TSCOM / iSCRUM

La Jolla (3-7 October 2011)

METADATA

Metadata Standards

FGDC - Content Standard for Digital Geospatial Metadata -> *new national (ANSI) standard - The North American Profile (NAP) of ISO 19115: Geographic Information – Metadata*

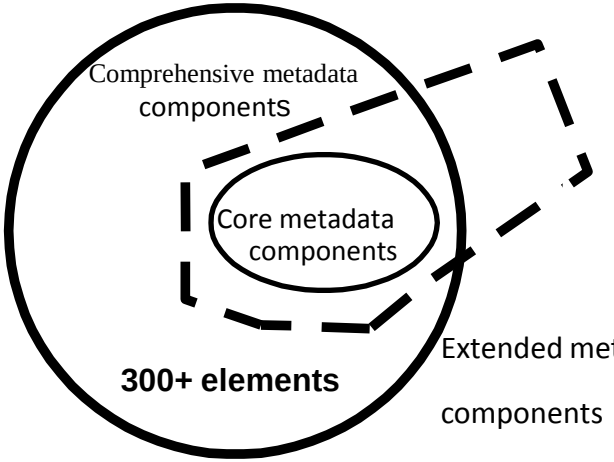
ISO 19115:2003 Metadata (300 + elements)

ISO 19115:2003 Part 2 Extensions for imagery and gridded data.

ISO 19139 + Part 2 Metadata - XML schema implementation.

Community Profiles (restricted elements / extensions for user domain)

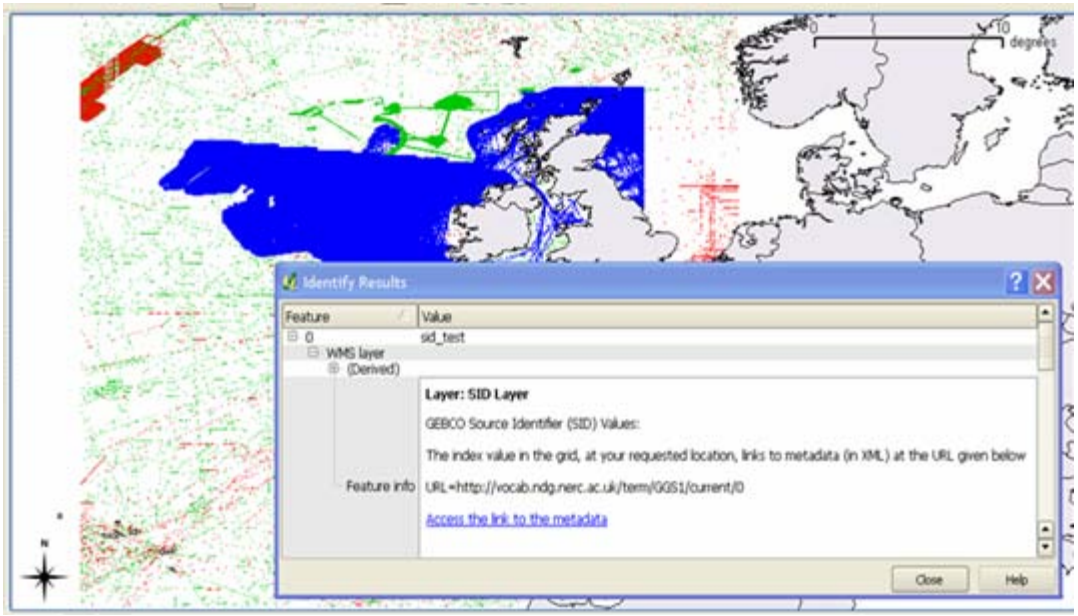
INSPIRE
NAP
EMODNET – CDI
WMO
IHO (S-100)
Others …..



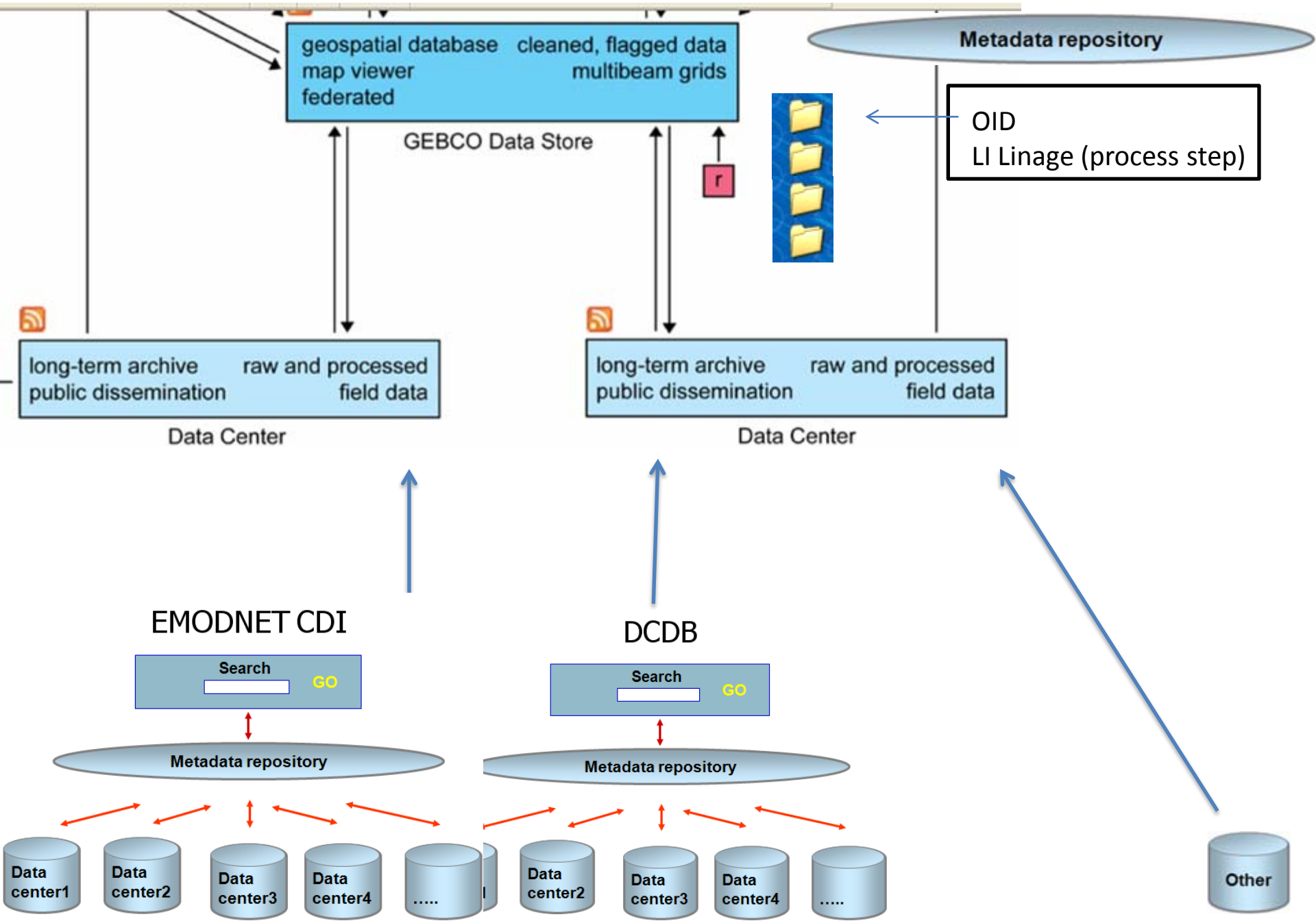
ISO 19119 Geographic information – Services

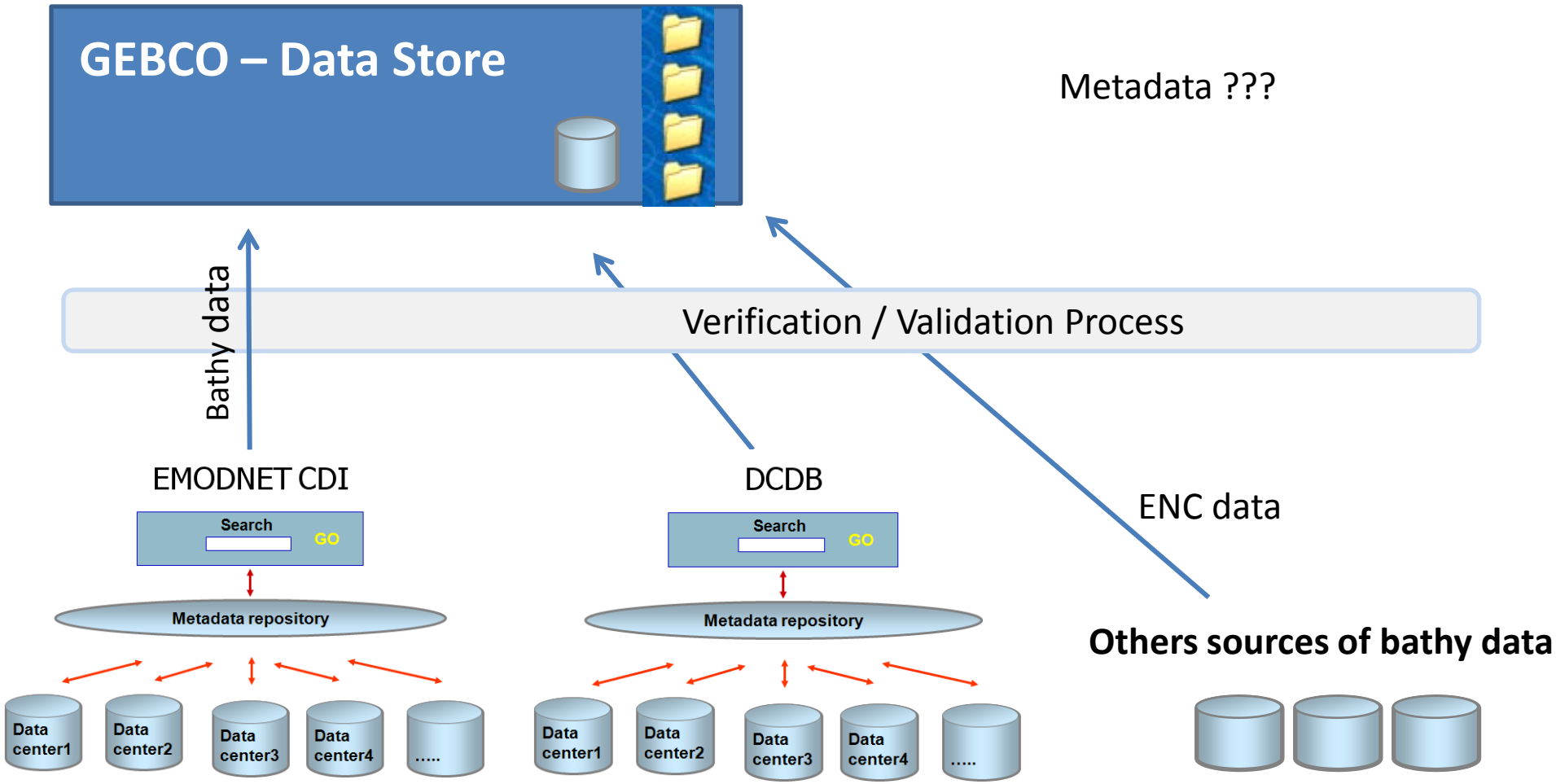
Pauline's Test SID grid

Web Map Services
Web Feature Services
Web Coverage Services
Web Map Tile Service



Other web map services – e.g. controlled vocabularies (Marine Geosciences – EMODNET/NERC)


geospatial database
map viewer
federated
cleaned, flagged data
multibeam grids
GEBCO Data Store
Metadata repository
OID
LI Linage (process step)
r
long-term archive
public dissemination
raw and processed
field data
Data Center
long-term archive
public dissemination
raw and processed
field data
Data Center
EMODNET CDI
Search
GO
Metadata repository
DCDB
Search
GO
Metadata repository
Data center1
Data center2
Data center3
Data center4
.....
Data center2
Data center3
Data center4
.....
Other


GEBCO – Data Store
Metadata ???
Bathy data
Verification / Validation Process
EMODNET CDI
Search
GO
Metadata repository
Data center1
Data center2
Data center3
Data center4
.....
DCDB
Search
GO
Metadata repository
Data center1
Data center2
Data center3
Data center4
.....
ENC data
Others sources of bathy data

Discovery metedata

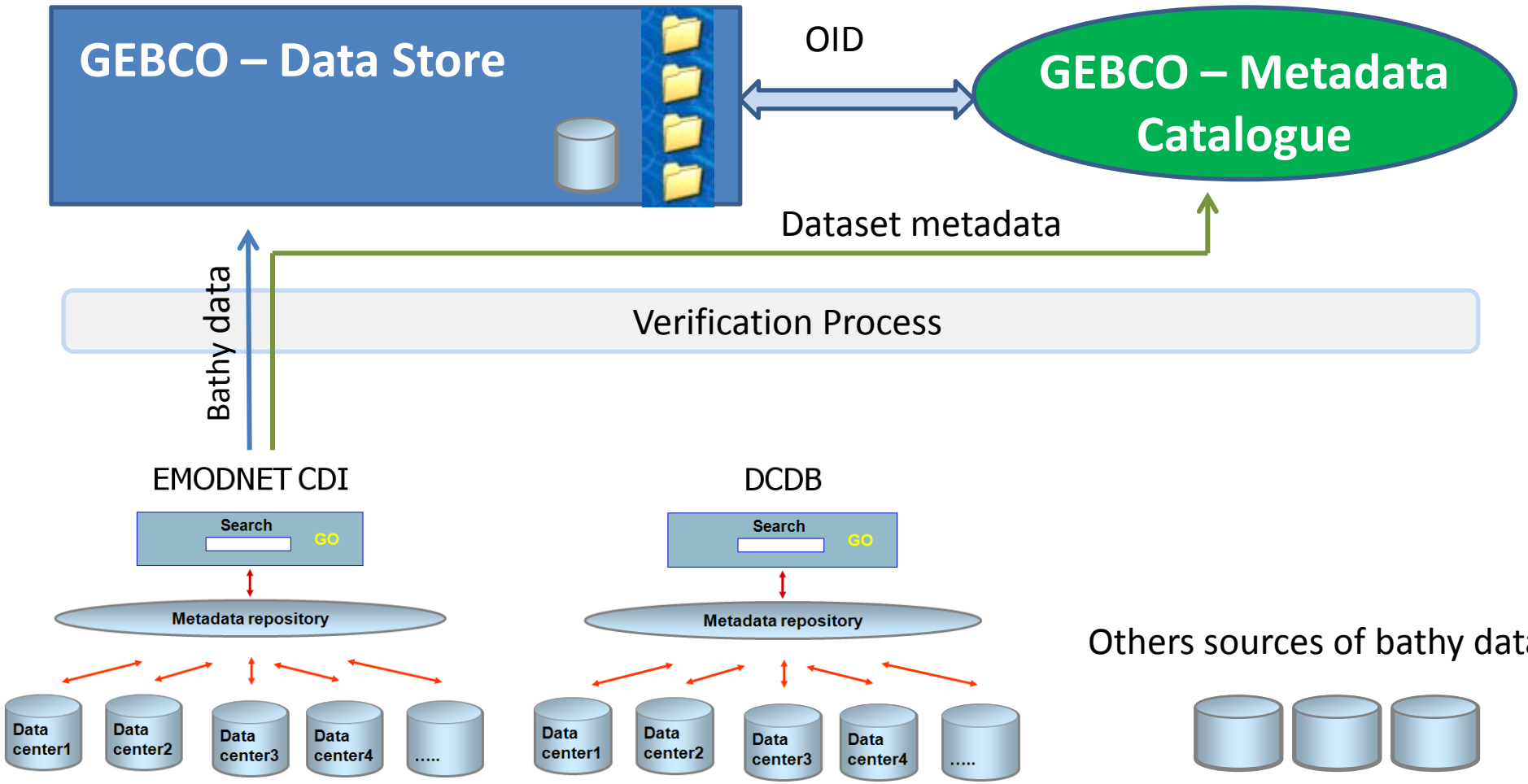
Spatial limit

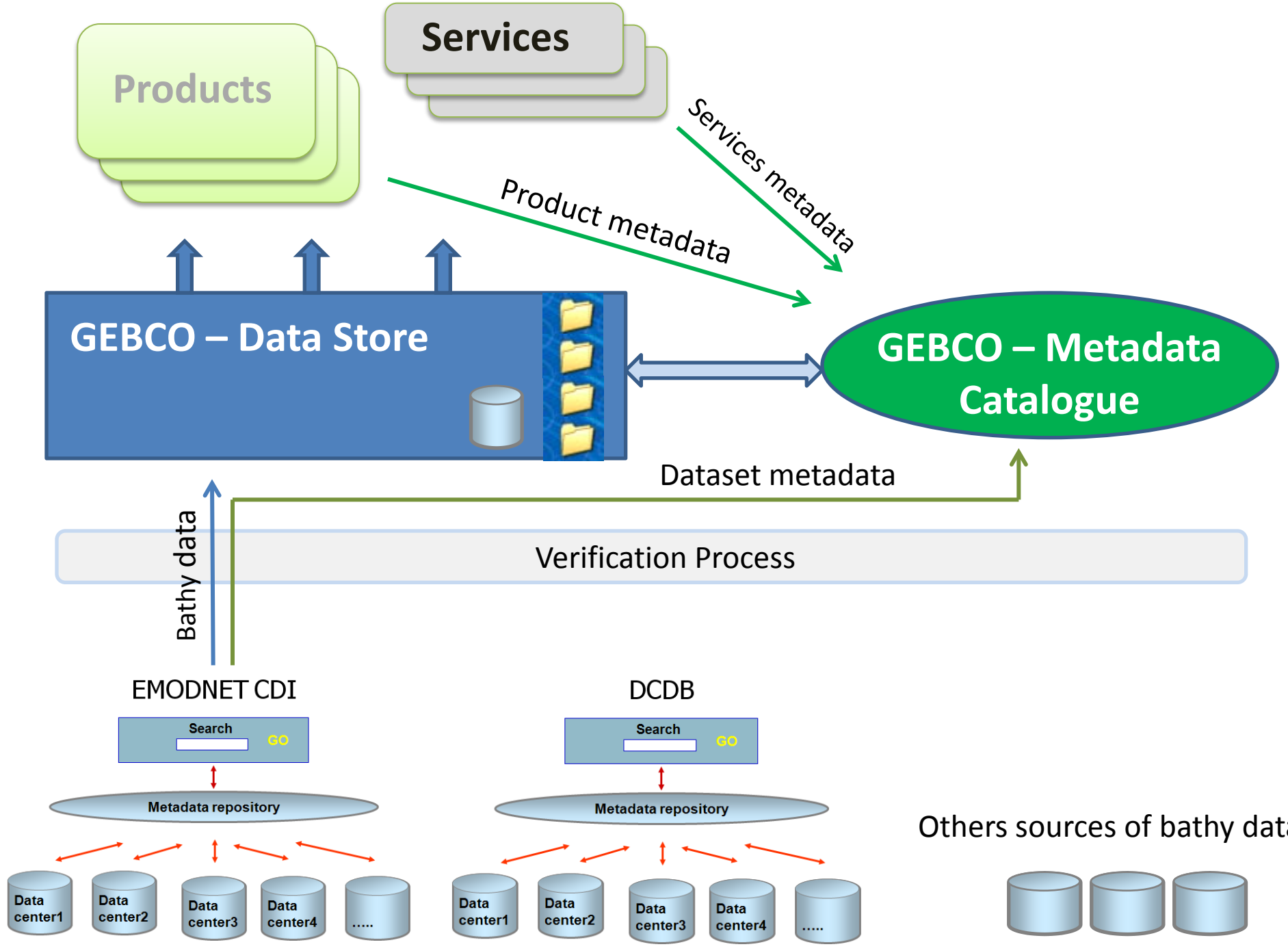
- bounding polygon
- bounding box

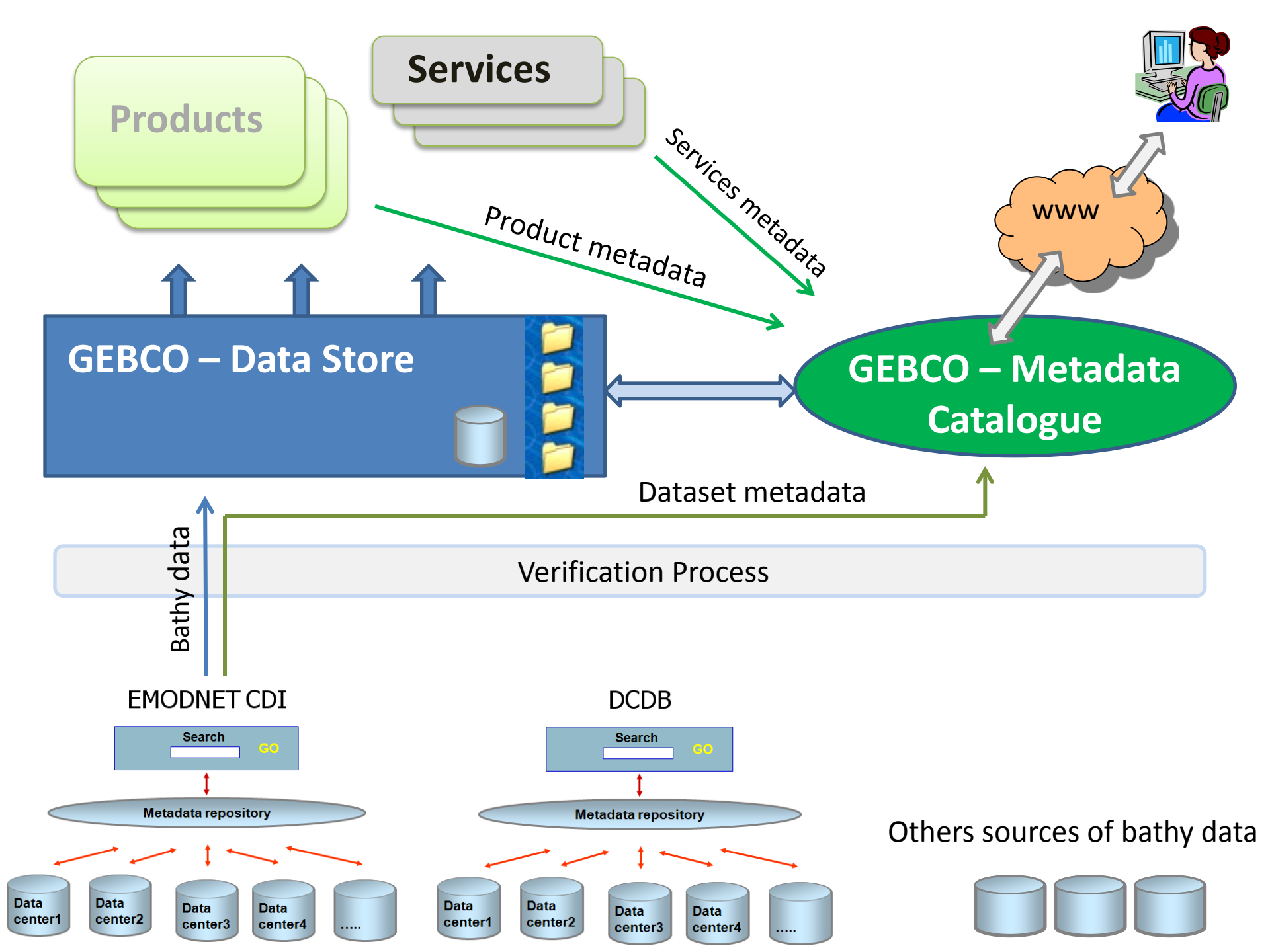
Key words (Controlled vocabularies)

Process metadata

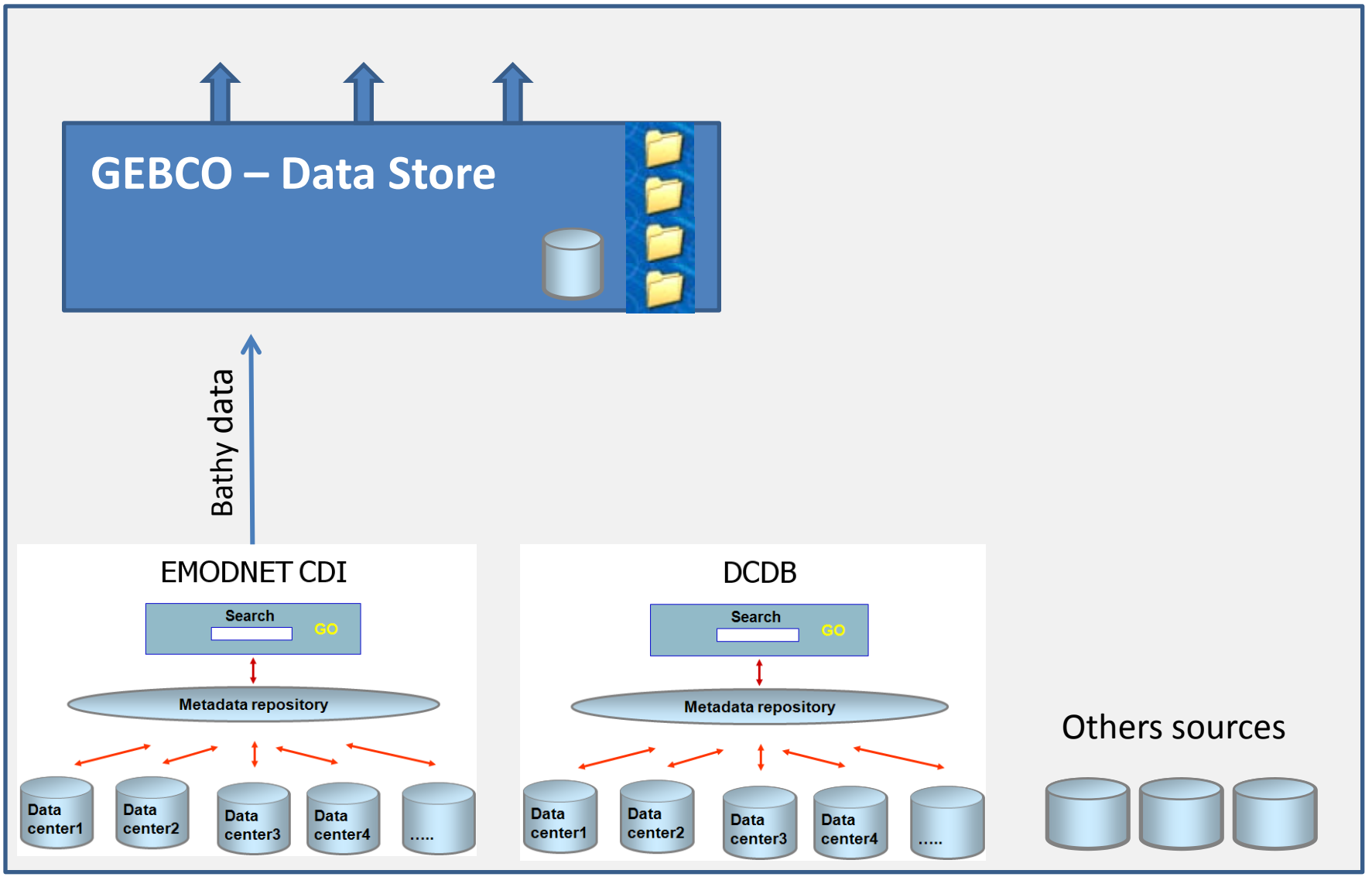
- processing steps




Products
Services
Services metadata
Product metadata
GEBCO – Data Store
GEBCO – Metadata Catalogue
Dataset metadata
Bathy data
Verification Process
EMODNET CDI
Search
GO
Metadata repository
Data center1
Data center2
Data center3
Data center4
.....
DCDB
Search
GO
Metadata repository
Data center1
Data center2
Data center3
Data center4
.....
Others sources of bathy data


Products
Services
Services metadata
Product metadata
www
GEBCO – Data Store
GEBCO – Metadata Catalogue
Dataset metadata
Bathy data
Verification Process
EMODNET CDI
Search
GO
Metadata repository
Data center1
Data center2
Data center3
Data center4
.....
DCDB
Search
GO
Metadata repository
Data center1
Data center2
Data center3
Data center4
.....
Others sources of bathy data

Governance Model ?



Next steps .....

Next Steps - investigate

What metadata catalogue applications are available?

What funds will be required for a metadata application ?

How do we get DCDB data and metadata into the GEBCO data store ?

How do we get EMODNET data and metadata into the GEBCO data store ?

Others … ?

CDI Schema was based upon the ISO 19115 DTD – moving to the ISO 19139 Schema
Common vocabularies in all metadatabases and data formats -> an important prerequisite for consistency and interoperability.
MIKADO - open source application for generating CDI metadata records.

Several test metadata sets