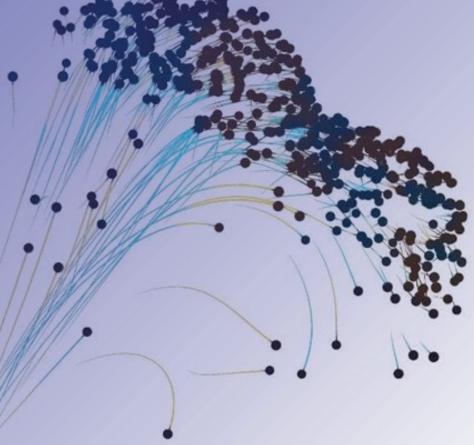
OpenAIRE Research Graph & the broker service

Claudio Atzori (CNR-ISTI) OpenAIRE week 2020

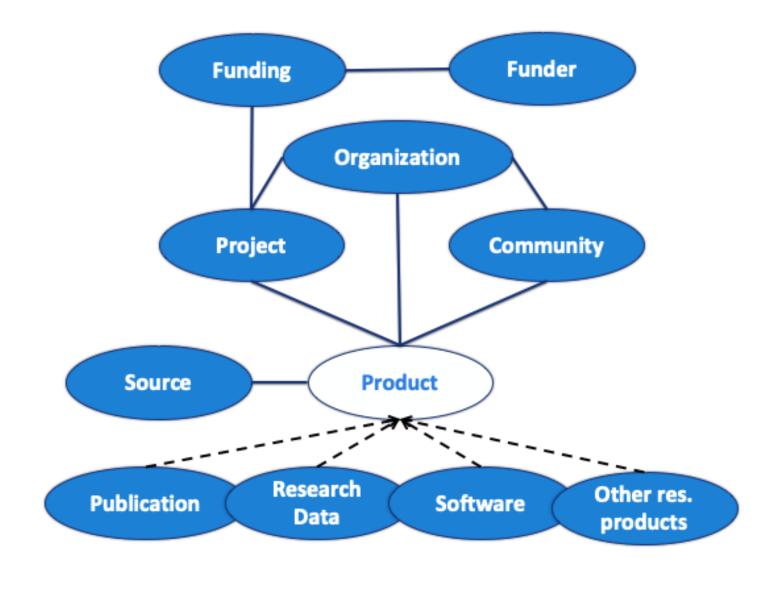








An open metadata research graph of interlinked scientific products, with access rights information, linked to funding information and research communities

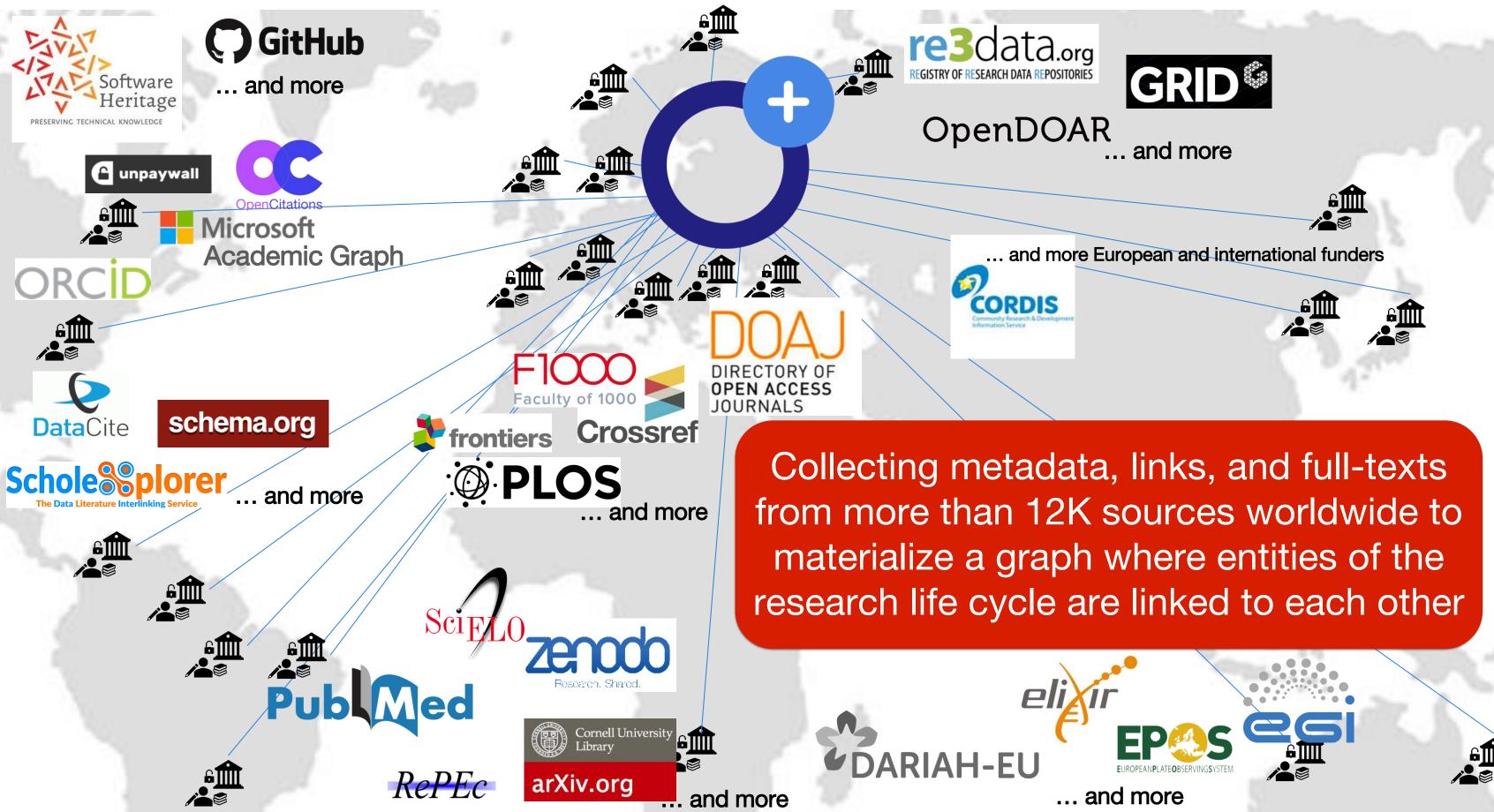


Graph: model for the representation of information

OpenAIRE uses it to represent objects in the scholarly communication domain and the relationships that exist among them.

Edges of the graph are annotated with a label that specifies the semantics of the relationships between two objects, each represented as a node in the graph.

Discover more at graph.openaire.eu



Registries: data sources offering authoritative lists of entities

Registries of researchers



Registries of organizations





and other funders

Registries of projects



penAIRE

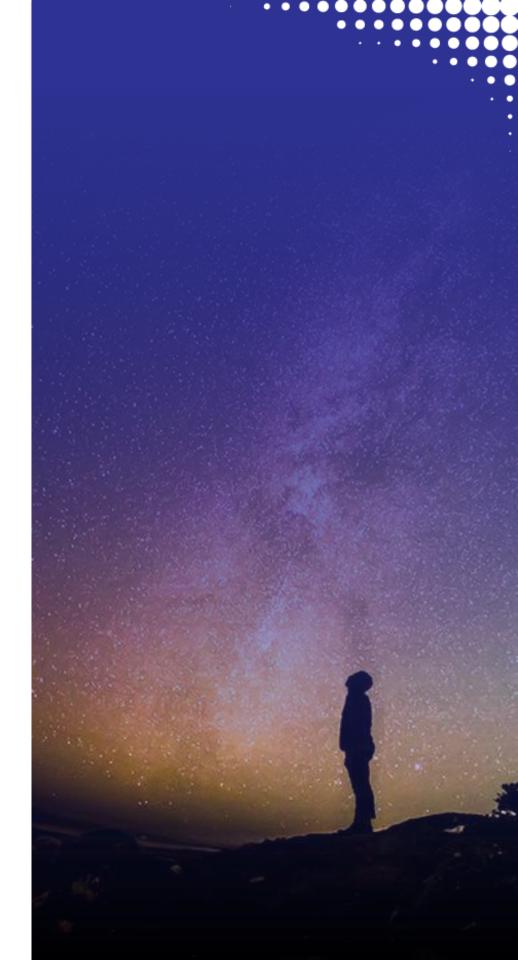
Registries of data sources



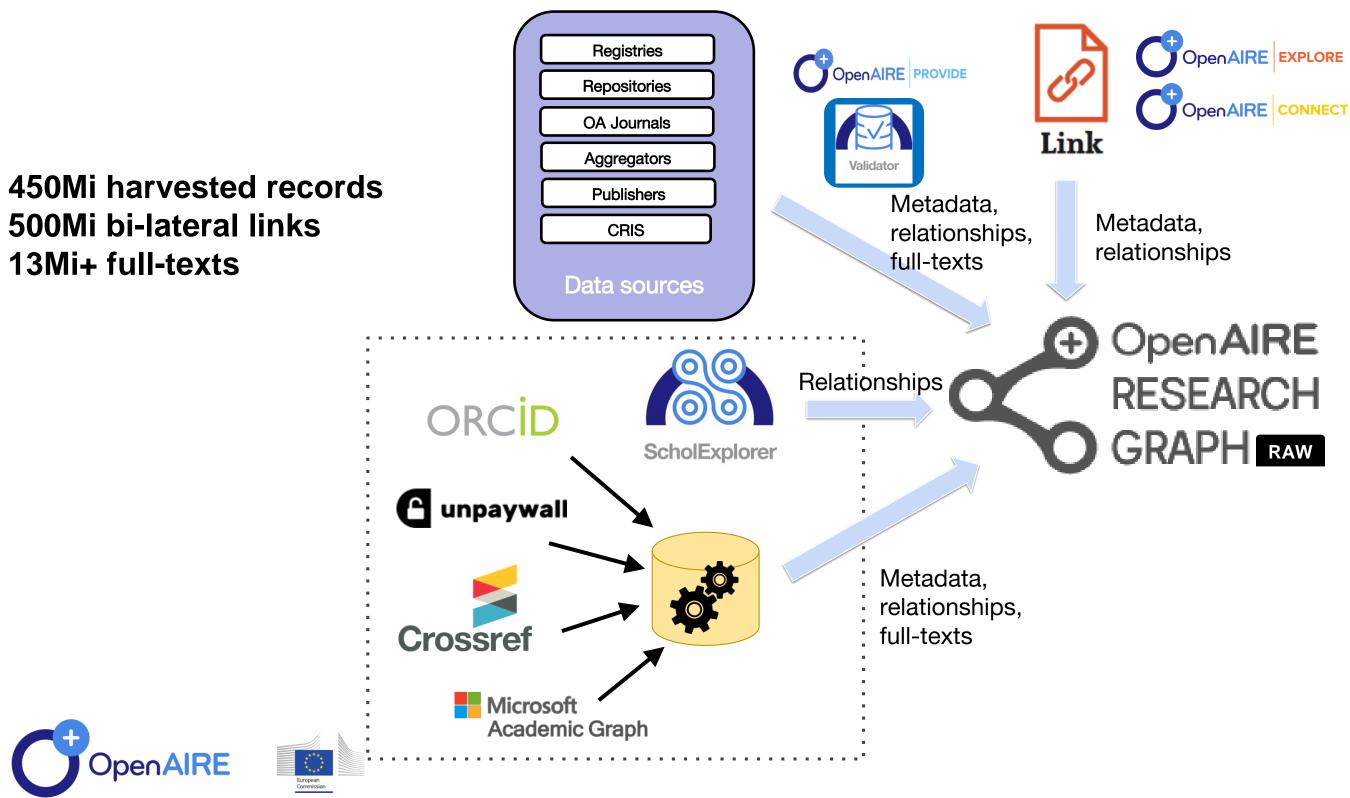


OPEN ACCESS JOURNALS

journal lists from +publishers

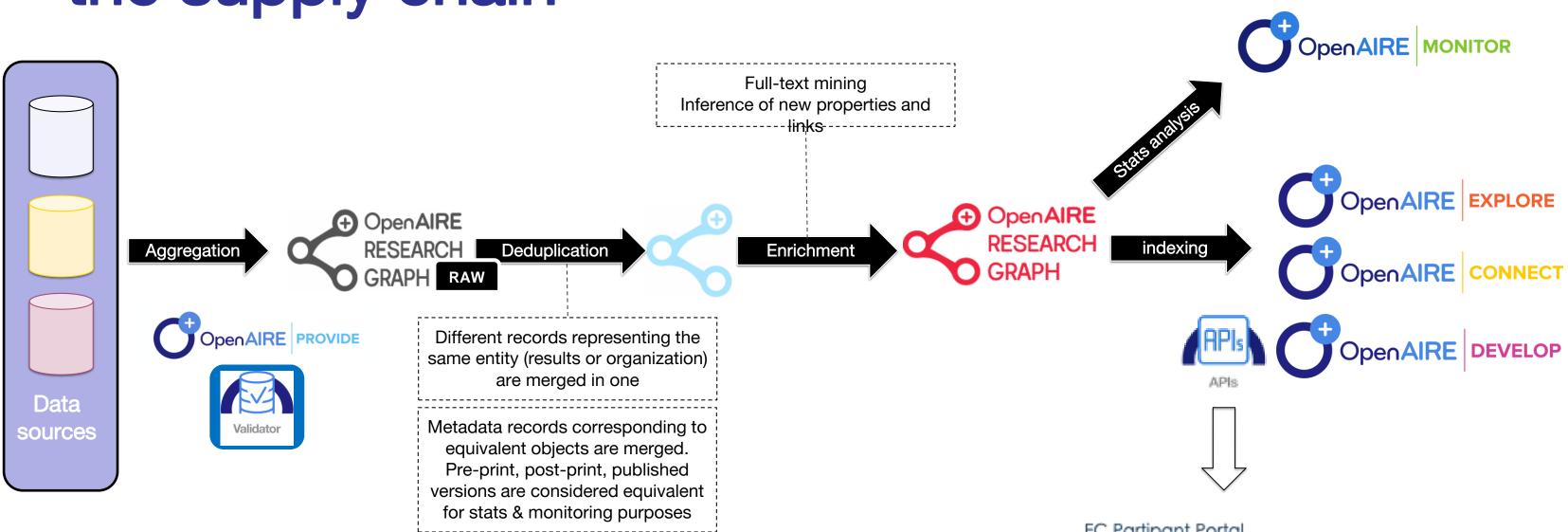


Aggregated data sources





OpenAIRE Research Graph the supply chain

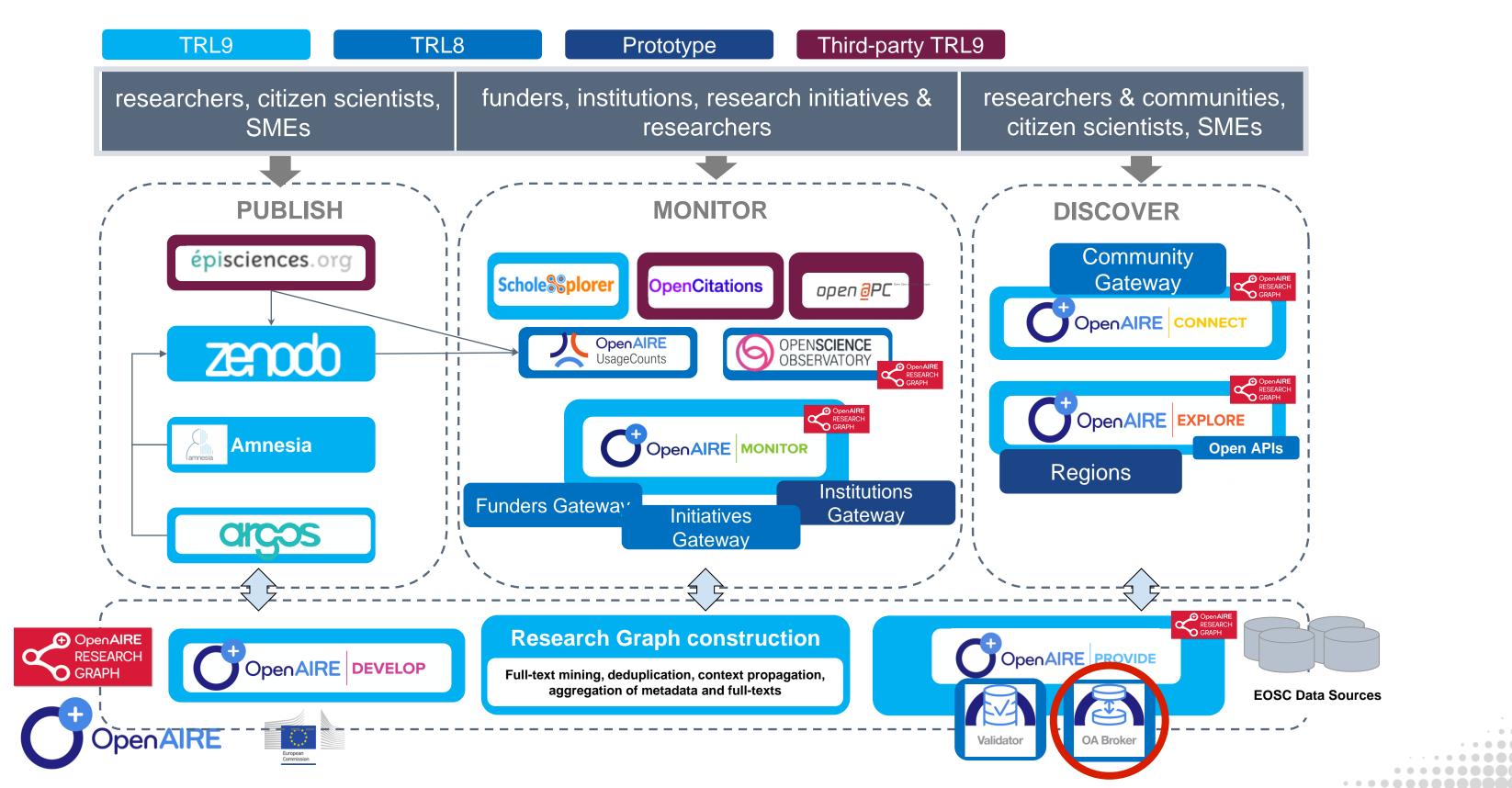




EC Partipant Portal

	· · · · ·	
na anna anna anna anna anna anna anna		
The second range of the land on the off second distribution for the second second second distribution for the second second second distribution of the second second second distribution of the second second second second second distribution of the second second second second	Anne (control former fo	

OpenAIRE Services



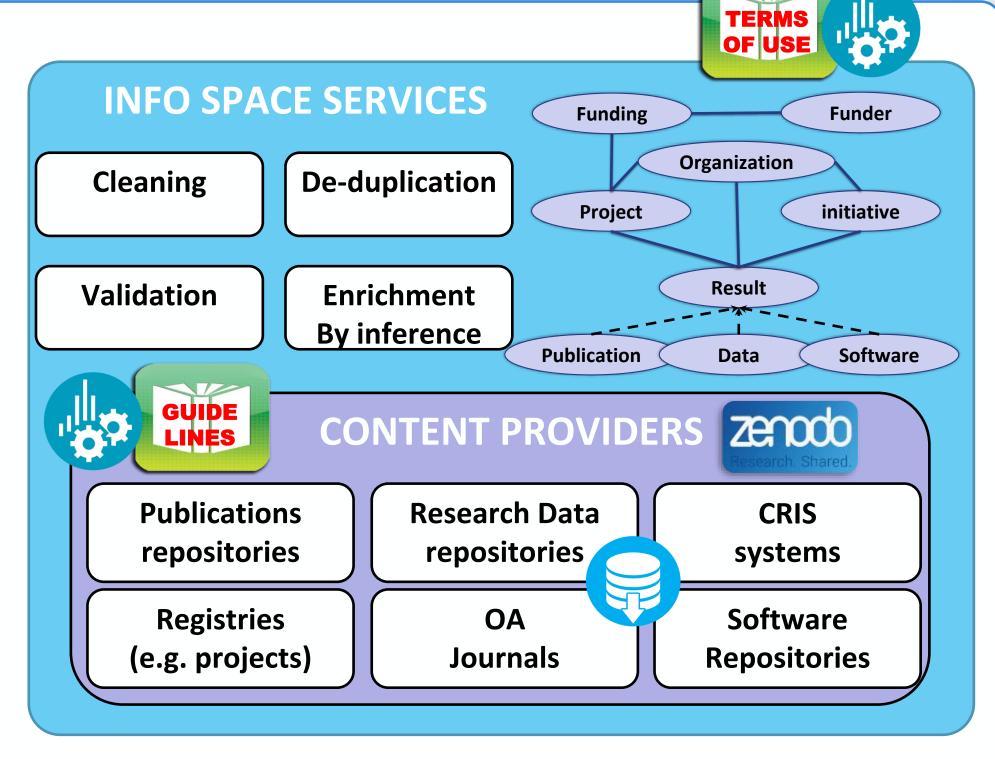
OpenAIRE Broker Service - Concept

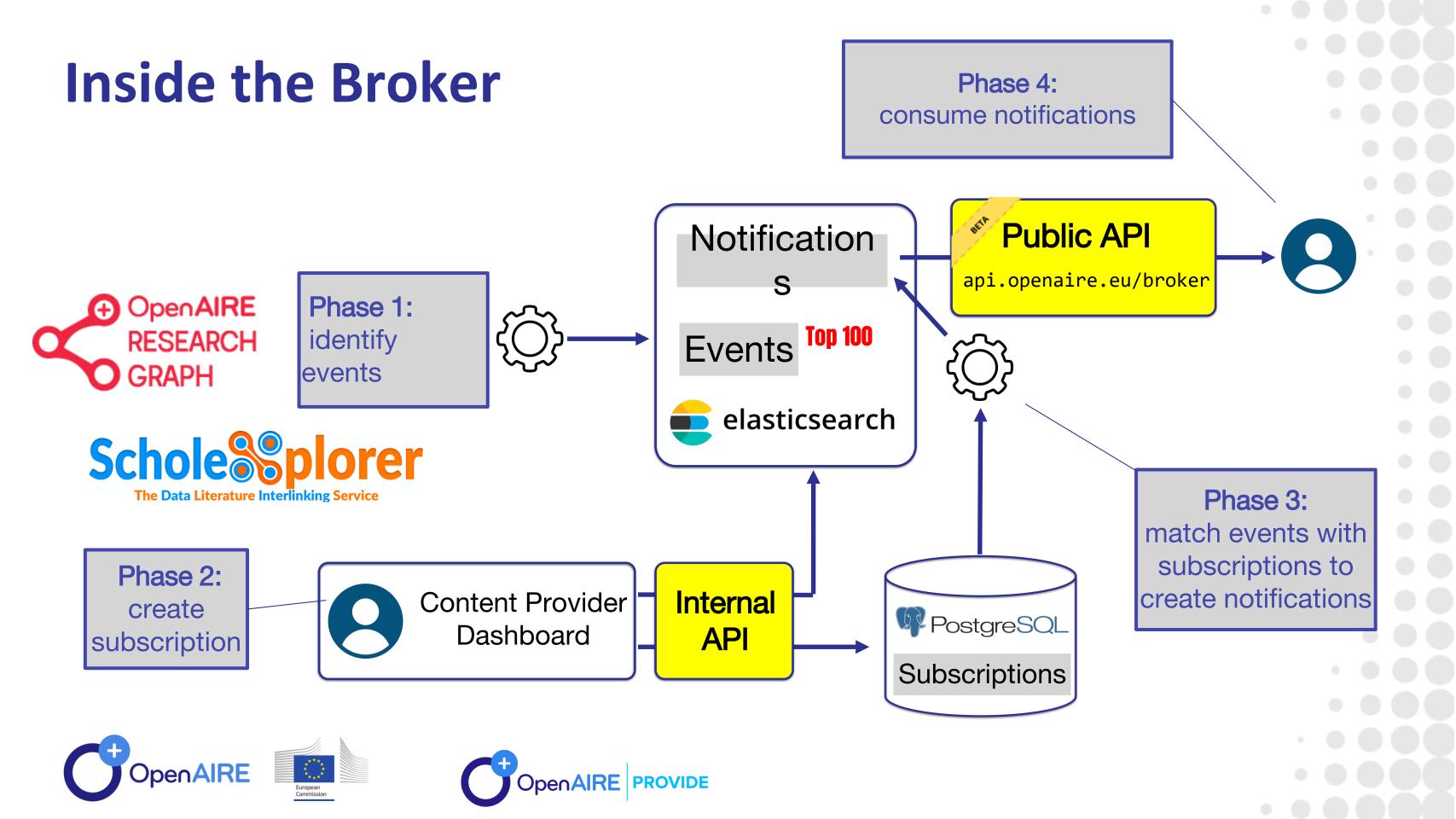
Repositories in OpenAIRE may be

interested to acquire metadata information about **publications** that are

"potentially of interest to them"

- *i.e. be part of their collection:*
- enrich the records with extra metadata information



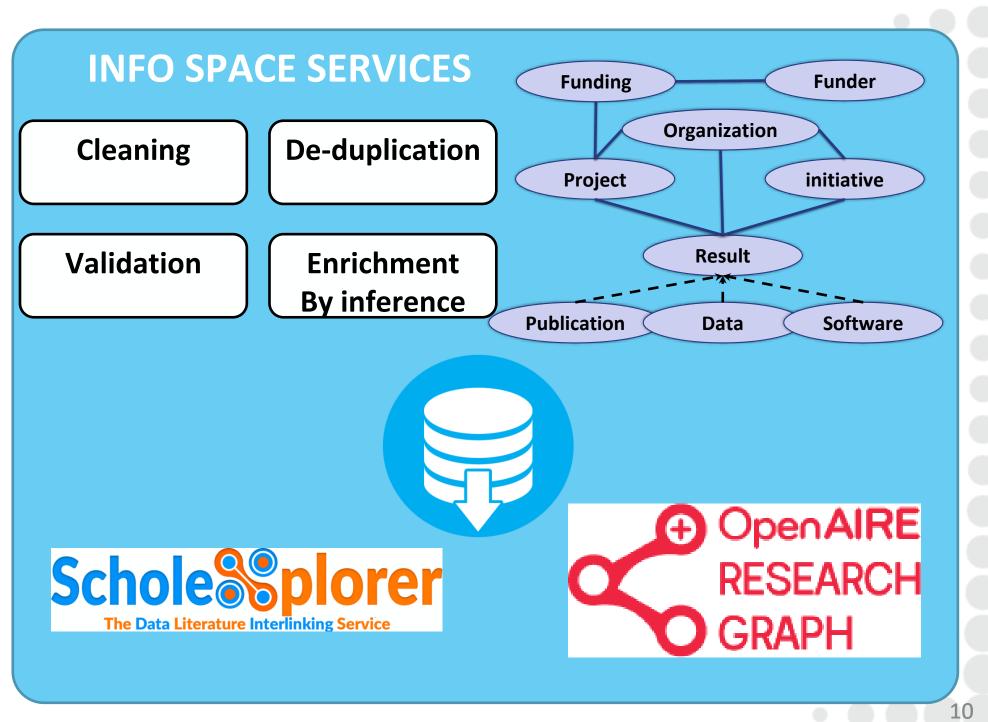


Calculation of Broker events

Analysis of the groups of duplicated records



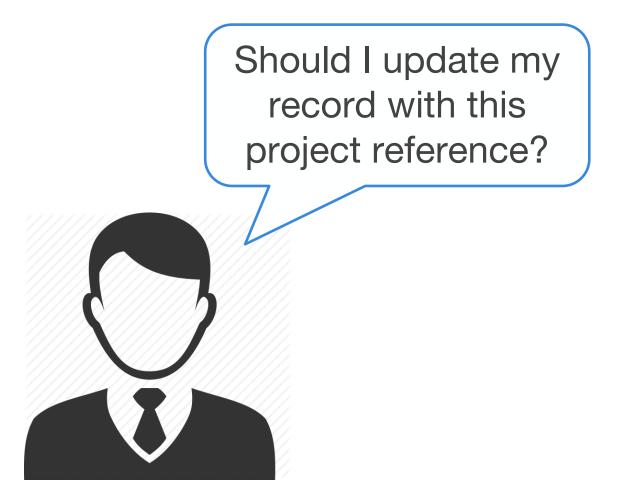




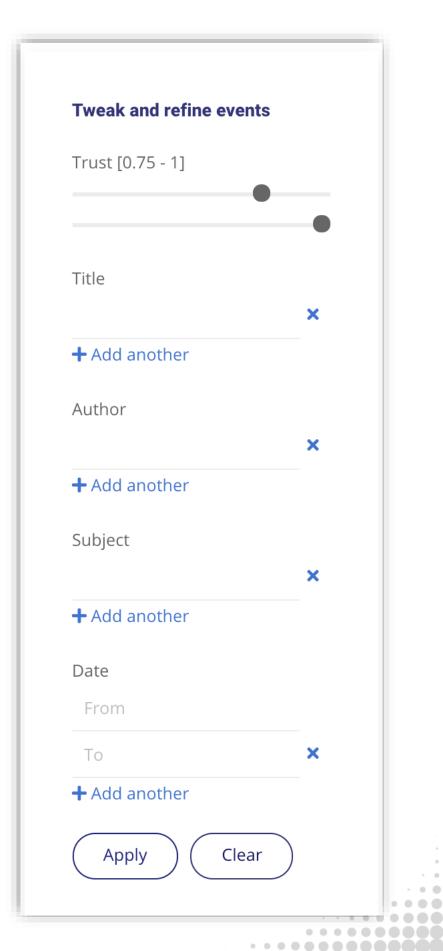
Event trust

Events are produced by *algorithms* that takes decisions using *non-authoritative information;*

Trust as a manner to expose uncertainty







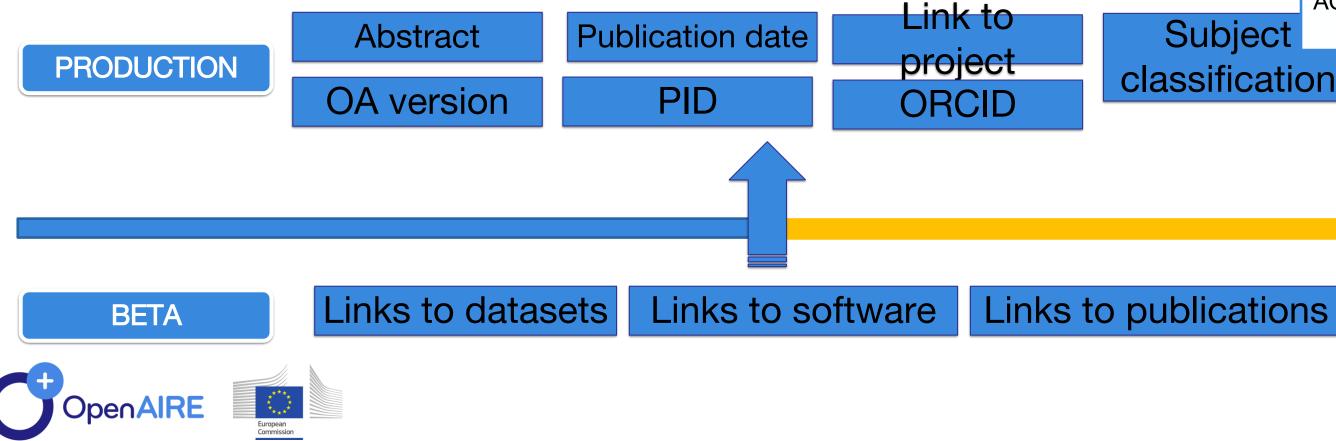
Broker Enrichment Events

ENRICH / MORE

ENRICH / MISSING

Macro-category that groups events about field values that differ from those available in the repository.

Macro-category that groups events about field values that are **not present** in the metadata of the repository.



ACM, ARXIV, JEL, DDC, MESH

Торіс	#Events
ENRICH/MORE/OPENACCESS_VERSION	17054736
ENRICH/MORE/PID	4167583
ENRICH/MORE/SUBJECT/MESHEUROPEPMC	1429089
ENRICH/MISSING/PID	1292499
ENRICH/MISSING/PROJECT	857956
ENRICH/MORE/SUBJECT/ARXIV	1025148
ENRICH/MISSING/ABSTRACT	806453
ENRICH/MORE/SUBJECT/JEL	648996
ENRICH/MORE/SUBJECT/DCC	320023
ENRICH/MORE/SUBJECT/ACM	608756
ENRICH/MISSING/OPENACCESS_VERSION	245912
ENRICH/MISSING/SUBJECT/ARXIV	165230
ENRICH/MISSING/SUBJECT/MESHEUROPEPMC	122031
ENRICH/MISSING/SUBJECT/JEL	84043
ENRICH/MISSING/SUBJECT/DDC	70748
ENRICH/MISSING/PUBLICATION_DATE	37931
ENRICH/MISSING/SUBJECT/ACM	61210
ENRICH/MISSING/AUTHOR/ORCID	69120

Topic ENRICH/MISSING/DATASET/IS_ ENRICH/MISSING/DATASET/I ENRICH/MISSING/DATASET/IS_S ENRICH/MISSING/DATASET/IS_ ENRICH/MISSING/DATASET ENRICH/MISSING/PUBLICATION/IS ENRICH/MISSING/PUBLICATION ENRICH/MISSING/PUBLICATION/IS_ ENRICH/MISSING/PUBLICATION/IS ENRICH/MISSING/PUBLICATIC **ENRICH/MISSING/SOI**

Produced by OpenAIRE (for ~700 repositories) in production

Produced by ScholeXplorer (for ~60 data repositories) in beta

Events produced

	#Events
_REFERENCED_BY	4542704
S_RELATED_TO	52870
SUPPLEMENTED_BY	152
_SUPPLEMENT_TO	325
/REFERENCES	24672
S_REFERENCED_BY	31026
N/IS_RELATED_TO	288375
_SUPPLEMENTED_BY	3653
S_SUPPLEMENT_TO	55921
DN/REFERENCES	164084
FTWARE	17380

.

Thank you!

Claudio Atzori (CNR-ISTI)

claudio.atzori@isti.cnr.it



