

The complexity of metadata completeness and why it is essential to sound reuse of data

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2.2 OAIS ENVIRONMENT

The simple model shown in figure 2-1 depicts the environment surrounding an OAIS.

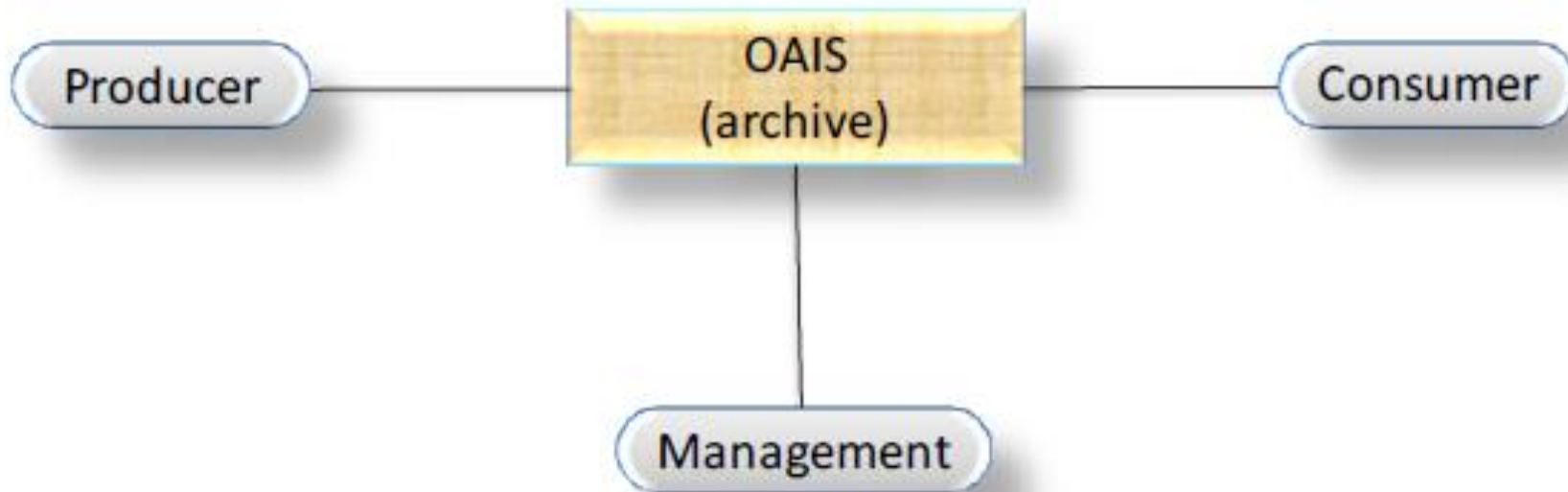


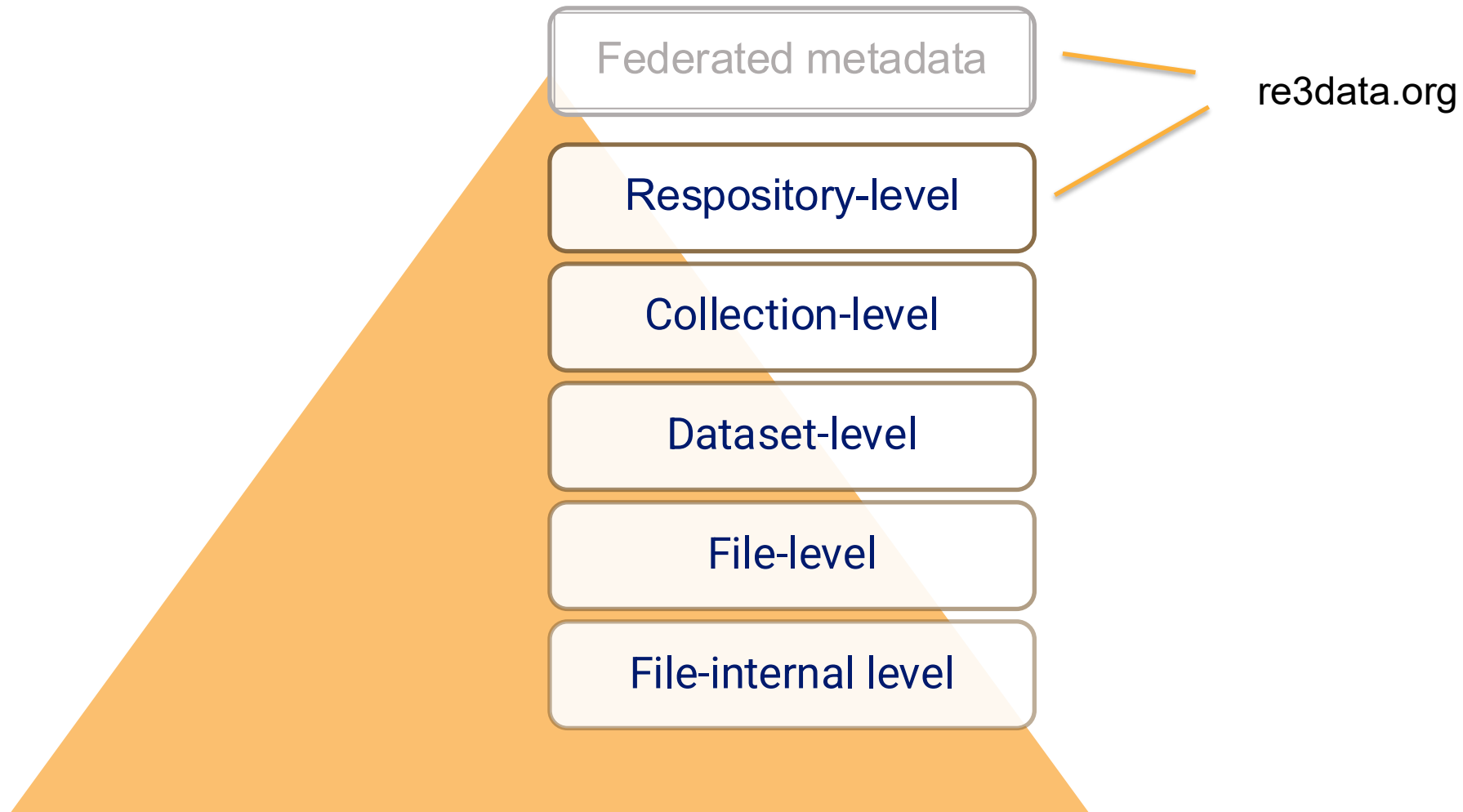
Figure 2-1: Environment Model of an OAIS

Metadata enables reuse - keywords

Searching	Filtering	Trusting	(Re-)synthesising
Finding	Accessing	(Inter-)Operable	(Re-)processing
Comparing	Evaluating	(Re-)analysing	(Re-)using

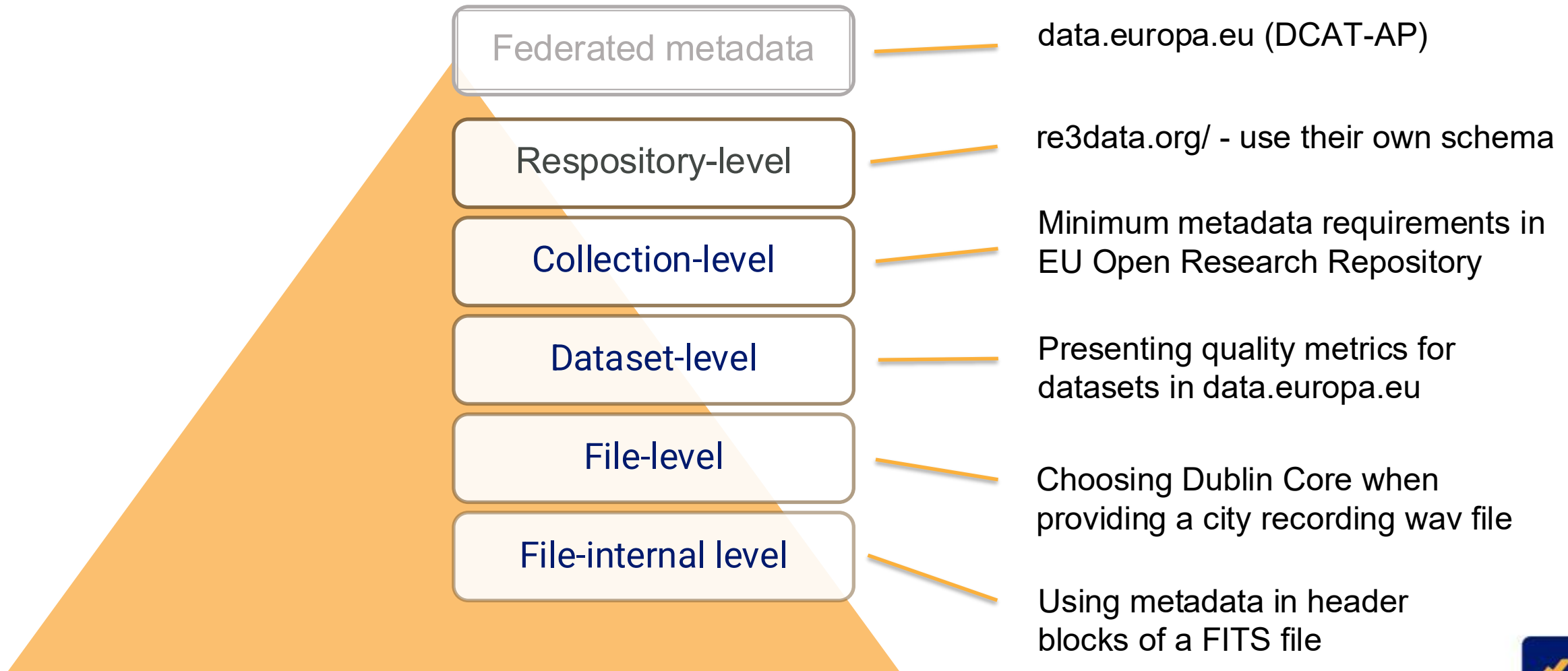
Important resources: High-quality data, **complete metadata**, documentation, machine resources, as well as a user's prior knowledge (domain expertise, understanding of methods, analytical skills, knowing facts, terminology and concepts, and more)

Granularity levels of metadata



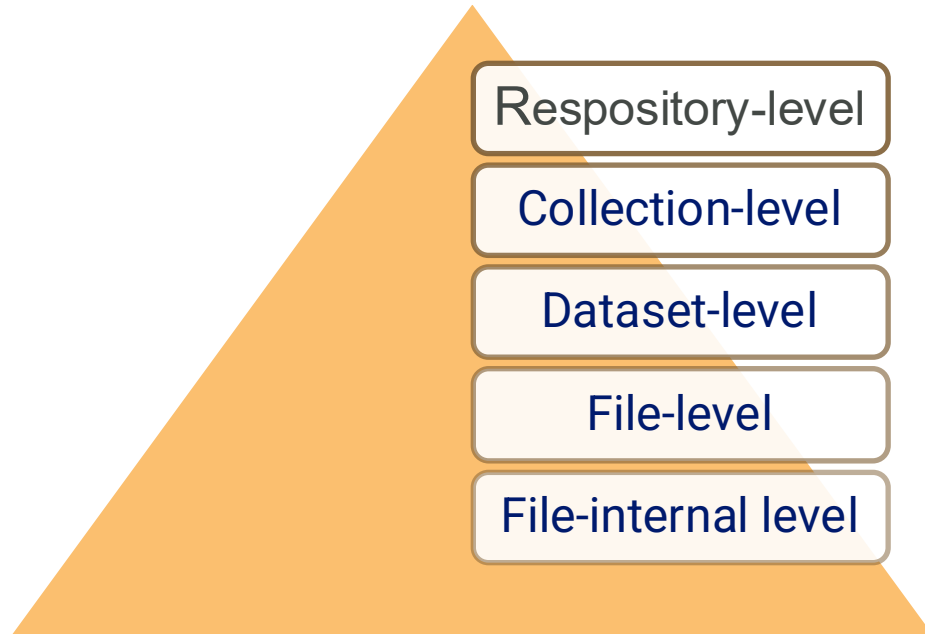
- Can you find you're the repository most relevant to you in the registry of re3data.org? [\[Link1\]](#)
- What kind of repository-level metadata is present in this registry? [\[Link2\]](#)
- If you include all repositories: What are the five mostly used metadata schemas/standards according to re3data.org?

Granularity levels of metadata put to use



- Do you find data from your own institution/country in EU Open Research Repository? [\[Link 3\]](#)
- What kind of dataset-level metadata is defined as minimum requirements in this collection in Zenodo? [\[Link4\]](#)

Ways of making authoritative (meta)data accessible



Repository (locally presented) web interface:

- Holding the primary, authoritative metadata for objects
- Making it searchable locally, present web landing pages
- Citeable and connectable from articles, code repos etc.

API / Externally / Machine accessible:

- Possible to discover / crawl,
- Possible to harvest,
- And possible to index by machines
- Included and searchable in registries
- And included in federated data catalogs

- What level of metadata qualities will be measured for EU Open Research Repository in data.europa.eu? (optionally, check dataset metrics that feels more relevant for you) [\[Link5\]](#)
- What metadata qualities are overall measured in the FAIR+Context Metrics used in data.europa.eu? [\[Link6\]](#)

The complexity of metadata completeness

Metadata completeness is complex because it can refer to:

- Providing rich metadata to the competent re-user
- Facilitate reuse for many disciplines with one generic schema
- Meeting the needs of machines, as well as people
- Providing only the minimal/ core metadata that enable federation
- Providing metadata within one, many or all of the granularity levels
- Implementing the many available ways of giving access to metadata
- A measurement/ metrics connected to completeness will be complex
- Ways forward can be: Both (End)User focus and community watch, as well as technology watch (increase automation and use of AI)

Thank you



[eden-fidelis webpage](#)



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- [Link1] <https://re3data.org>
- [Link2] <https://www.re3data.org/schema>
- [Link3] <https://zenodo.org/communities/eu/>
- [Link4] <https://zenodo.org/communities/eu/curation-policy>
- [Link5] <https://data.europa.eu/mqa/catalogues/zenodo?locale=en>
- [Link6] <https://data.europa.eu/mqa/methodology?locale=en>