14th Meeting of the Hydrographic Services and Standards Committee

Report of S-1OOP Project

Agenda Item 5.1H

HSSC-14, Denpasar-Bali Indonesia, 16-19 May 2022

INTRODUCTION / BACKGROUND

- S-1OOP Project
  - foundation of sharing and cooperation to facilitate changeover to the S-100 world
  - alternative approaches to overcome challenges

- HSSC decision 12/13

S-1OOP S-100 Open Online Platform	**HSSC12/13**	**HSSC Chair to update A-2 on S-1OOP under development for further consideration.** **ROK was invited to prepare an invitation package so Member States can consider joining.**	**A-2** **HSSC-13**	**Done**

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S-100 OPEN ONLINE PLATFORM PROJECT

- The project vision
  - S-100 Open Online Platform is the foundation for S-100 World online to accelerate wide adoption of the S-100 hydrographic framework by jointly developing and making freely available the building blocks required to overcome any technical S-100 implementation barriers
- Key goals
  - Share S-100 components, TDS and info. required to construct an S-100 ecosystem
  - Exchange experience and best practice results with S-100 production processes for data producers
  - Enhance navigation, discovery and search of S-100 standards and technical guidelines for stakeholders
  - Promote development of open-source software and application models to implement the S-100 World
  - Publicize the benefits and effects of the transition to the S-100 World

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S1OOP MEETINGS

- 1st S-1OOP CG Meeting (8 June 2021, VTC)
  - Agree to prepare platforms such as web viewer and Wiki
  - Agreed 4 different Themes for the platform development and the contributors.
- 2nd S-1OOP CG Meeting (23 November 2021, VTC)
  - Introduction of Web based- testbed for sharing S-XXX TDS
  - Discussion of Wiki for S-100 Tools and related resources
  - Open source management plan was introduced, 3 years work plan

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- 4 Themes and Contributors

Themes	Action and Work item	Contributors
- Theme 1 - Online Viewer and Simulation	- Members produce TDS described in the S-100 implementation roadmap - Share the TDS via GI Registry and Web Viewer (KHOA Web Viewer)	ROK (KHOA), USA (NOAA), UK (UKHO), France (SHOM), Portranscience
- Theme 2 - Data Production and Protection Scheme	- Identify what tools are required to produce and service S-100 products - Investigate S/W and program for TDS generation and protection - Write wiki to record the status and changes of tools (Wiki, Github)	ROK (KHOA), USA (NOAA), UK (UKHO), France (SHOM), New Zealand (LINZ), ESRI, Primar, Portranscience, IIC (Dissemination part), Navico
- Theme 3 - Open Source Management and Operation	- Prepare open source for S-100 Viewer and access plan - Improve the open source for the purpose of shore-based ECDIS - Operate and manage the open source	ROK (KHOA), New Zealand (LINZ), Portranscience
- Theme 4 - Knowledge Base and Capacity building	- Hold a webinar to investigate core components of S-100 and product specification implementation	Singapore, USA (Capacity Building) eLearning Center, Portranscience

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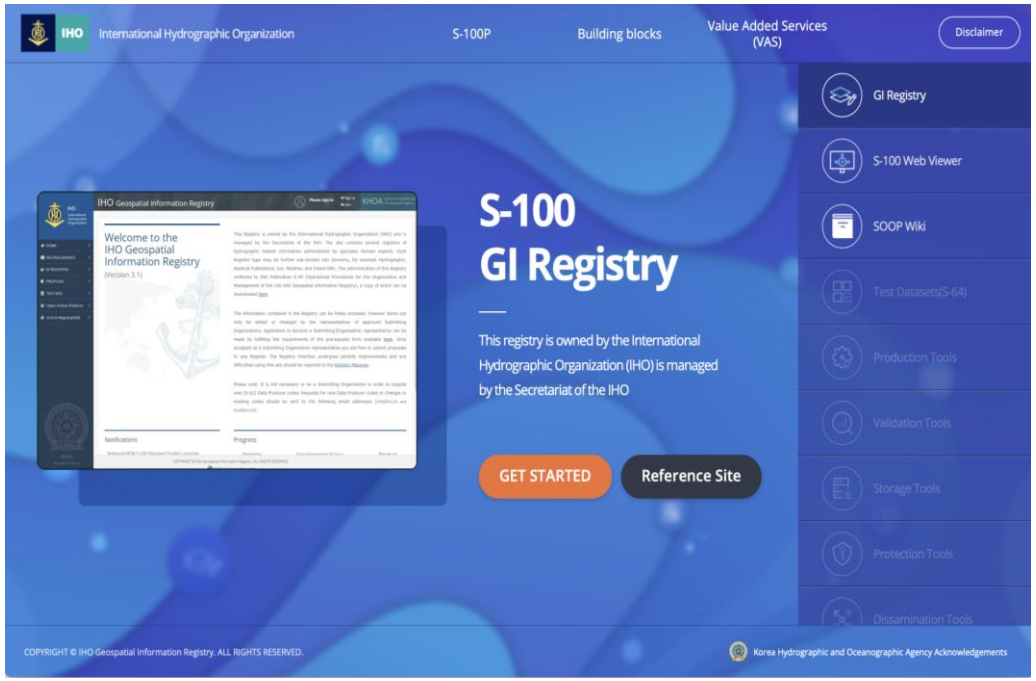
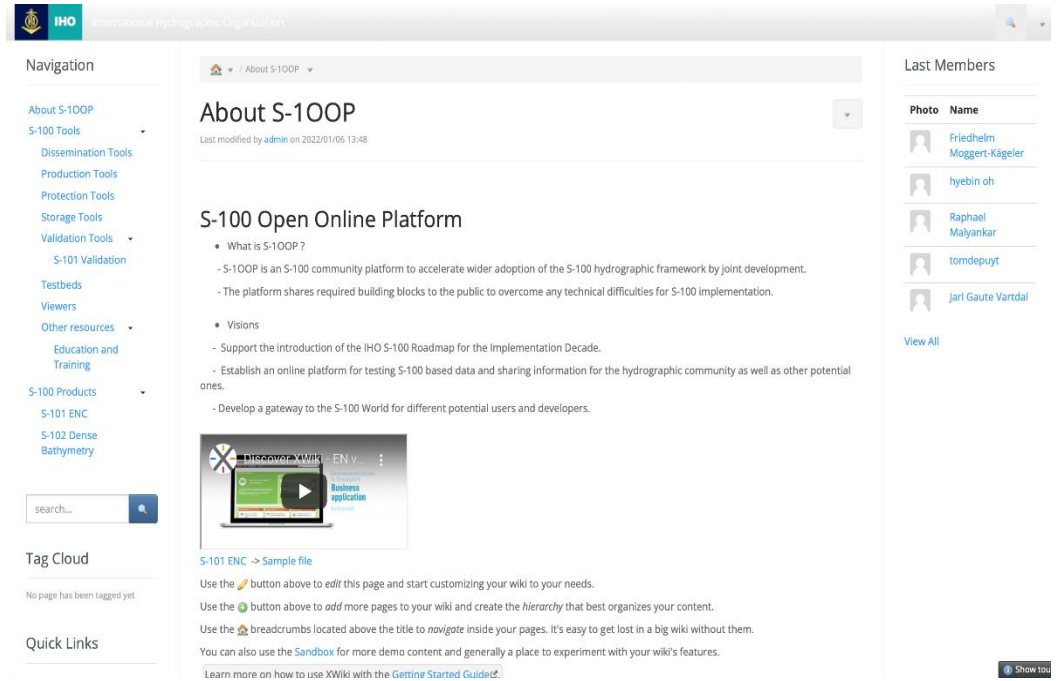
- Web-based S-100 test bed (Themes 1 & Themes 2)
  - Share S-100 related data, tools, technology, etc. released in Building Blocks
  - Web- based S-100 test bed(Data viewing)
  - Wiki for discussion support for various topics of S-1OOP activity
  - https://registry.iho.int/soop/registry_sub01.html





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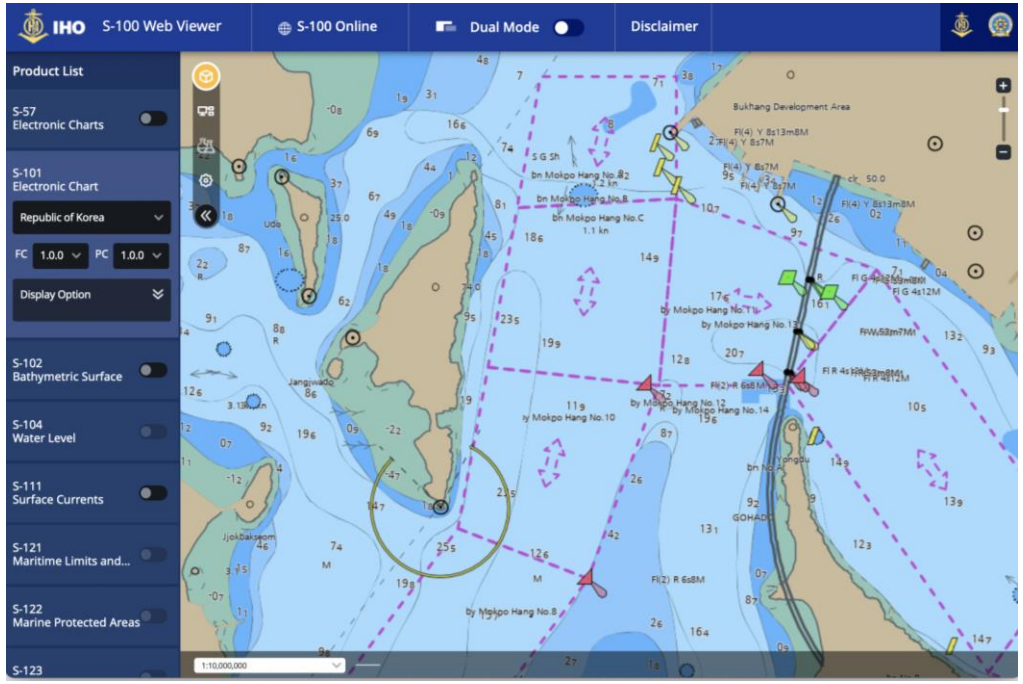
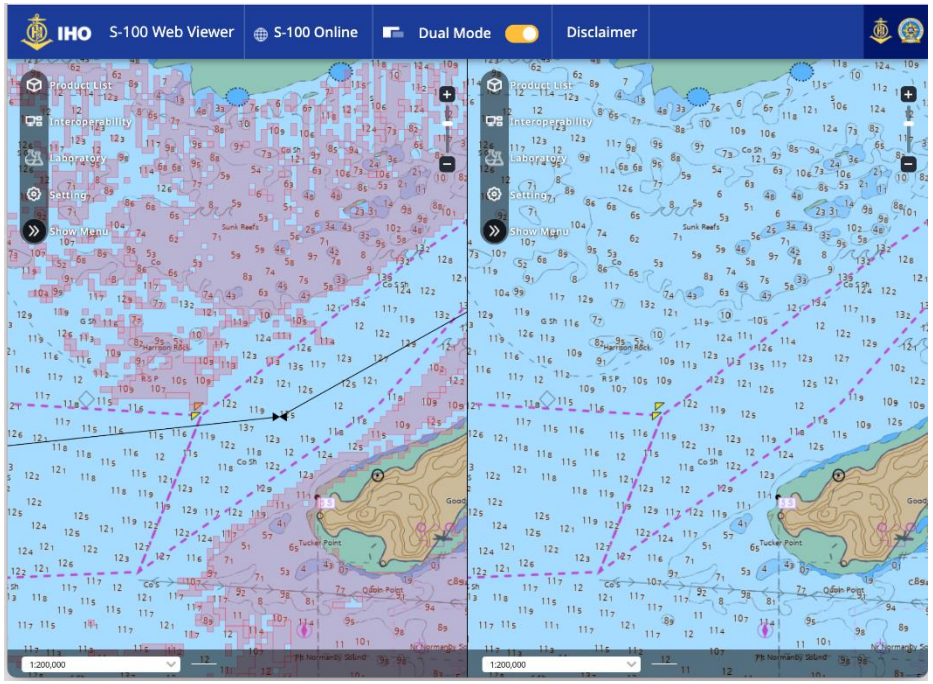
- S-100 Web Viewer (Theme 1)
  - Based on S-101 ENC, overlap or compare other S-100 products
  - Plan to expand various S-100 products and S-98





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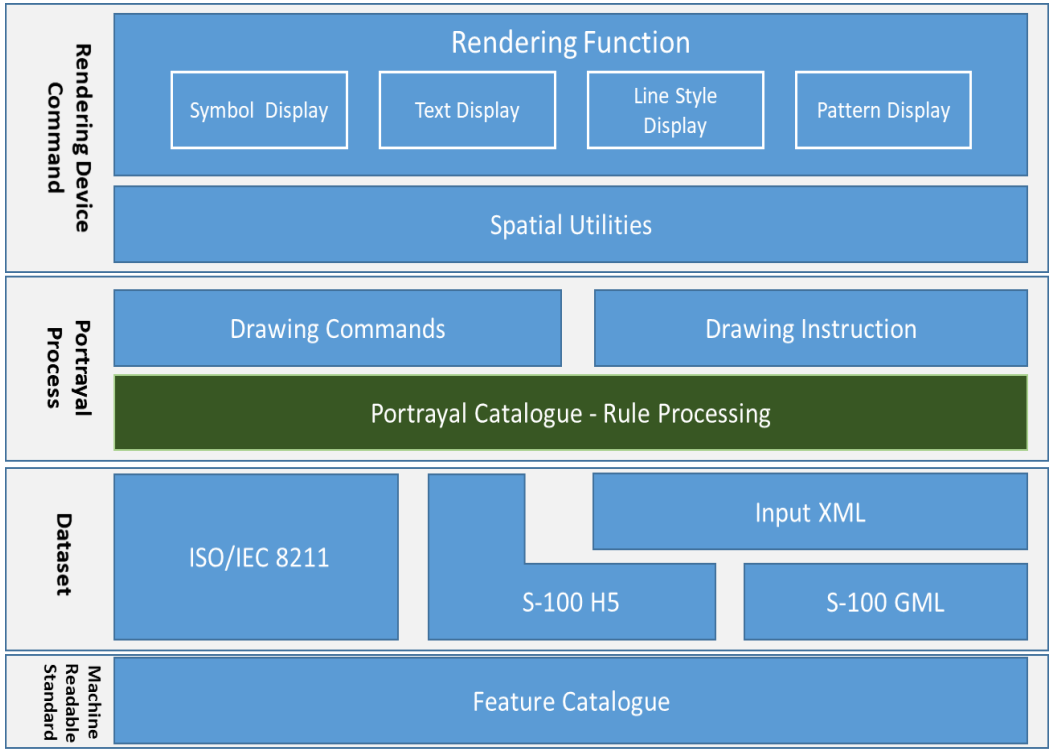
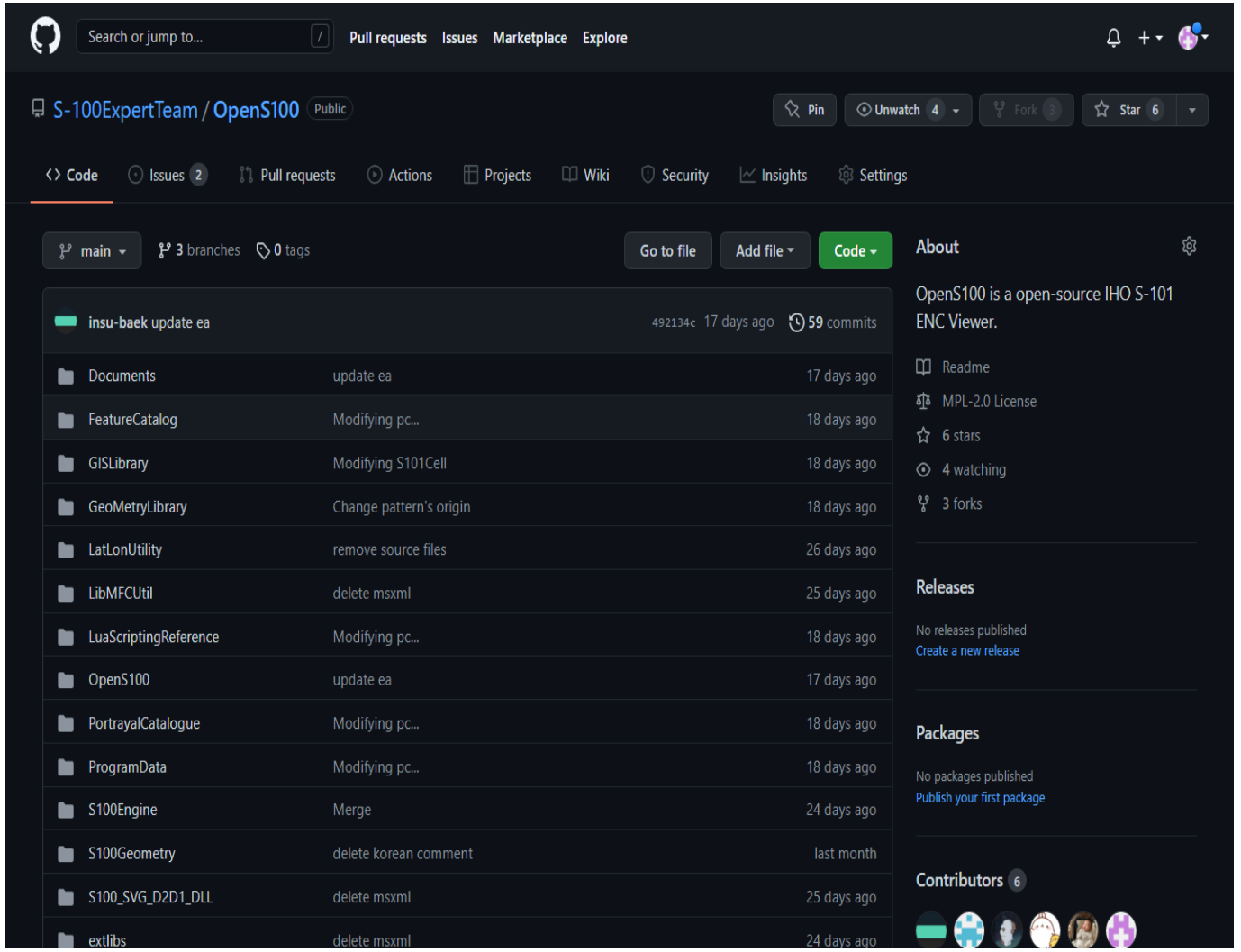
- Data Viewer and Open source (Theme 3)

Phase 1 (2021 ~ 2022) Preparation	Phase 2 (2023 ~ 2024) Joint development	Phase 3 (2025 ~) Implementation
• Clean source code of S-100 Viewer • Operate Github to share	• Release whole source code according the S-101 ed. 2.0 • Joint improvement with interested stakeholders	• Use the SW for MSDI purpose • Improve the Viewer for E-navigation and Web service





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ACTIONS REQUESTED FROM HSSC

- Note the progress on S-1OOP as a gate way to the S-100 World
- Invite MSs to participate and contribute
- Links
- https://registry.iho.int/soop/registry_sub01.html
- http://119.195.114.103/webview/
- http://119.195.114.103:8080/xwiki/bin/view/Main/