ACCSEAS: e-Navigation Test-Bed in the North Sea Region

e-Navigation Underway

30 January 2013
Shipping Challenges of the North Sea Region

- Increased density of shipping
- Reduced space/manoeuvrability
- Growth of offshore installations
- Traffic pinch-points at approaches to:
- Risks of collision and grounding
- Safe and efficient access to the North Sea Region
What is the ACCSEAS project?

• ACCessibility for Shipping, Efficiency Advantages and Sustainability

• Part of the INTERREG IVb North Sea Region (NSR) Programme

• Key theme of the INTERREG programme: Improve accessibility of places in the North Sea Region
  – reducing congestion
  – developing sustainable transport
  – promoting transmodal solutions
ACCSEAS Aims and Objectives

**Aims:**

• To implement and demonstrate e-Navigation test-bed in the NSR
• To contribute to resilience of the Region's critical
• Enhance maritime access to the Region.

**Objectives:**

• Establish prototype solutions based on IMO’s e-Navigation concept to ‘bring maritime navigation into the digital age’:
Test-Bed: Resilient PNT

- Mitigation of GNSS vulnerability
- Independent and complementary backup system to GNSS
- Prototype an Integrated Navigation System (INS)
  - radar positioning
  - R-Mode
  - multiple GNSS
  - integration of eLoran
Test-Bed: e-Navigation Services

- ‘Berth-to-berth’ applications, Maritime Service Portfolio
  safety, efficiency and environmental protection
- vessel route planning / update, exchange and display:
  - ship-to-ship: route and intended manoeuvre
  - ship-to-shore: VTS interface and elements of ‘Sea Traffic Management’
  - port operations
- exchange of data and information ship-to-ship and ship-to-shore:
  - seamless exchange of static vessel and dynamic voyage data
  - IHO S-100 format
  - Inter-VTS Exchange Format (IVEF)
- extended functions of virtual/AIS Aids-to-Navigation
ACCSEAS Results coming in
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ACCSEAS Conference

• March 5-7 2013
• Flensburg, Germany
• Theme: ACCSEAS: pioneering safe regional access with e-Navigation
  – Day 1: Defining regional e-Navigation for safe efficient access in the North Sea
  – Day 2: Innovative approach to North Sea accessibility and efficiency challenges
  – Day 3: e-Navigation – a sustainable way forward for our region
Conclusion

• Potential for positive impact on maritime accessibility and safety in the NSR and beyond
• Buy-in from ports, service providers, ship-owners and international e-Navigation community
• Results starting to come in, with a lot more to come!
• Conference: Flensburg, March 5-7
Thank you

Questions?