BLAST

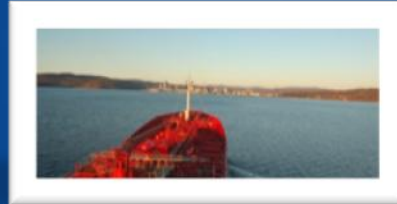## Bringing Land and Sea Together

BLAST – facts and figures

- A regional project under EU's Interreg IVB North Sea Region Programme

- Project period 2009-2012

- Total budget approximately € 6,300,000

- 17 Partners from 7 North Sea countries

- Public, private and university sectors

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BLAST – partners

- **Norwegian Hydrographic Service (lead partner)**
- **Norwegian Coastal Administration**
- **National Survey and Cadastre - Denmark**
- **Danish Coastal Authority**
- **DTU Space (National Space Institute) - Denmark**
- **Local Government Denmark**
- **Aalborg University - Denmark**
- **Federal Maritime & Hydrographic Agency - Germany**
- **Jeppesen GmbH - Germany**
- **Delft University of Technology, Faculty of Aerospace Engineering - the Netherlands**
- **T-Kartor AB - Sweden**
- **Malardalen University - Sweden**
- **Natural Environment Research Council - United Kingdom**
- **Seazone Solutions Ltd. - United Kingdom**
- **UK Hydrographic Office**
- **Agency for Maritime and Coastal Services – Belgium**

- Hjoerring Municipality - Denmark (sub-partner)
- Lolland Municipality - Denmark (associated partner)
- Port of Oslo - Norway (associated partner)
- Swedish Maritime Administration (associated partner)
- Icelandic Maritime Administration (associated partner)
- Kristiansand Municipality - Norway (associated partner)
- National Environmental Research Institute, Aarhus University – Denmark (associated partner)

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Why Bringing Land and Sea Together?

- North Sea nations handle geospatial data independently

- Little integration of land and sea data

- Lack of collaboration between countries

- Increasing pressure on coastal areas

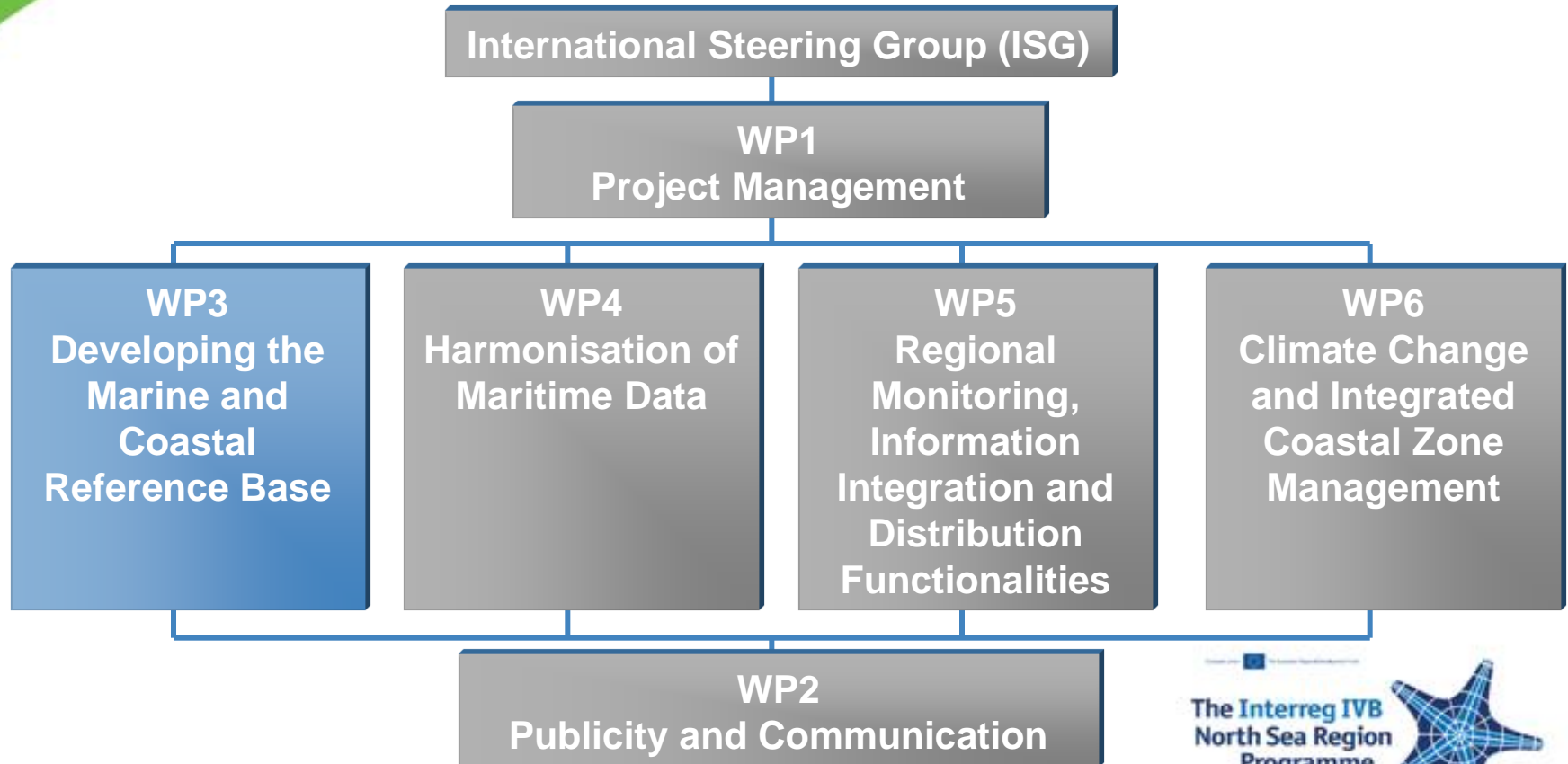- Threat of climate change and accelerated sea level rise

Project aims

- Provide new and innovative solutions for the harmonisation and integration of marine and terrestrial geospatial data.

- Improve maritime safety and integrated coastal zone management and planning in the context of climate change.

Project organisation

International Steering Group (ISG)

WP1
Project Management

WP3
Developing the Marine and Coastal Reference Base

WP4
Harmonisation of Maritime Data

WP5
Regional Monitoring, Information Integration and Distribution Functionalities

WP6
Climate Change and Integrated Coastal Zone Management

WP2
Publicity and Communication

WP3: Developing the Marine and Coastal Reference Base

- Develop a product specification for maritime and terrestrial features

- Develop a new vertical datum for the North Sea Region

- Extensive testing of new airborne laser techniques in the coastal zone

- Deploy, update and test metadatabase

WP3: Metadatabase for BLAST
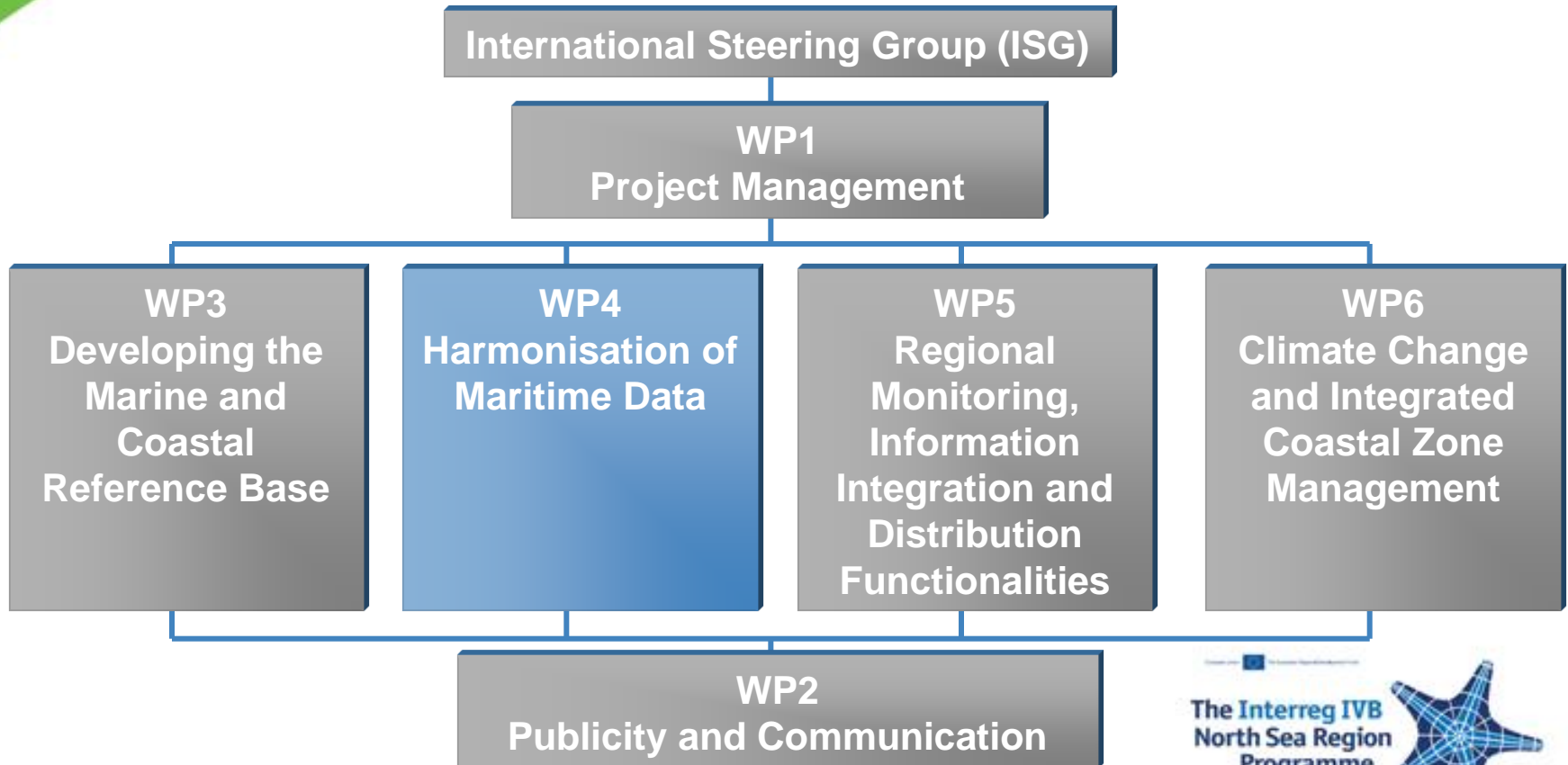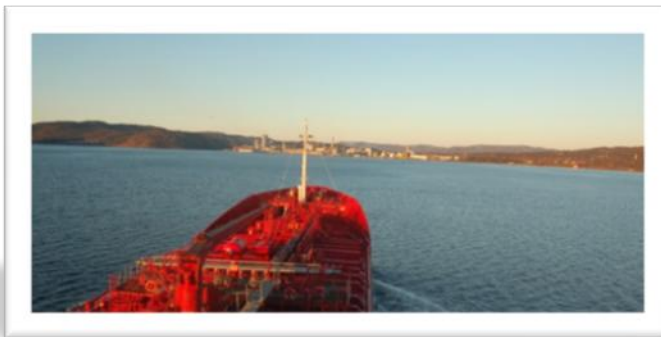
WP3: Metadatabase for BLAST - Benefits

- Single shared collection of all BLAST data – available to all BLAST partners and WPs
- ISO & INSPIRE Compliant
  - Metadata input by data owners
  - Metadata maintenance by data owners
- Built on Open-Source Technologies
- Developed according to best practice and current standards
- Adaptable to future use requirement

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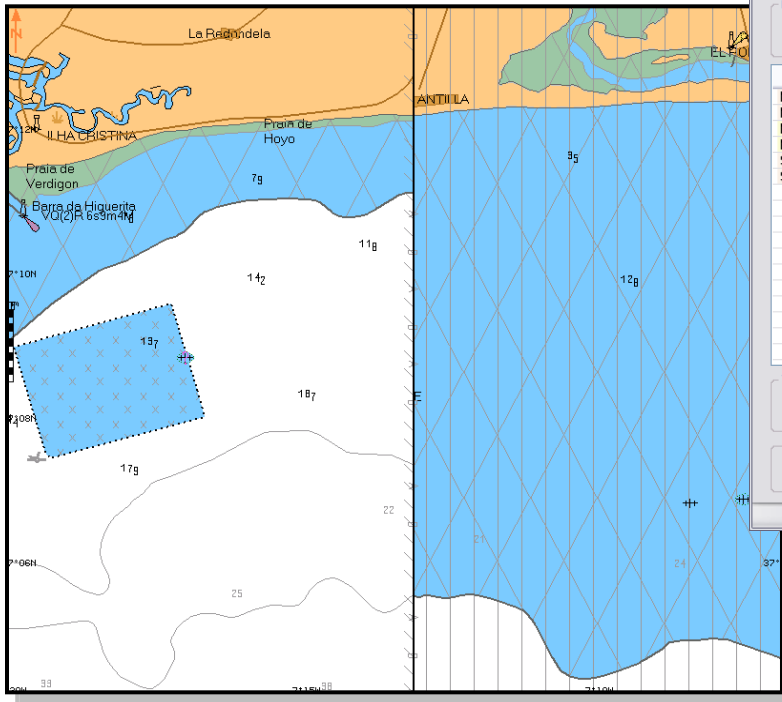
Project organisation

WP4: Harmonisation of Maritime Information

- Develop a regional basis for harmonisation of maritime information products, give input to IHO

- Demonstrate and evaluate the use of satellite data and 3D visualization/models in navigational aid displays

- Demonstrate a web-based port and coastal data collection system

- Demonstrate digital mariner's routing guide for the North Sea

WP4: ENC Harmonisation

WP4: Maritime Data Collection System

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200 Main Street, Micklefirth	c/o Port of Micklefirth, 500 Rimon Bay Road, Micklef								Charted depth at this location is 7m but echo sounder reported depth of 3m at high tide	t.roberts@	+999 4539	Theodore	MV Herrin	32.2340 S	61.1020 E
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Project organisation

International Steering Group (ISG)

WP1 Project Management

WP3 Developing the Marine and Coastal Reference Base

WP4 Harmonisation of Maritime Data

WP5 Regional Monitoring, Information Integration and Distribution Functionalities

WP6 Climate Change and Integrated Coastal Zone Management
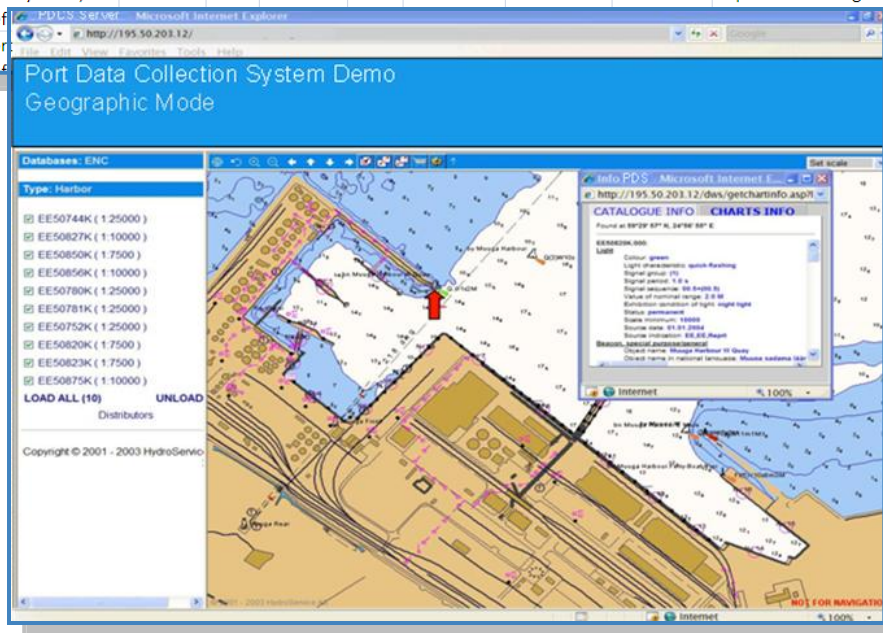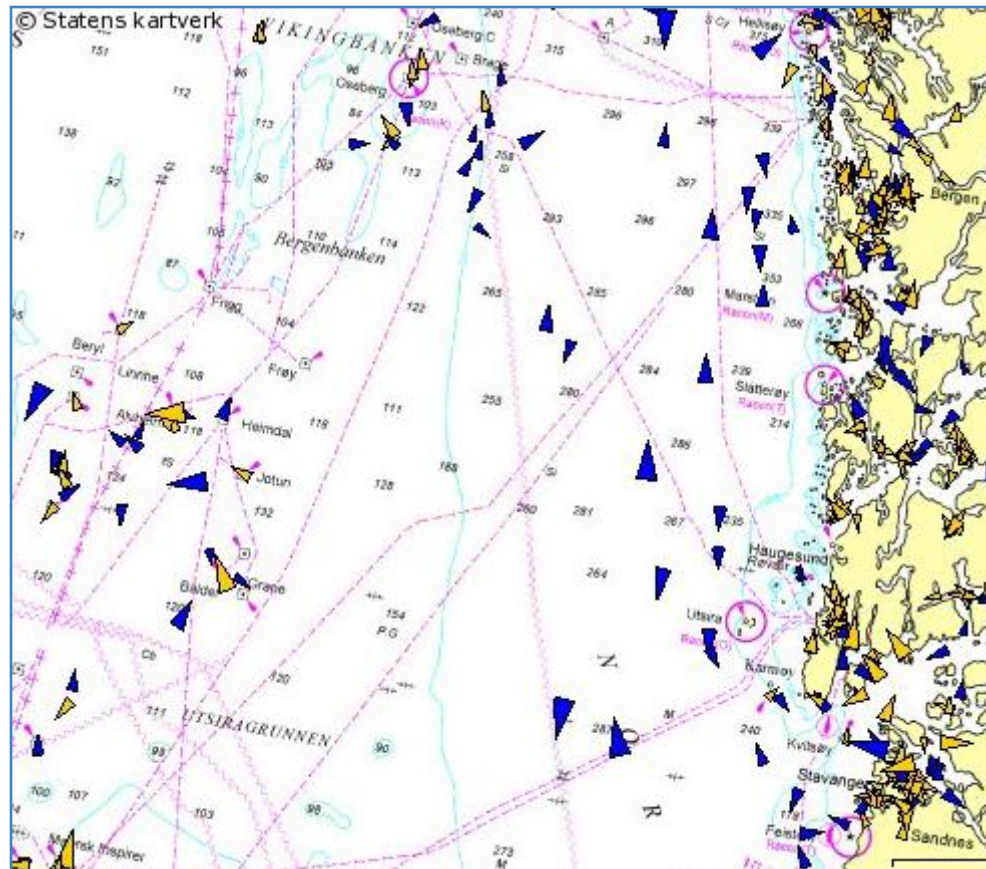
WP2 Publicity and Communication
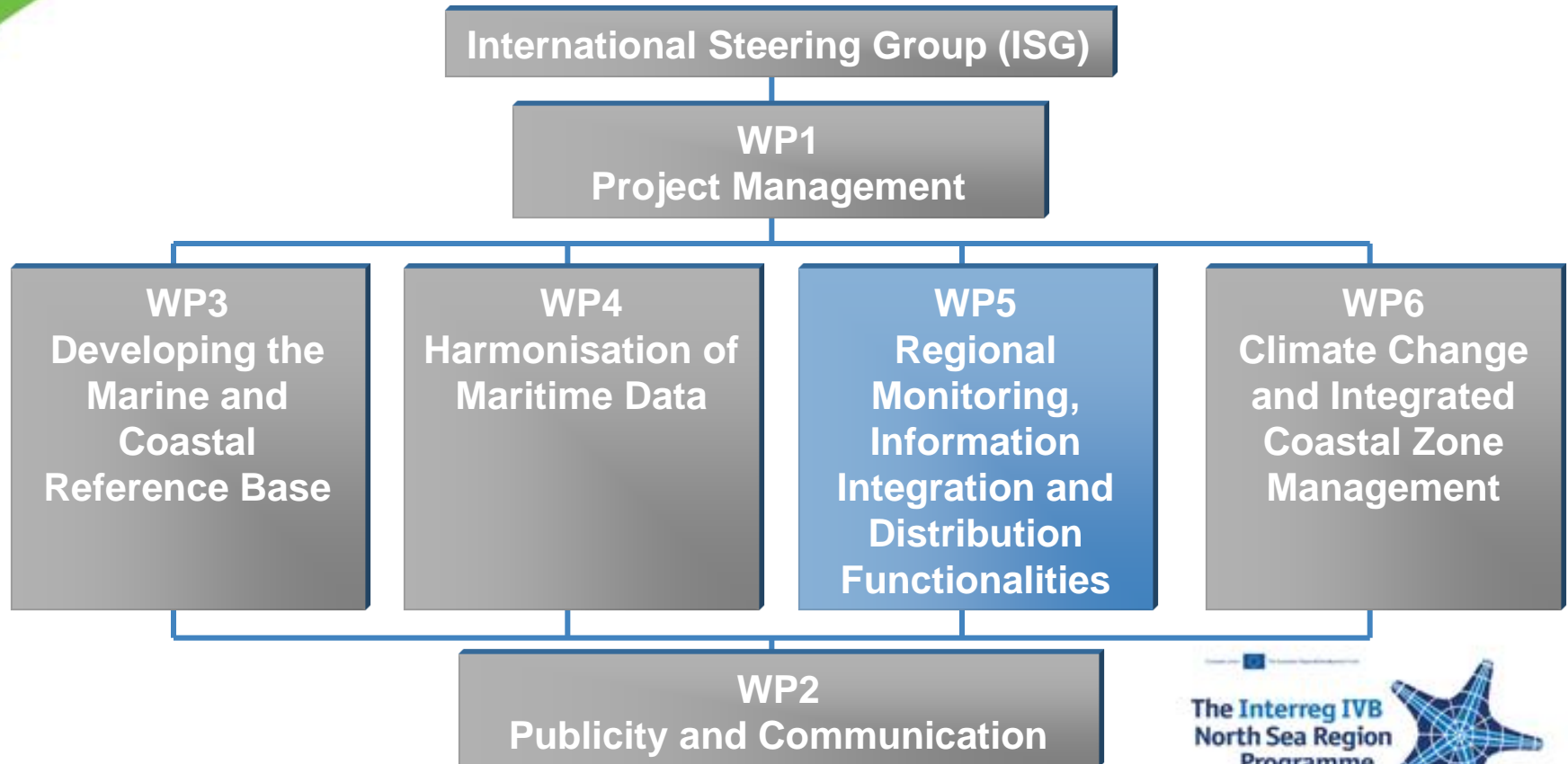
WP5: Regional Monitoring, Information Integration and Distribution Functionalities

- Design and develop a regional maritime traffic monitoring platform for the North Sea region

- Harmonise maritime traffic information formats in the region, add new formats where needed

- Harmonise regional maritime traffic information with SafeSeaNet, propose new functionalities

- Develop a network and server platform for development and demonstration

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WP5: AIS Traffic Monitoring

Project organisation

International Steering Group (ISG)

**WP1
Project Management**

**WP3
Developing the Marine and Coastal Reference Base**

**WP4
Harmonisation of Maritime Data**

**WP5
Regional Monitoring, Information Integration and Distribution Functionalities**

**WP6
Climate Change and Integrated Coastal Zone Management**

**WP2
Publicity and Communication**

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WP6: Climate Change and Integrated Coastal Zone Management (ICZM)

- Analyse and develop transnational concepts for ICZM design

- Develop a decision-support framework for ICZM in the context of climate change.

- Deploy, update and test the decision-support system in practical planning contexts in different municipalities.

WP6: COINS Portal
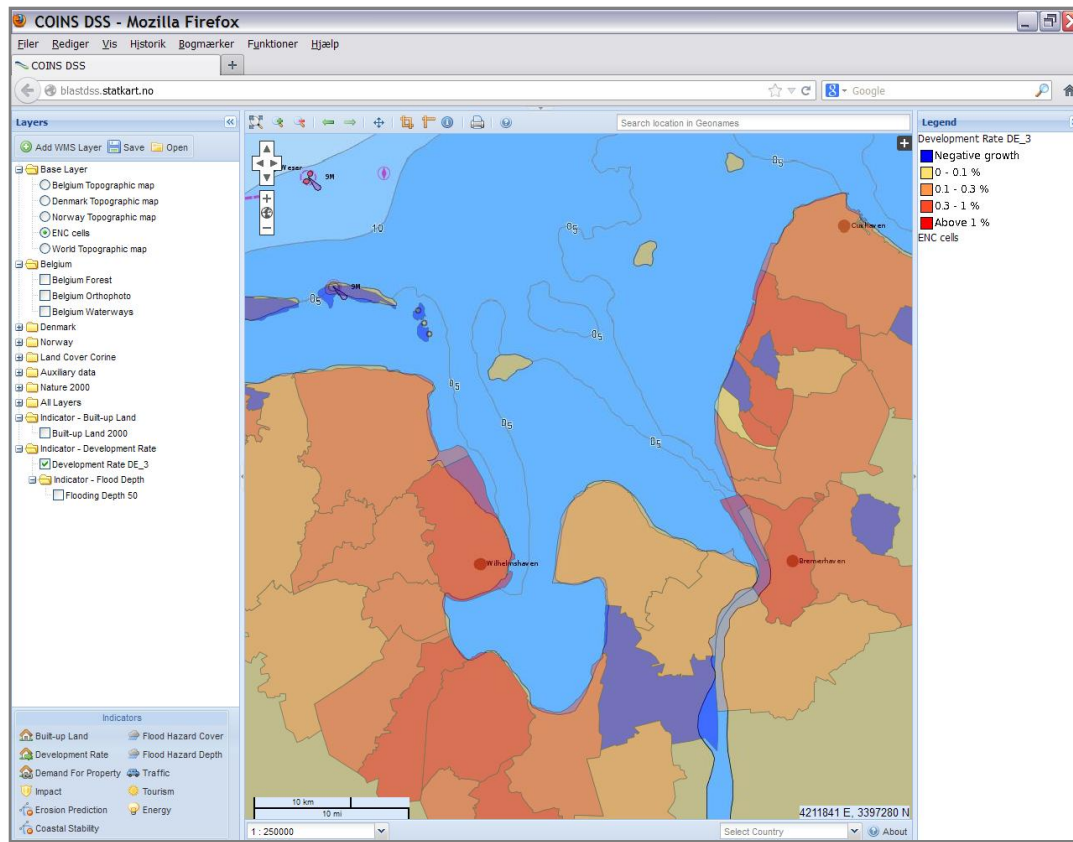
Results – vis a vis MSDI

- Shared, cross-boundary solutions for better integration of marine data

- Metadata solution

- Shared vertical reference datum, plus transformation tools

- Portal solutions for shared access to updated information

- Governance tools for collaborative development and ownership

- Input from public authorities and private companies across the user spectrum

Thank you for your attention.

www.blast-project.eu