



MSDI / S-100

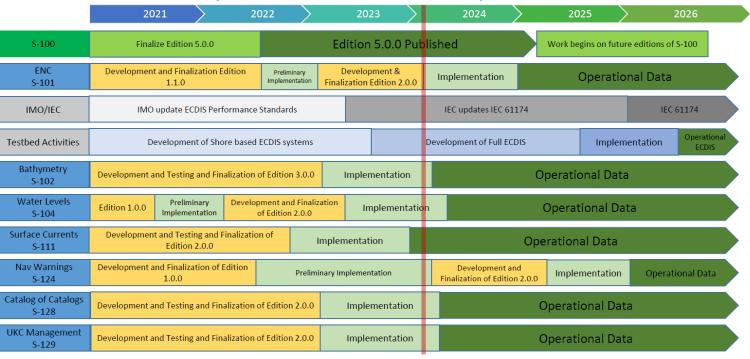
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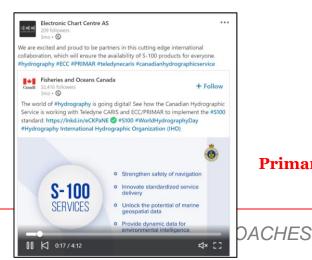
- Current Status
- ➤ The Opportunity for MSDI

S-100 Product Specifications developments and Timeline

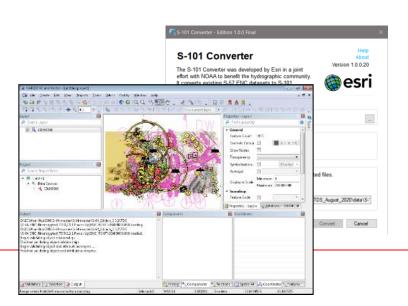


S-100 Rollout

- > S-100 data is live in several countries
- > Development continues in others
- > S-100 Edition 5.0.0 is now in development
- ➤ IHO's "Decade of implementation" will work towards approval at IMO of S-100 within ECDIS and transition, via a migration period, of navigation on ECDIS to S-100
- Production and display systems are emerging



Primar/ECC, CHS/NRCAN

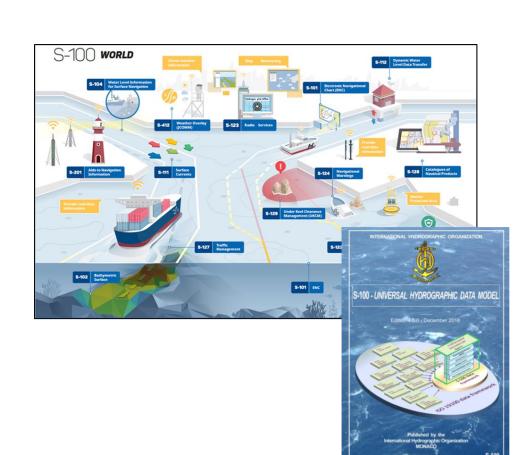


KHOA

The S-100 Proposition



- > S-100 offers a number of elements:
 - The ability to make domain-themed product specifications drawing from a common pool of definitions using a globally accepted framework
 - The Registry is the Content
 - Implementations of ISO standards for metadata, geometry and content
 - A set of data encodings to unambiguously represent and share data
 - An Ecosystem of production tools
- The focus in the decade of implementation is (currently) Navigation and the products related to it
- In the decade of implementation there is an opportunity to use and promote S-100 as a way of encouraging better interoperability between MSDI stakeholders and also to shape S-100 (for edition 5.0.0)



Main Opportunities



- Domain specific product specification(s).
- Are there some areas of MSDI where there is "sufficient common ground" between IHO stakeholders to warrant development of a product specification?
 - 。 MSP, MPA
 - The Coastal Zone
 - Or broader products, MSDI and IHO elements of UN-GGIM IGIF,
 - 。 MLB+MPAs, ISO19152/LADM/ UN FELA,
 - More formal INSPIRE integration
 - Historical, research, scientific
- > These could be taken on by MSDIWG/HSSC within an MSDI domain control body
- This would allow
 - New MSDI-specific product specifications
 - New "bindings" to be formed between existing entities.

Some Other Ideas



- Meta-Products" S-128: A "Catalogue of Catalogues" and their metadata
- Better Data Interchange
 - Enablement of web services with other frameworks
 - S-100/OGC integration at a more formalised level
- Access to the IHO registry for access and content relevant to MSDI stakeholders?
- Reference Models and testbeds to showcase MSDI implementations.
 - Provide a roadmap for MSDI participants.
 - Provide interoperability guidance. How to use S-100 content with
 - Web Services
 - Other Standards
- Multi-thematic common data structures" across regional MSDIs

What's happening now?



- Specific S-100 developments for edition 5.0.0
 - Rewrite of GML encodings
 - Better support for realtime data and web services
 - Closer alignment with ISO geometry
- The Gaps:
 - Better ways of supporting "other" encodings (e.g GeoJSON)
 - Adapting content "alongside" other domains and resolving conflicts
 - Methodology for integration with external frameworks, particularly OGC.