Update on S-100 Infrastructure

S-100WG / KHOA

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

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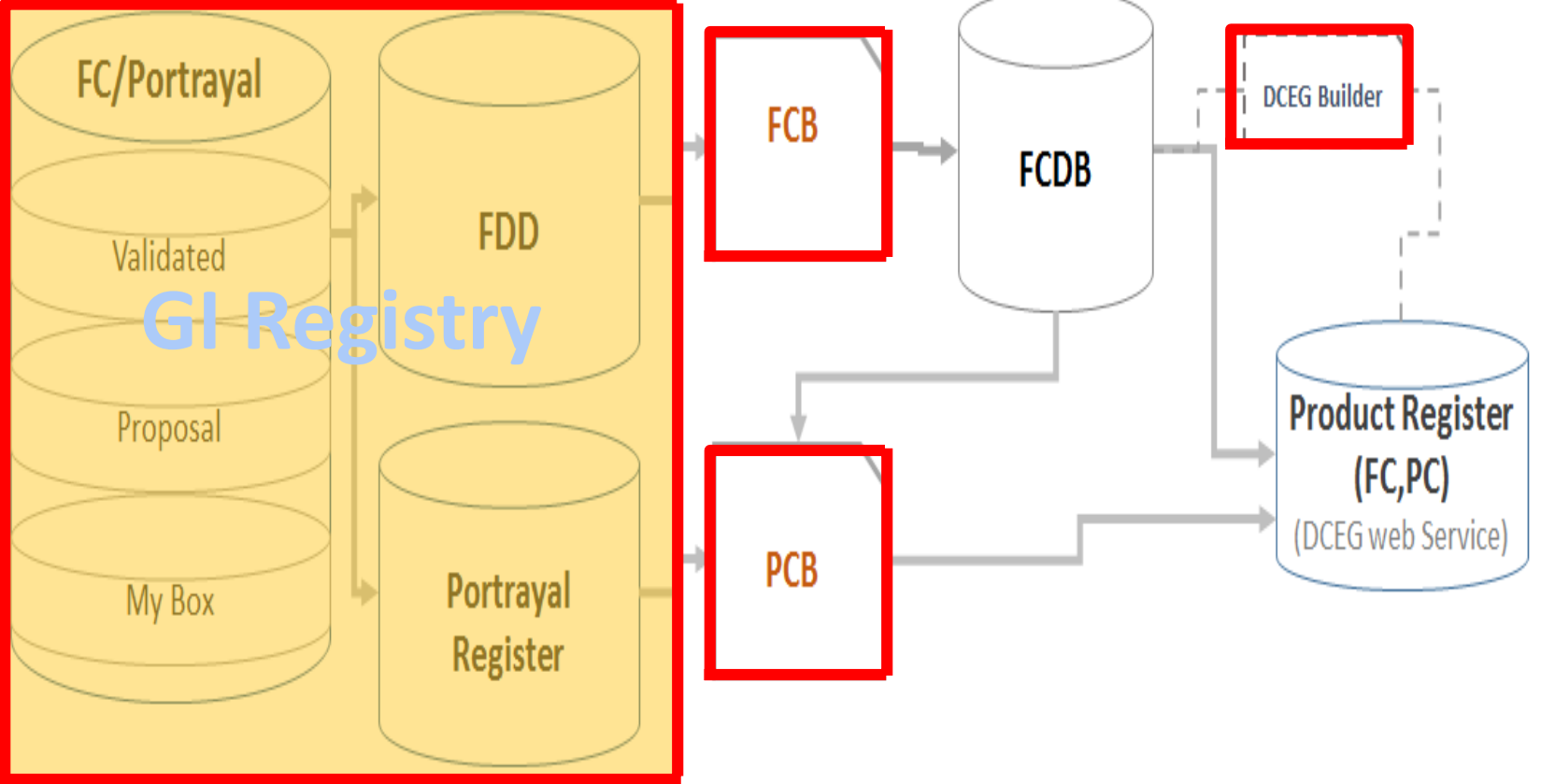*Organisation Hydrographique Internationale*

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
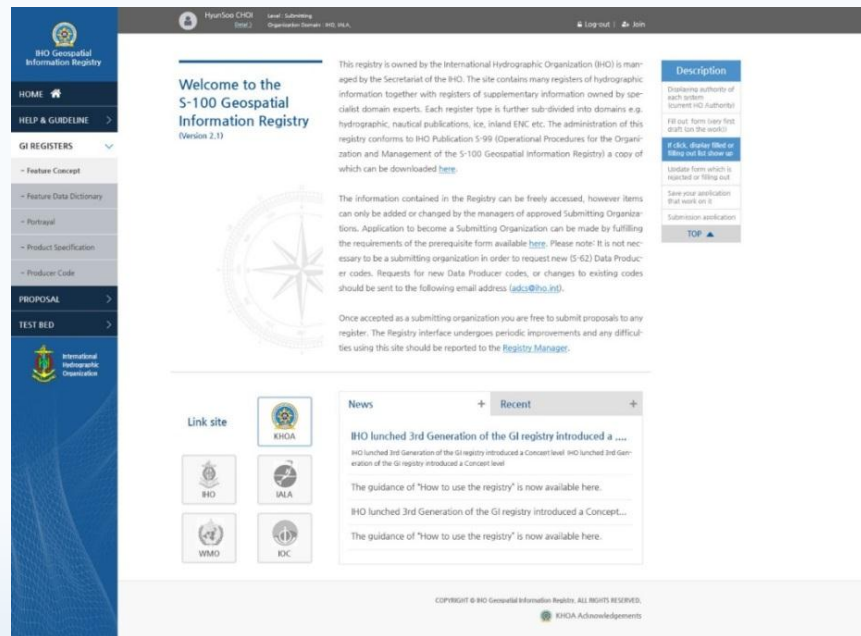 - Other registers (Producer code, Product specification)
  - Test Bed …

2nd S-100 GI Registry

1. FCD Register
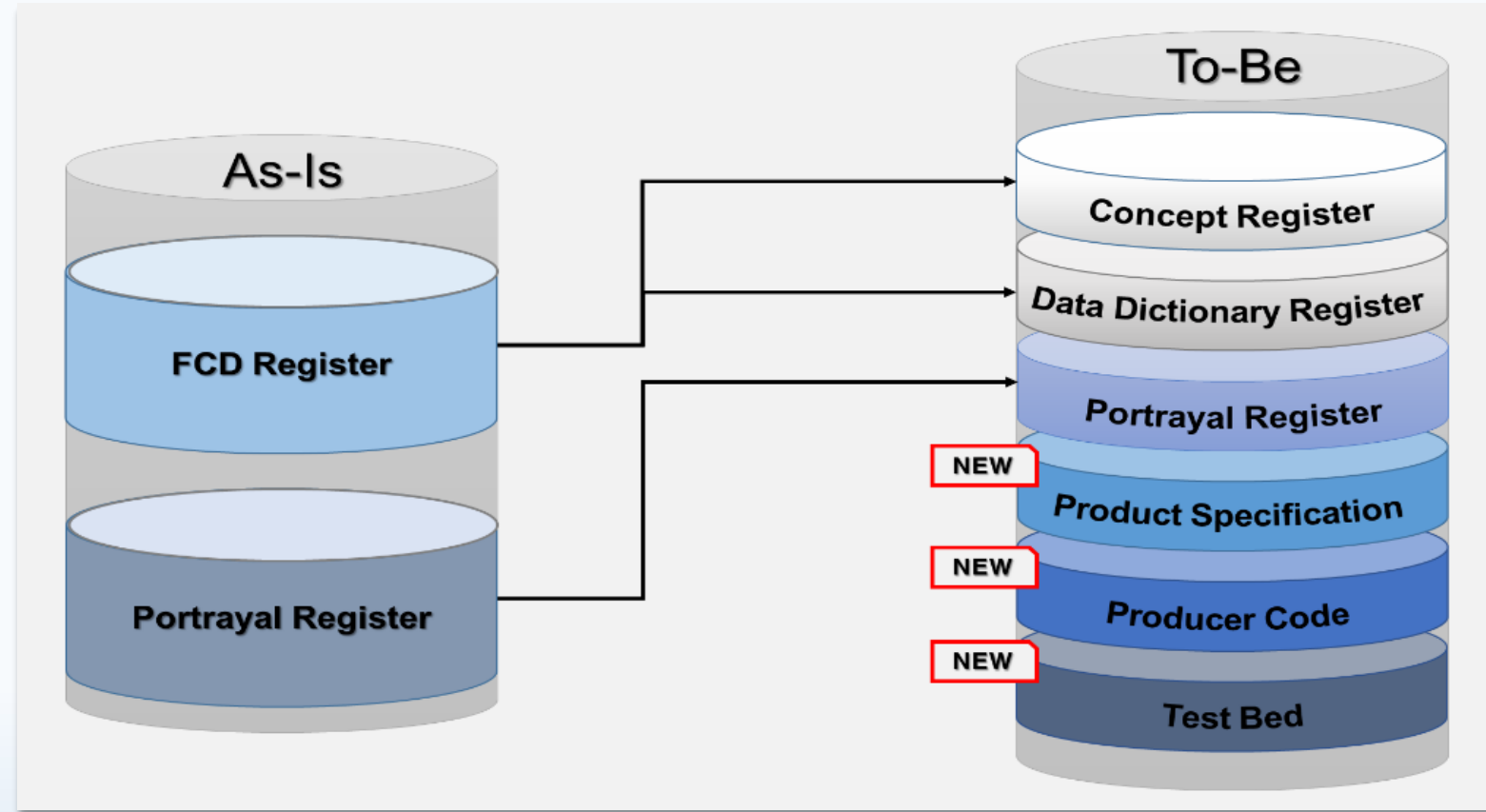2. Portrayal Register

3rd S-100 GI Registry

1. Concept Register

2. Data Dic. Register

3. Portrayal Register

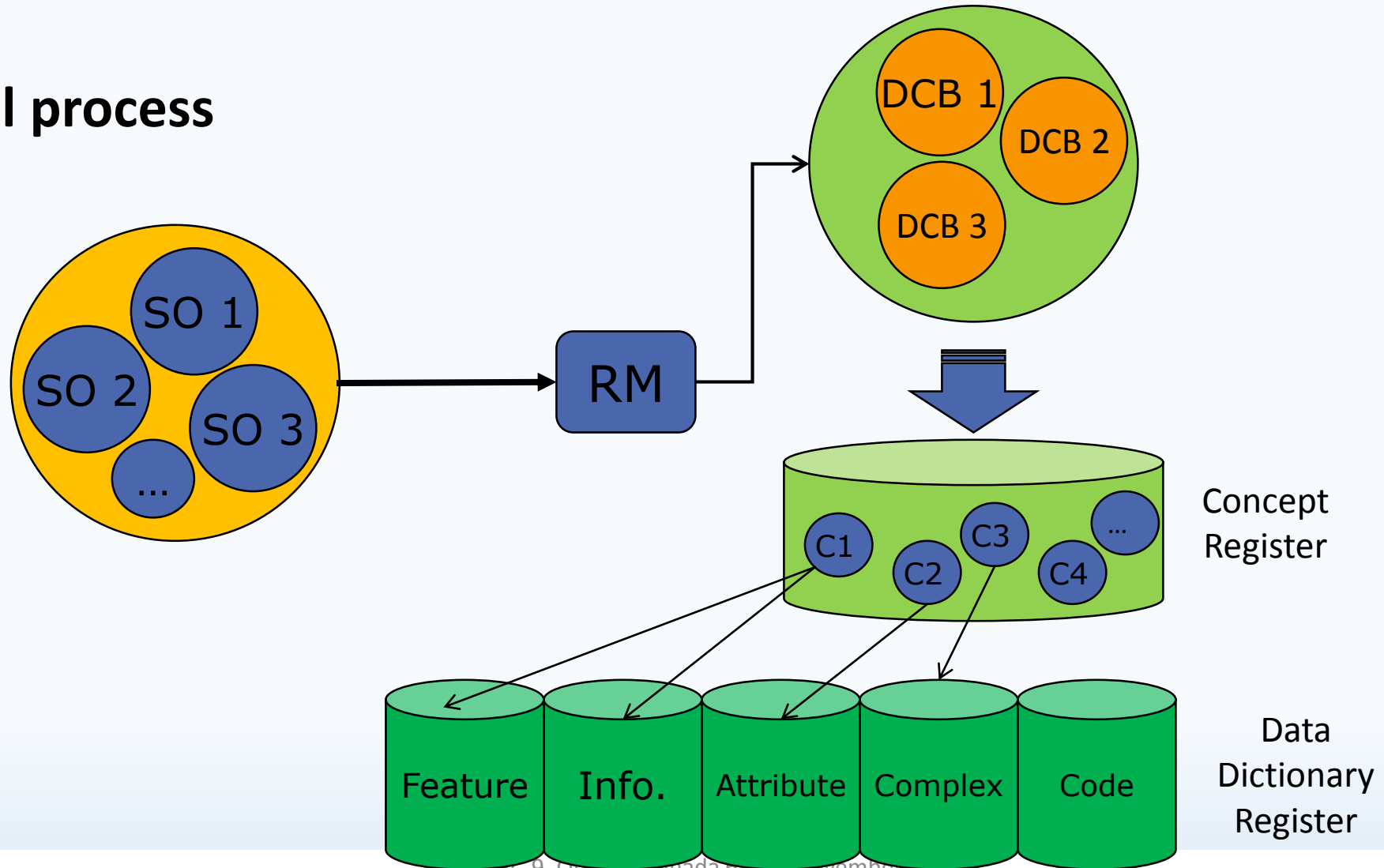4. Product Specification

5. Producer Code

6. Test Bed

GI registry Improvement (3/8)

- **Improve DB**

GI registry Improvement (4/8)

- **Proposal process**

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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.

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- **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.

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- **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.
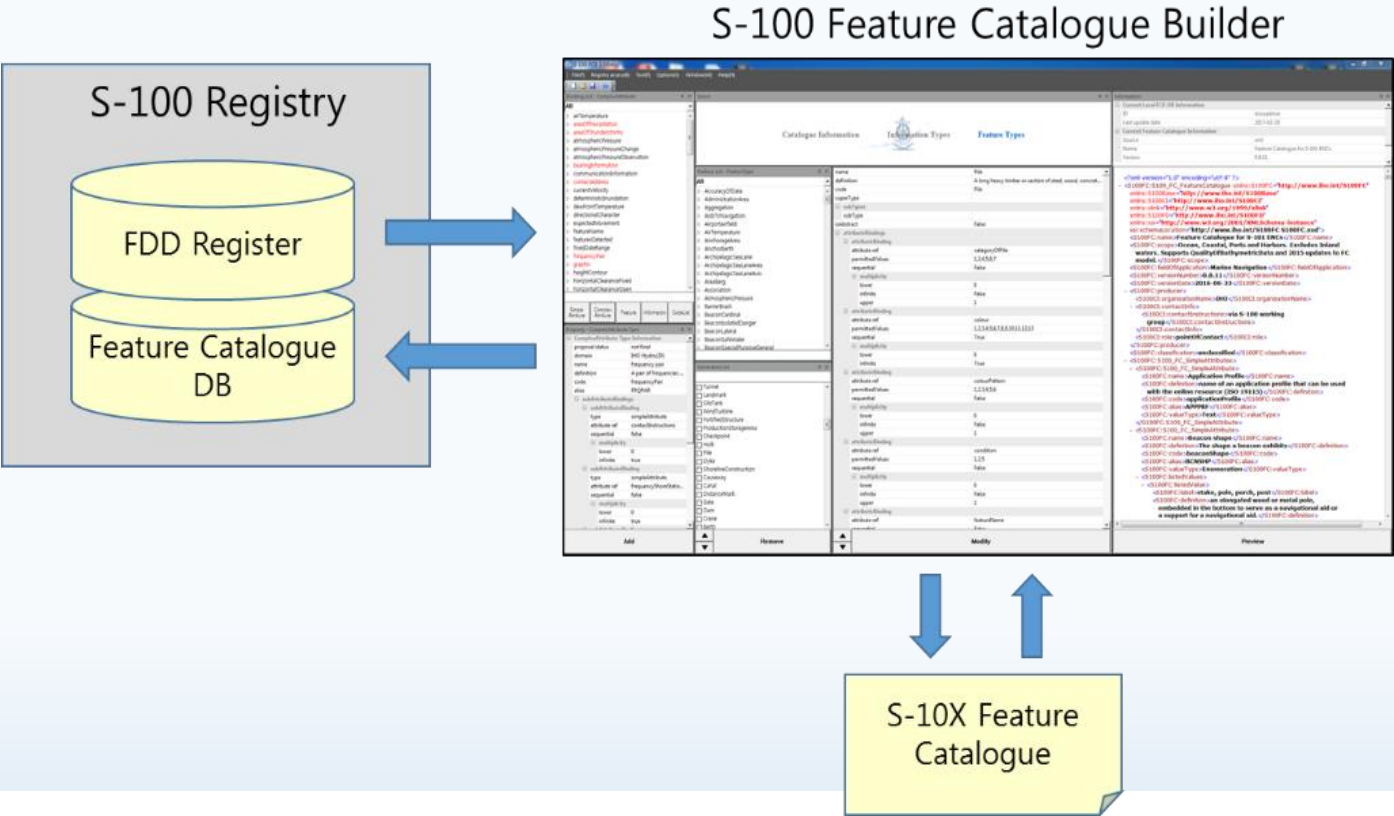
GI registry Improvement (8/8)

- **New interface (Demo)**
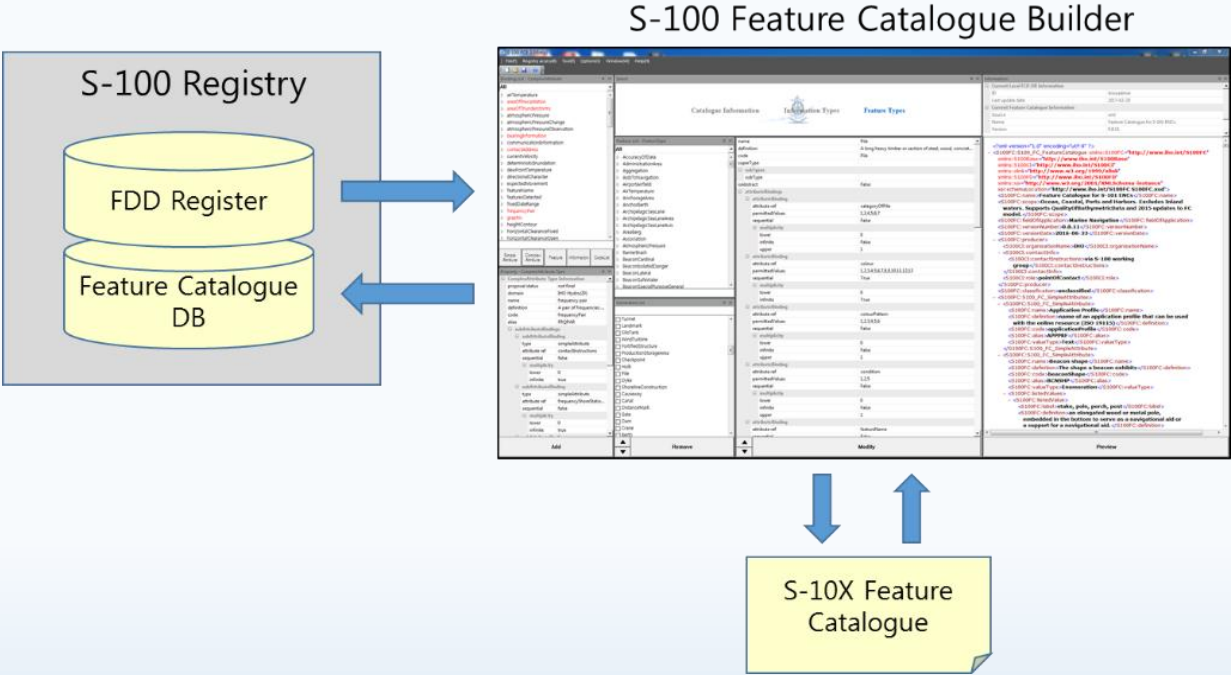
Feature Catalogue Builder

- **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)

S-100 Feature Catalogue Builder

S-100 Registry

FDD Register

Feature Catalogue DB

S-10X Feature Catalogue

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.