

Registers & Registries

Prototyping of Registries in DE...

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▪ ***What is a Registry ?***

... something to manage, organise or govern resources.

... something to share resources.

... something to ensure consistency of resources.

... something to make resources reliable.

▪ ***What kind of resources ? (... not only for INSPIRE)***

- Service and Dataset – MD ? → NO, we have Discovery Services (!).
- INSPIRE-Monitoring values (Lists of datasets and services + Indicators)
- Coordinate Systems (all Parameters)
- Data models and FeatureTypes (XML-schemas, UML, documentation)
- Styles (SLD & SE)
- Licences (text- & icon-modules)
- Unique Object-IDs (Namespaces for ID-Prefixes)
- ...

DO we need a registry service-interface ? yes, but...

- very complex solutions are in discussion (e.g. ebRS & ebRIM, CSW & rbRIM).
- currently no mature interface-specification is available/operational.
- simple solution are sufficient at the moment :-)

Simple solution:

- manage the resources based on files (XML-Editor or special application/tools)
- export public resources on a file/webserver so that they are accessible to machines readable as XML and human readable as HTML (XSLT), both via HTTP/GET.
- use standards to encoding the resources and registry metadata: e.g. ...
 - GML3.2 for coordinate systems,
 - OGC-SLD & OGC-SE for styles
 - XML-Format according ISO19135 for the registry-, register-, and item-descriptors.
 - Atom feeds

Example #1 using Draft XML-Encoding of ISO 19135 (RegML)

ISO 19135: „Geographic information – Procedures for item registration“

http://productive.gdi-de.org/monitoring/Prototyp_Registry-GDI-DE/

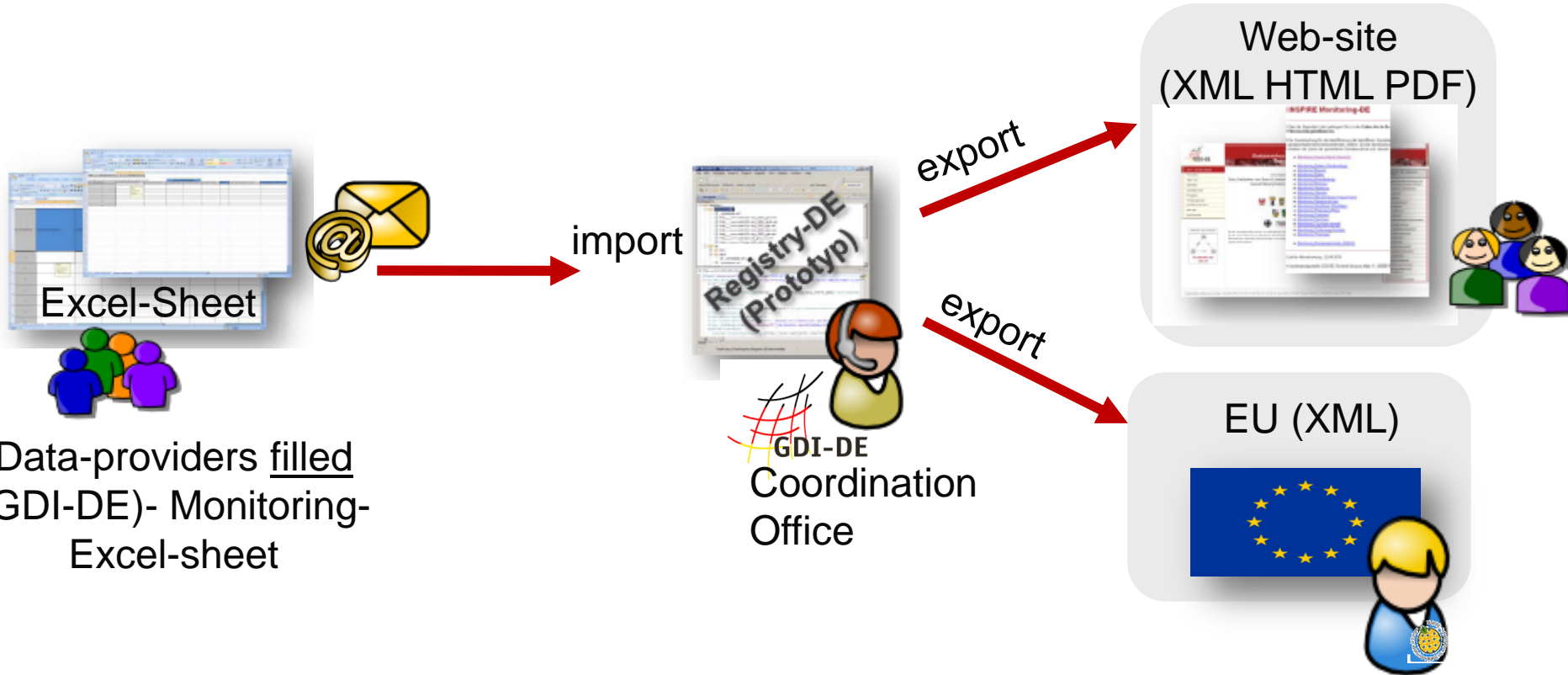
- Model:
 - registry/register/subregister (container) → Folder + _metadata.xml
 - item → *.xml
- XML-View / Browser-View

Example #2 using atom feeds

http://gdz.bkg.bund.de/web_registry_crs/BKG/index.xml

- Model:
 - index.xml | index.html ("application/atom+xml" | „text/html“)
 - resources → *.xml
- XML-View / Browser-View

DE: use case for monitoring year 2009 (done)





export /download

upload

update/import



export

export

Web-site
(XML HTML PDF)

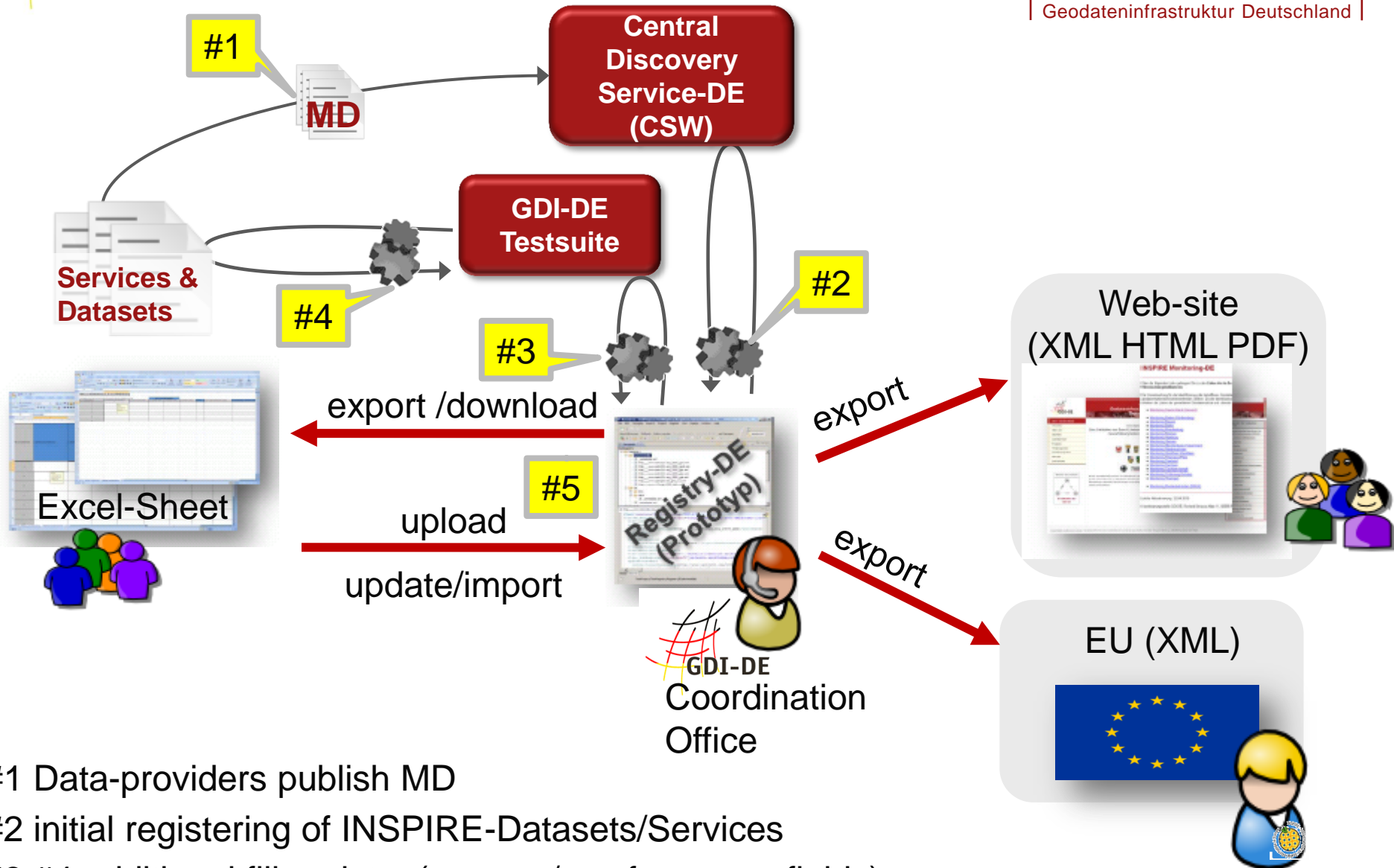


EU (XML)



Data-providers edit
(GDI-DE)- Monitoring-
Excel-sheet

GDI-DE
Coordination
Office



#1 Data-providers publish MD

#2 initial registering of INSPIRE-Datasets/Services

#3,#4 additional fill registry (access / conformance fields)

#5 fill up of missing Information e.g. number of requests