



9th Call Project Idea: Extension of ACCSEAS Project

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on behalf of

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ACCSEAS – safe and efficient maritime accessibility in the region



- Ships in the NSR navigate the busiest seas in the world
- ‘Motorways of the Sea’ interact with ‘Short Sea Shipping’



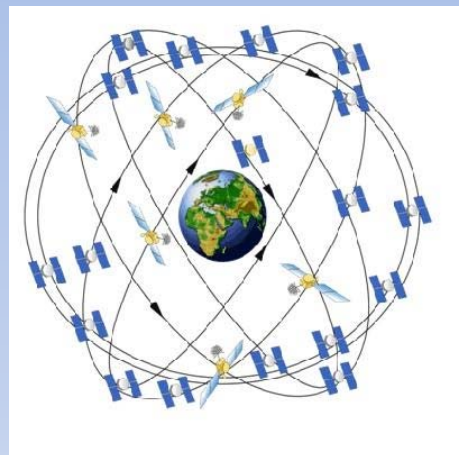
Increased risk of collision & grounding



- More ships
 - Bigger, faster, less manoeuvrable
- Congestion on key routes and at ports
- Human error - mariners and shore based staff

Maritime is embracing new technologies

- Electronic Navigation Charts
- Electronic Chart Display & Information System (ECDIS)
- Radio Navigation Aids e.g. GPS
- Automatic Identification System (AIS)



The digital age of e-Navigation

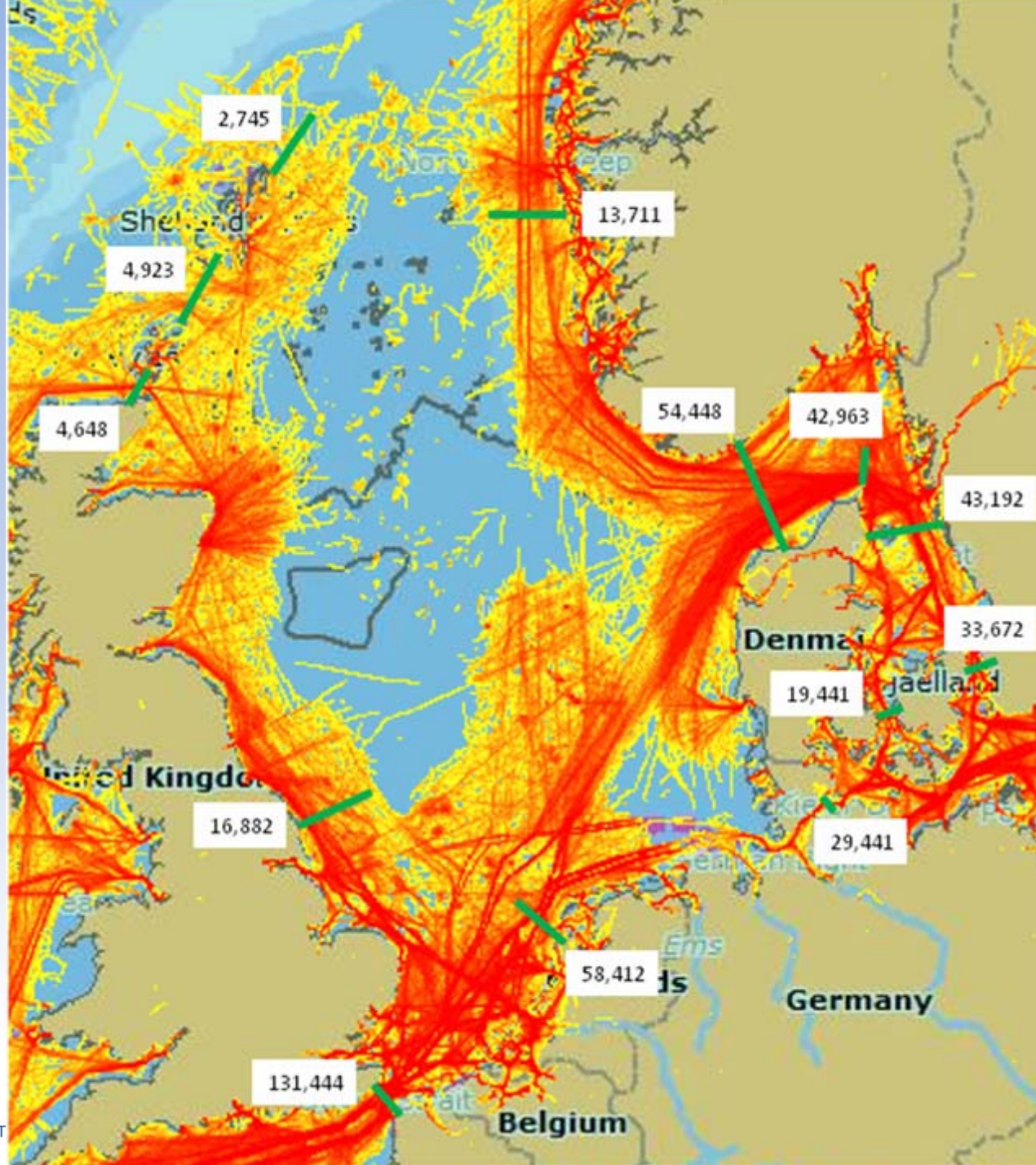
- Harmonisation & display of trustworthy information
- Operational services with high integrity
- Decision Support onboard and ashore



ACCSEAS is implementing a regional e-Navigation test bed

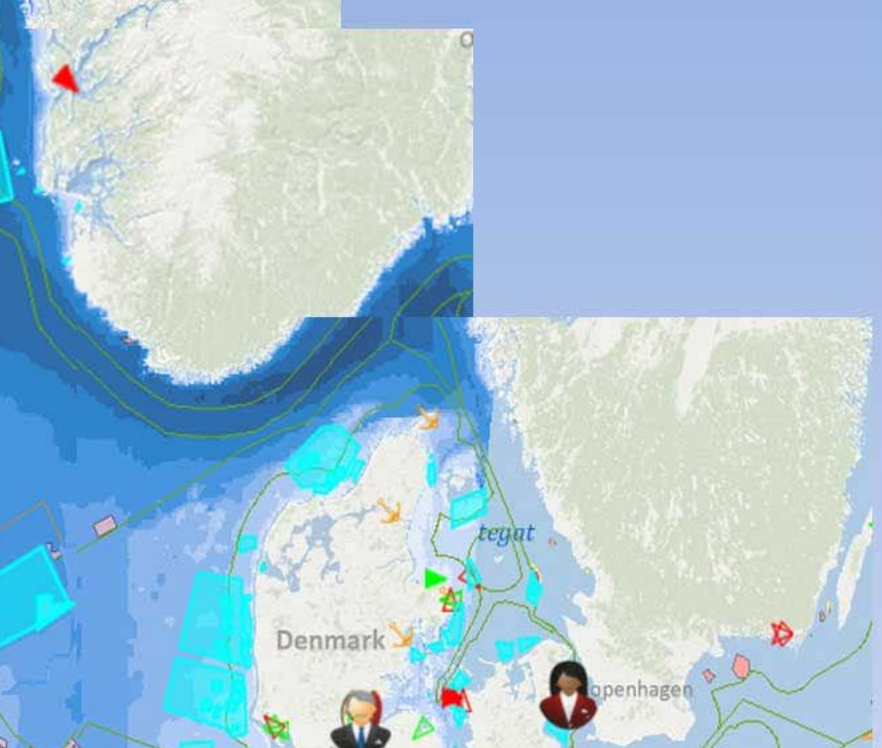
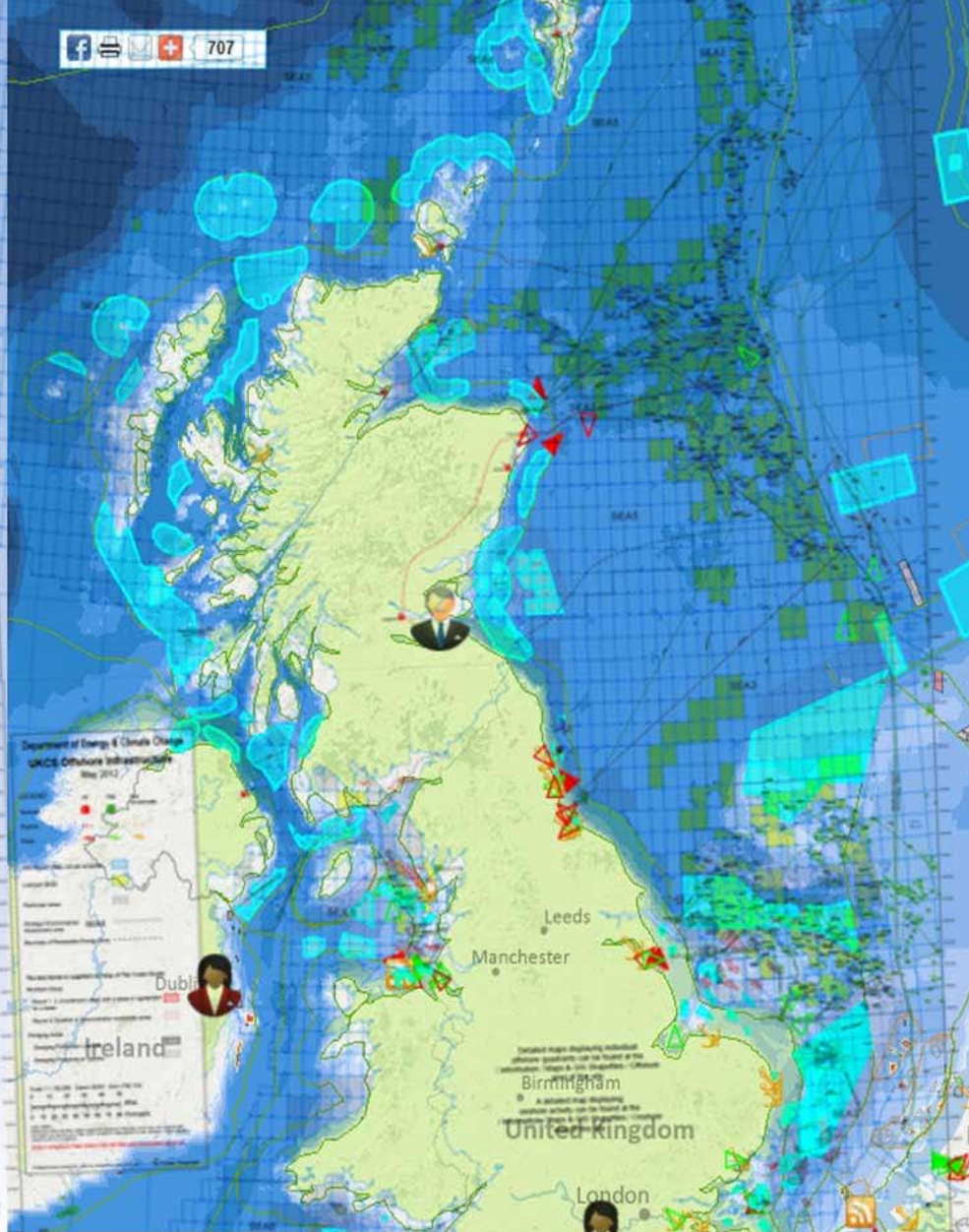
- Shore based infrastructure
- Vessel prototype systems
- Proof-of-Concept demonstrations
- Informing policy & Influencing decisions





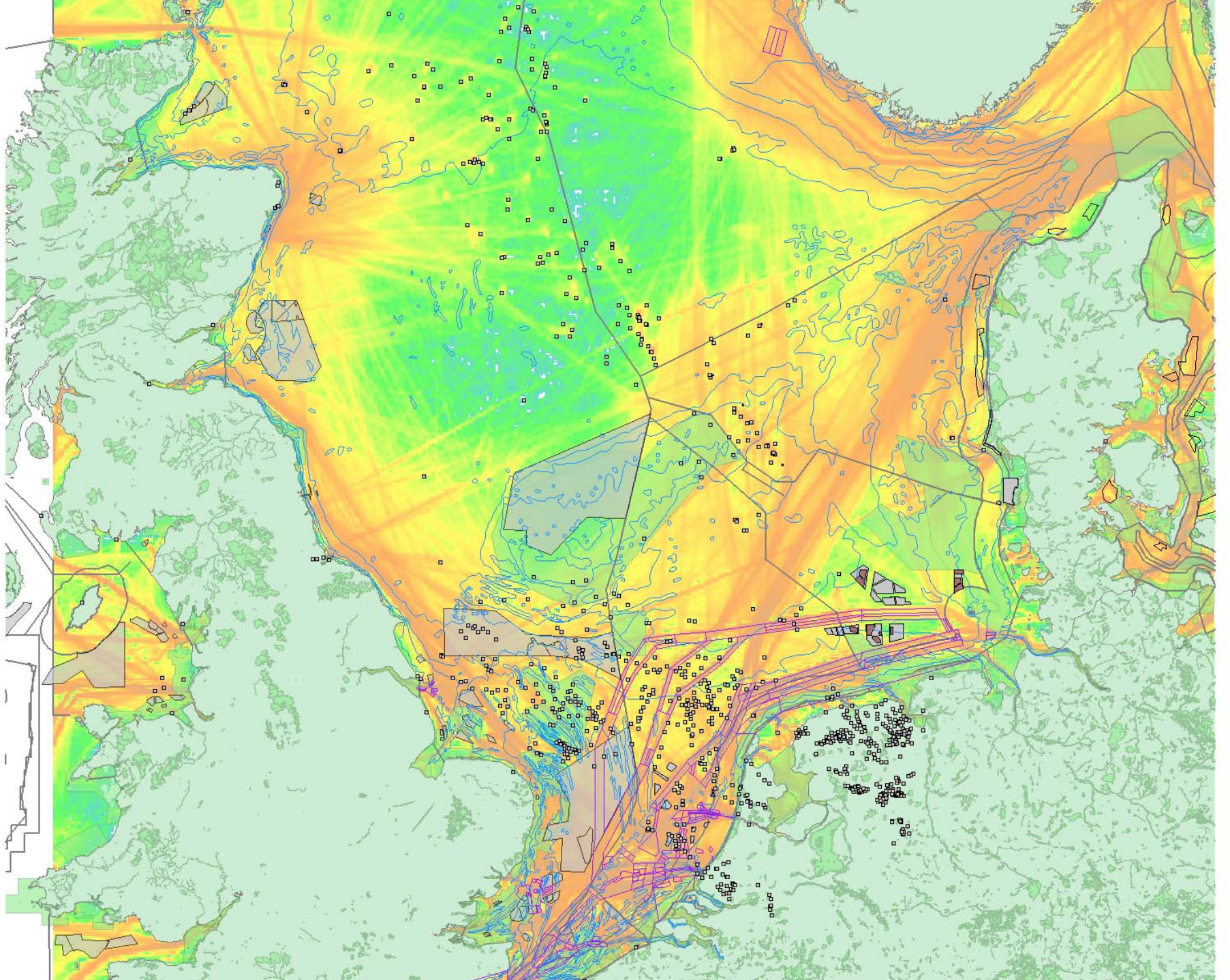
Risk of collision & grounding

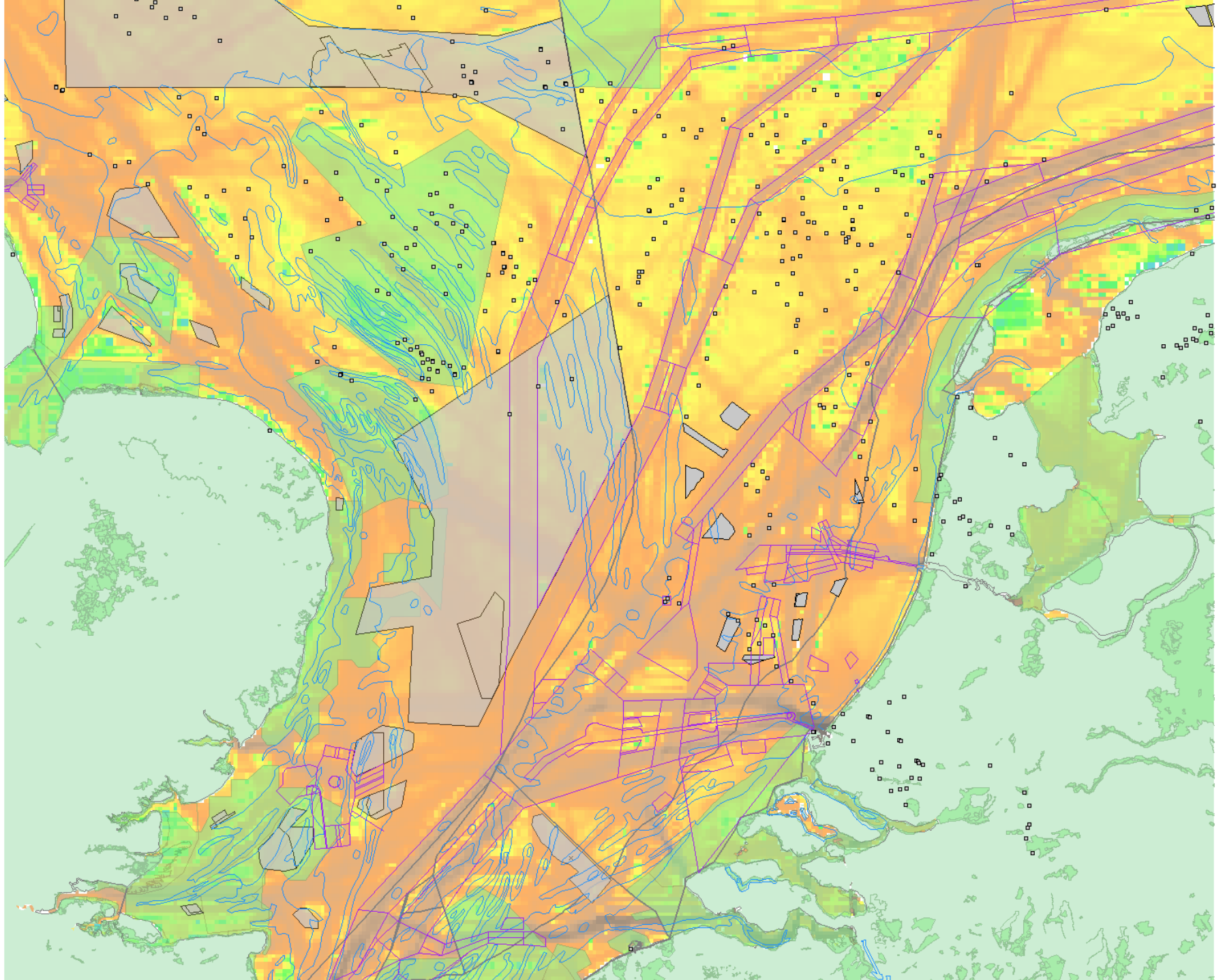




<http://www.4coffshore.com/offshorewind/>

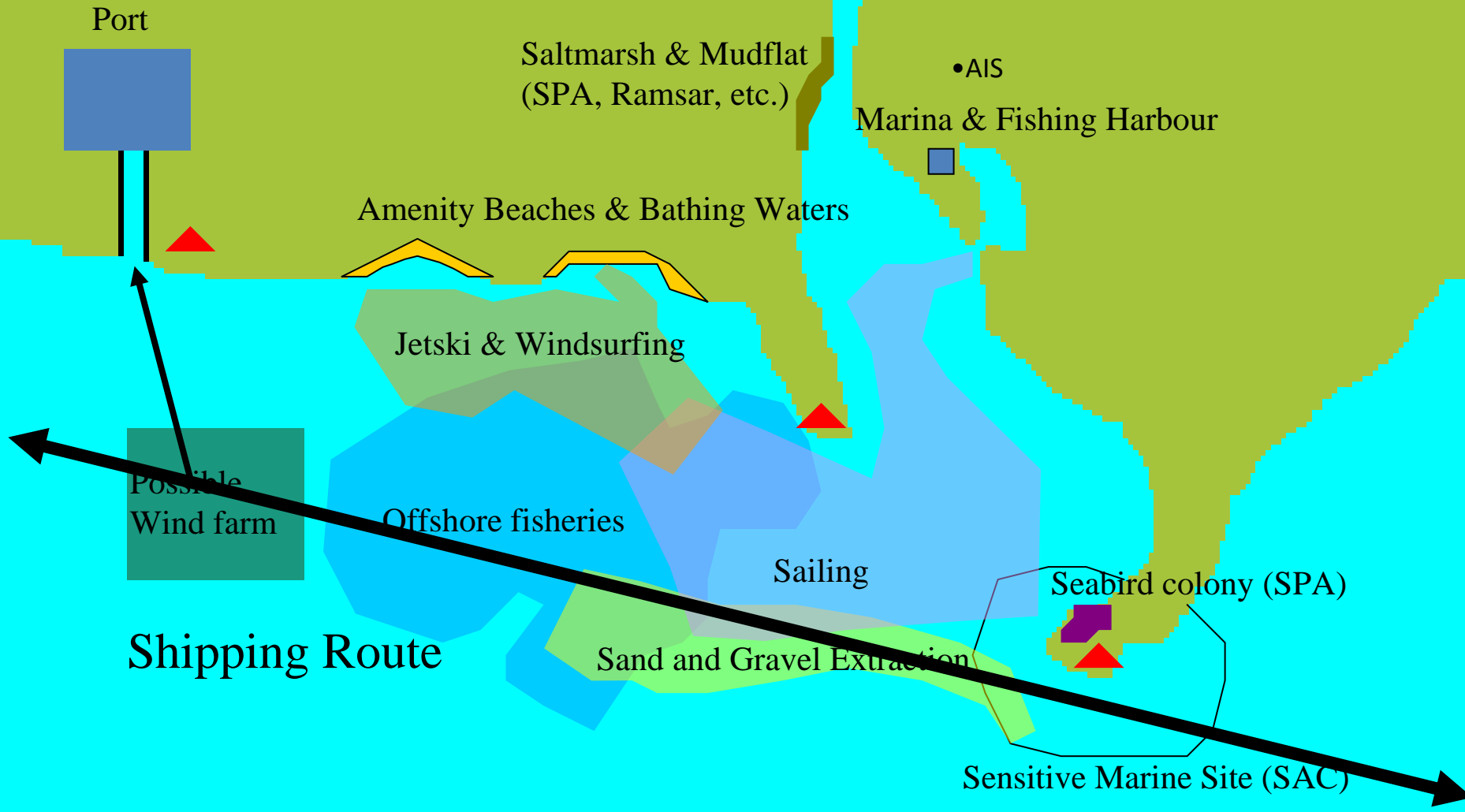






Identification & Monitoring of Resources & Activities

- Methods:
- Mapping- linked to GIS/databases
 - Aerial Surveillance
 - Satellite Surveillance



Port

Saltmarsh & Mudflat
(SPA, Ramsar, etc.)

• AIS
Marina & Fishing Harbour

Amenity Beaches & Bathing Waters

Jetski & Windsurfing

Possible
Wind farm

Offshore fisheries

Sailing

Seabird colony (SPA)

Shipping Route

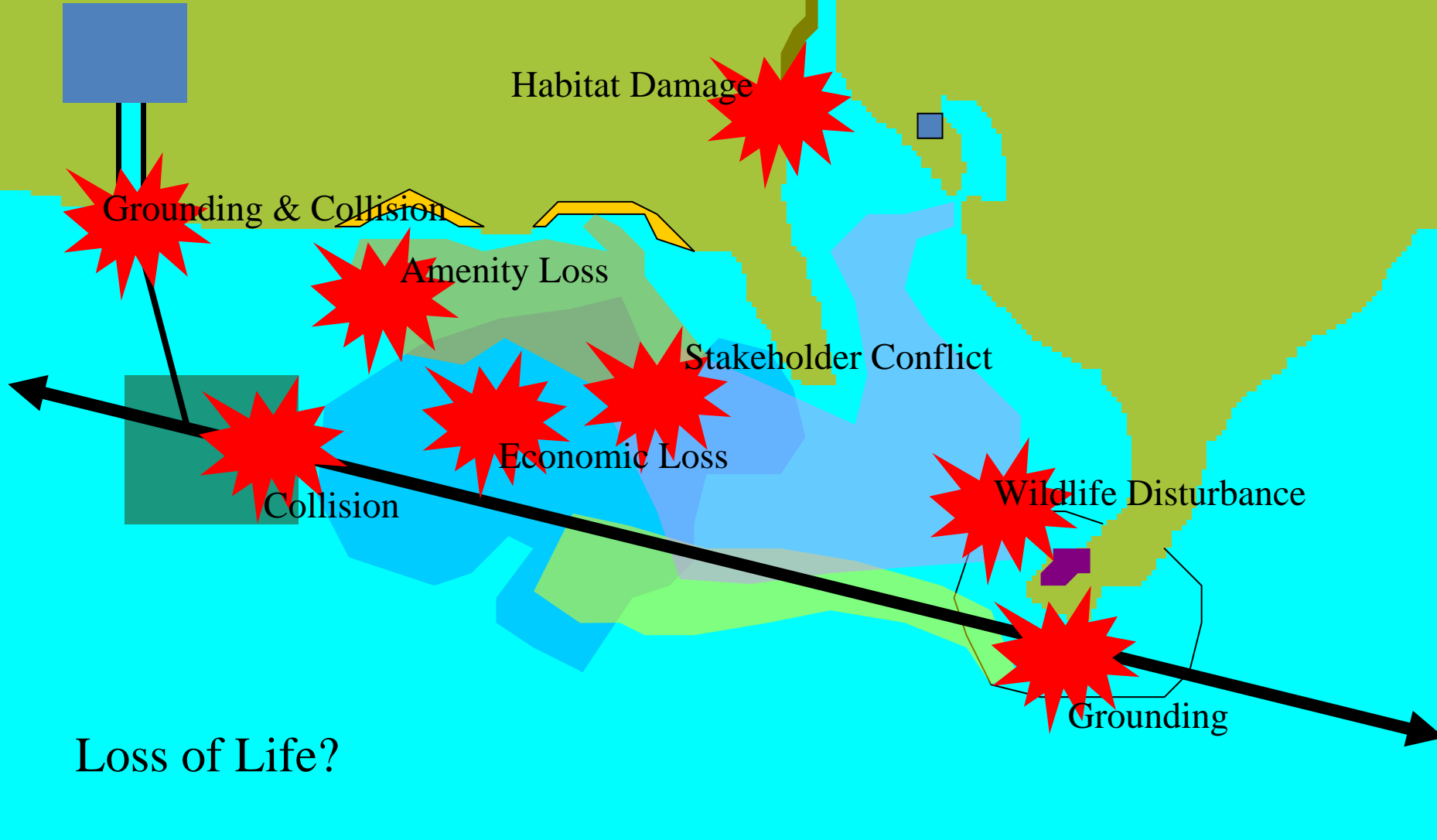
Sand and Gravel Extraction

Sensitive Marine Site (SAC)

Risk Assessment

Specific Issues:

- Traffic levels/predicted increase
- Cargo type pollution/safety risks: REBCO, VHFO, Chemicals, harmful, etc.
- Operation Risks: port operations, navigation, STS, etc.
- Seasonality (fishing / recreation activity)
- Databases e.g. navigational hazards, wrecks, lost cargo, 'mystery spills', etc.



Loss of Life?

The challenge for Sea Area Management

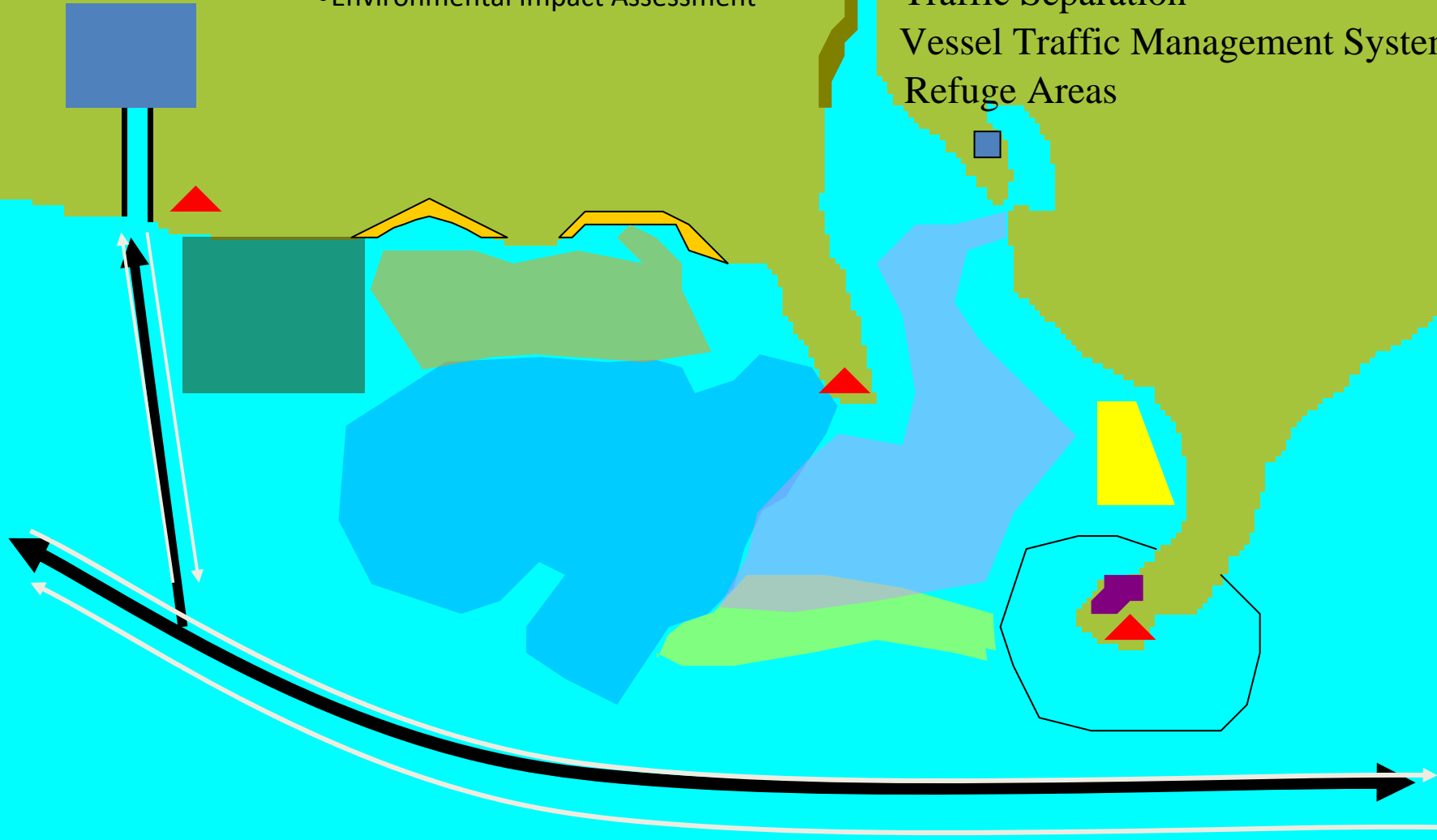
- Perception that a **lack of co-ordination** for management of the sea area is having a **detrimental impact** upon the maritime activities and **marine resources** of the North Sea
- Particularly the **interaction** between **offshore renewable energy installations** and **access to ports**
- Compelling and **urgent** reason to **investigate** and **establish an approach** to **transnational voluntary coordination of sea area management** in the North Sea Region



Risk Management & Prevention

- Link to other methods:
- Training & Education
 - Marine/ Sea area planning
 - Integrated Coastal Zone Management
 - Environmental Impact Assessment

- Spatial and temporal zoning
- Relocation
- ~~Rerouting~~
- Traffic Separation
- Vessel Traffic Management Systems
- Refuge Areas



Project Idea: 'Co-ordination of NSR Sea Area Management'

ACCSEAS Work Package 9 - Transnational Voluntary Co-ordination of Sea Area Management

- Identify and analyse existing regional sea area planning
- Interaction with maritime navigation and accessibility



Project Idea Objectives

Establish a transnational planning and analysis mechanism that takes due regard of shipping safety and accessibility issues

Establish a network to allow interaction and information exchange between policy and decision makers across the North Sea Region



Project Idea Approach

Transnational Voluntary Coordination Network:

- identify and analyse the future accessibility issues
- examine the potential for involving wider marine and maritime stakeholders
- build upon the best practice being developed for the e-Navigation Forum (WP8)



Envisaged Outputs of the proposed ACCSEAS project extension

- Potential **conflicts identified** between future Marine Spatial Plans
- Analysis and needs captured for **Voluntary Co-ordination**
- Transnational Voluntary Co-ordination **Network**
- **Roadmap** for Co-ordination



New partners welcome to join the ACCSEAS project extension

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