



**EMODnet**



European Marine  
Observation and  
Data Network

# CP Technology Update Metadata Requirements for Centralization

11<sup>th</sup> EMODnet Technical Working Group  
26-27 September 2022

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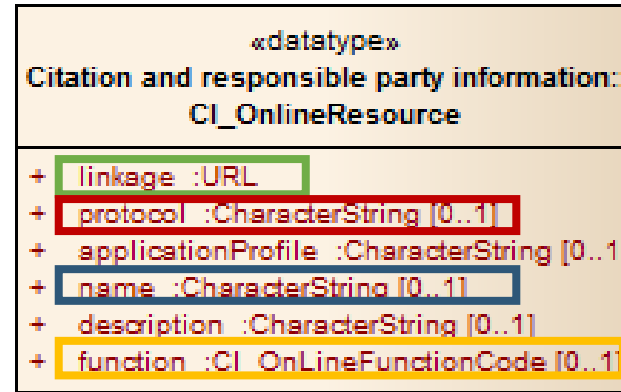
# Challenge: maintaining central portal viewer

- Central Portal viewer links together different services provided by thematic portals & central portal
  - For map visualization: WMS services (thematic portals)
  - For download functionality:
    - Raster downloads: ERDDAP (central portal)
    - Vector downloads: WFS service (thematic portals)
    - File downloads: http link (thematic portals, initially)
  - For metadata: CSW service (thematic portals) harvested in the central Portal GeoNetwork
- The configuration of the Central Portal Viewer needs to be updated in case of:
  - Changes to thematic portal OGC service endpoints
  - Changes to thematic portal WMS/WFS layer names of existing data products
  - Addition of products to the metadata catalogues of the thematic portals
- Manual updates to configuration across 7 thematic portals is not sustainable:
  - Thematic portals responsible for managing their product metadata & catalogue
  - Need for (semi-)automated synchronization of thematic catalogue's with Central Portal Viewer

# Proposed solution: consistently link services in the dataset metadata records

The metadata of products/datasets that need to be displayed in the Central Portal should include:

- The WMS service:
  - Service URL
  - Protocol: OGC:WMS
  - WMS layer name
- The WFS service (for vector data):
  - Services URL
  - Protocol: OGC:WFS
  - WFS featuretype name
- The CP ERDDAP link (for raster data)
  - Service URL
  - Protocol (ERDDAP:griddap / ERDDAP:tabledap ?)
  - Layer name
- (optional) File download link
  - File URL
  - Protocol (HTTP:DOWNLOAD)



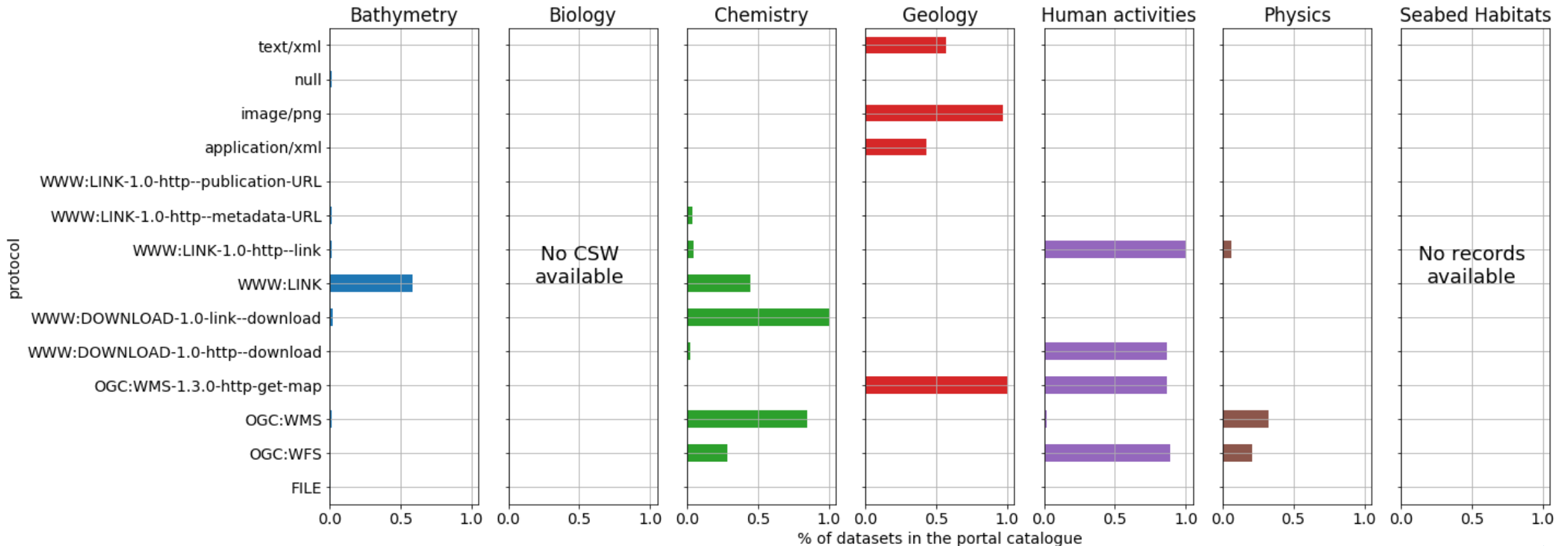
CI\_OnlineFunctionCode

Entry	Description	Source	Applies to
download	online instructions for transferring data from one storage device or system to another	19115	an FTP site or downloadable zip file
information	online information about the resource	19115	URLs with descriptive details about the resource
offlineAccess	online instructions for requesting the resource from the provider	19115	
order	online order process for obtaining the resource	19115	an interface for requesting the resource
search	online search interface for seeking out information about the resource	19115	map viewers, search interfaces
browseGraphic	browse graphic provided	19115-1	
browsing	online browsing provided	19115-1	
completeMetadata	complete metadata provided	19115-1	
emailService	online email service provided	19115-1	
fileAccess	online file access provided	19115-1	
upload	online resource upload capability provided	19115-1	

- This information should be formatted in a consistent way across thematic portals, following open standards
  - Allows for (semi)automated synchronization of portal catalogues in Central Portal
  - Improve interoperability with catalogues harvesting EMODnet metadata (Sextant, EUDAT, GEOS, DTO, EOSC, EU Digital Earth etc.)

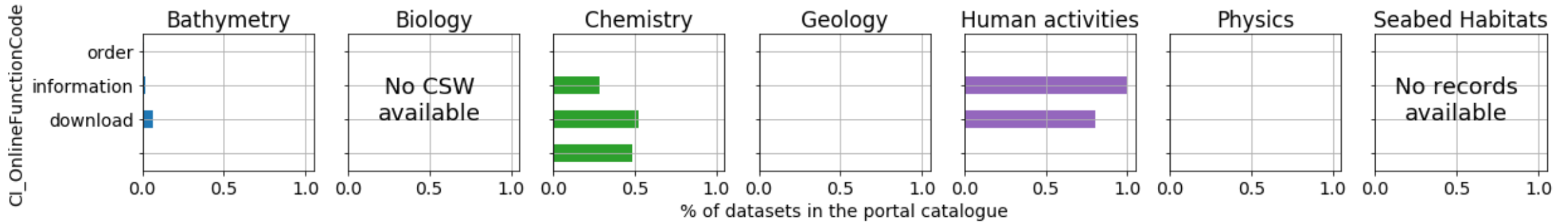
# Current Status

- information partly available but needs to be completed for all products in each thematic portal
- Information needs to be made consistent across thematic portals
  - decide on common way to display 'protocol' for WMS/WFS/ERDDAP/File download



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  - decide on common CI\_OnlineFunctionCode to use: “download” for web services or file download?



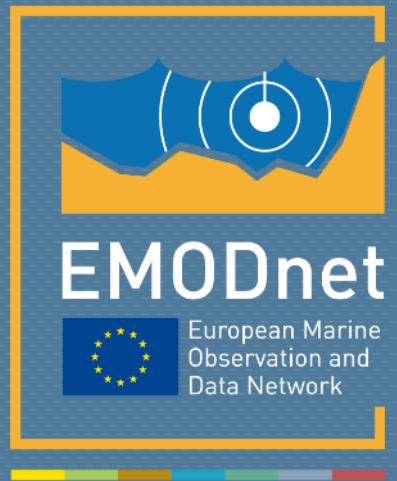
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# Proposed implementation and evaluation

- Thematic portals to update relevant metadata fields in own catalogue > Harvested by Central Portal GeoNetwork
- Evaluation of relevant metadata fields done by Secretariat on Quarterly Basis or ad hoc as requested by the thematic portal
- Communication through JIRA



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