Canadian e-Navigation Planning

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Overview

• Historical Developments
• Canada’s e-Navigation Vision / Strategy
• Recent Achievements
• Canada’s e-Navigation Concept of Operations
• E-Navigation National Portal
• Next Steps
Key Messages

- Canada has a long history with e-Navigation.
- A number of e-Navigation initiatives have already been conducted in Canada to improve marine safety, security, and efficiency.
- Initiatives were successful because of collaboration of various key players.
- This partnership will continue throughout implementation of e-Navigation.
- Canada is committed to implement e-Navigation.
Historical Developments - Early Initiatives
“Widespread use of e-Navigation in Canada by mariners and shore authorities for greater marine safety, security, efficiency and environmental protection.”
Recent Achievements

- 2011/12: Gap Analysis
- 2013/14: AIS Policy & Implementation of National Portal
Canada’s e-Navigation Concept of Operations

- **User driven**
- **One National Portal**
  - Single point of access
  - Services/data in electronic format
  - Data available 24/7
- **AIS Network**
  - Broadcast data and up-to-date information
E-Navigation National Portal

Navigation By Location

View all the available maritime information for every canadian main waterways. The viewable content is supplied directly from official source agencies.

Download Datasets

Select and download datasets directly from the portal's extensive Data Catalogue. Datasets are available in many different formats, for most maritime services across Canada.

Connect to Services

Make a direct connection to many of our maritime services using popular Geospatial software. These services are provided using the Web Map Services protocol.

View Interactive Map

Interact and visualize maritime services directly on our interactive map. You can zoom, pan, show or hide layers, and query data directly using the portal's Geographic Information System.
E-Navigation Priority Services

- Wind, Wave, Air and Water Temperature, Atmospheric Pressure
- Ice Charts
- Water levels (real-time & forecast)
- Status aids to navigation, GPS & DGPS
- Bridge air gap
- Newly discovered hazards, shoals, wrecks or dangers
- Notice to shipping

CCG & Partners
Next Steps

Continue implementation of concept of operations

Add more information to the National e-Navigation Portal, develop solutions on data not currently available and increase sharing data through AIS
Conclusion

• Canadian success to date has been due to collaboration and communication with key domestic partners and stakeholders. This will continue.

• Canada will also continue to work closely with international organizations and USCG to develop and coordinate e-Navigation implementation.

www.ccg-gcc.gc.ca/e-Navigation