



# ***The Oder Estuary Case Study (IKZM-Oder): State and future challenges***

**Gerald Schernewski**

**Project partners:**

**S. Bock, P. Dehne, W. Erbguth,  
B. Glaeser, G. Janssen, D. Kraft, N. Löser, T. Neumann,  
T. Permien, B. Schuldt, H. Sordyl, W. Steingrube & L. Vetter**

**Baltic Sea Research Institute Warnemünde  
&  
EUCC – The Coastal Union Germany**



## ***Research for an Integrated Coastal Zone Management in the Oder/Odra estuary region (IKZM-Oder)***



**Integrative – interdisciplinary – transsectoral**

**Funding: May 2004 – April 2007; 2 Mio. Euro**

- Baltic Sea Research Institute (IOW) (Coordination) together with EUCC-Germany e.V.
- ARCADIS Consult GmbH, Rostock together with FZI Research Center for Information Technologies, Karlsruhe
- University of Applied Sciences Neubrandenburg, Landscape Architecture and Environmental Planning together with ICBM – University Oldenburg, Junior Research Group IMPULSE
- Social Science Research Center Berlin (WZB)
- University of Greifswald, Chair for Economic- and Social Geography, Greifswald
- Leibniz-Institute of Ecological Spatial Development e.V. (IÖR), Dresden
- University of Rostock, Baltic Institute for Marine and Environmental Law (OSU)
- Institute for Applied Ecology GmbH, Brodersdorf

**In close cooperation with:**

**Regional and local authorities, federal state ministries, local stakeholder and international organisations**



## **Research for an Integrated Coastal Zone Management in the Oder/Odra estuary region:**

### **General aims**

- To carry out research with regional, national and international relevance,
- to establish and maintain a regional (national and international) case study on ICZM in the Oder/Odra estuary region and
- to get a first impression of river basin – coast interactions and the effect of changes in the river basin (land use, global change) on the coast and the sea.

The project is:



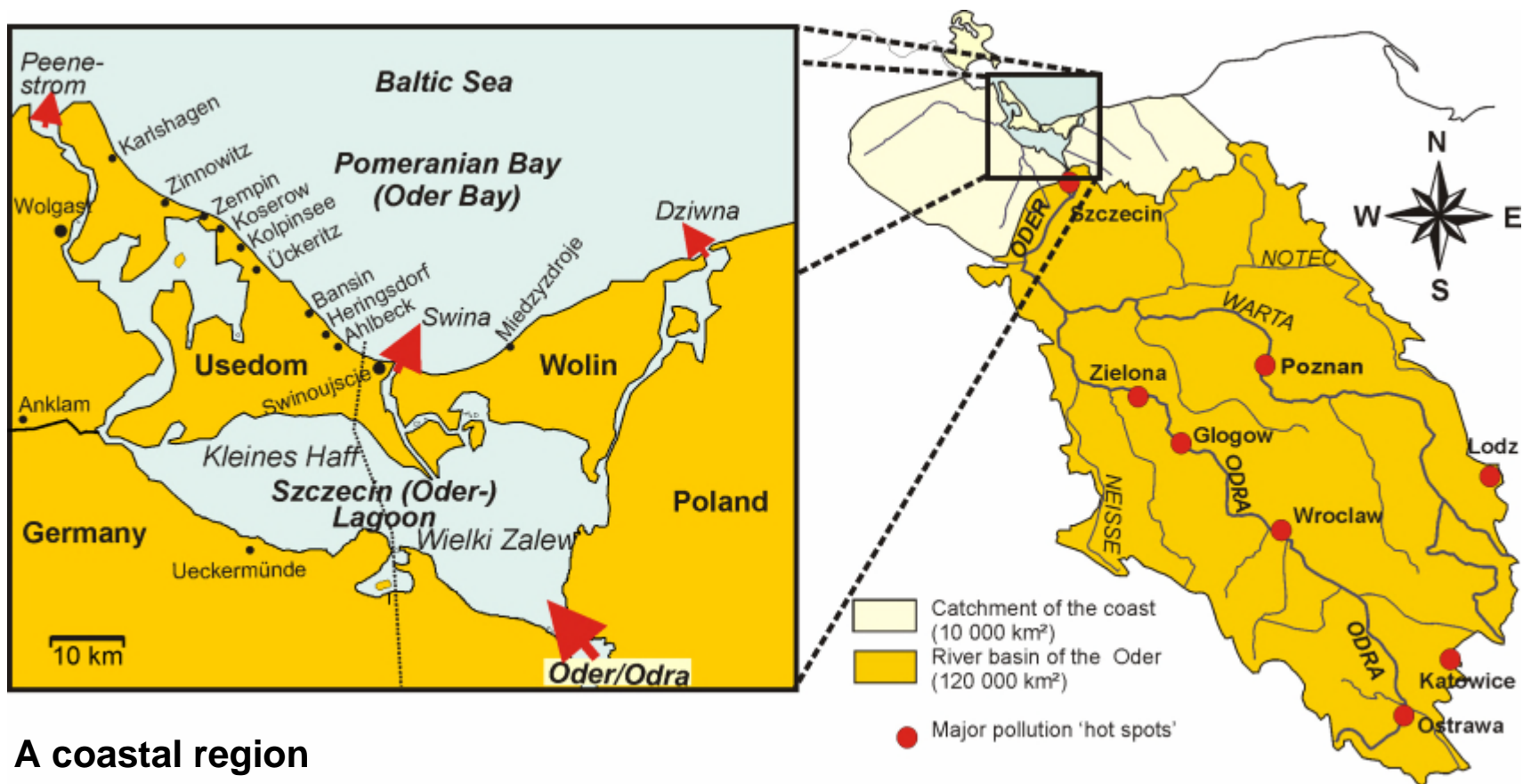
one out of two national German ICZM case studies of the **Federal Ministry of Education and Research**,

an **United Nations Environment Program** “Integrated Coastal Area - River Basin Management (ICARM)” case study,

a **LOICZ** (Land Ocean Interactions in the Coastal Zone) project and

an **EUCC** - The Coastal Union case study.

## The Oder/Odra estuary region



### A coastal region

- characterised by a complex pattern of land, lagoons and sea
- divided between Germany and Poland and
- dominated by the Oder/Odra river basin

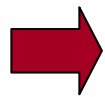
**requires a spatially integrative approach taking care of all these elements !**





## **ICZM-Oder:** **Research activities**

- ICZM stocktaking and evaluation according to the EC-recommendations on ICZM
- Recommendations towards a national ICZM-strategy
- Analysis and evaluation of catchment – coast interactions
- Analysis of climate change impacts on the river basin, their implications for coastal waters and consequences for ICZM and planning
- Harmonisation and integration of German and Polish ICZM-tools and plans
- Integration of coastal waters in planning
- Development and application of indicators for sustainable development and ICZM
- Suggestions towards a sustainable tourism



**Research is based on concrete regional demands, designed to overcome existing ICZM deficits and carried out by an interdisciplinary and trans-sectoral group.**



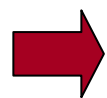
## *How to involve regional people ??*

### **The Regional Agenda 21: Oder Lagoon – Region owned by two nations**

Agreement between the Minister of the Environment Mecklenburg-Vorpommern (Germany) and the Vice-Marshall of the Voivodeship West Pomerania (Poland) (September 2002).

#### **Action programme**

- Education and the development of Local Agendas 21
- Raising of an environmental awareness in the region
- Sustainable tourism
- Ecological landuse
- Marketing of regional products
- Environmentally sound technologies
- Renewable energy
- Protection of the cultural heritage
- **Integrated Coastal Zone Management**
- Scientific co-operation



The Agenda 21 forms the basic political commitment for our work and is the framework and forum for discussions, public participation, co-operation and education across the border and between catchment and coast. It is directly supported by the project.





## IKZM-Oder: Infrastructure activities

- Regional information system 'IKZM-Oder' ([www.ikzm-oder.de](http://www.ikzm-oder.de)) with
- GIS-supported ICZM system Mecklenburg-Vorpommern and
- ICZM-learning and awareness rising system
- Decision Support System



### Aims are

- to integrate and co-ordinate research activities,
- to create permanent structures and to keep results available,
- to form an umbrella for regional activities, data and information,
- to improve the awareness about regional problems and ICZM
- to improve the information exchange between the German and Polish side and
- to evaluate the use of internet-based tools in ICZM.

Das Projekt startete im Mai 2004 und wird vom Bundesministerium für Bildung und Forschung (BMBF) mit einem Umfang von etwa 2 Mio. Euro über eine Laufzeit von zunächst 3 Jahren gefördert. Das Projekt ist eines der beiden nationalen Referenzprojekte zum Integrierten Küstenzonenmanagement (IKZM). Die Ziele der Agenda 21 zur nachhaltigen Entwicklung sind identisch mit den Zielen des IKZM. Die bestehenden, grenzübergreifenden deutsch-polnischen Aktivitäten im Rahmen der vom Umweltministerium Mecklenburg-Vorpommern und der Województwo Westpommern getragenen Regionalen Agenda 21 „Stettiner Haff“ bilden deshalb die inhaltliche und räumliche Grundlage für das Projekt.

Das Untersuchungsgebiet umfasst die Kieme Uecker-Randow und Ostpommern einschließlich der inneren Küstengewässer, also den Ostteil der Planungsregion Vorpommern. Damit wird ein landsideiger Bereich, der zwischen 20- 60 km von der Küstlinie entfernt liegt, berücksichtigt sowie zusätzlich die äußeren Küstengewässer bis zur 12 Seemeilen-Grenze einbezogen. Der beschriebene Raum wird als Küstenzone der Oder bzw. Odermündungsregion bezeichnet.

Copyright © 2004 IKZM Ostp. Ministerium: BMBF, BfL  
Leiter: Inhabende Abteilung: BMBF, Stand: 20.08.2004, 10:20 Uhr  
Revizor: 301, Stand: 20.08.2004, 17:46 Uhr



## ***Perspectives:***

- Coastal waters play a major role in the Oder/Odra estuary and coastal water planning is insufficient
- The Oder/Odra river is the major link in the region and controls coastal waters and the coast. It makes an ICZM largely impossible.
- Integrated coastal area - river basin management (ICARM) is lacking. The coast is regarded as an appendix of the large river basin.



***Focus on coastal waters***



***Focus on integrated coastal area – river basin management***



***Focus on future challenges (political, social and economic changes as well as climate change)***