

Update your repository compatibility with latest OpenAIRE Interoperability Guidelines

OpenAIRE PROVIDE webinar



AGENDA

1. **Why the need for this compatibility upgrade and the OpenAIRE provide timeline**
2. **OpenAIRE Guidelines version 3.0 & 4.0 for institutional and thematic repositories**
 - Practical guidance / Tips
 - Upgrade scenarios
3. **OpenAIRE PROVIDE services**
4. **Clinic (30 min)**

Why the need for this compatibility upgrade

Why should you upgrade your repository compliance with guidelines v3.0 or v.4.0?

Alignment with the EOSC EC Node

Versions 3.0 and 4.0 of the OpenAIRE guidelines will be the only compatible versions that will be eligible for the registered data sources to get onboard the EOSC EU NODE catalogue.

Improve the metadata exposing following global common standards.

+

We need structured info, project information and links

We need to push the community to evolve and move from flat & unstructured metadata to informative metadata and protocols

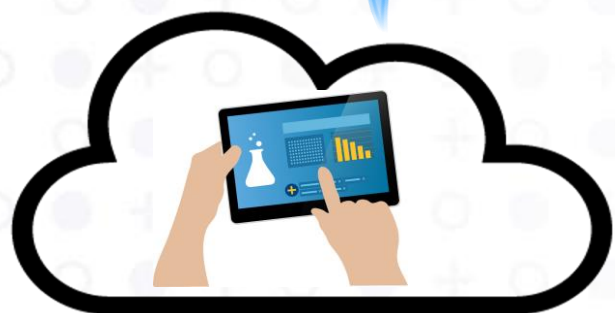


Compatibility with the OpenAIRE Guidelines

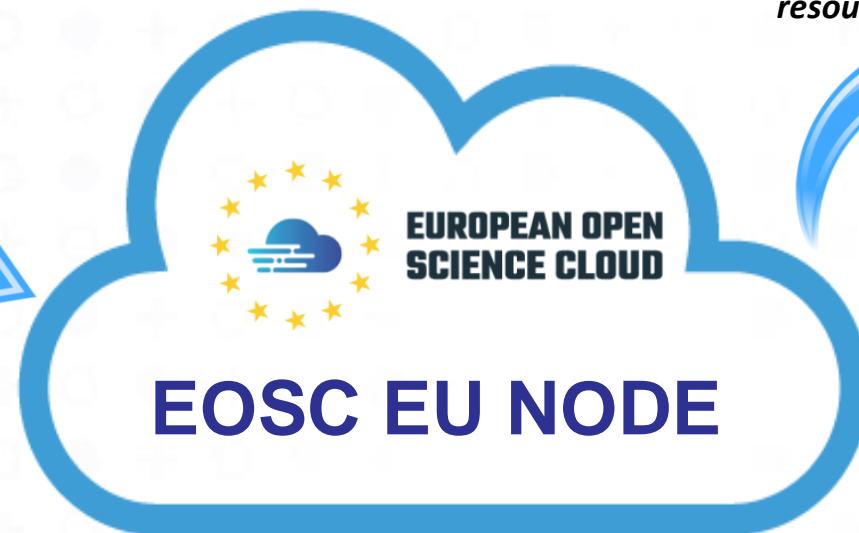
- **EOSC:** OpenAIRE is your entry/gateway to EOSC.
 - If you are compliant with the OpenAIRE guidelines then
 - You will be onboarding the EOSC EU Node
- **Improved interoperability** to meet latest IT and repository standards
 - Your content is more:
 - **Contextualised** (links and relationships to other types of research outcomes and entities),
 - **Flexible** (using different and improved vocabularies)
 - **Embedded in the R&I ecosystem** (alignment with Open Science mandates and standards and support for well-established metadata schemas, namespace abbreviations)
- This is your road to **FAIR**“ness”
 - If you are compliant with the OpenAIRE guidelines then
 - you are also FAIR enough

Sharing resources beyond organizational boundaries

Share resources!



Libraries (e.g. Repositories, Archives, CRIS systems)

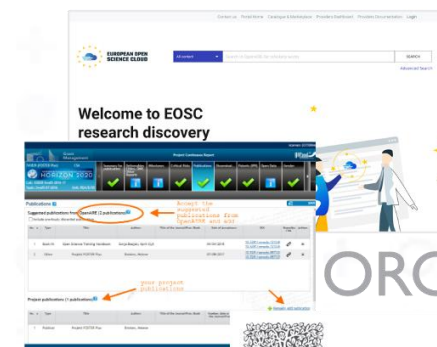


Search, find, identify, compose, and reuse resources!



EOSC users
RIs, clusters, e-infras, long tail, libraries, organizations, funders, companies

Reporting scientific production to funders, Commission, and scholarly communication services



ORCID



SciVal
ELSEVIER



Scopus

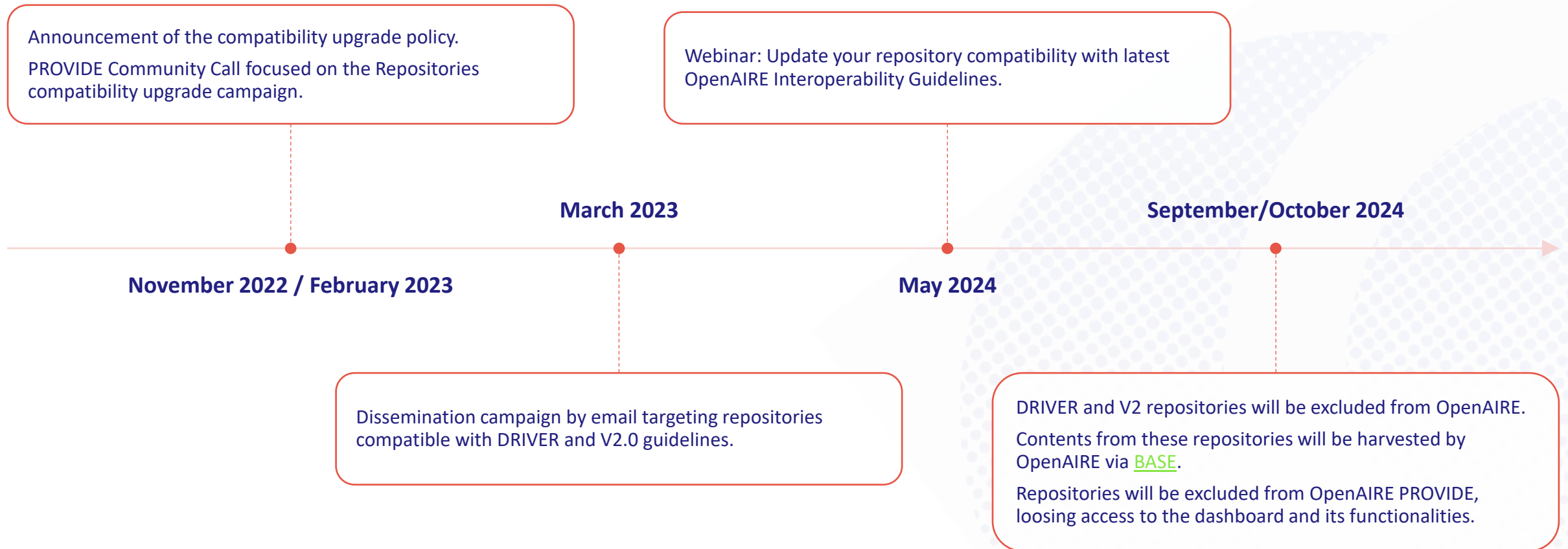
Metadata enrichment (OpenAIRE Broker Service)

Confirm if you have access to your repository dashboard in PROVIDE

Your repository is registered in OpenAIRE, but without access to the dashboard in PROVIDE. How to access it?

- Create an OpenAIRE user account if you don't already have one or login via your institutional account.
- **Send an email to helpdesk@openaire.eu** asking to have access to the dashboard informing:
 - **The repository name**
 - **The email address** of the user account you want to link to the repository dashboard
 - Whether you use an OpenAIRE account or your institutional account to sign in

Timeline and what comes next



OpenAIRE Guidelines version 3.0 and 4.0 for institutional and thematic repositories

<https://guidelines.openaire.eu/>

- A common metadata framework for exchanging minimum metadata information
- Established to:
 - Support the Open Access strategy of the European Commission
 - Ensure a full alignment with the EOSC Interoperability Framework
 - Meet the requirements of the OpenAIRE infrastructure
 - Ensure that your data is FAIR, and they follow the FAIR principles
- Provide orientation to define and implement your local data management policies according to the requirements of OpenAIRE
- Expose publications, datasets and CRIS metadata via the OAI-PMH protocol in order to integrate with OpenAIRE infrastructure

What does OpenAIRE collect according to the compatible level of your data source?

OpenAIRE basic	OpenAIRE 2.0	OpenAIRE 2.0 +	OpenAIRE 3.0	OpenAIRE 4.0
<ul style="list-style-type: none"> • Only Open Access Content • Via Driver oai set 	<ul style="list-style-type: none"> • Only EC funded content • Via ec_fundedresources oai set 	<ul style="list-style-type: none"> • Only Open Access and EC funded content • Via Driver and ec_fundedresources oai set 	<ul style="list-style-type: none"> • Open Access and/or EC funded and/or National / Other funded content • Via OpenAIRE oai set 	<ul style="list-style-type: none"> • Open and closed content, according to the new Content Acquisition Policy • Via oai_openaire metadata prefix

Key points to follow

- Expose your repository's metadata via an OAI-PMH endpoint in the format addressed by the Application Profile of the OpenAIRE guidelines (for v.4.0 [click here](#))
- Follow the instructions for all the fields
- Populate at least all the mandatory (M) fields and attributes
- More populated fields -> Better data quality -> Better quality of the OpenAIRE services

• v3.0

- Title (M)
- Creator (M)
- Access Level (M)
- Publication Date (M)
- Publication Type (M)
- Resource Identifier (M)

• v4.0

- Title (M)
- Creator (M)
- Publication Date (M)
- Resource Type (M)
- Resource Identifier (M)
- Access Rights (M)

Changes & implications between guidelines versions

Guidelines v3.0

- Expose not only EC funded publications, **but also other Open Access publications, regardless of their funding.**
- **Introduces:**
 - The “Horizon Europe” funding programme from the European Commission.
 - Linking of publications to other publications (references), and to datasets.

Guidelines v4.0

- Expose **open access and non-open access** publications together with funding information.
- **Introduces:**
 - **Dublin Core and DataCite schemas**
 - New OAI-metadataPrefix: “oai_openaire”
 - New schema namespace: “oaire” with additional elements
 - Identifier schemes for authors, organisations, funders, scholarly resources
 - **COAR Controlled Vocabularies**
 - Compliance with the OpenAIRE Content Acquisition Policy

How do I expose the metadata of my repository?

- OpenAIRE Guidelines v4.0 publication in Zenodo:
 - <https://doi.org/10.5281/zenodo.1299202>
 - Documentation
 - Record samples
 - Metadata xsd schemas

Tips & resources

- Documentation of Guidelines at guidelines.openaire.eu

- Description

- Mandatory (M)
 - Mandatory if Applicable (MA)
 - Recommended (R)
 - Optional (O)

- Examples

```
1 <datacite:title xml:lang="en-US">
2   National Institute for Environmental Studies and Center
3   for Climate System Research Japan
4 </datacite:title>
5 <datacite:title xml:lang="en-US" titleType="Subtitle">A survey</datacite:title>
```

Q&A

Upgrade scenarios & Supported Platforms

Upgrade scenarios

I will update the compatibility of my repository, but only after September 2024. What will happen to my repository registration?

- OpenAIRE will stop aggregating your records and your repository will be excluded from OpenAIRE. Contents will be aggregated by OpenAIRE via [BASE](#).
- Once your repository is compatible with the latest version of the guidelines, you can re-register it in OpenAIRE.

Upgrade scenarios

My repository is already following the latest versions of the Guidelines, but it's not yet updated in OpenAIRE (the OAI-PMH URL and/or the compatibility level). What should I do?

- **Update or Add the New Interface** in the PROVIDE dashboard.
 - Then, the Aggregation team will evaluate and update the compatibility level.
- **Steps:**
 - Access your repository dashboard at <https://provide.openaire.eu/>
 - Go to the menu: Update > Update Interfaces
 - **If the OAI-PMH URL is the same:** Update the "Desired compatibility level"
 - **If your repository has a new OAI-PMH URL:** Select the option "Add New Interface"

Upgrade scenarios

My repository was registered in OpenAIRE several years ago, but in the meantime "was upgraded" to a CRIS System. How should we proceed to be compatible?

- If you have a new CRIS System that "replaced" the existing repository, you should create a **new registration in OpenAIRE PROVIDE for the CRIS System, and comply with the [Guidelines for CRIS Managers](#)**
- **Steps:**
 - Access to <https://provide.openaire.eu/>
 - Select the options: Register > CRIS Systems (Note: your CRIS needs to be registered in [DRIS](#))
 - Fill in the form and submit the registration
 - The Aggregation team will evaluate and validate the registration. If the validation succeeds, contents will be regularly harvested by OpenAIRE.
 - OpenAIRE will stop aggregating from the old repository and the registration and its metadata will be removed from the OpenAIRE infrastructure.

Supported Platforms

My repository is based on a specific software platform. Does this platform support the OpenAIRE Guidelines compatibility?

- **DSpace**
 - [Instructions for implementing compliance with the OpenAIRE Guidelines.](#)
- **Eprints**
 - [Export Plugin for Interoperability with OpenAIRE](#)
(Exports metadata based on OpenAIRE Guidelines for Literature Repositories).
- **PURE**
 - Expose your metadata records via the “oai_openaire” or “oai_dc” metadata format.

OpenAIRE PROVIDE services

The OpenAIRE Content Provider Dashboard

- **One-stop-shop web service**

for

- **Content providers** (institutional & thematic repositories, data archives, journal, aggregators, CRIS systems)

who

- interact with OpenAIRE (share and exchange metadata and content)
- **Front-end access** to many of OpenAIRE's **backend services**

PROVIDE dashboard: Added value functionalities



Validate

The **Validator** service assess the metadata quality by measuring your data source compatibility with the the **OpenAIRE guidelines** to expose your content by using global standards: <https://guidelines.openaire.eu/en/latest/>

Register

If validation succeeds your data source can be **registered for regular aggregation** and indexing in OpenAIRE. Additionally, you become part of the EOSC ecosystem and a global interlinked network. Reach a wider audience around the world.

Collection monitor

Collection monitor provides the **aggregation history**. Track the aggregation stage, collection mode and the number of records aggregated thus improving your metadata quality.

Enrich

Improve your metadata. Get more connections. **OA Broker service** offers a wealth of information on scholarly communication data. Find out what interests you and subscribe to enrich your records.

Measure

Share usage data via OpenAIRE's global **Metrics Service – UsageCounts**. Get the benefit of an aggregated environment.

Notifications

Once registered in OpenAIRE, content providers can use the Provide functionalities and to **get notifications & alerts** (enrichments, errors, useful info).



Benefits

- Extending repository **metadata models to Open Science practices**
- **Keeping the collections up-to-date:** alerts, enrichments, additions
- Fostering notification-based and federated dissemination of knowledge

Added Value, improve:

- **Repository interoperability**, collections and content for **enhanced visibility and access**
- Institution memory & research assessment

Building trust and value

- Repositories network
- **Community-driven service** with a strong focus on the end-user needs (user-centered design) based on feedback during the **monthly community calls**: www.openaire.eu/provide-community-calls
- Challenges for:
 - Better relationship and interaction with the targeted users
 - Transparency of the service's developments

Role to the EOSC

- **Interoperability compliance** via the OpenAIRE Guidelines.
Every data source validated in OpenAIRE is EOSC compliant
 - Guidelines: v3.0, v4.0, data, CRIS
- **Integration** of the data sources registration workflow within the **EOSC EU Node**
- **OpenAIRE Graph** becomes a **key asset for discovery and monitoring within the EOSC**: <https://graph.openaire.eu/>

Q&A

THANKS

Email

helpdesk@openaire.eu

Twitter

[@openaire_eu](https://twitter.com/openaire_eu)
