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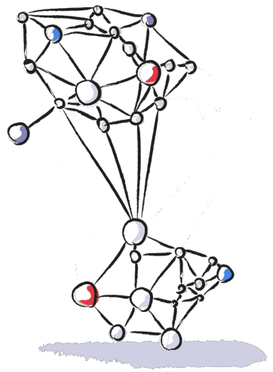
OpenAIRE Graph as an aggregator of CRIS systems

DARIAH Bibliographical Data WG

Databases and information systems for research output: digital humanities outlook

online Sep. 30th 2022

Interoperability Guidelines



OpenAIRE NEXUS

Grant agreement no. 101017452

@openaire_eu

Outline

- OpenAIRE Research Graph
- Common European Research Information - Model
- Aggregation, handling and propagation
- Conclude

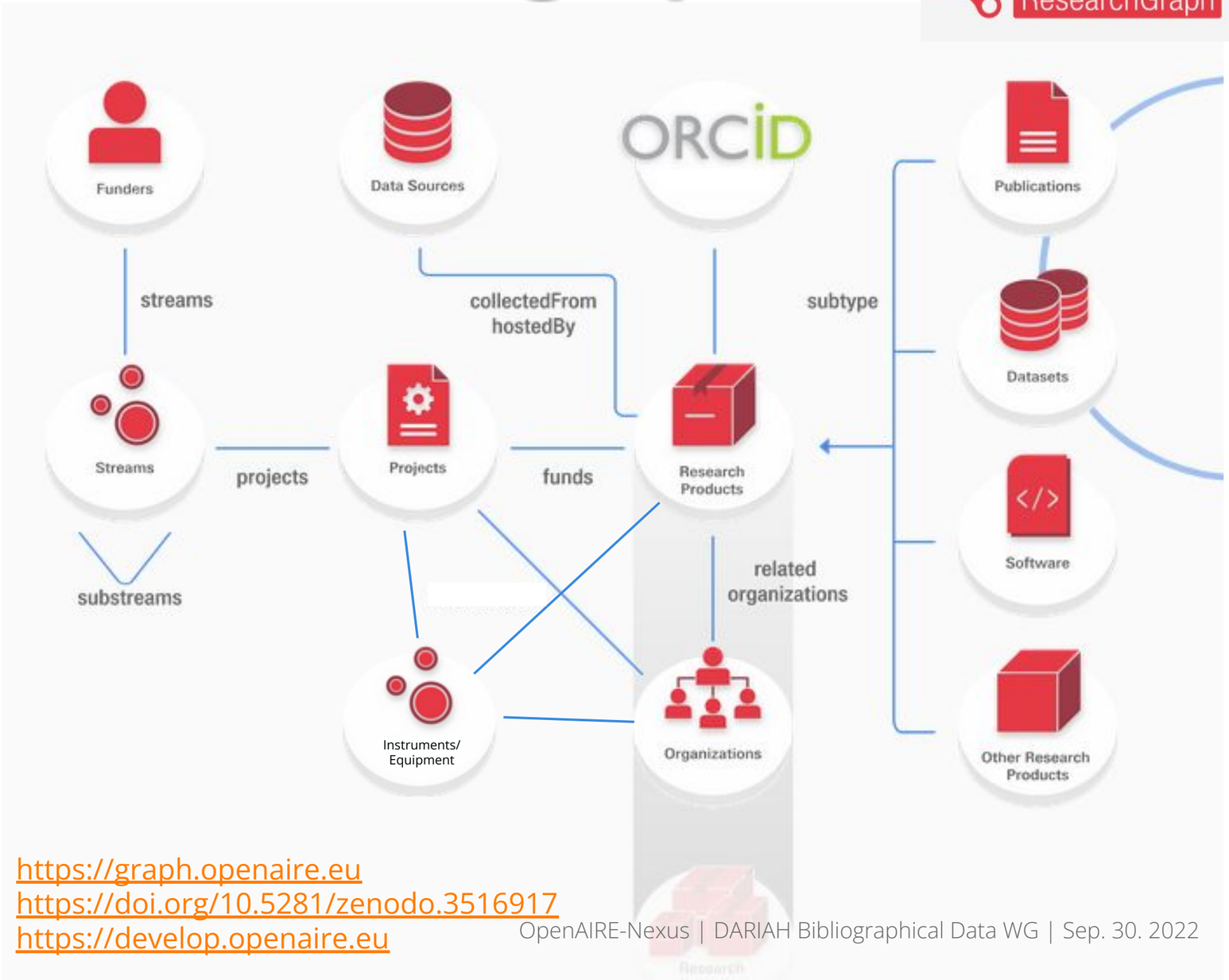
OpenAIRE Research Graph

OpenAIRE research graph

An open metadata research graph of interlinked scientific products, with access rights information, linked to funding information and research communities

>450Mi harvested records
>500Mi bi-lateral links
>13Mi full-texts

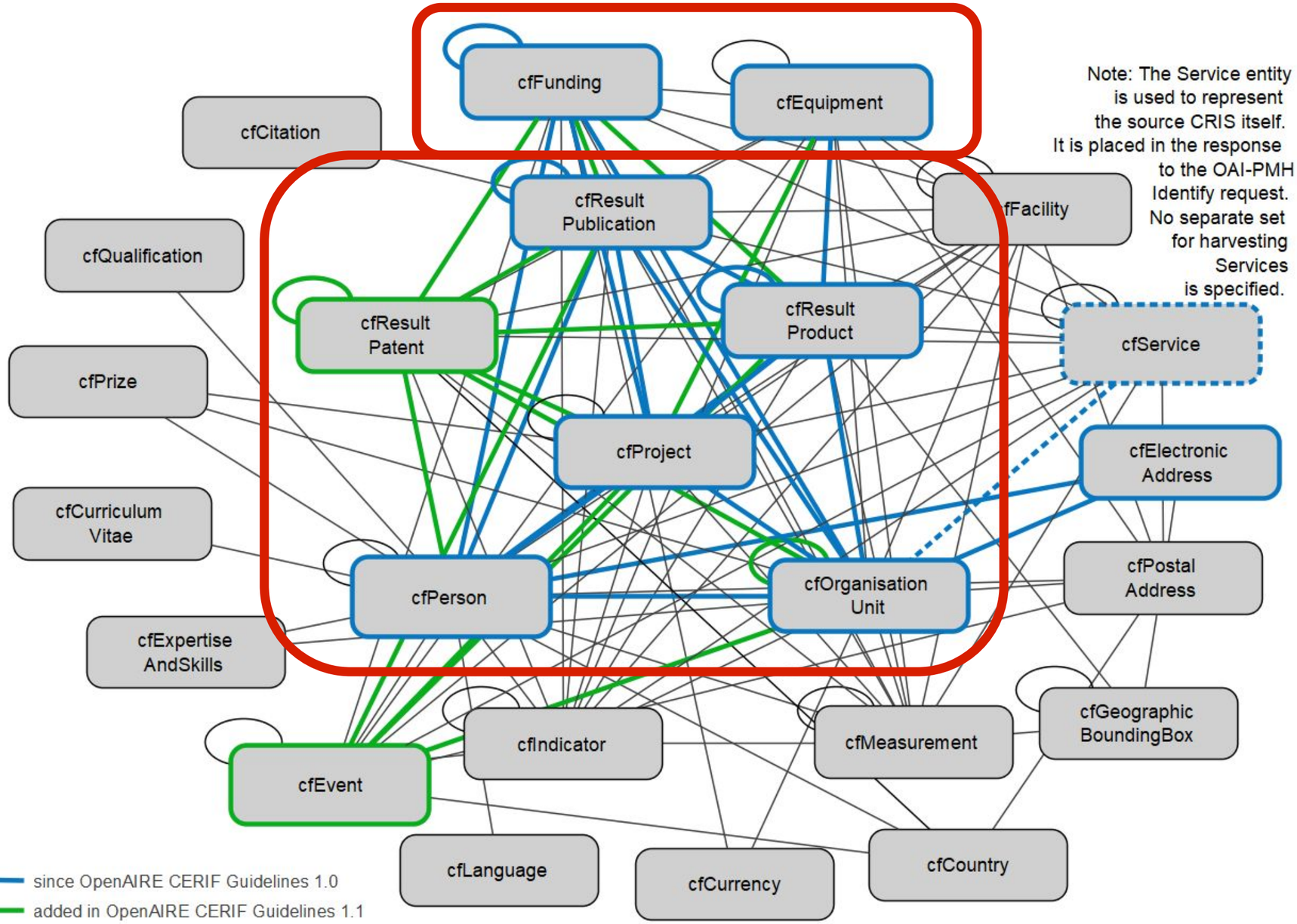
>160Mi dedupl. Research Products



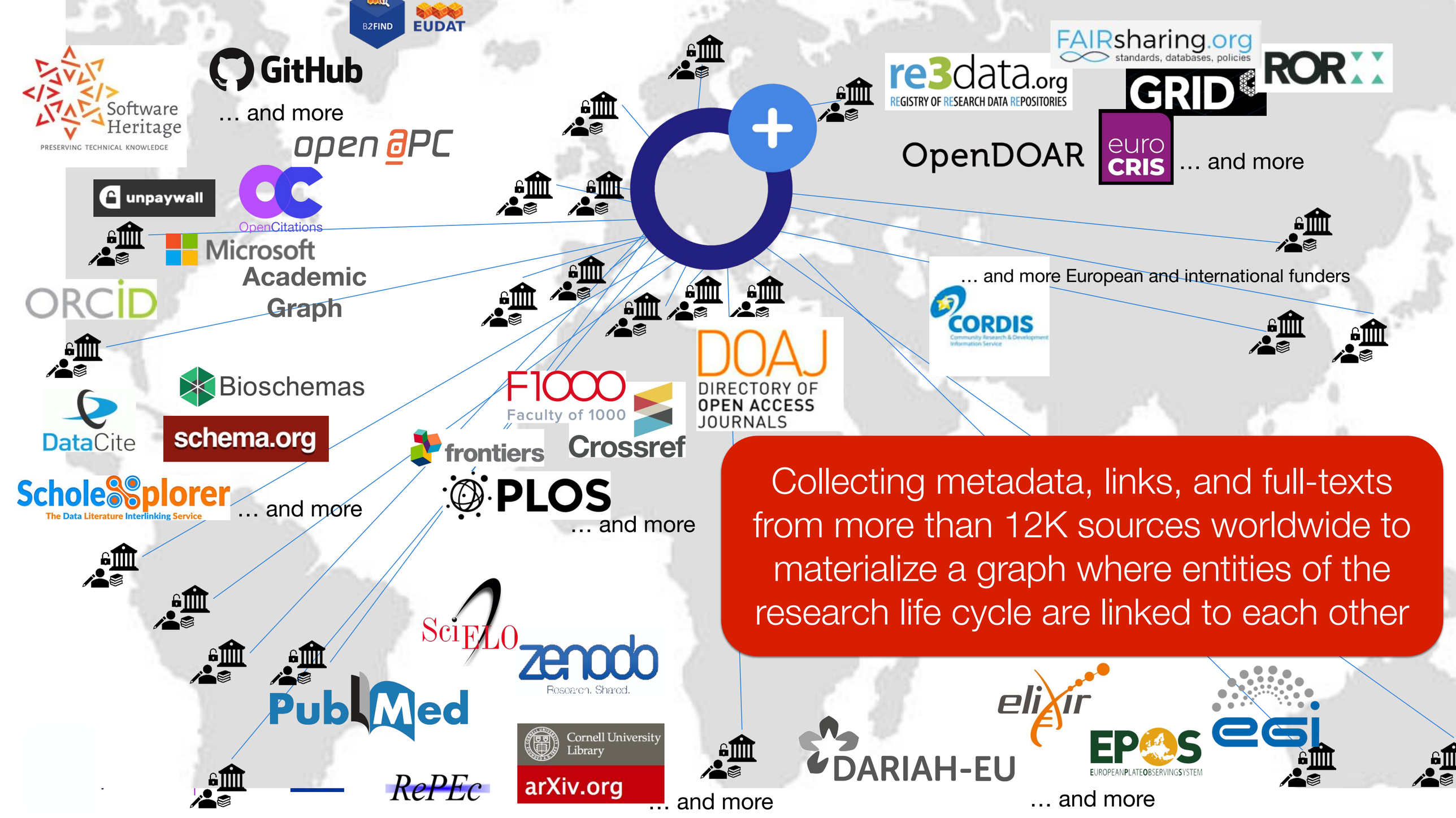
https://graph.openaire.eu
https://doi.org/10.5281/zenodo.3516917
https://develop.openaire.eu

Common European Research Information - Model

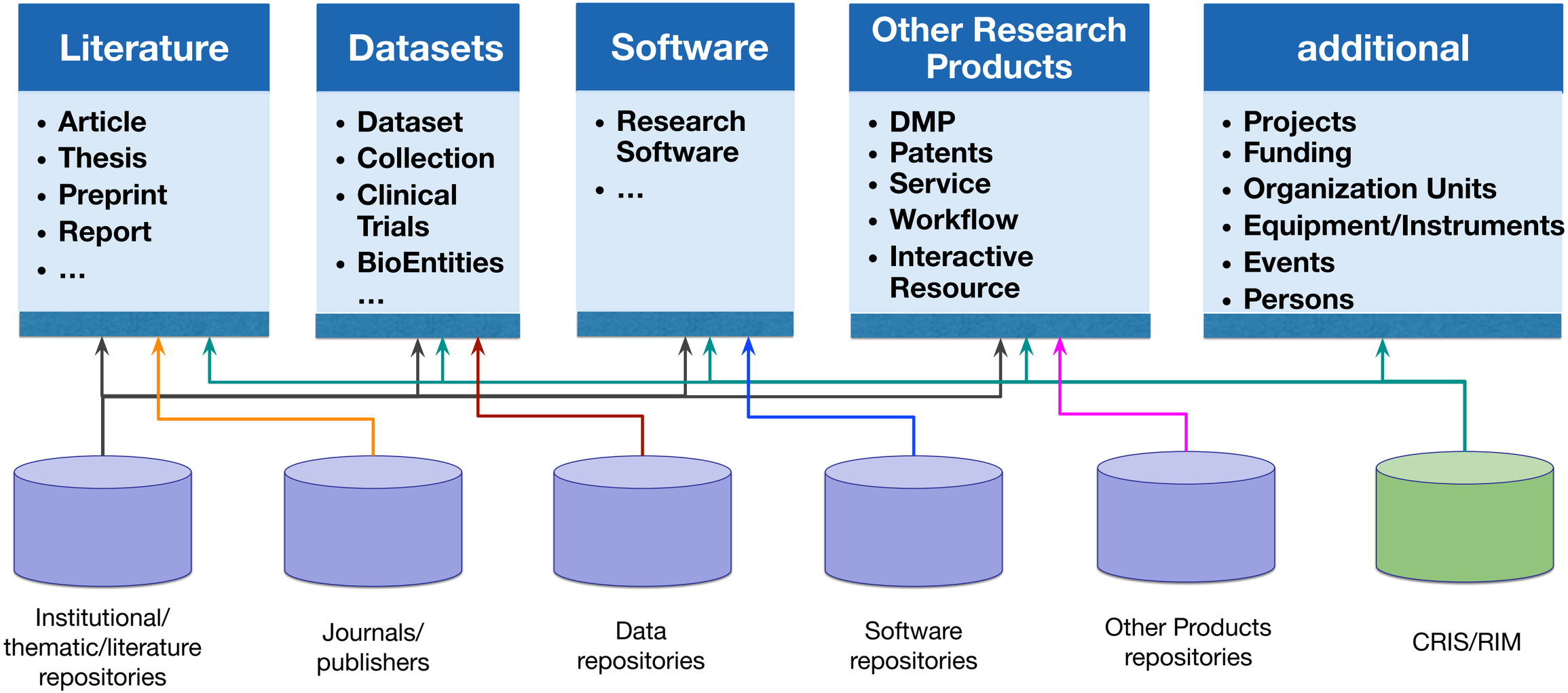
Common European Research Information System - Model



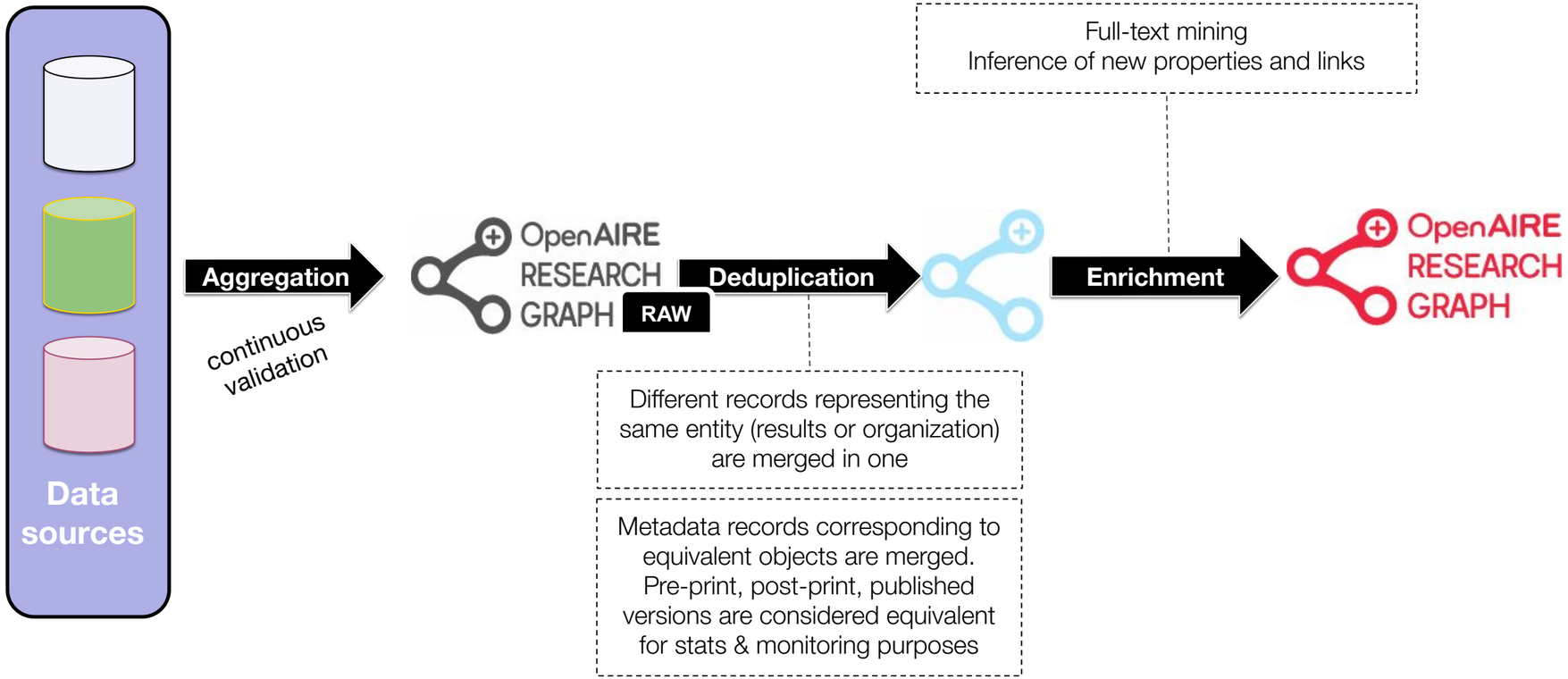
Aggregation, handling and propagation


B2FIND
EUDAT
GitHub
… and more
Software Heritage
PRESERVING TECHNICAL KNOWLEDGE
open APC
unpaywall
OpenCitations
Microsoft Academic Graph
ORCID
Bioschemas
schema.org
DataCite
ScholeXplorer
The Data Literature Interlinking Service
… and more
F1000
Faculty of 1000
frontiers
Crossref
PLOS
… and more
DOAJ
DIRECTORY OF OPEN ACCESS JOURNALS
FAIRsharing.org
standards, databases, policies
re3data.org
REGISTRY OF RESEARCH DATA REPOSITORIES
GRID
ROR
OpenDOAR
euroCRIS
… and more
… and more European and international funders
CORDIS
Community Research & Development Information Service
Collecting metadata, links, and full-texts from more than 12K sources worldwide to materialize a graph where entities of the research life cycle are linked to each other
SciELO
zenodo
Research. Shared.
PubMed
Cornell University Library
arXiv.org
RePEc
… and more
DARIAH-EU
elixir
EPOS
EUROPEANPLATEOBSERVINGSYSTEM
egi
… and more

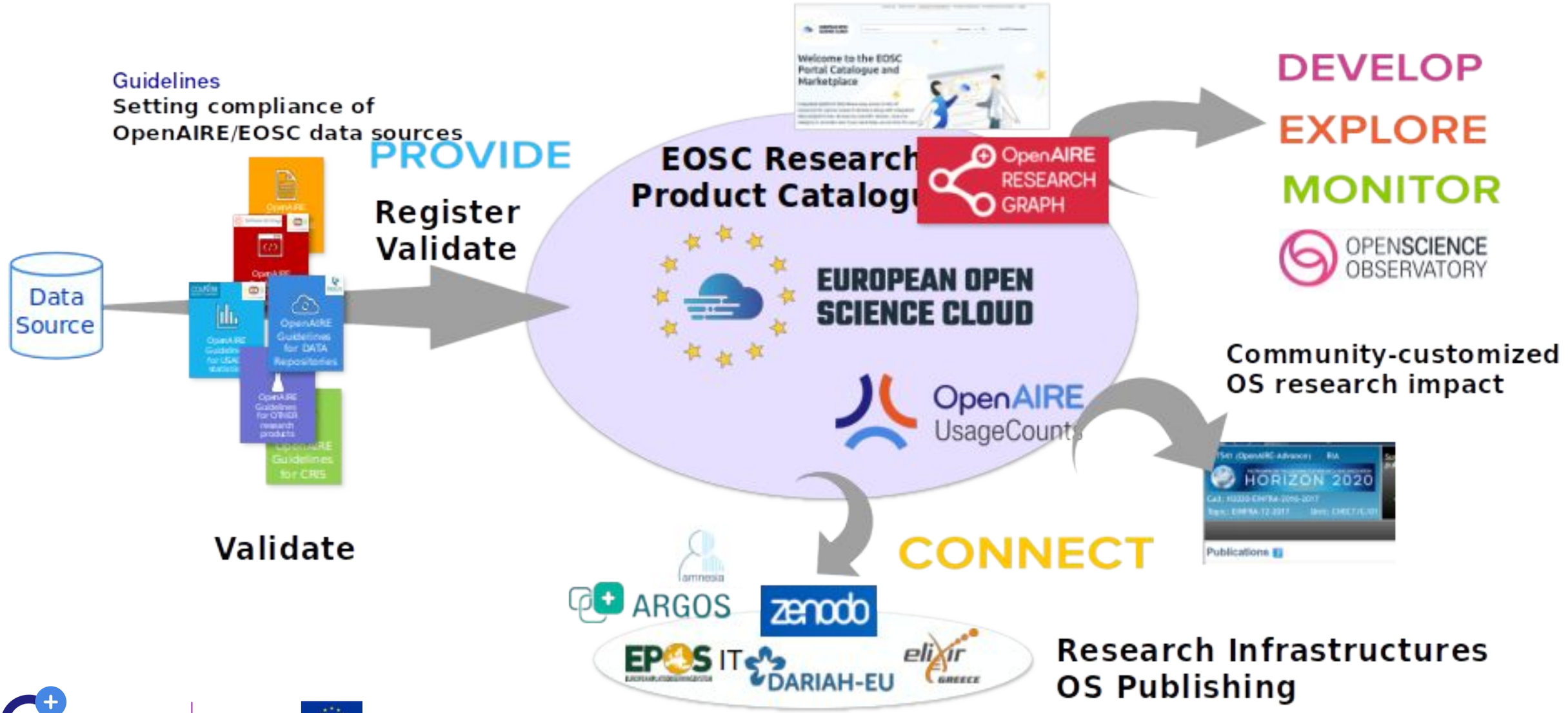
Repository types and research output



OpenAIRE Research Graph - the supply chain



OpenAIRE and the EOSC Core



Conclude

Conclude

- **additional CRIS elements are very valuable for the visibility of research**
- **CRIS Guidelines are open and community driven approach (https://github.com/openaire/guidelines-cris-managers#contributing)**
- **OpenAIRE Research Graph**
  - open API (https://develop.openaire.eu)
  - Research Graph Dump at ZENODO (https://doi.org/10.5281/zenodo.3516917)
- **Use of Persistence Identifiers (PIDs) and vocabularies, e.g. COAR**
- **Metadata quality is an important aspect on institutional, regional, national, and international**
- **Sharing novelties during webinars and monthly Community Calls , next call Oct.5th to “Welcome CRIS community to OpenAIRE” https://www.openaire.eu/provide-community-calls**

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#OpenAIRE-Nexus

Questions ?

THANK YOU

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https://doi.org/10.5281/zenodo.7118288

OpenAIRE