INSPIRE Web Services for Maritime Affairs in Germany

Matthias Pramme
Introduction to BSH

Relevant INSPIRE Themes

Implementation – Water Transport Networks

Problems and Difficulties

Future Work
Tasks of BSH

- Storm tide warnings
- Production and publication of official nautical charts and nautical publications
- Designing areas and licensing of offshore wind farms
- Services for maritime transport, such as law of the flag, tonnage measurement, international ship register
- Authorization and supervision of radar, navigation and safety fittings
- Marine monitoring through a combination of different monitoring methods including shipboard measurements
- Prosecution of environmental crimes
Customers of BSH

- Shipping and other industries from maritime affairs
- Navy
- Coasters
- All people, who need data and information about the sea
  - Economy
  - Science
  - Public Service
  - Politics
  - Communication Media
  - Publicity
GeoSeaPortal - Central Access Point to GDI-BSH
# Relevant INSPIRE Themes for BSH

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## Relevant INSPIRE Themes for BSH

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Implementation of INSPIRE at BSH

LAN

FIS

data storage

FME Desktop

DMZ

Firewall

ETL (FME Server)

INSPIRE application schemes

INSPIRE data

INSPIRE web services (deegree)

INTERNET

customer

www.bsh.de

www.geoseaportal.de
Implementation - Water Transport Networks
Source Data IHO-S-57
Source Data IHO-S-57

Transformation with FME-ISP
Source Data IHO-S-57

Transformation with FME-ISP

INSPIRE Data
Implementation - Water Transport Networks
Implementation - Water Transport Networks
Implementation - Water Transport Networks
European Network
Problems and Difficulties

- Existing data models of Annex III not fully implemented, e.g. OF and SR

- Too less software for interpretation of the application schema (GML)

- Missing coordination between different EU authorities.

- Providing of oceanographic data in different projects like EmodNET, SeaDataCloud, Copernicus

- How can we link INSPIRE and other Projects together?
Future Work

• Publication of INSPIRE web services concerning to Annex I themes until end of 2017

• Providing of INSPIRE web services concerning to Annex I+II per schedule

• Providing INSPIRE web services (e.g. Environmental Monitoring Facilities) in conjunction with german federal states (MDI-DE)

• Intension of supporting of monitoring reporting together with german federal states (e.g. MSFD)
Thank you very much!