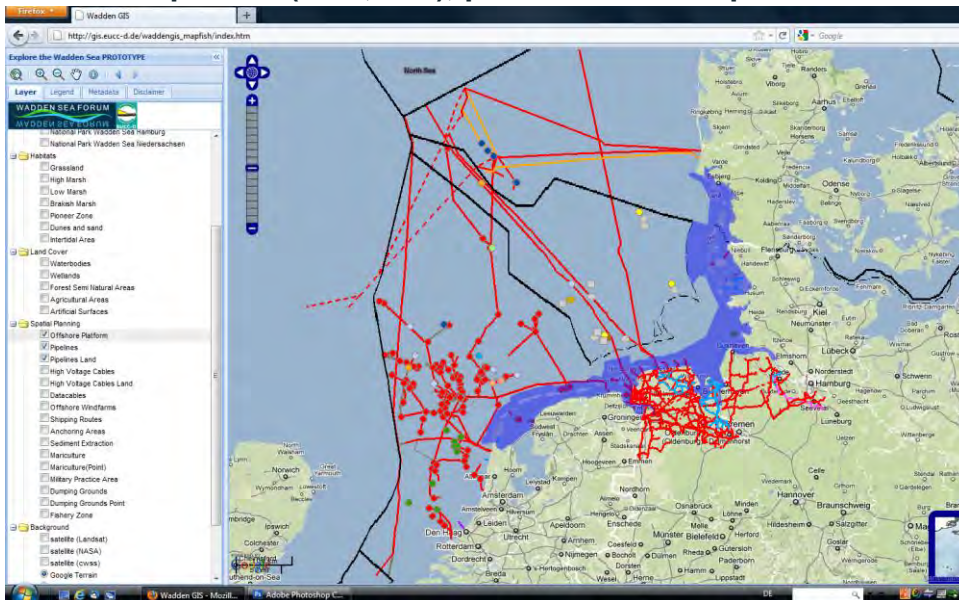
### Look and feel – version 05/2011



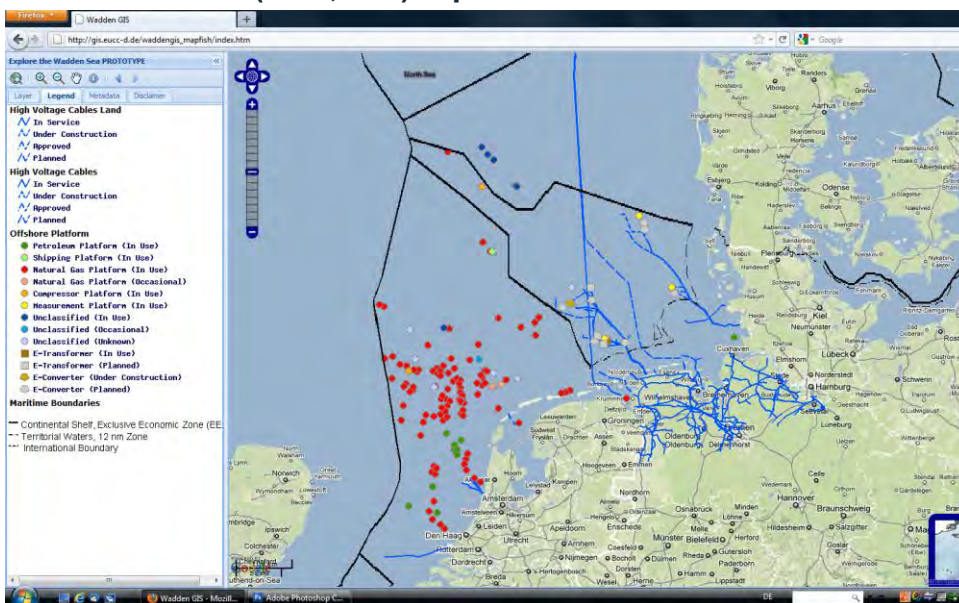
### Example: Cables, pipelines & anchorage areas



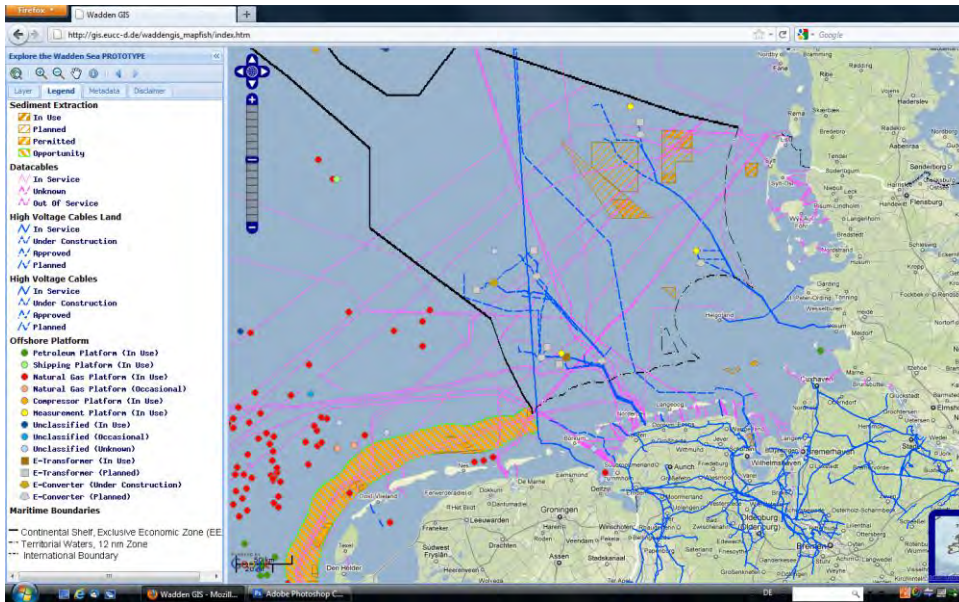
### Example: Pipelines (land, sea), platforms & co-operation area



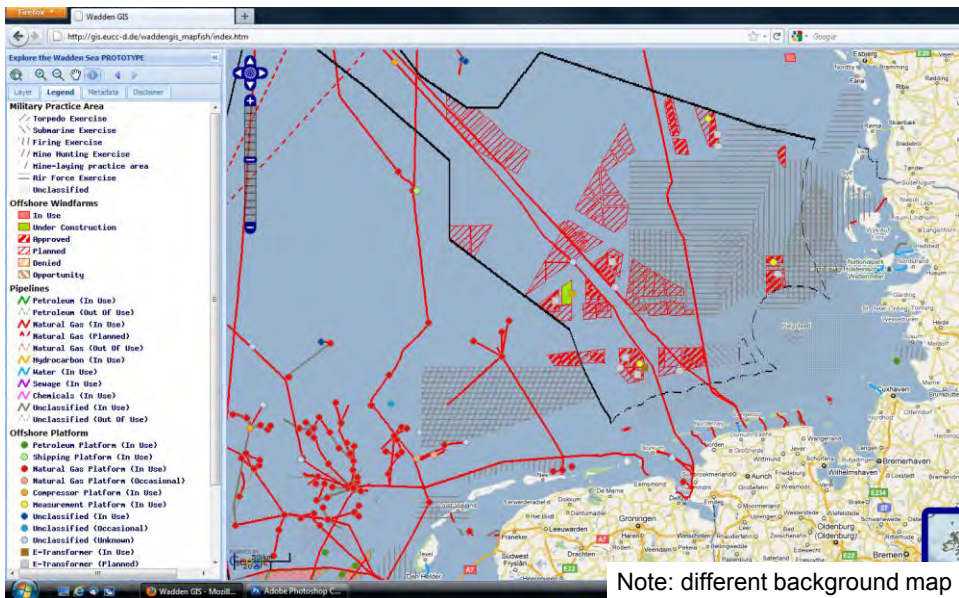
### Example: Cables (land, sea) & platforms



### Conflicts: Sediment extraction vs. cables & pipelines

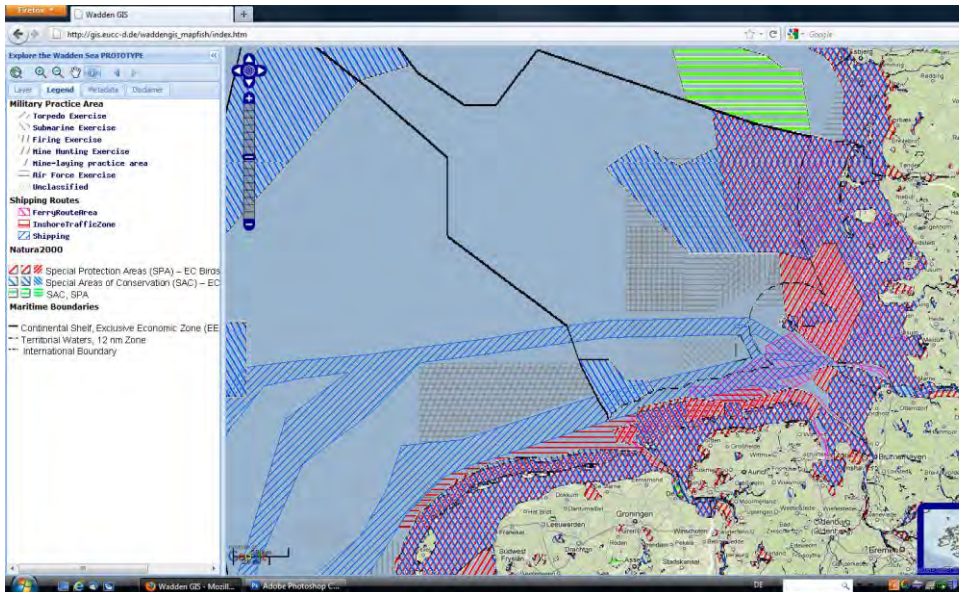


### Conflicts: Military vs. pipelines, wind farms & platforms

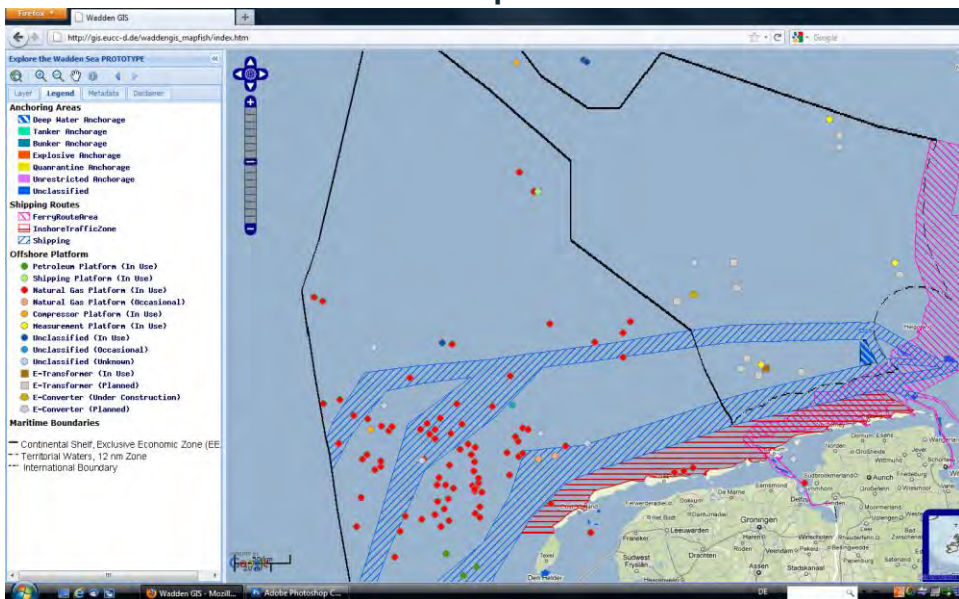


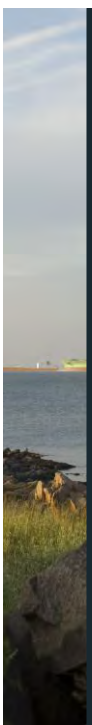
Note: different background map

## Overlapping uses and functions: Natura 2000, shipping & military



## Conflicts: Platforms vs. traffic separation scheme

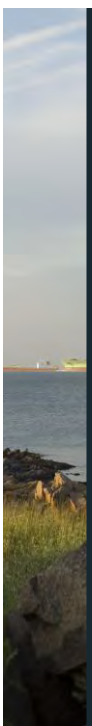




## Outlook & future possibilities

### Next steps:

- Adding further content
  - Additional borders
  - Nautical charts DK (extracts)
  - Spatial Planning DE, DK, NL (coastal waters, extracts of land-based regional planning)
  - Spatial Planning EEZ DK, NL
  - Harbours (specialisation, data delivered by WSF)
  - Bathymetry
  - Beaches (EEA data)
  - Layer group Energy
  - Layer group Mining
- First final version (basic package) until end of 2011



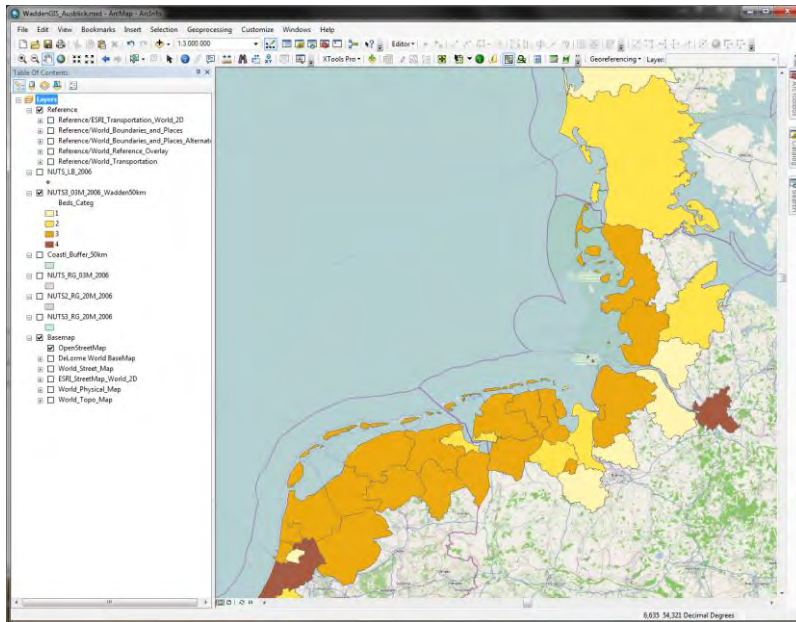
## Outlook & future possibilities

### Future possibilities:

- Linking the Sustainability Indicator Tool with the WaddenGIS (partly)
- Further increasing the attractiveness of the WaddenGIS by adding
  - more social and anthropogenic data (e.g. employment rates)
  - more economic data (e.g. tourism, marinas, fishery)
  - Archaeological sites, CO<sub>2</sub> storage
  - scientific data (e.g. modelling data, monitoring data)
  - updates and revisions of existing data

Co-operation with other partners and projects / becoming part of projects.

## Outlook & future possibilities – Tourism data



## Outlook & future possibilities – Social data

