



Integrated Marine Geospatial Information Management

An Implementor's Perspective

**2ND United Nations World Geospatial
Information Congress**

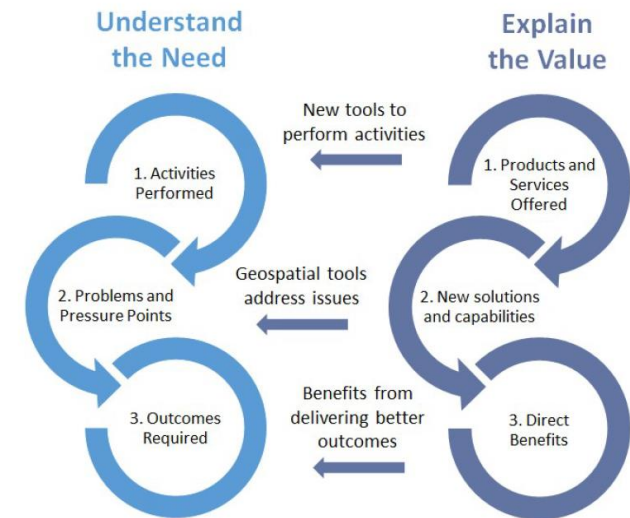
Ed Kuwalek
12 October 2022

- IIC Technologies Intro
- IHO S-100 Experience – 30+ Projects
- IGIF-H Value Proposition
- Key Implementation Considerations
- Desirable Enhancements



Integrated Marine Geospatial Information is essential to supporting Sustainable Oceans, Seas and Coastal Zones

- 1.Nautical Charting and Transportation
- 2.Support for Resource Management and Planning
- 3.Establishing Maritime Boundaries
- 4.Subsistence
- 5.Emergency Response, Disaster Management and Response
- 6.Integrated Marine Cadastral Systems
- 7.Energy
- 8.Environmental Protection
- 9.Climate Change
- 10.Scientific Research



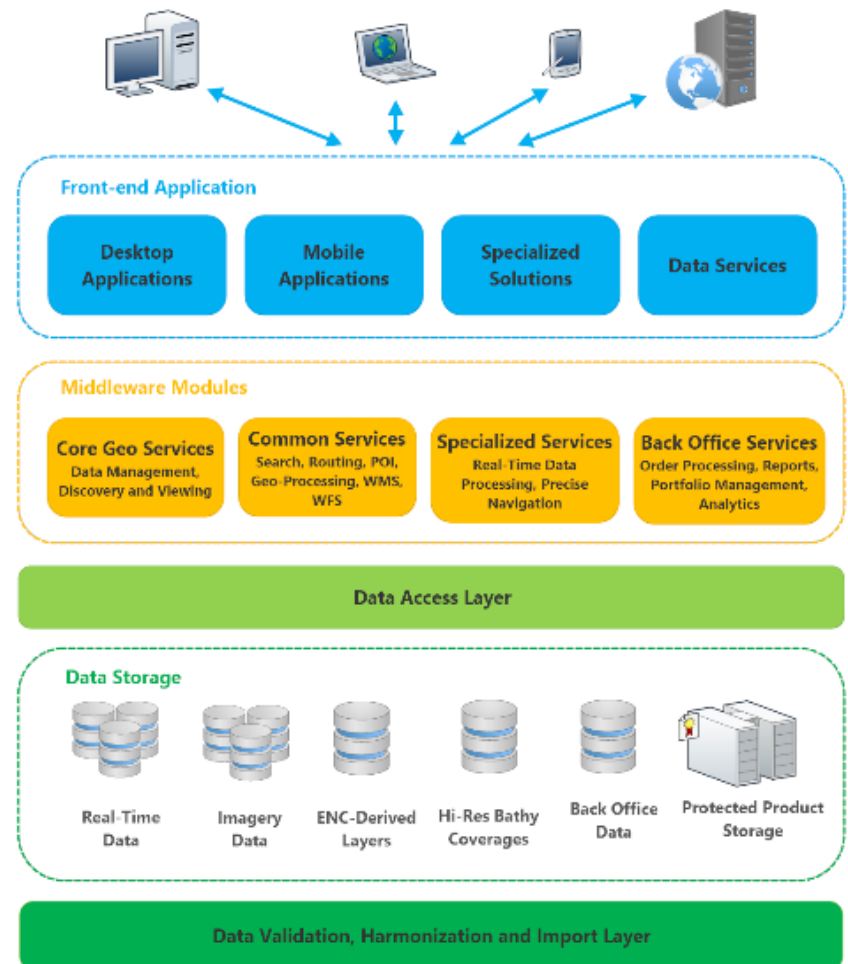
In IGIF-H value drives the case for creating reusable and interoperable data, while covering the 'why' and the 'how'.

Nautilus Cloud is a cloud based infrastructure for Marine Data, Solutions and Services for Government Organizations, Commercial Industry and Consumers

Government: HOs, National Institutes, R&D Organizations, Natural Resources, Environmental and Scientific Organizations, Inland Waterways

Commercial: Ports, Oil and Gas, Shipping, Dredging, Hydro Survey and Service Companies, Fishing Industry

Consumer: Leisure, Sports, Tourism



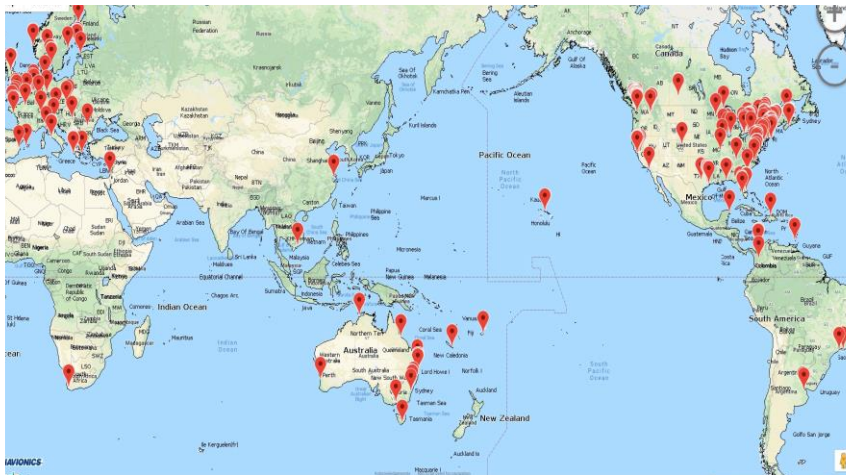
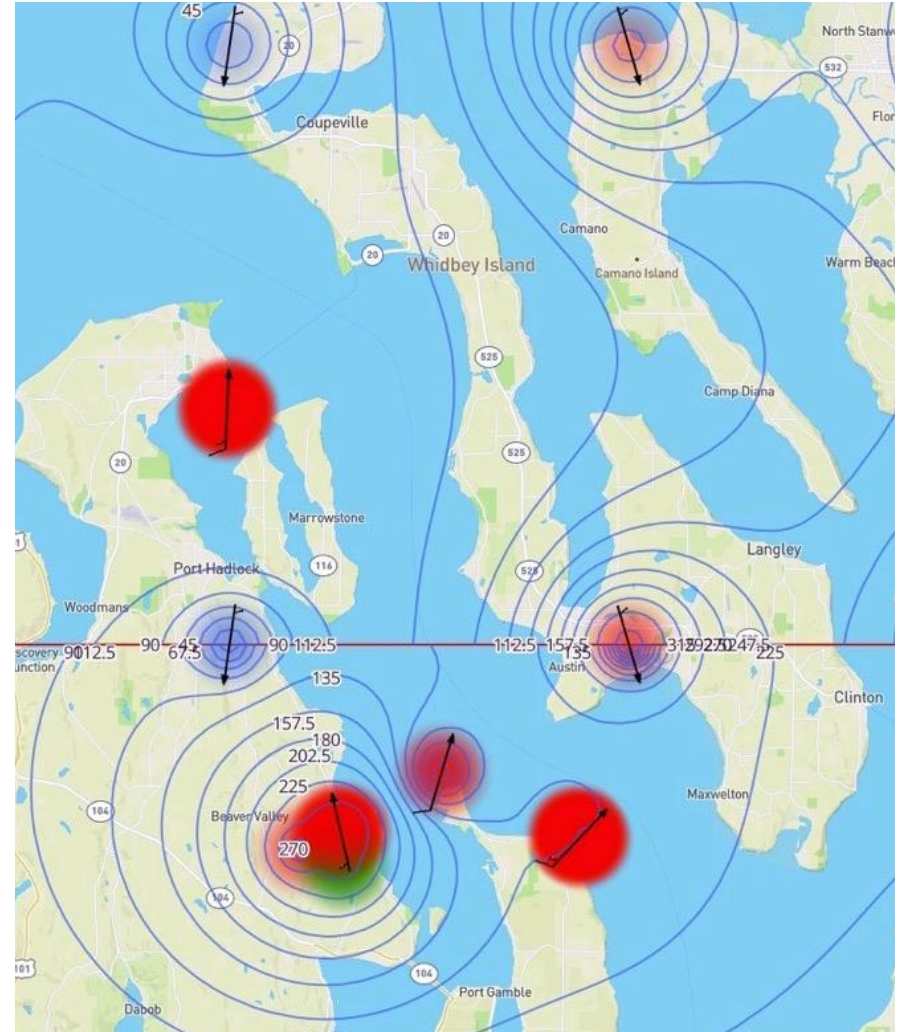
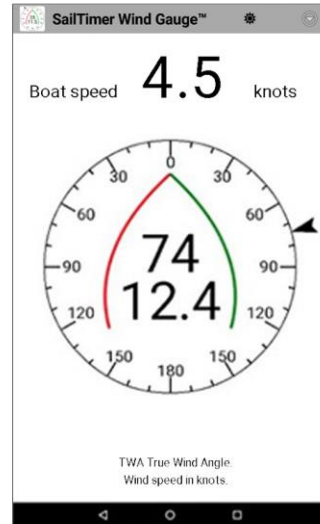
NaAVIC - Free Mobile ECS App



- Range of features to make recreational navigation easier, safer and more fun
- NaAVIC community to easily share experiences with friends
- Powered by Nautilus Cloud - native cloud solution streaming data on demand: ENC's, tide and current data, and satellite imagery
- Visit www.naavic.net for more info, user guide and download links



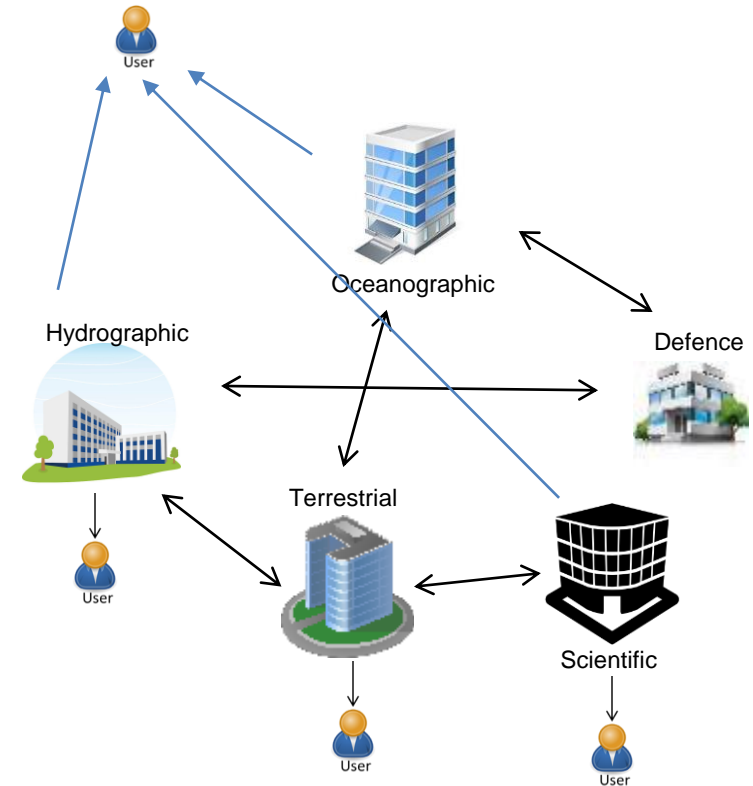
Canada's Ocean Supercluster



Cross-Sectoral data reuse founded upon “interoperability”

Interoperability of marine geospatial
data:

- Founded on interoperability between “entities”
- Coherent models
- Data sharing partnerships
- Compatible standards
- Authoritative, curated datasets
- Custodianship
- Persistent, unique identifiers



- More effective machine to machine data interoperability support (API)
- Reference implementations of core components to speed up innovation
- Support for software developers
- Strengthening the advocacy for open standards, particularly for open source tools and architectures
- Open data access



NEW PATHS. NEW APPROACHES

Thank You!

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