

Hydrographic Services and Standards Committee

Update on S-100 Infrastructure

S-100WG / KHOA

Presented by Vice chair S-100WG (Yong BAEK)



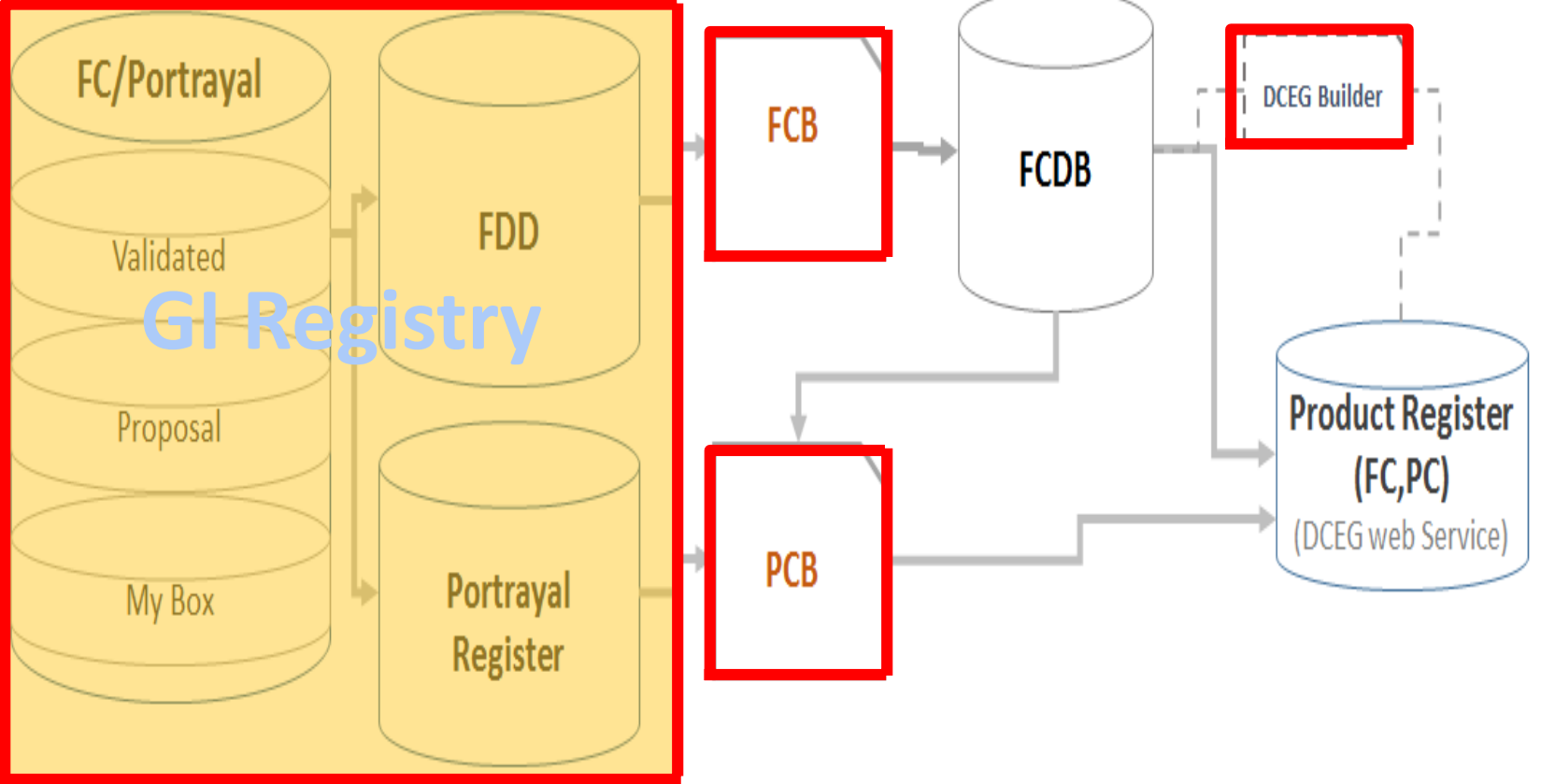
Introduction (1/2)

- **What is S-100 Infrastructure?**
 - **Framework** to support S-100 concept
 - **Composition:**
 - Geospatial Information registry
 - Feature Catalogue Builder
 - Portrayal Catalogue Builder
 - DCEG Builder (*refer to DCEG builder development*)



Introduction (2/2)

- What is S-100 Infrastructure?



GI registry Improvement (1/8)

- **Status of the GI registry**

- 1st phase: Initial interface and DB for FCD (~2015)
- 2nd phase: Update FCD, new Portrayal register (2015~2016)

- **Requirements**

- Concept register
- Improve approval process
- Other registers (Producer code, Product specification)
- Test Bed ...



GI registry Improvement (2/8)

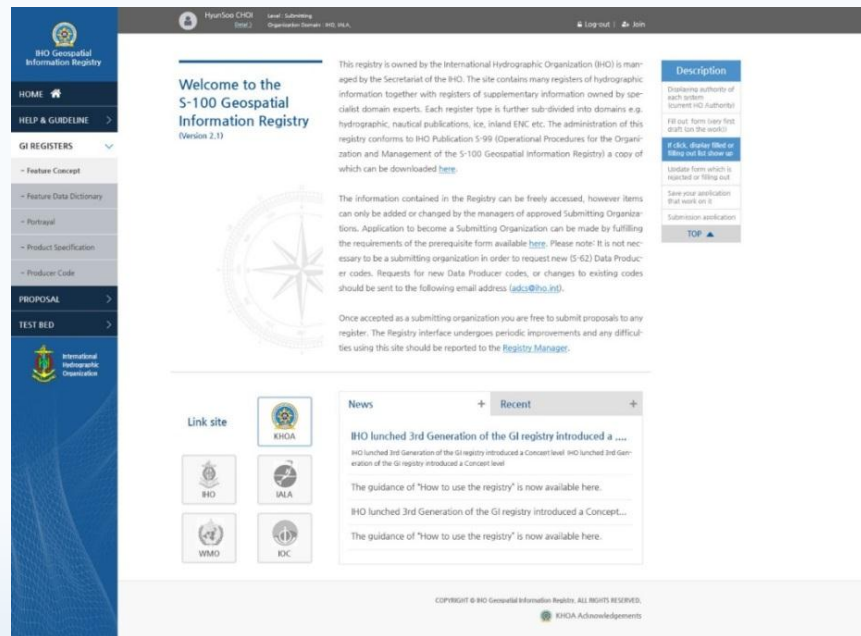
2nd S-100 GI Registry

1. FCD Register
2. Portrayal Register



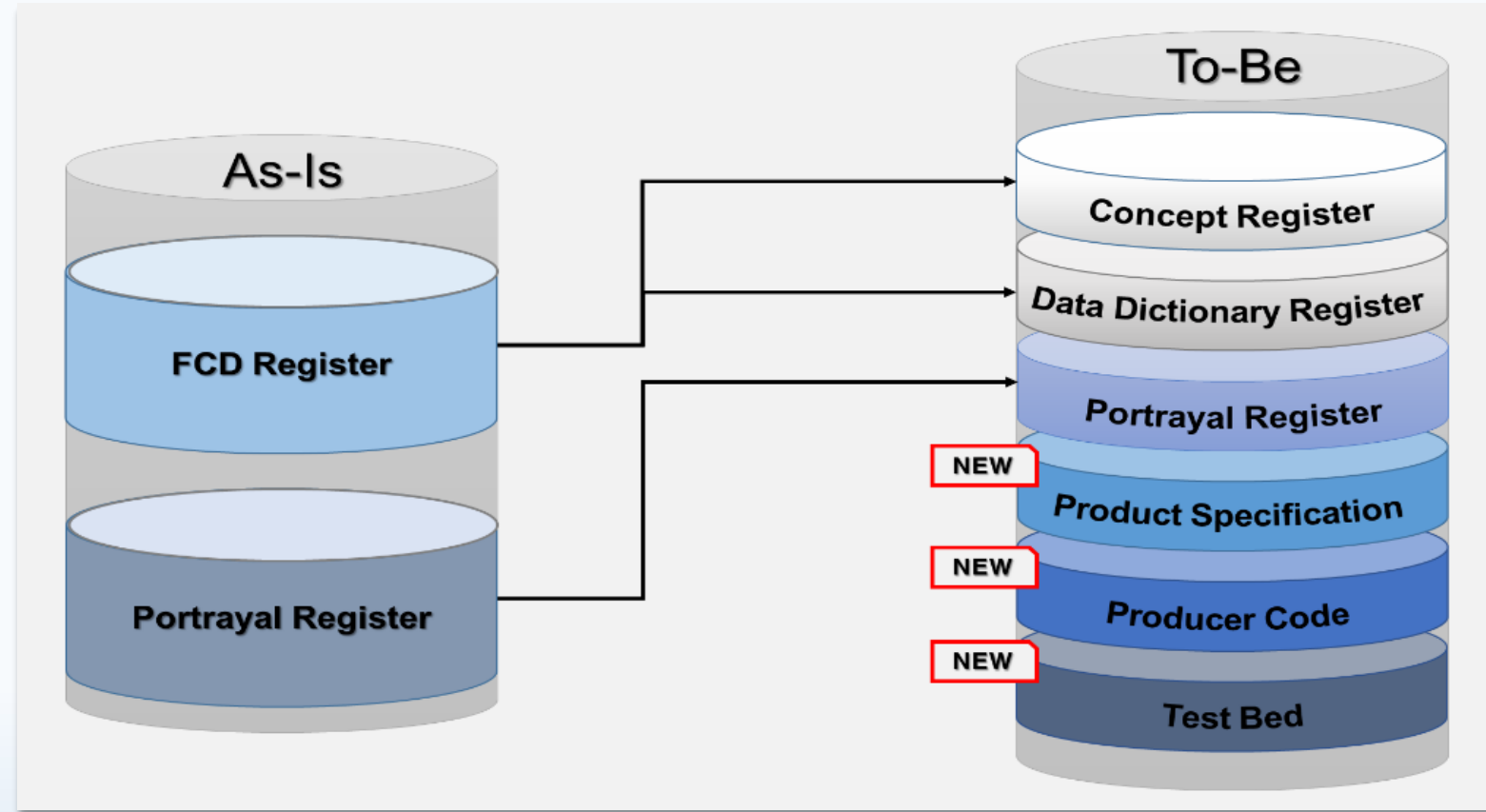
3rd S-100 GI Registry

1. Concept Register
2. Data Dic. Register
3. Portrayal Register
4. Product Specification
5. Producer Code
6. Test Bed



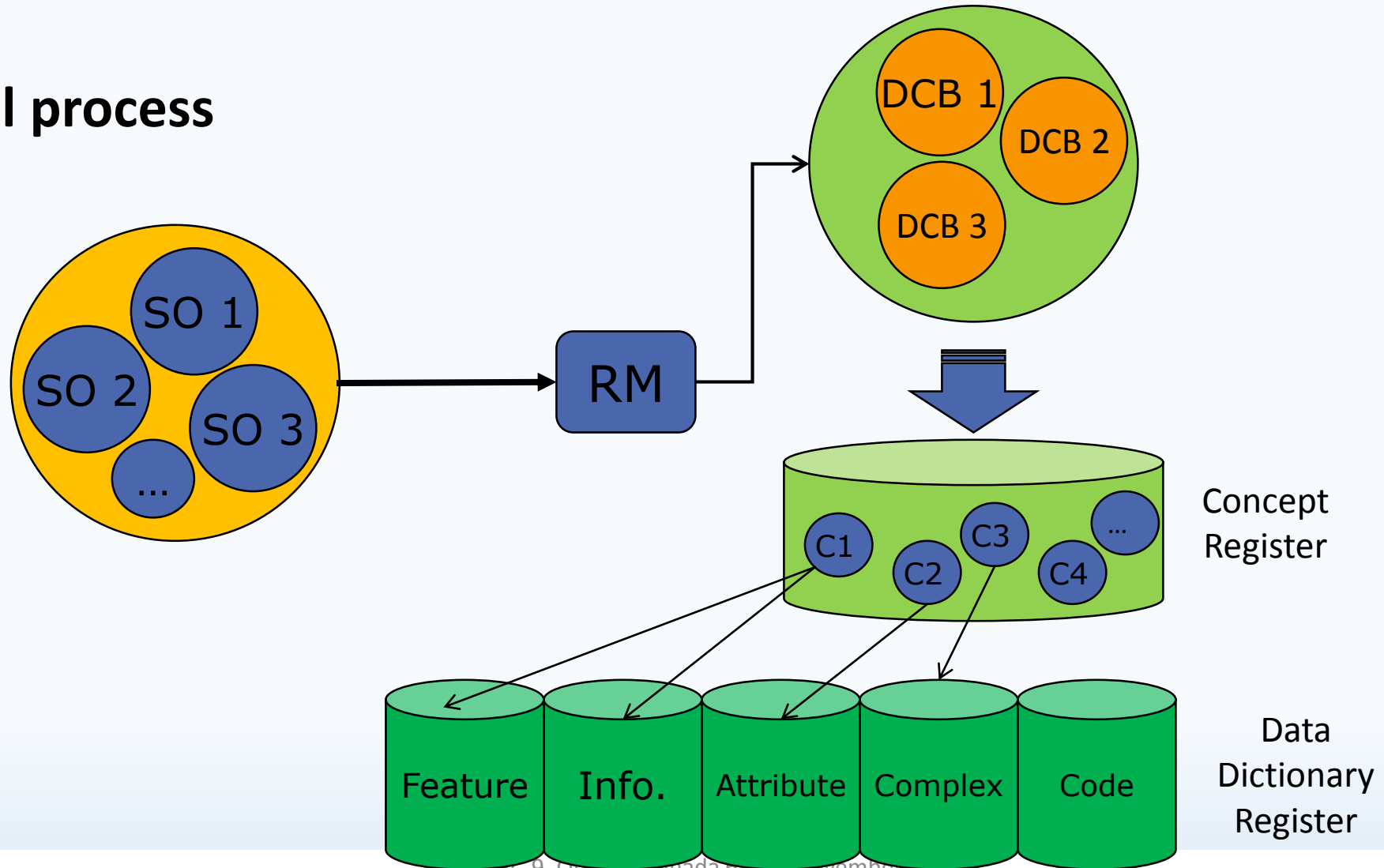
GI registry Improvement (3/8)

- Improve DB



GI registry Improvement (4/8)

- **Proposal process**



GI registry Improvement (5/8)

- **Concept register**

Present FCD register has non-harmonized data issue which various overlapped items have been consistently proposed in different domains even if their name, definition and camelcase is the same. CR has been introduced which common matters (name, definition, camelcase, etc.) are registered in concept step to fix this issue.

- **Data Dictionary Register**

In DD register, concepts which were registered in CR could be registered into registry database by designating its item type (eg. feature or attribute, etc.) and submitting additional information.



GI registry Improvement (6/8)

- **Portrayal Register**

Presentation colour of symbols has been improved by CSS (Cascading Style Sheets) file replacement and this improvement had a validation check through test registry server. Preview image error of BLOB type was fixed using images from 7Cs.

- **Product Specification Register**

Product specification register has been introduced to manage various products based on S-10X and share product specification files for related S-100 systems.



GI registry Improvement (7/8)

- **Producer Code Register**

The producer code service will be developed in the GI registry as present IHO data producer codes website.

- **Test Bed**

Test bed webpage will be developed in order to share the test catalogue and test data sets for developing Product Specifications.



GI registry Improvement (8/8)

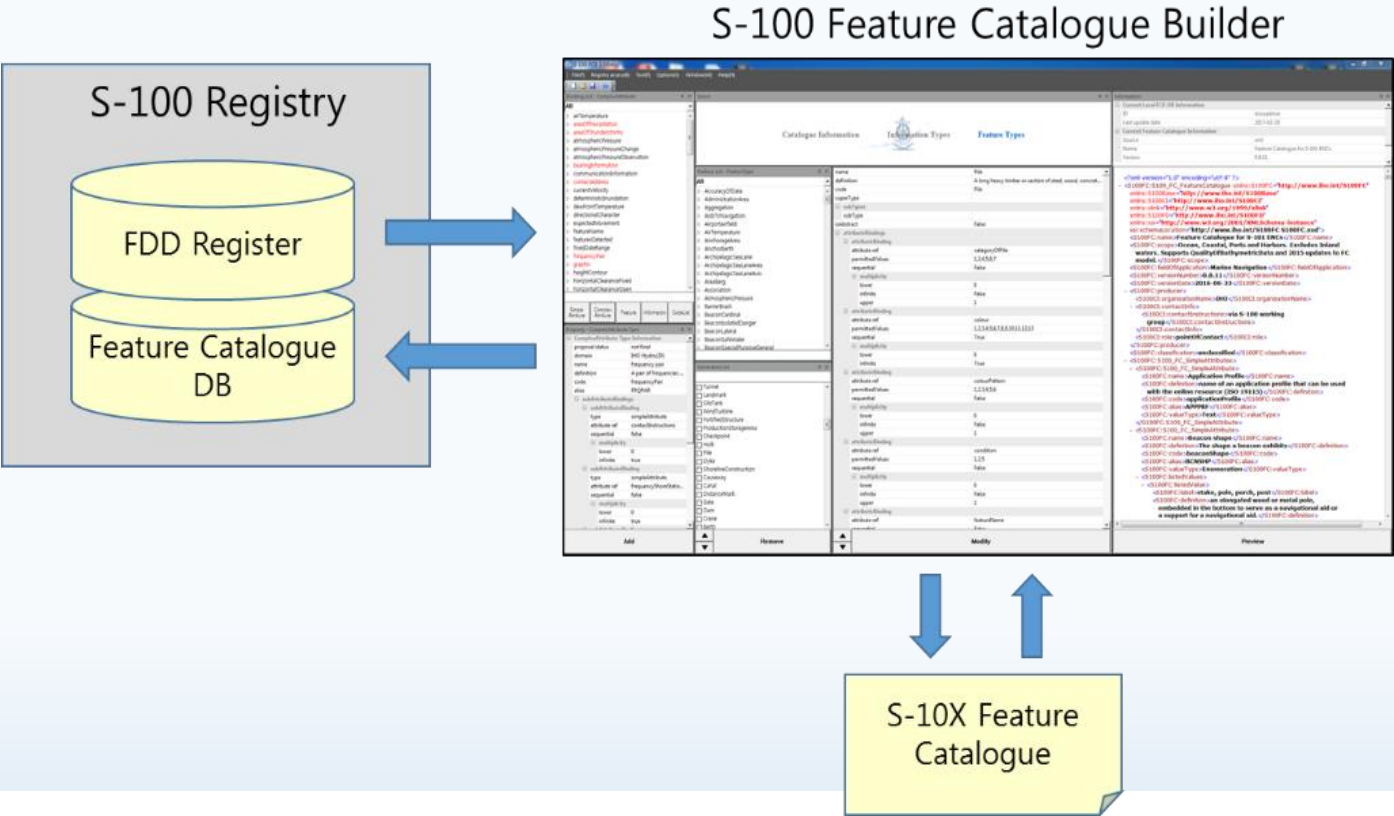
- New interface (Demo)

The screenshot displays the user interface of the S-100 Geospatial Information Registry. At the top, a navigation bar includes the IHO logo and text: "IHO Geospatial Information Registry". Below this, a sidebar menu lists sections: HOME, HELP & GUIDELINE, GI REGISTERS (with a sub-menu for Feature Concept, Feature Data Dictionary, Portrayal, Product Specification, and Producer Code), PROPOSAL, and TEST BED. The main content area features a welcome message: "Welcome to the S-100 Geospatial Information Registry (Version 2.1)". It contains two paragraphs of text explaining the registry's ownership by the IHO and its compliance with IHO Publication S-99. A large compass rose graphic is centered on the page. Below the text, there is a "Link site" section with icons for KHOA, IHO, IALA, WMO, and IDC. A "News" section titled "Recent" shows a news item: "IHO lunched 3rd Generation of the GI registry introduced a". The footer contains copyright information: "COPYRIGHT © IHO Geospatial Information Registry, ALL RIGHTS RESERVED." and "KHOA Acknowledgements".



Feature Catalogue Builder

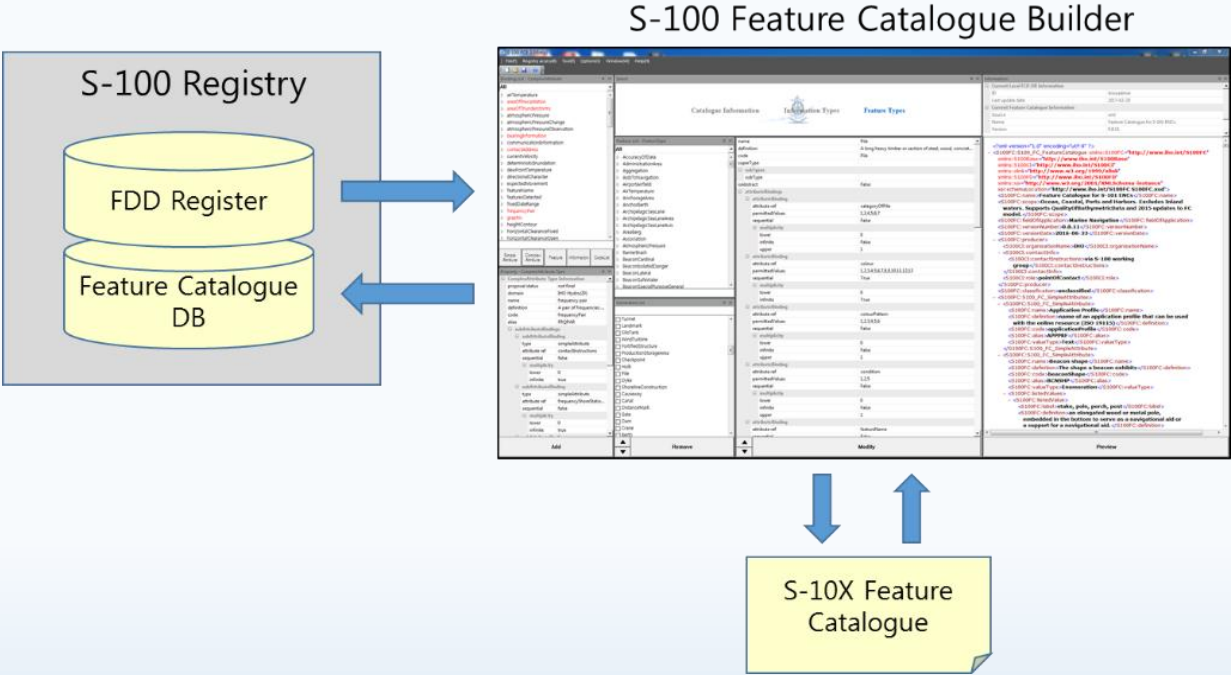
- **Connection to the registry**
 - Fix minor errors, improve GUI, connection, etc.



Portrayal Catalogue Builder

- **Installation**

- Just installed the application and connect to the registry and feature catalogue DB, BUT need to improve ... (refer to S-100WG report)



Plans

- **GI Registry**

- Develop 3rd phase GI registry (Dec. 2017)
- Test operation (Dec. 2017 – Feb. 2018)
- Run the new registry (TBD)

- **Feature Catalogue Builder**

- Connect to the new registry (Dec. 2017)
- Open the FCB (Jan. 2018)

- **Portrayal Catalogue Builder (TBD)**



Action requested of HSSC

- **Note** the report.
- **Request** to provide recommendations and feedbacks if any.

