

WP5 Task 5.2

Preliminary Issue Identification - the Vistula Lagoon

**A Systems Approach Framework
for Coastal Research and Management
in the Baltic**



Preliminary Issue Identification - the Vistula Lagoon

VL team

Focus Groups to identify most acute problems of the area from a perspective of local communities.

Frombork:

Fishermen, hotel and gastronomy operators, teachers,

Piaski:

Fishermen and hotel operators

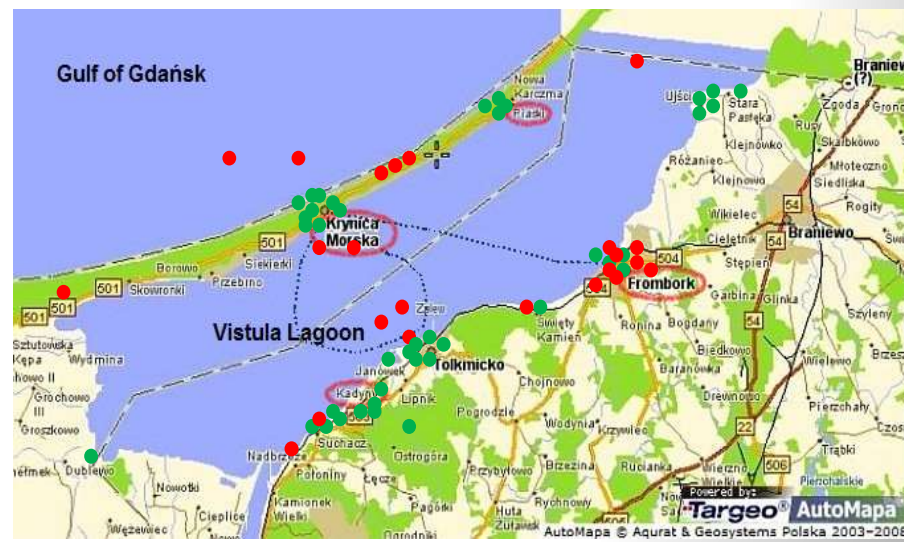
Kadyny:

Citizens and local authority

Krynica Morska:

Fishermen

Result: combined map indicating „best” and „worst” areas.



Citizens Jury as a next step allowing to refine insights and to formulate recommendations and scenario of future lagoon development.



Jurors from:

- *Krynica Morska*
- *Piaski*
- *Braniewo*
- *Frombork*
- *Kadyny*



Experts:

- *Quality of the Vistula Lagoon environment*
- *Problems of the Vistula Lagoon fisheries,*
- *Problems of agriculture in the Vistula Lagoon region,*
- *Regulations and management in the Vistula Lagoon region,*
- *Transport and infrastructure in the Vistula Lagoon (maritime aspects),*
- *Environmental protection of the Vistula Lagoon,*
- *Tourism and recreation in the Vistula Lagoon region.*



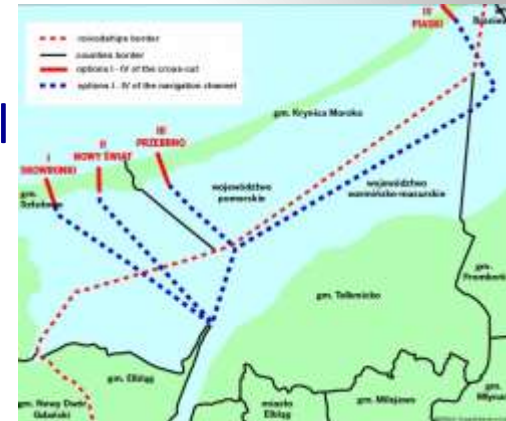
Main directions of further development

- **Tourism as a main factor to boost the region's economical development.**
- **Harbor and sailing infrastructure development** (dredging of navigational channels will follow).
- **Development of alternative transportation connections to the current major routes – ferry connection from Tolkmicko to Krynica Morska** (dredging of navigational channels will follow),



Main directions of further development

- **Construction of the cross-cut through the Spit** as a possibility for economical improvement and navigational independence, however final decision is uncertain.
- **Actions to improve water quality of the Lagoon**
 1. proper management of the dredged sediment,
 2. more comprehensive wastewater treatment
 3. development of ecological agriculture and agro-tourism,
 4. improvement of fertilization and agricultural production control and inspection.
- **Improvement of cooperation** between residents and authorities, decision makers and other interest groups.



Agreement on Issue – Różyński & Bielecka 'GmbH' plus ARCH project team

- All projects indicated need for comprehensive management plan supporting sustainable economic development.
- Tourism and harbours development need to be strengthened as they are key elements for further development of the area.
- This requires dredging of shipping channels in the lagoon and dredged sediment needs to be deposited.
- Dredging and new coastal constructions have also impact on hydrodynamics and water quality.

?

Agreement on Issue - continued

- Few scenarios of possible dredging and construction options will be proposed and the impact of these activities on the lagoon will be assessed with use of hydrodynamic modelling.
- Special focus will be paid to channels siltation processes and assessment of possible methods for sediment utilization and management.
- Sediment sampling is foreseen to determine its quality and accordingly propose appropriate methods of its utilization.
- In addition studies will be performed to assess costs of the proposed methods and their economic effectivity.
- Results will be compared with and the approach will be transferred to the Szczecin Lagoon.

THANK YOU!















