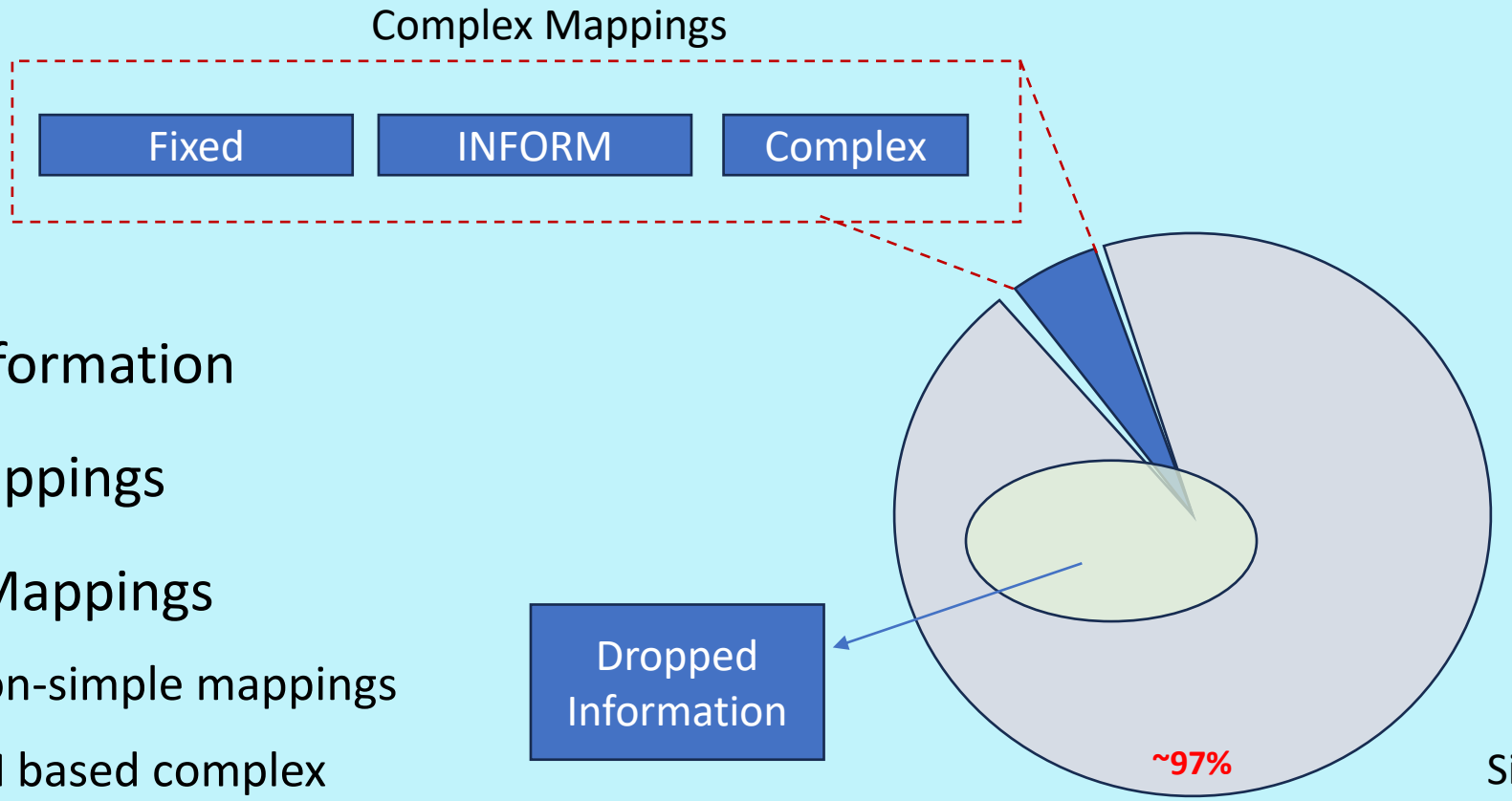
Conversion Workshop preliminary readout

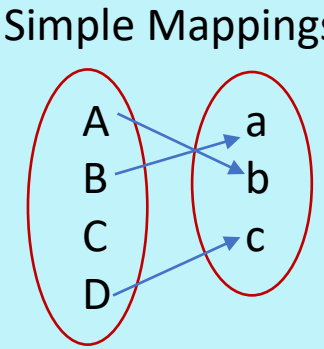
- Conversion workshop has now completed. Successful execution of the 5 day training and implementation of the planned activities
- 30 participants from 20 countries took part
- Programme structure - training for an initial day, followed by 2 days of facilitated conversion, then 2 further days of conversion exercises with support from industry partners.

IHO R&D Lab conversion workshop

- Member State representatives, 29 from 19 countries
- Hosted by IHO R&D Lab Singapore
- Working on “live data”
- Combination of training and practical experience
- A variety of of available tools from different manufacturers
- Focus on use of S-65, both S-57 to S-101 and S-101 to S-57
- Outputs under review, both detailed and general suggestions for improvement to IHO guidance on conversion which would help both industry and data producers for DF transition.



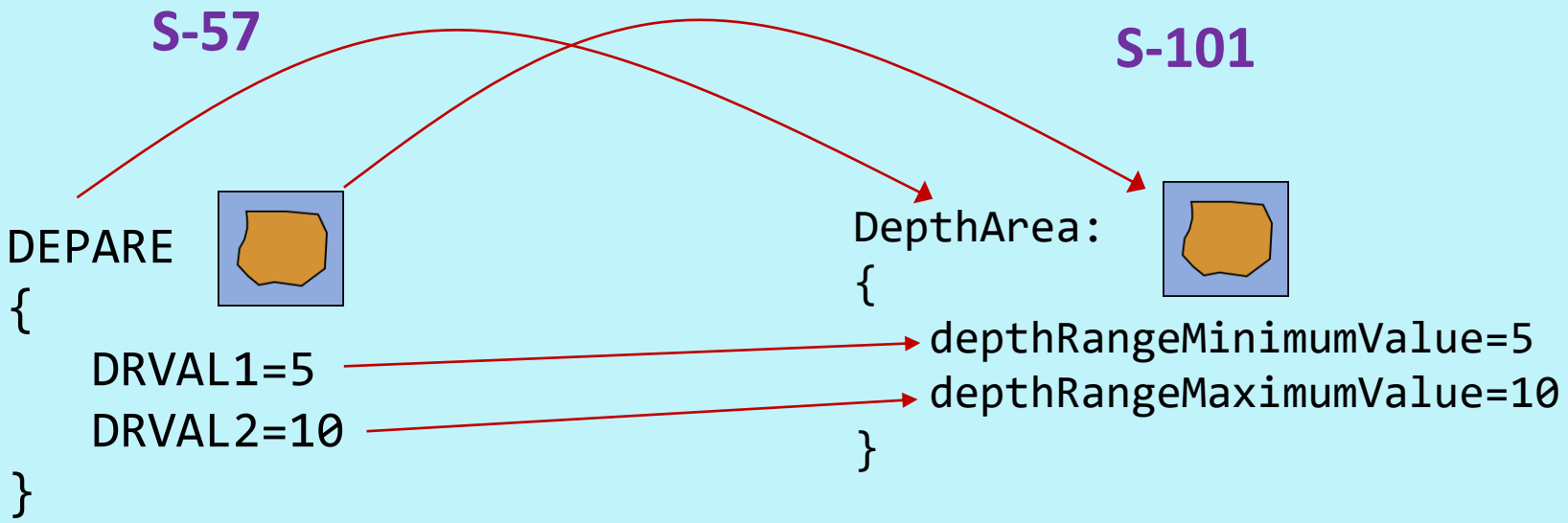
- Missing information
- Simple Mappings
- Complex Mappings
  - Fixed non-simple mappings
  - INFORM based complex mappings
  - Truly “Complex” mappings requiring manual intervention and/or validation.



Conversion Structure

Initial Takeaways

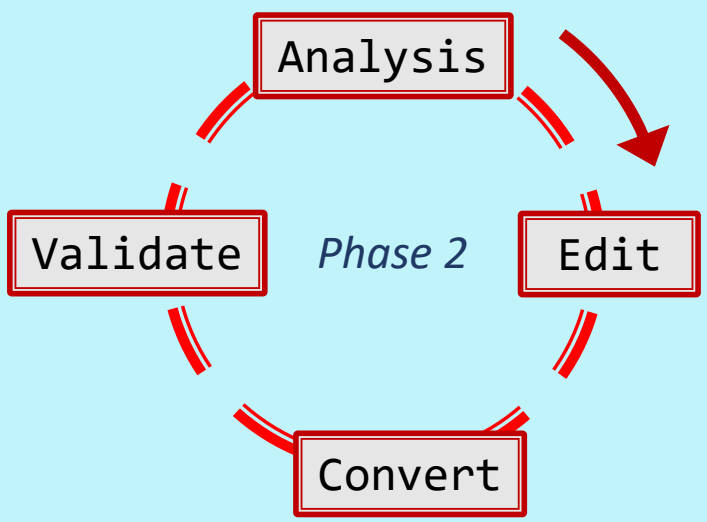
- Software tool availability is a huge advantage, access to many tools which perform the same function(s) helps participants focus on data content and the underlying IHO standards
- Awareness that S-57 to S-101 conversion is not “simple” – our focus on the more complex mappings helped reinforce the message of S-65
- “Reverse conversion” is still in the early stages – dual fuel production tooling is “young”. It is also hard to prototype/demonstrate and must take producer models into account. We should try and focus on DF production guidance more.
- How can IHO support be enhanced?
  - Supplement S-65’s message with other useful elements
  - Definitive test datasets (all non-trivial mappings, plus a “Chart 1” approach)
  - Machine readable conversion mappings (useful for industry and data producers)
  - Verification technologies are still under development
  - We’d like an HTML version
  - Supplement training and communication materials to deliver the message
  - More specific descriptions of “what to do” for the producer
- Standardised validation tests are still missing for S-101
- Confusion over versioning. Tests which respect (and identify) versions still do not exist.



S-57		S-101	
DEPARE		DepthArea	
Polygon		Surface	
Name=DRVAL1	Value=5	Name=depthRangeMinimumValue	Value=5
Name=DRVAL2	Value=10	Name=depthRangeMaximumValue	Value=10

A simple mapping.

IHO ENC Conversion Workshop - Process

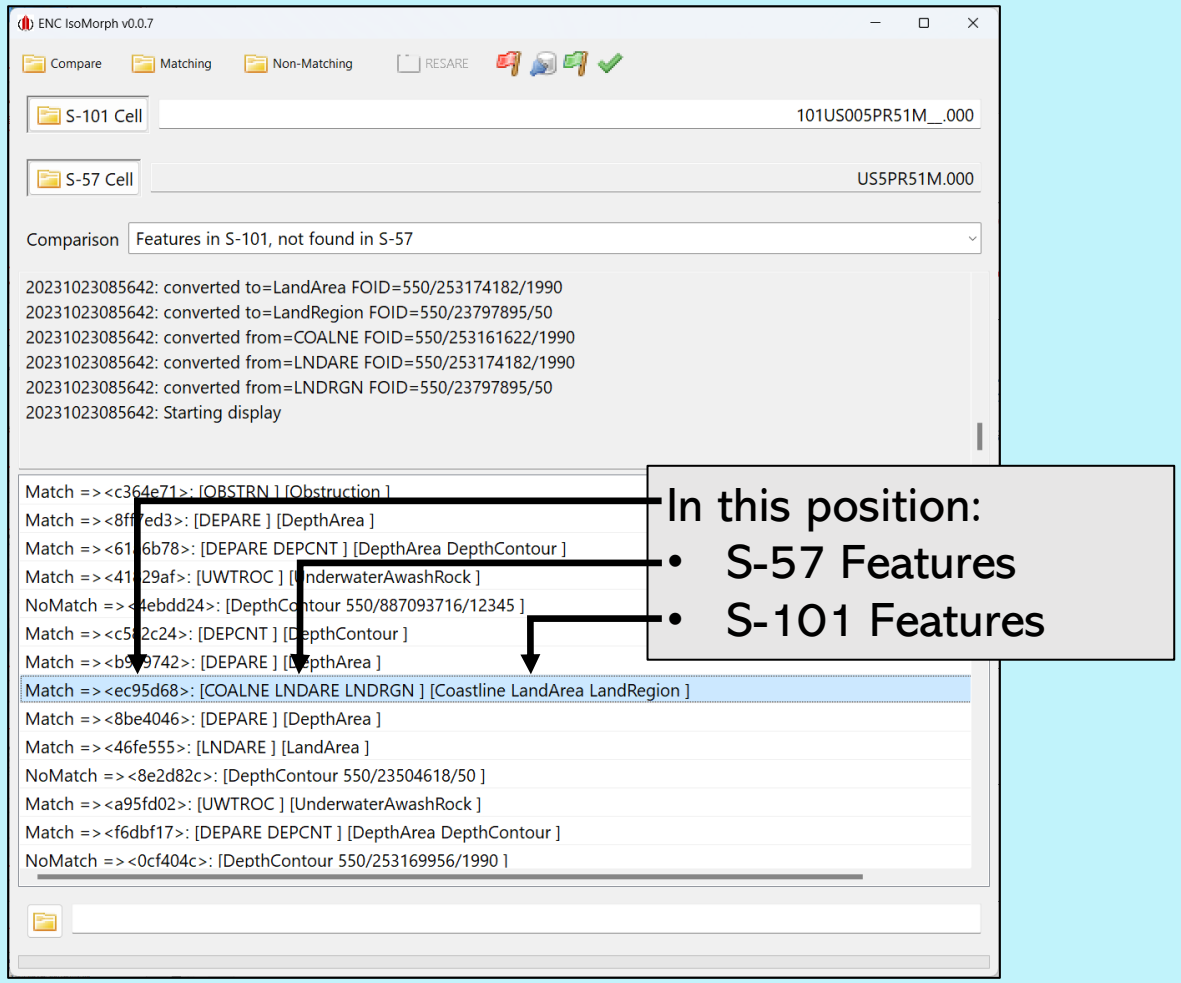


- Training *(Are we ready?)*
- Objectives *(Do we know what to do?)*
- Tools *(do we have everything we need?)*
  - Production
  - Editing
  - Validation
  - Testing
- Scheming, Scales and Metadata

Making “initial S-101” data

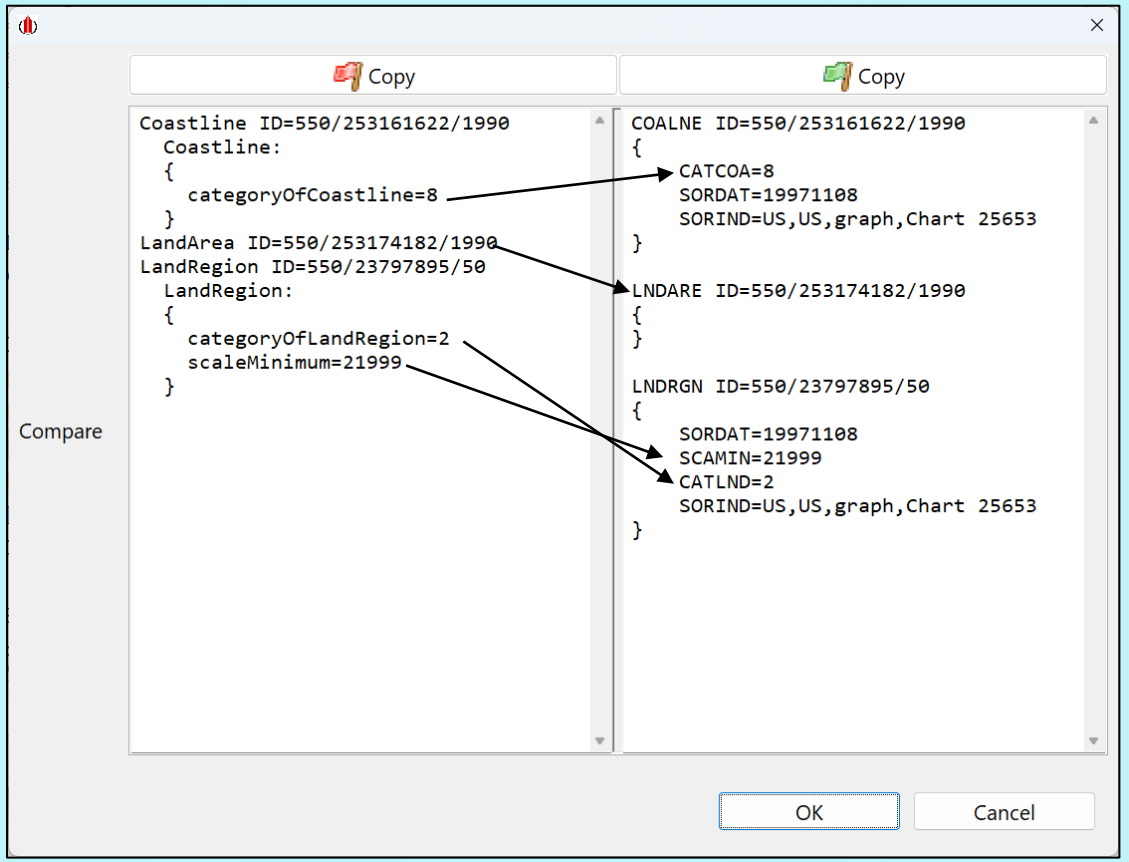
- Analysis *Running Pre-conversion checks, validation (S-57)*
- Edit *Do we need to edit the original data at all?*
- Convert *Running the actual conversion process*
- Validate *Is the created data valid, does it match the original? Does it need further work?*

S-101 Data Production Verification



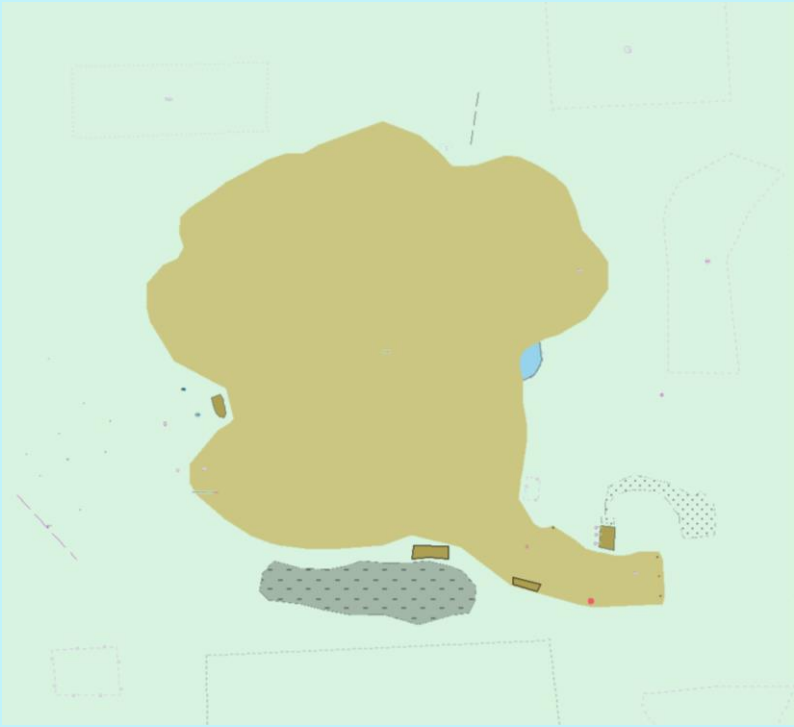
In this position:

- S-57 Features
- S-101 Features



Wednesday - Convert My ENC

- Convert the Null Island Test Data Set (sent out)
  - How many non-simple conversions can you find?
  - Are there any that should be non-simple but aren't – does your software tool convert everything according to S-65?
  - Try with a different tool? Do you get the same results
  - Suggestions – what shall we add to this cell?
  - We can add some features and retry



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