

Status Quo - what do we know? spatial data in the Baltic Sea Region

PP7 MIG

Maritime Institute in Gdańsk

Poland



MIG in Baltic InteGrid project

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





1st Main Task: Data collection and analysis

Activity 2:

Data collection and analysis

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

GoA 3.5 requires the <u>spatial</u> 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.

Spatial data = GIS data = data with geographical placement





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





What was done in BIG project on GIS data

BSR data sources:

- 1. Verification of open databases (HELCOM, Balance project etc.)
- 2. Preparation of the list of relevant data sources (websites, geoportals)

Data:

- 1. Collection of data from PPs (infrastructure, OWF)
- 2. Request letter to administrative bodies from all partner's countries (2 answers received)
- 3. Cooperation with Baltic LINes partners (6 answers, 1 in processing, 1 without answer)
- 4. Data visualization



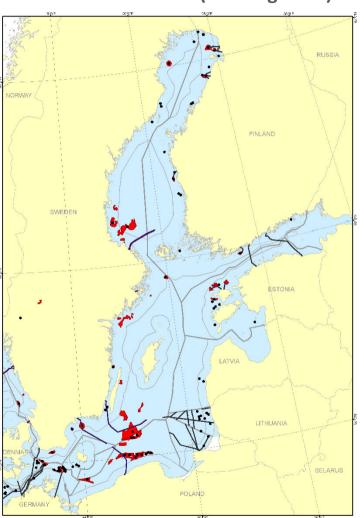


Data visualisation (OWFs + infrastructure)

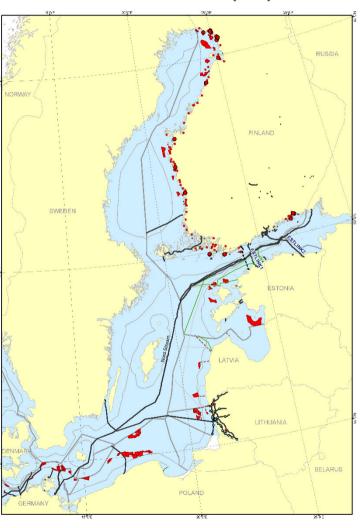
OPEN SOURCES: BIG Partners: BIG: all data **HELCOM: GISdata (2009)** (GISdata + digitized data) **BIG: GISdata** Cable PL (existed) OWFs in EE(planned) Baltic InteGrid 1st Seminar of the TWG on Environment and Society

Data visualisation (OWFs + infrastructure)

Baltic InteGrid data (GIS + digitized)



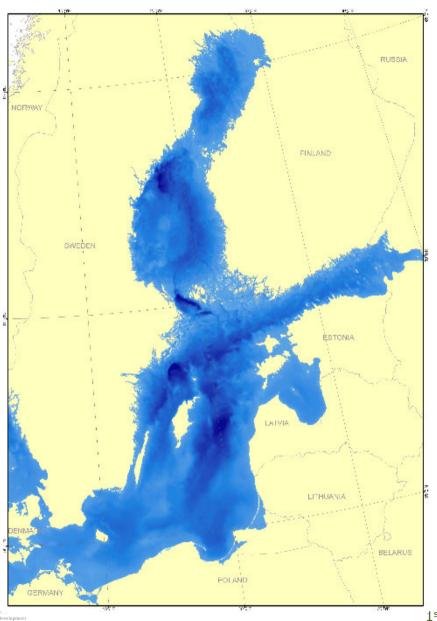
Baltic LINes data (GIS)







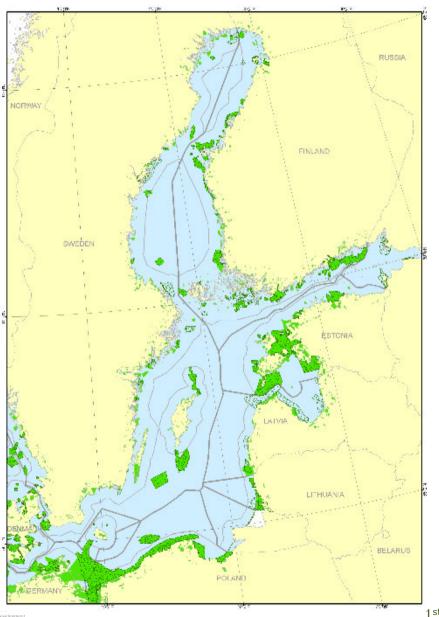
Baltic InteGrid



Bathymetry (2007)



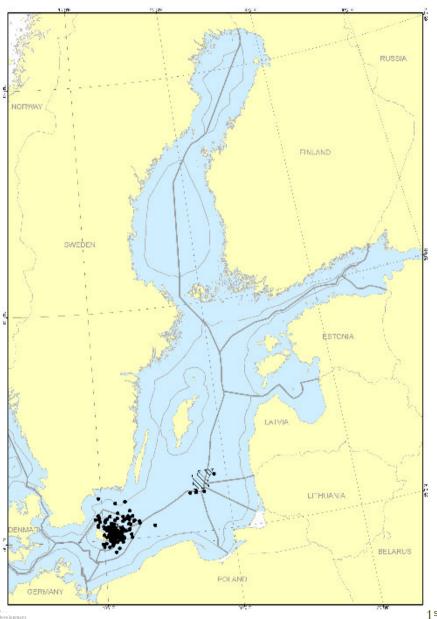
Baltic InteGrid



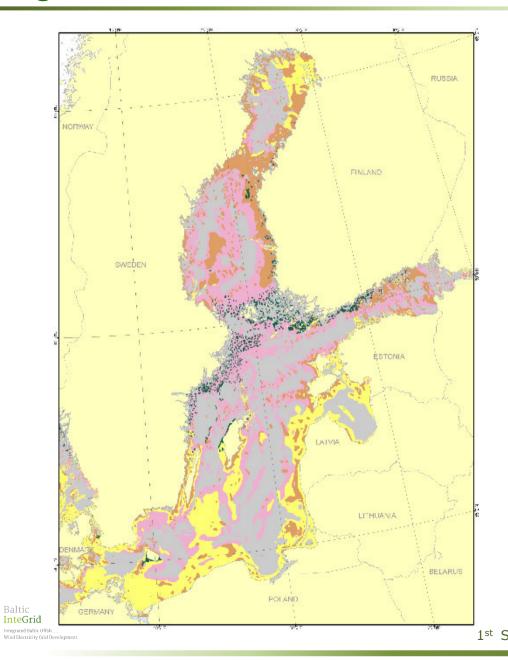
Nature protection (2009)



Baltic InteGrid

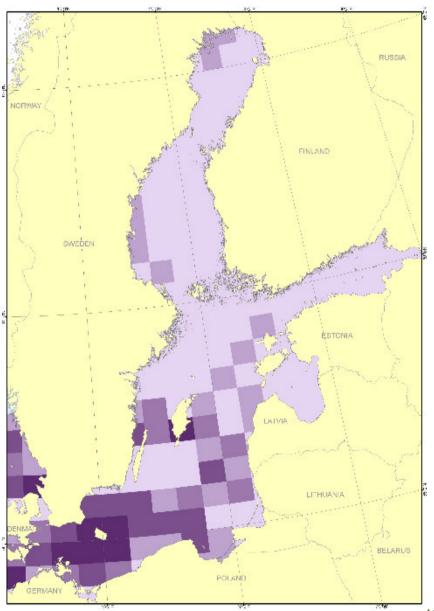


Chemical weapon (2013)



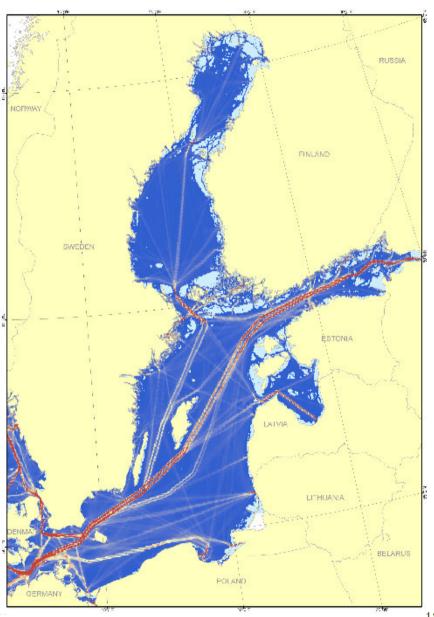
Bottom sediments (2007)





Fishery – bottom trawling (2007)



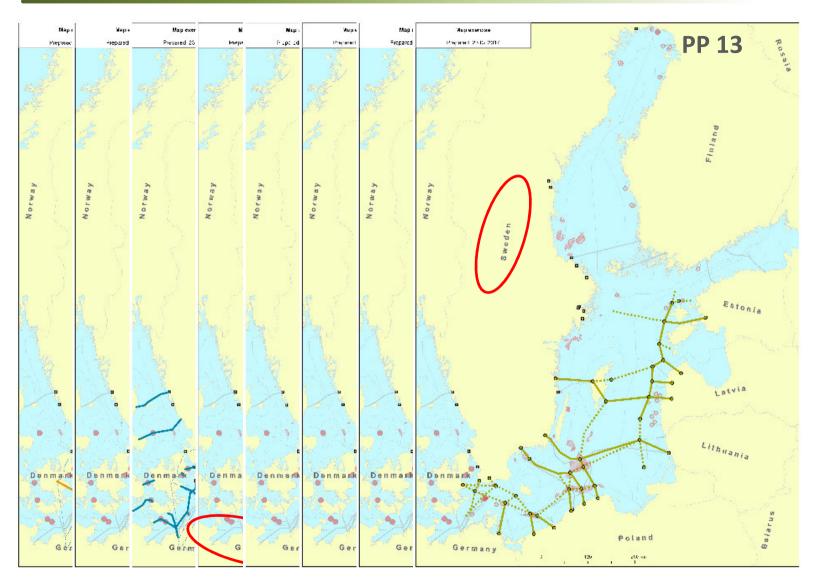


Navigation lines (2011)





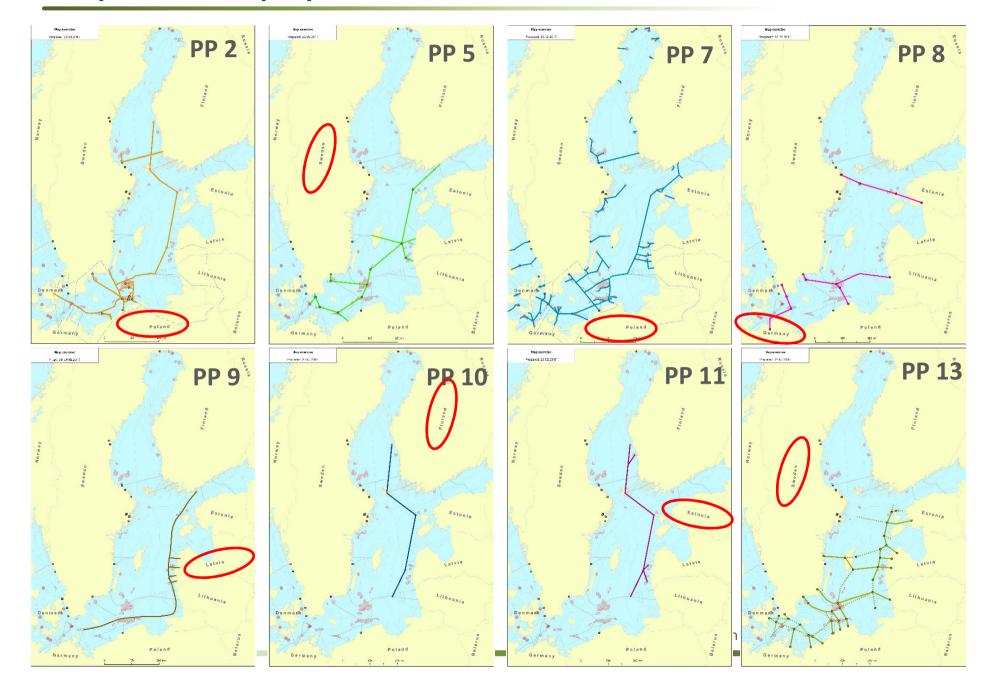
Map exercise - proposition of Baltic Grid variants







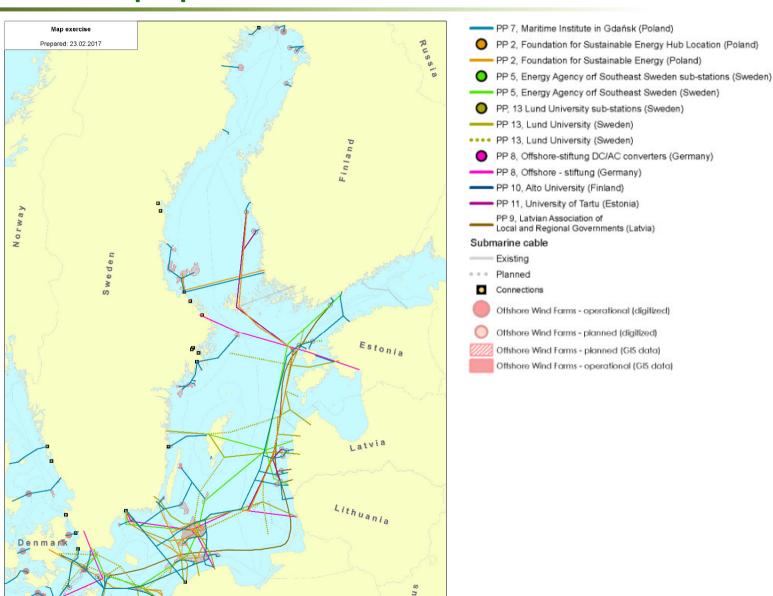
Map exercise - proposition of Baltic Grid variants



Map exercise - proposition of Baltic Grid variants

Poland

250 km







Thank you for your attention

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