

15th Community Call

OPENAIRE CONTENT PROVIDERS MANAGERS



**The adaptation of the FAIR Data Maturity
Model indicators in the OpenAIRE Validator**



AGENDA:

1) OpenAIRE Provide updates

2) Main topics for discussion

- ❖ **The adaptation of the FAIR Data Maturity Model indicators in the OpenAIRE Validator**
Andreas Czerniak, Bielefeld University

3) Discussion

Notes & Agenda ⇒ <https://bit.ly/2rTgJwy>



OpenAIRE PROVIDE – recent news & reminders

FAIR assessment in BETA

FAIR assessment via the Validator

Latest community call

OpenAIRE services: contributing to the EOSC

Recordings: <https://youtu.be/ssrivmbxr2Y>

Slides: <https://zenodo.org/record/4739010>

Metadata enrichments

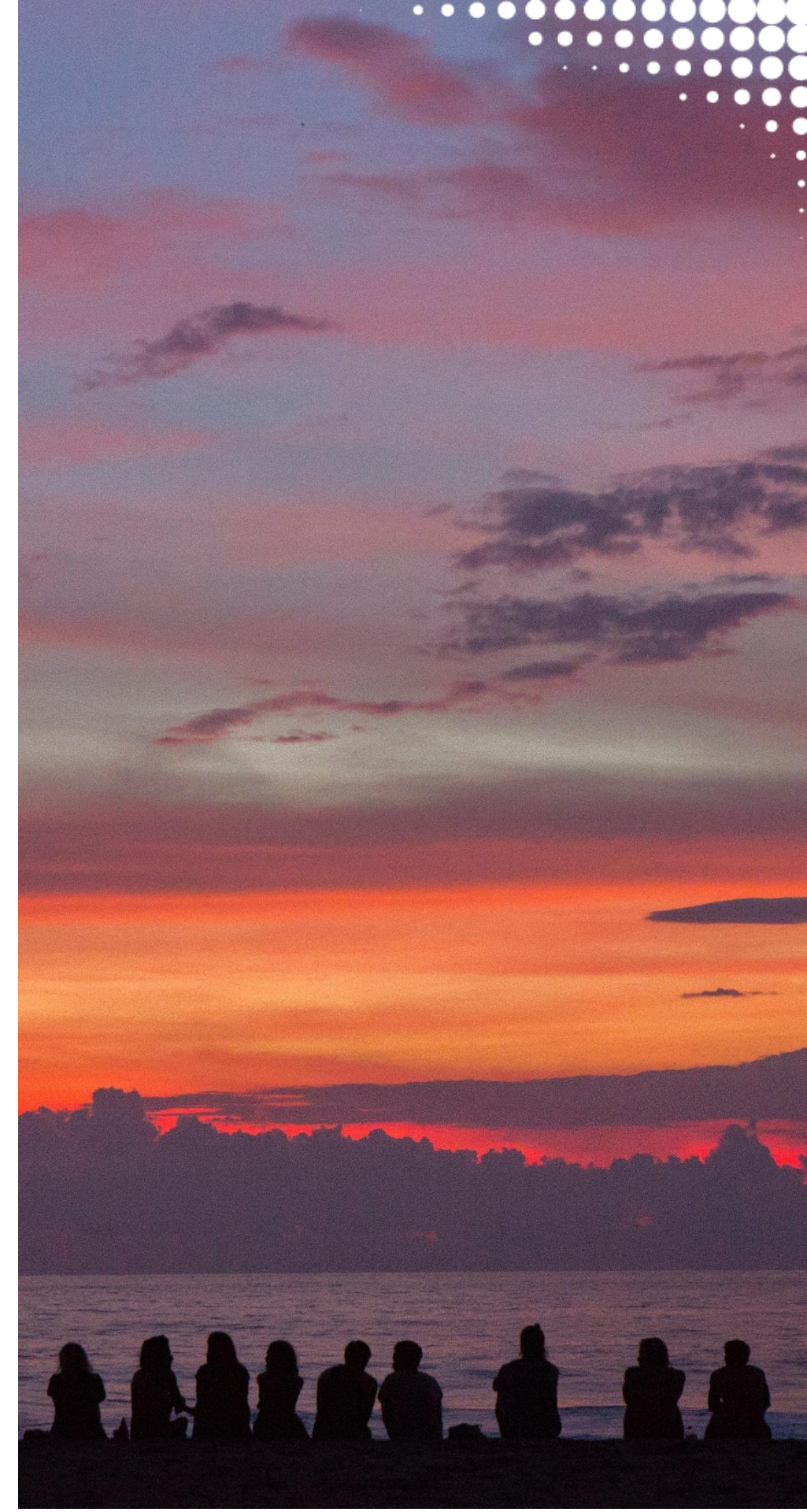
Sample of 100 events are displayed.

If you are interested to receive the full list, you can **subscribe!**

DRIS - Directory of Research Information Systems

It will be authoritative source to register CRIS systems in OpenAIRE.

reminders



Validator – in beta

Validate your datasource



Literature repository



Data repository



CRIS systems

BETA



FAIR assessment



Andreas Czerniak
Bielefeld University / Germany

OpenAIRE 15th Community Call



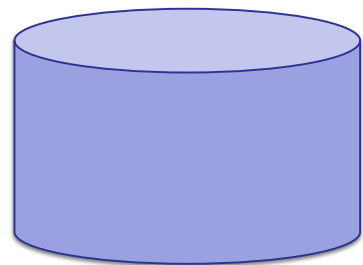
**Interoperability
Guidelines**

**FAIR, FAIRifications, Enhancements, and
Request for Comments (RFC)**

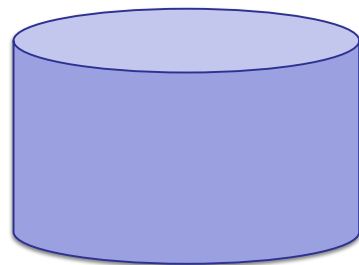
Topics

- Overview of the Guidelines and fundamental principles
- What's new?
- FAIR & FAIRification process
- Live demo - FAIR assessment at PROVIDE

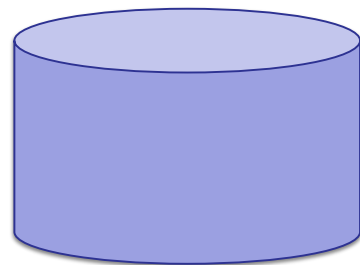
Landscape of Repositories types



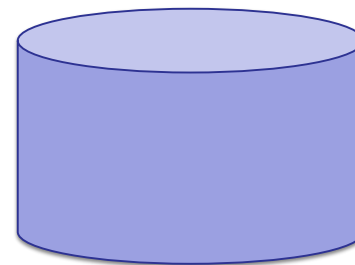
**Institutional/
publication
repositories**



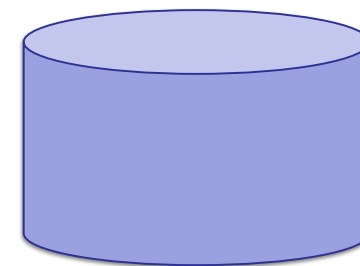
**Journals/
publishers**



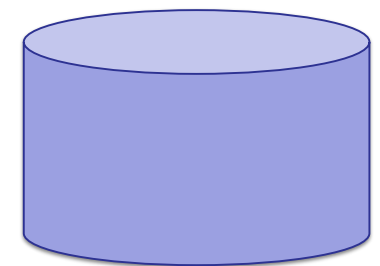
**Data
repositories**



**Software
repositories**

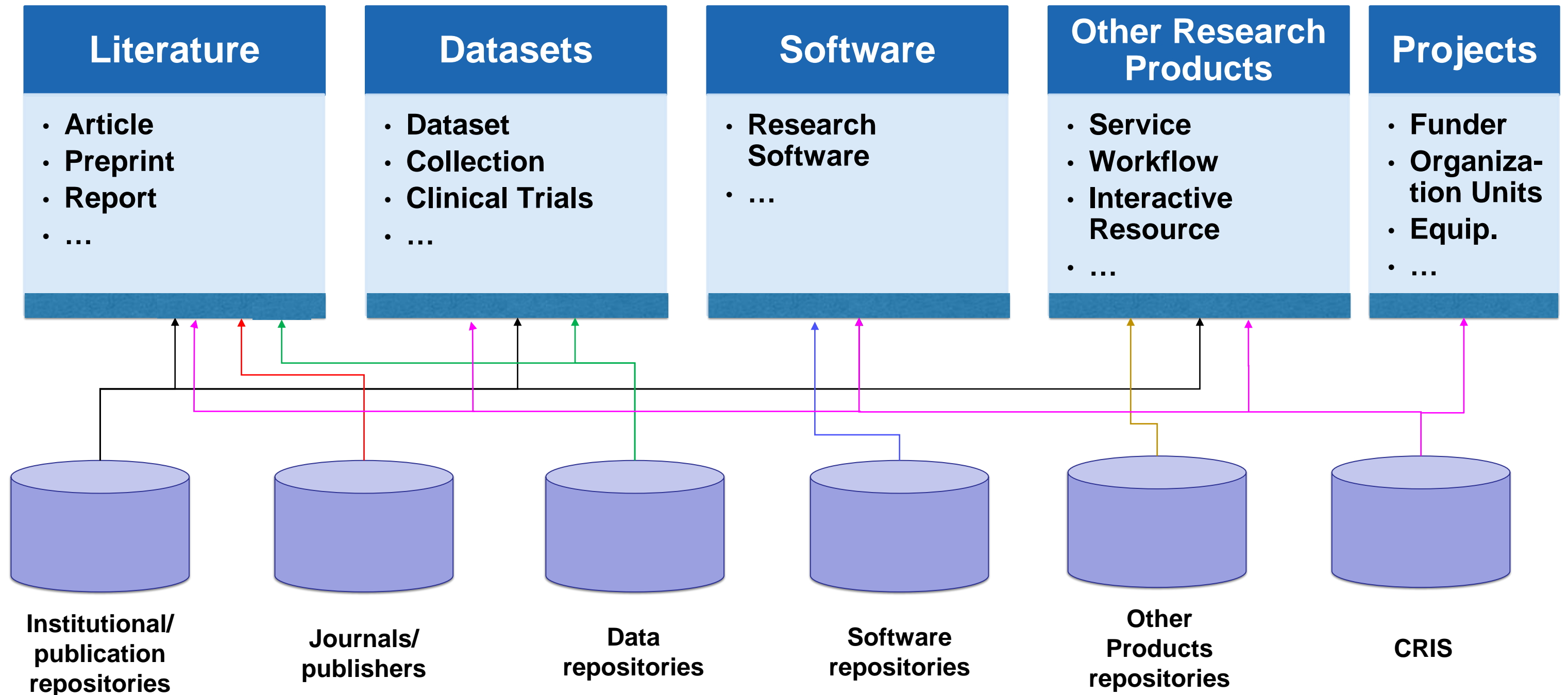


**Other
Products
repositories**

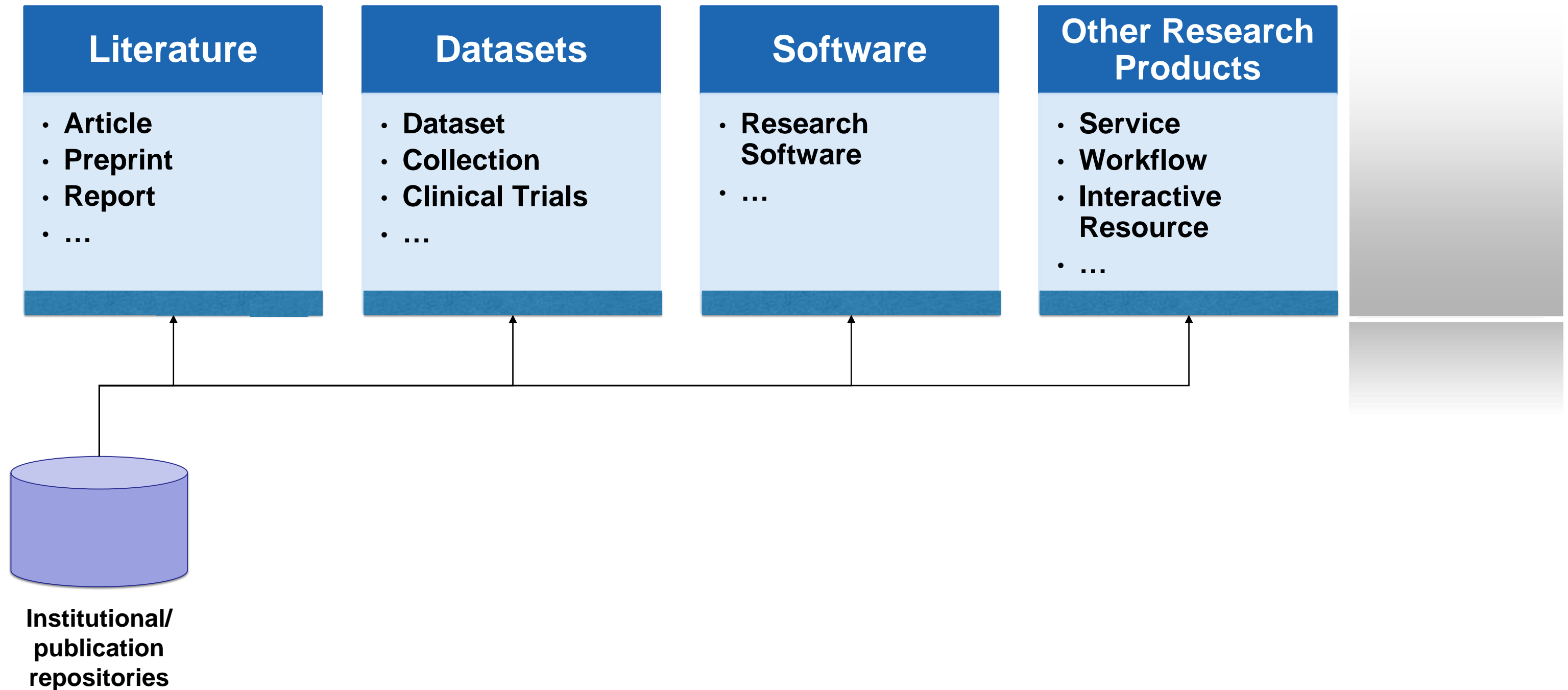


CRIS

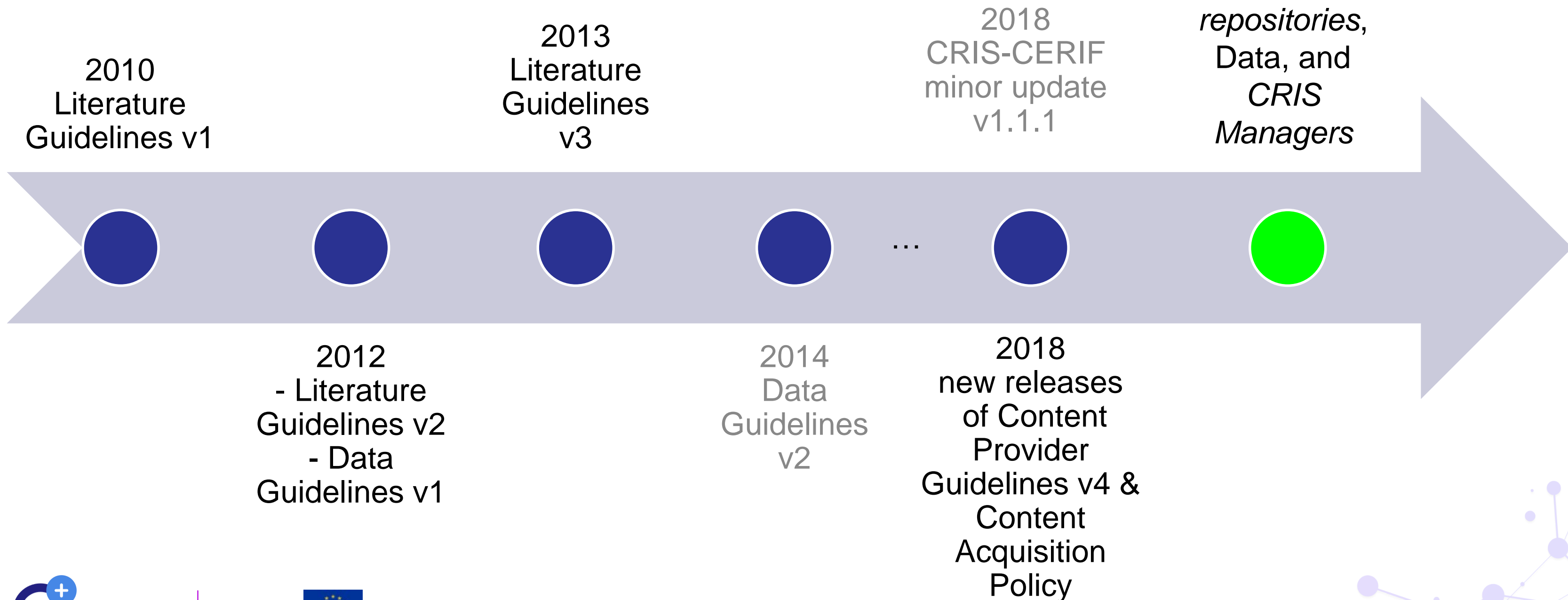
Repository types and research output



Repository types and research output



Evolution of the OpenAIRE-Guidelines - and further perspective



OpenAIRE Guidelines for Literature Repository Managers v4.0

- Based on established standards: Dublin Core and DataCite metadata scheme
- For description of textual and data publications
- Application Profile
- Controlled Vocabularies aligned with the other OpenAIRE Guidelines

<http://dx.doi.org/10.5281/zenodo.1299203>
(Released Nov-2018)

OpenAIRE-Field	Metadata Element	Refinement by Vocabulary
Title (M)	datacite:title	title type
Creator (M)	datacite:creator	name type
Contributor (MA)	datacite:contributor	name type contributor type
Funding Reference (MA)	oire:fundingReference	funderIdentifier type
Alternate Identifier (R)	datacite:alternateIdentifier	alternateIdentifier type
Related Identifier (R)	datacite:relatedIdentifier	relatedIdentifier type relation type resource type general
Embargo Period Date (MA)	datacite:date	date type
Language (MA)	dc:language	IETF BCP 47, ISO 639-3
Publisher (MA)	dc:publisher	
Publication Date (M)	datacite:date	date type
Resource Type (M)	oire:resourceType	COAR Resource Type Vocabulary
Description (MA)	dc:description	
Format (R)	dc:format	
Resource Identifier (M)	datacite:identifier	identifier type
Access Rights (M)	datacite:rights	COAR Access Right Vocabulary
Source (R)	dc:source	
Subject (MA)	datacite:subject	
License Condition (R)	oire:licenseCondition	
Coverage (R)	dc:coverage	
Size (O)	datacite:size	
Geo Location (O)	datacite:geoLocation	
Resource Version (R)	oire:version	COAR Version Vocabulary
File Location (MA)	oire:file	
Citation Title (R)	oire:citationTitle	
Citation Volume (R)	oire:citationVolume	
Citation Issue (R)	oire:citationIssue	
Citation Start Page (R)	oire:citationStartPage	
Citation End Page (R)	oire:citationEndPage	
Citation Edition (R)	oire:citationEdition	
Citation Conference Place (R)	oire:citationConferencePlace	
Citation Conference Date (R)	oire:citationConferenceDate	
Audience (O)	dcterms:audience	

What's new in v4.1-rc1?

- **FAIRification**

- adaptation of the Guidelines regard to the Research Data Alliance (RDA) - FAIR Data Principles

- **Enhancement for Aggregators**

- Identification of repositories in the provenance element

```
<about>
```

```
<provenance xmlns="http://www.openarchives.org/OAI/2.0/provenance"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://www.openarchives.org/OAI/2.0/provenance
http://www.openarchives.org/OAI/2.0/provenance.xsd">
```

```
<originDescription altered="true" harvestDate="2012-09-17T14:58:36Z">
  <baseURL>http://dspace.library.uu.nl:8080/dspace-oai/request</baseURL>
  <identifier>oai:dspace.library.uu.nl:1874/218065</identifier>
  <timestamp>2012-01-19T12:38:56Z</timestamp>
  <metadataNamespace>
    http://www.openarchives.org/OAI/2.0/oai_dc/
  </metadataNamespace>
  <repositoryId>opendoar:98765</repositoryId>
  <repositoryName>DSpace Library</repositoryName>
</originDescription>
```

```
</provenance>
```

```
</about>
```

```
<repositoryId>opendoar:98765</repositoryId>
<repositoryName>DSpace Library</repositoryName>
```


What's new in v4.1-rc1?

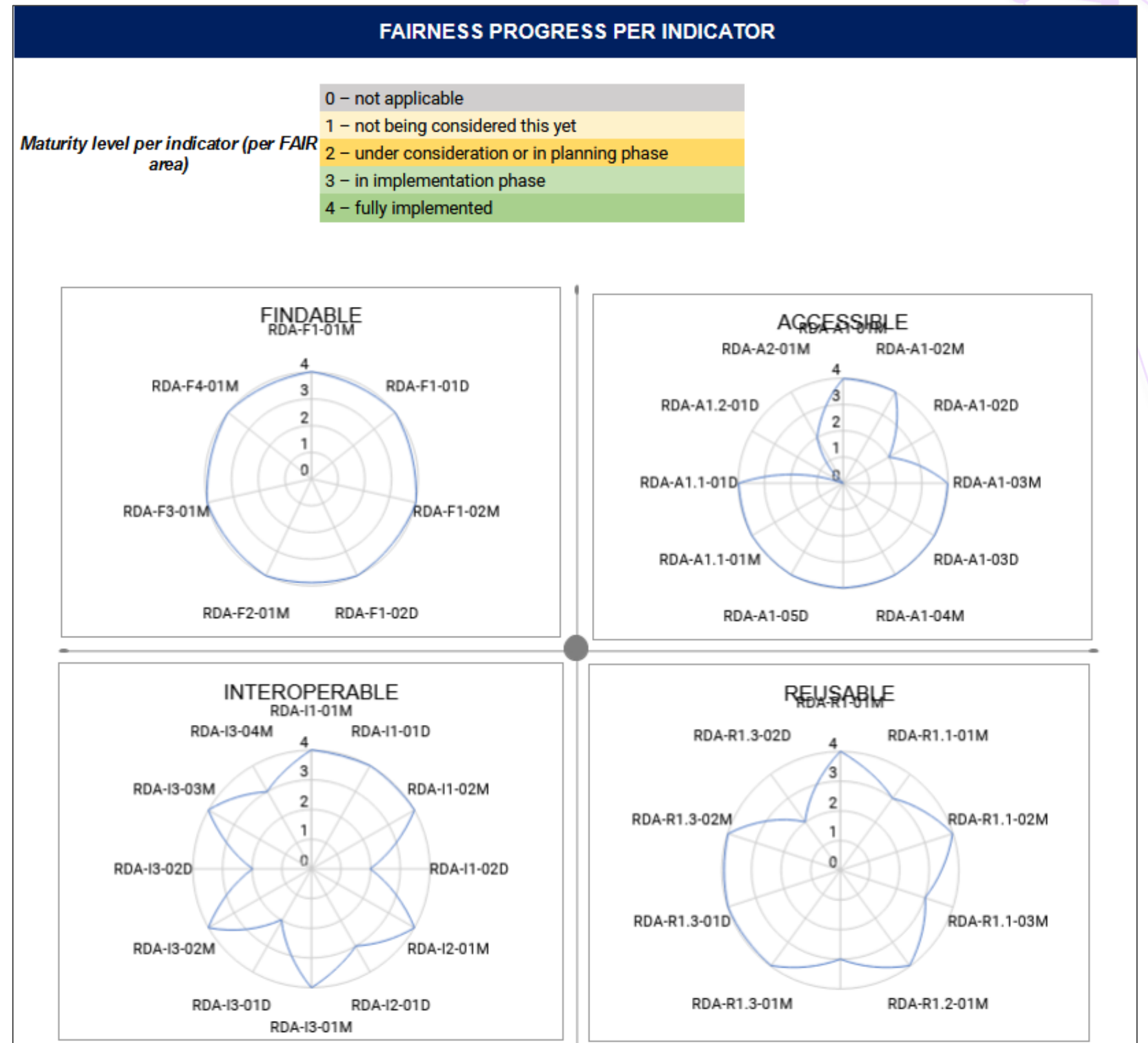
- Enhancement of *Contributor roles* with CRediT taxonomy
- Extend and refine descriptions and examples
- Updates links

FAIRification

based on Research Data Alliance -
FAIR Data Maturity Model:
specification and guidelines

[<https://doi.org/10.15497/RDA00050>]

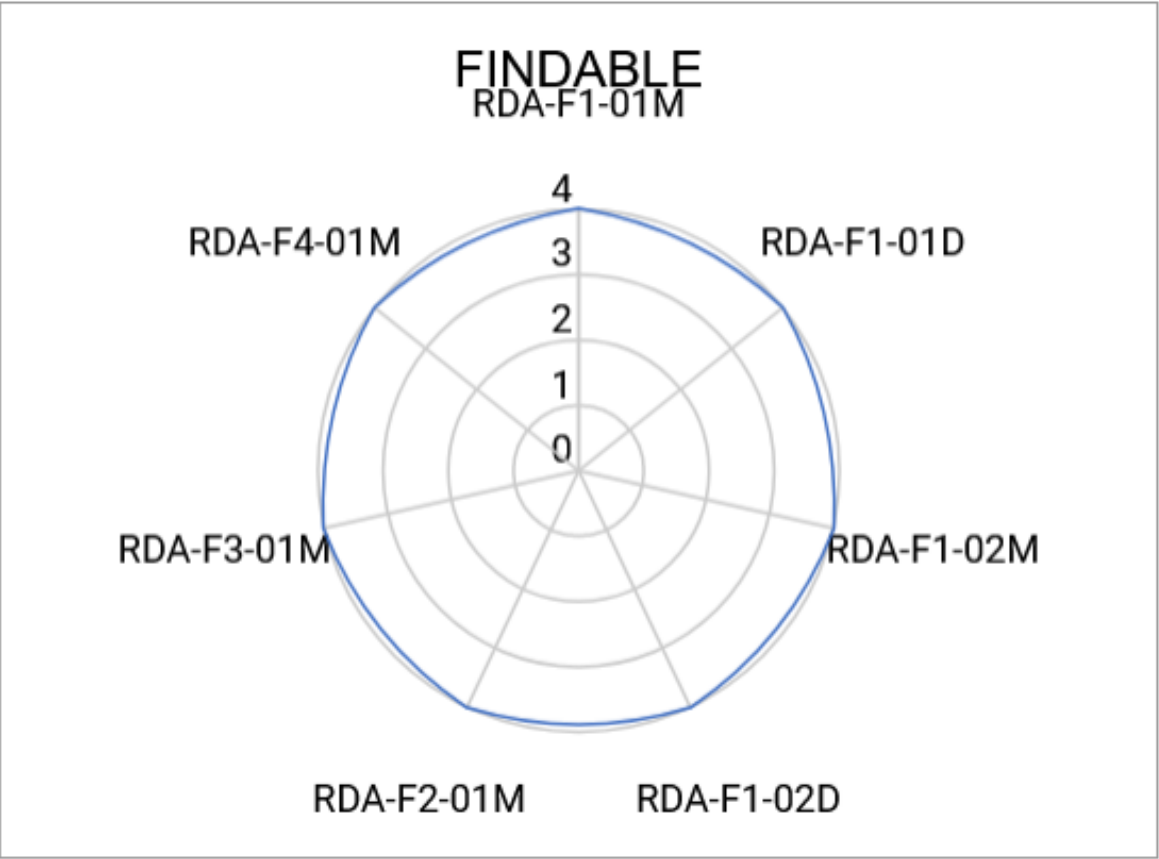
- Findable
- Accessible
- Interoperable
- Reuseable



FAIRification

- Findable

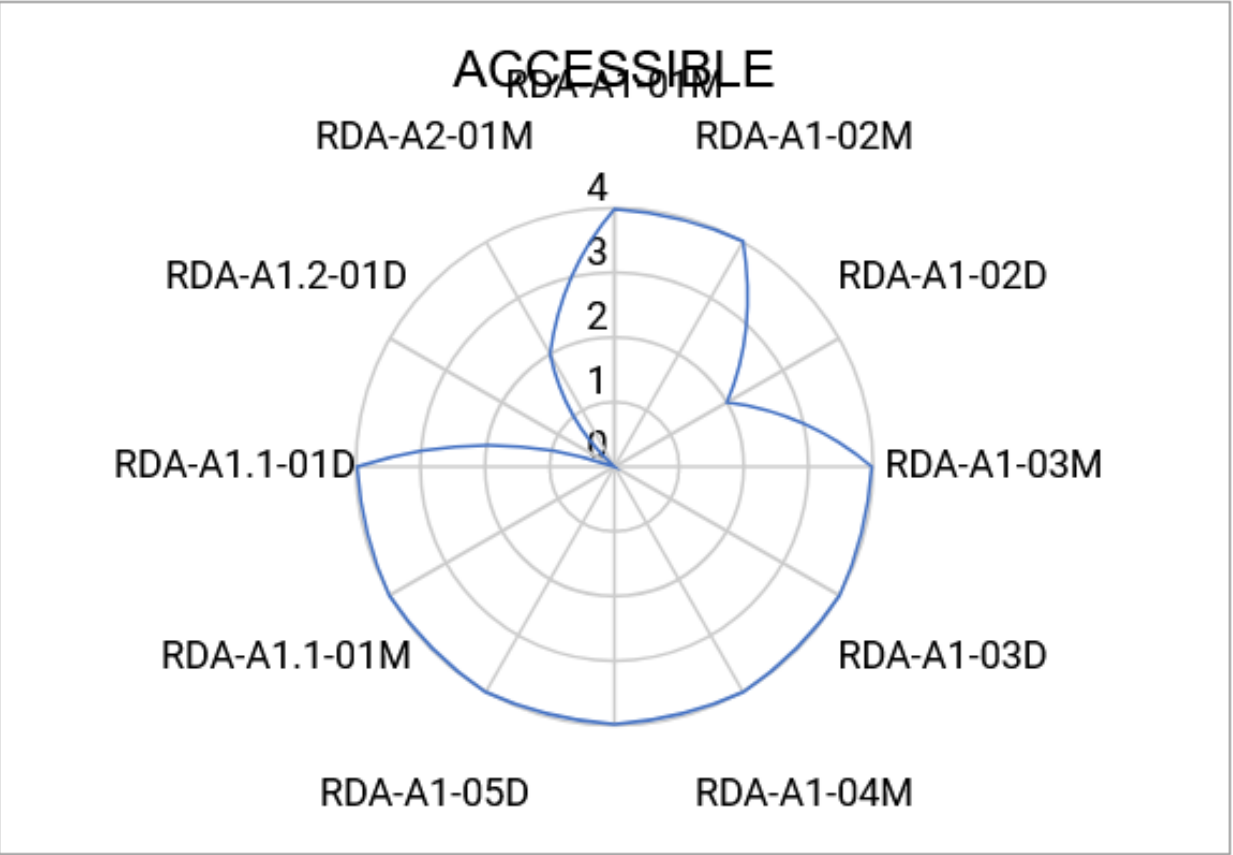
Indicator Id	FAIR Indicator	Priority	met in the guidelines	Primarily Supported in the Guidelines
RDA-F1-01M	Metadata is identified by a persistent identifier	Essential	y	Resource Identifier
RDA-F1-01D	Data is identified by a persistent identifier	Essential	y	Resource Identifier
RDA-F1-02M	Metadata is identified by a globally unique identifier	Essential	y	Resource Identifier
RDA-F1-02D	Data is identified by a globally unique identifier	Essential	y	Resource Identifier
RDA-F2-01M	Rich metadata is provided to allow discovery	Essential	y	implicitly
RDA-F3-01M	Metadata includes the identifier for the data	Essential	y	File Location
RDA-F4-01M	Metadata is offered in such a way that it can be harvested and indexed	Essential	y	implicitly



FAIRification

- Accessible

A1	RDA-A1-01M	Metadata contains information to enable the user to get access to the data	Important	y	Access Rights
A1	RDA-A1-02M	Metadata can be accessed manually (i.e. with human intervention)	Essential	y	not controlled by / in the scope of the Guidelines
A1	RDA-A1-02D	Data can be accessed manually (i.e. with human intervention)	Essential	n	not controlled by / in the scope of the Guidelines
A1	RDA-A1-03M	Metadata identifier resolves to a metadata record	Essential	y	implicitly supported by the OAI-PMH protocol but also digital objects minted with a DOI
A1	RDA-A1-03D	Data identifier resolves to a digital object	Essential	y	Resource Identifier
		Metadata is accessed			

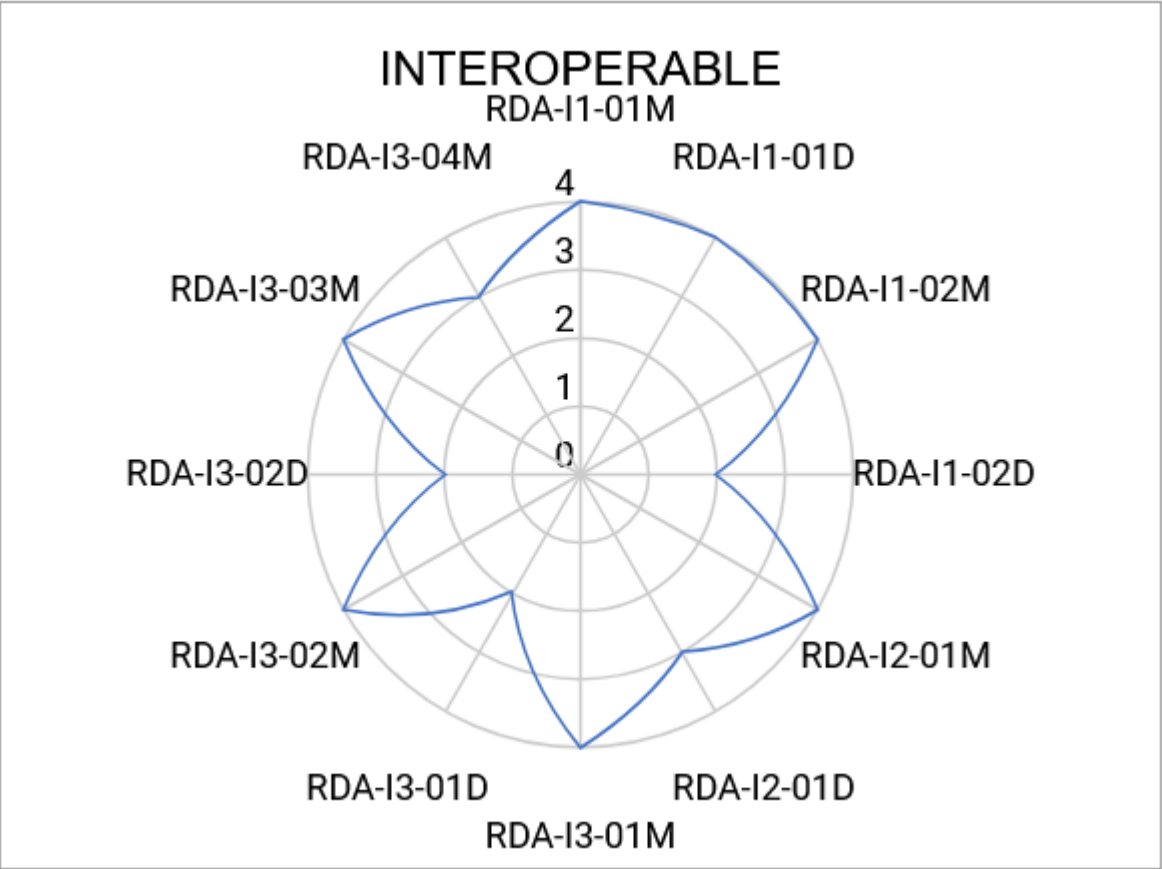


RDA-A1.2-01D	Data is accessible through an access protocol that supports authentication and authorisation	Useful
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FAIRification

- Interoperable

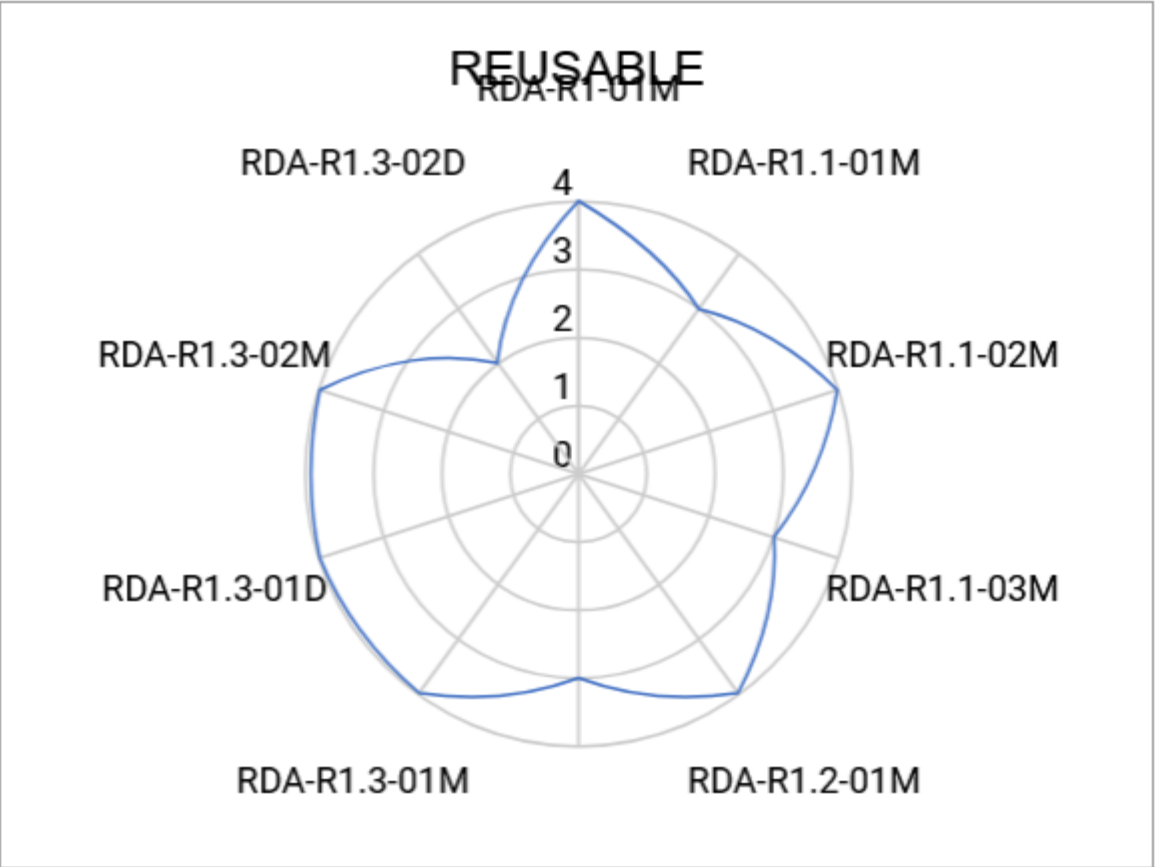
I1	RDA-I1-01M	Metadata uses knowledge representation expressed in standardised format	Important	y	Subject
I1	RDA-I1-01D	Data uses knowledge representation expressed in standardised format	Important	y	Format
I1	RDA-I1-02M	Metadata uses machine-understandabl e knowledge representation	Important	y	knowledge representation is cross-domain and on the level of XML
I1	RDA-I1-02D	Data uses machine-understandabl e knowledge representation	Important	n	not explicitly supported
I2	RDA-I2-01M	Metadata uses FAIR-compliant vocabularies	Important	y	supported for some vocabularies in the Guildeines, e.g. COAR vocabularies, CC-licenses vocabularies
I2	RDA-I2-01D	Data uses FAIR-compliant vocabularies	Useful	n	not supported by the guidelines
I3	RDA-I3-01M	Metadata includes references to other metadata	Important	y	related identifier



FAIRification

- Reusable

R1	RDA-R1-01M	Plurality of accurate and relevant attributes are provided to allow reuse	Essential	y	yes, as long as it concerns bibliographic information
R1.1	RDA-R1.1-01M	Metadata includes information about the licence under which the data can be reused	Essential	y	License Condition
R1.1	RDA-R1.1-02M	Metadata refers to a standard reuse licence	Important	y	License Condition
R1.1	RDA-R1.1-03M	Metadata refers to a machine-understandable reuse licence	Important	y	License Condition
R1.2	RDA-R1.2-01M	Metadata includes provenance information according to community-specific standards	Important	n	not supported
R1.2	RDA-R1.2-02M	Metadata includes provenance information according to a cross-community language	Useful	n	not supported



FAIRification - Conclusion

- The adaptation of the Guidelines for Institutional & Thematic Repository Manager with regard to the RDA FAIR Data Principles is possible.
- The *Guidelines for Institutional & Thematic Repository Managers* are primarily FAIR.
- The evolution of Guidelines is a key.

References

- latest version on Guidelines v4.1-rc1 at <https://openaire-guidelines-for-literature-repository-managers.readthedocs.io/en/latest/>
- Schema and examples on github <https://github.com/openaire/guidelines-literature-repositories>

Feedback channels

- making annotations on the latest guidelines pages

- creating Issue at GitHub

<https://github.com/openaire/guidelines-literature-repositories/issues>

- gDocument (without credentials)

https://docs.google.com/document/d/1aFWrkBO_f_GTWWTAfco4uoUphEbtOOdJVD_2ohYw7Ek/edit#

Live demo

<https://provide.openaire.eu>

Questions

<https://menti.com>

2528 0440



Request for Comments!

- making annotations on the latest guidelines pages

<https://openaire-guidelines-for-literature-repository-managers.readthedocs.io/en/latest/>

- creating Issue at GitHub

<https://github.com/openaire/guidelines-literature-repositories/issues>

- gDocument (without credentials)

https://docs.google.com/document/d/1aFWrkBO_f_GT_WWTAfco4uoUphEbtOOdJVD_2ohYw7Ek/edit#

We want to hear your thoughts!

until June, 20th 2021

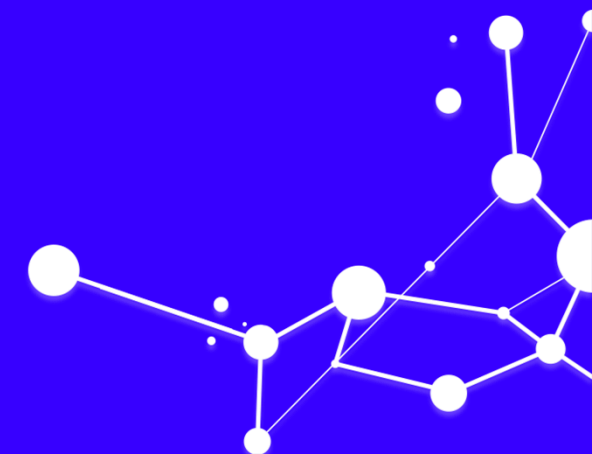


@openaire_eu
#OpenAIRE-Nexus

THANK YOU


Andreas Czerniak

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Community Calls

Join us!



Upcoming calls & Agendas

June 2nd, 2021	+
July 7th, 2021 [postponed]	+
October 6th, 2021	+
November 3rd, 2021	+



Notes & Recordings


May 5th, 2021	+
April 7th, 2021	+
March 3rd, 2021	+
February 3rd, 2021	+
2020	+
2019	+

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If you can't see this e-mail, view it online


 OpenAIRE

Content Providers News no.17

Join the 15th OpenAIRE Content Providers Community Call

Upcoming meeting: 2nd of June at 14h30 CEST

OpenAIRE runs a series of regular online community calls for content provider managers that can catch up with latest OpenAIRE developments, express interest and queries on the topics under discussion, of course provide feedback. It is a great opportunity to present and discuss developments from OpenAIRE, upcoming releases from the PROVIDE dashboard and other relevant topics. Through the calls OpenAIRE provides accurate information on its infrastructure and service developments.

 OpenAIRE PROVIDE

"OpenAIRE CONTENT PROVIDERS COMMUNITY CALL"

Are you a content provider? Got questions? **learn more!** OpenAIRE is running a series of **online community calls** targeting all OpenAIRE content providers managers.

Every month, on the first Wednesday 14h30 CET

Upcoming releases:
Questions and answers
Recent developments

The upcoming meeting will be an opportunity to know more about developments on the adaptation of the FAIR Data Maturity Model

An overview of content providers registered in OpenAIRE

Get to know them in numbers

OpenAIRE PROVIDE allows for registration of content providers that are compatible with [OpenAIRE guidelines](#). By registering in OpenAIRE, content providers are becoming a building block of a global Open Research community, a gateway to the European Open Science Cloud (EOSC). Over the years, several repositories have joined OpenAIRE, contributing to build the [OpenAIRE Research Graph](#), which collects metadata records from more than 70K scholarly communication sources from all over the world, including Open Access institutional repositories, data archives, and journals.

The number of content providers registered in OpenAIRE has been continuously increasing over the years, with more than 1900 already, representing distinct typologies, such as institutional & thematic Repositories, Journals, Data Repositories, Current Research Information Systems (CRISs), among aggregators, and others.

[Read more](#)



Adaptation of FAIR Data Maturity Model indicators in Validator

Discover the ongoing work that will allow you to evaluate the FAIRness of your datasource

OpenAIRE is working to adapt the [FAIR RDA Data Maturity Model indicators](#) in our [OpenAIRE Validator](#). The Validator is available to every logged-in user via the [PROVIDE dashboard](#) and is intended to provide an impression of the FAIRness of their repository.

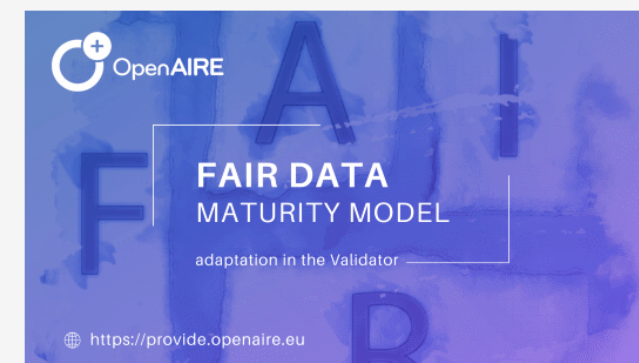
The FAIR Maturity Model Indicators, as core criteria to assess the implementation level of the FAIR (Data) principles, implemented in the OpenAIRE Validator, aims to offer to the datasource managers, a way to assess the implementation of FAIR (Data) Principles in their datasource.

This implementation in the Validator will deploy a specific guideline to evaluate the level of adoption of the FAIR Principles by datasources.

Being part of OpenAIRE, all datasources assure its compatibility with global standards and interoperability based on the adoption of OpenAIRE guidelines. More specifically the FAIR assessment will leverage a more swift adoption and implementation process of FAIR principles in repositories, enabling a faster identification of trustworthy repositories, thus accelerating the building of EOSC services upon these infrastructures.

The June's Community Call for Content Providers will present the ongoing work that it's been done by OpenAIRE to adapt the FAIR Data Maturity Model. [Join the session on June 2nd](#) or see the recording and presentation that will be made available in the [event page](#).

[Read more](#)





Thank you!

www.openaire.eu/provide-community-calls