



Baltic  
InteGrid

Integrated Baltic Offshore  
Wind Electricity Grid Development

# GIS Data collection

- what has been done so far

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# MIG in Baltic InteGrid project

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## WP1: Project management and administration

## WP2: Baltic Offshore Grid Forum

GoA 2.2 Organisation of the seminars of the working groups

GoA 2.4 Conference organization and general communication tasks

## WP3: Development of the Baltic Grid Concept

GoA 3.2 Market & Supply Chain

GoA 3.3 Technology & Grid Design

GoA 3.4 Environment & Society

GoA 3.5 Spatial Planning (**Maritime Institute in Gdańsk**)

*Activity 1: Analysis of current development of maritime spatial plans in the BSR*

**Activity 2: Data collection and analysis**

*Activity 3: Establishment of key spatial constraints*

*Activity 4: Identification of potential infrastructure corridors for the Baltic Grid*

## WP 4 – Prefeasibility Studies

GoA 4.2 Prefeasibility study for the Polish-Swedish case study

## WP 5 – Recommendations

GoA 5.2 - Recommendations to the Maritime Spatial Plans

# GoA 3.5 Activity 2: Data collection and analysis

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## Activity 2:

### Data collection and analysis

The data required to identify the spatial placement of Baltic Grid elements will be collected in GoA 3.4.

GoA 3.5 requires the spatial assessment of this data and the identification of data gaps.

Those missing data elements required for the selection of the Baltic Grid location will then be collected or created.

# GIS data for BIG project

## Relevant data for GRID spatial analysis:

- 1) offshore wind farms (existing and planned);
- 2) linear infrastructure elements (existing and planned):
  - power cables
  - contacting points on land

## Background data:

- bathymetry
- nature protection
- navigation lines
- commercial fishery bottom trawling
- underwater cultural heritage areas
- anchorage areas
- bottom surface sediments
- chemical weapon

## and:

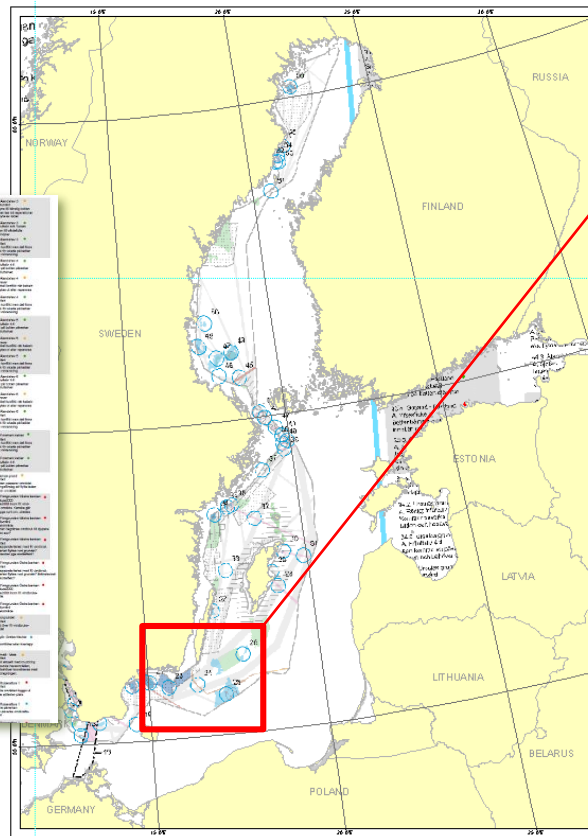
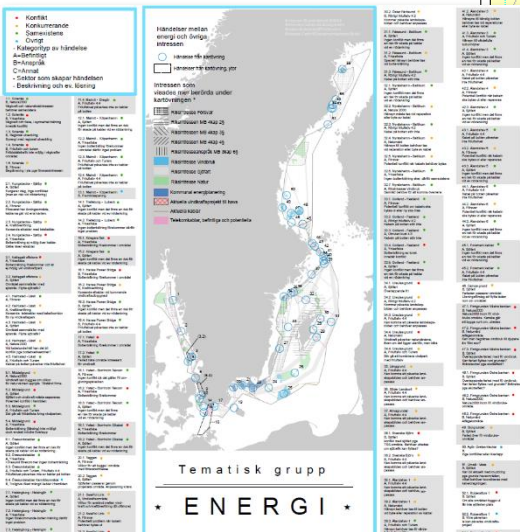
- other oceanographic elements
- bottom habitats
- military exercise zones
- other linear infrastructure
- sediment contamination



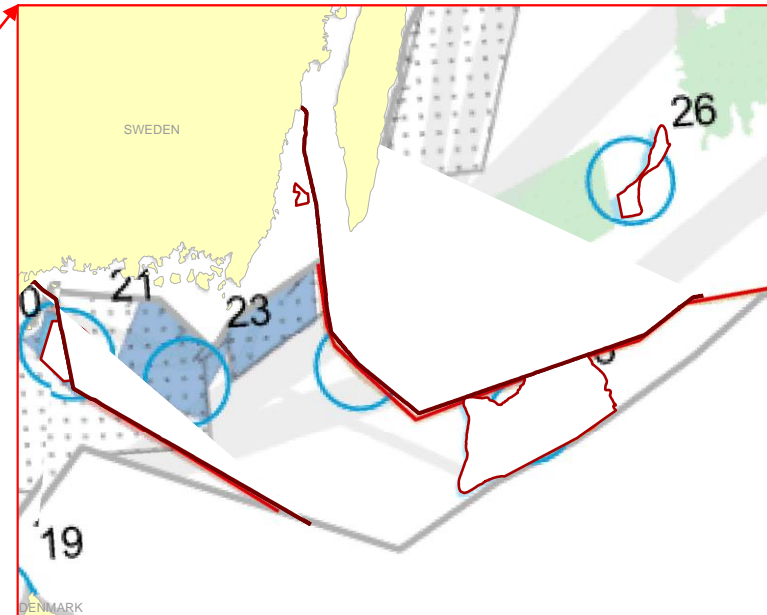
# Analogue vs digital GISdata

document into geographical area

PDF document



zoom to map



data received in GIS format

# What was done in BIG project on GIS

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## GIS Knowledge Base

### BSR data sources:

1. Verification of open databases (HELCOM, Balance etc.)
2. Preparing list of relevant data sources (websites, geoportals)

### Data:

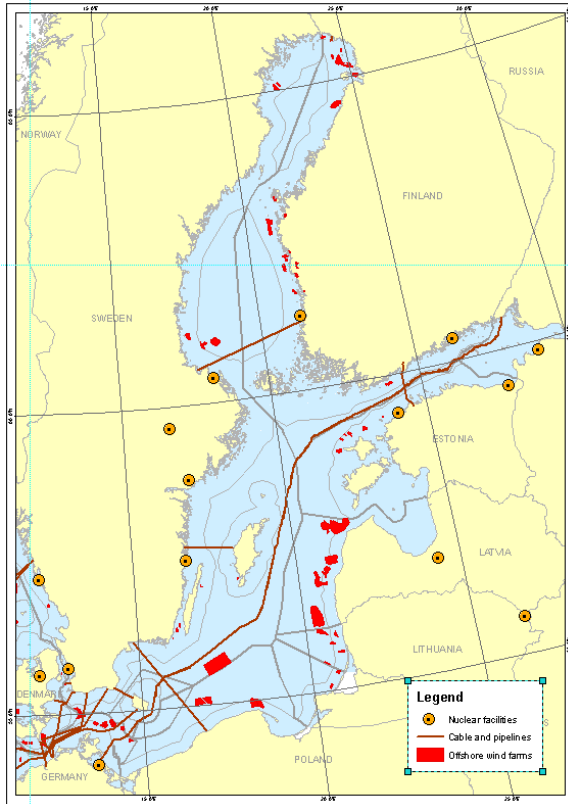
1. Collection of data from PP (infrastructure, OWF)
2. Request letter to administrative bodies from all partner's countries
3. Data visualization

### BIG GIS database:

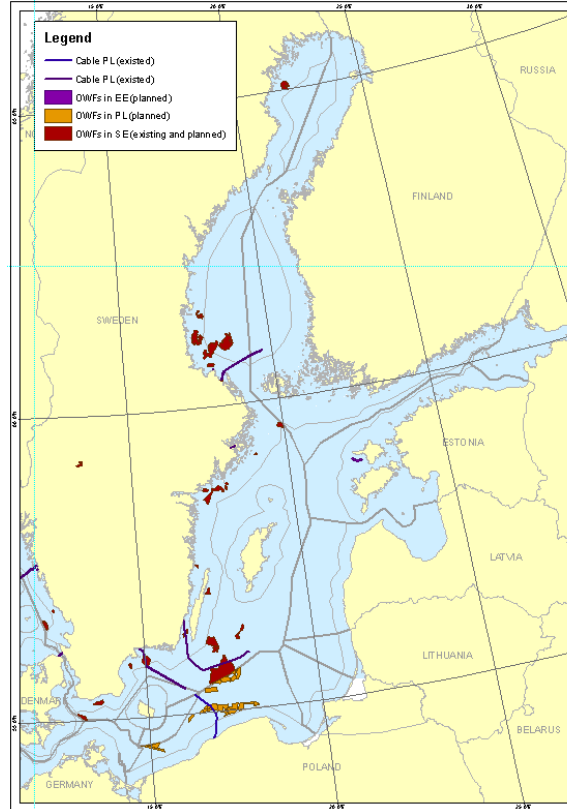
1. Structure for transition database (OWF, infrastructure)
2. Assumptions for final GIS Database

# Data visualisation of OWFs and linear infrastructure

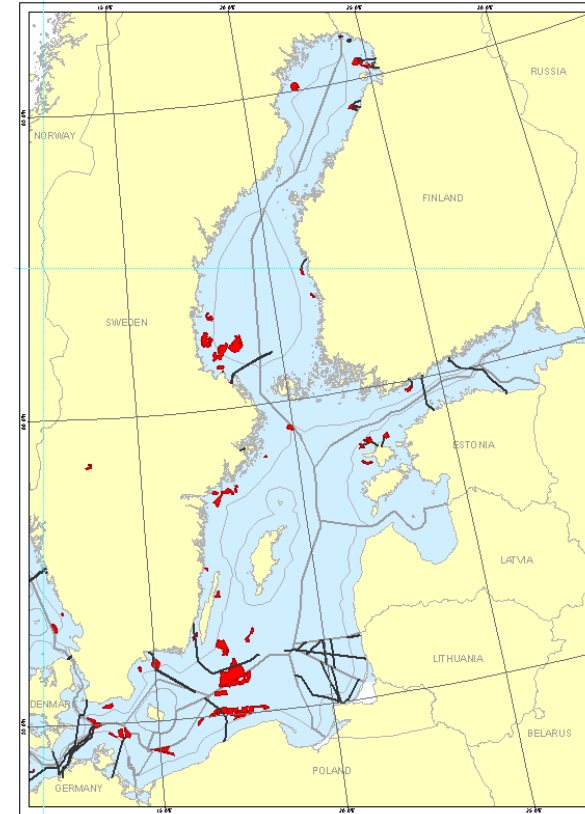
HELCOM GISdata (2009)



BIG GISdata

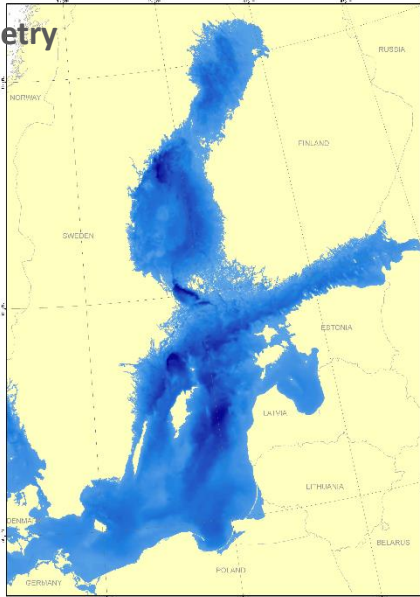


BIG all data (GISdata + digitized data)



# Background data

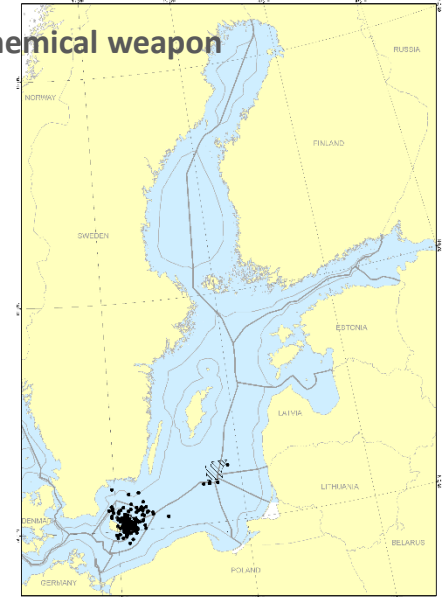
Bathymetry



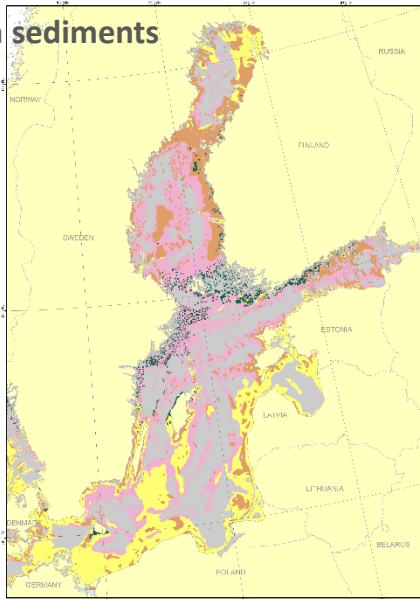
Nature protection



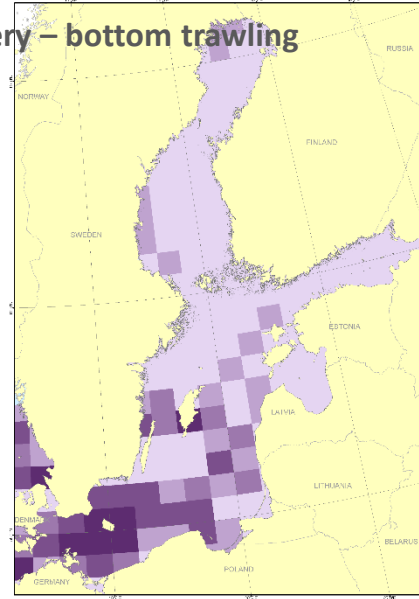
Chemical weapon



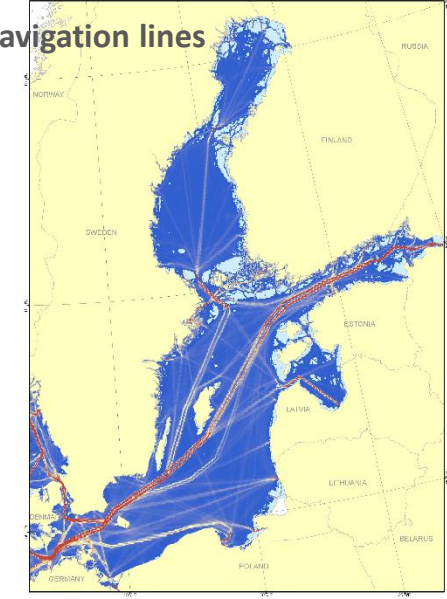
Bottom sediments



Fishery – bottom trawling



Navigation lines



# Next steps

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1. Guidelines for the grid
2. GIS data from administrative bodies (OWF, infrastructure)
3. Updating GIS database
4. Better quality background data

## Questions:

*How to work in case of data gaps (missing data)?*

**Thank you for your attention**