

**OPEN ▶
SCIENCE ▶
FAIR ▶**

15-17. SEPT. 2025
SCIENCE GATEWAY
CERN, GENEVA

FUSING FORCES

**ACCELERATING OPEN SCIENCE
THROUGH COLLABORATION**

**Designing What Matters:
Co-Creating Open
Science Dashboards**



WWW.OPENSOURCEFAIR.EU

AIM

To collaboratively explore how Open Science can be meaningfully monitored and rewarded within research assessment frameworks by co-designing stakeholder-specific dashboards using real indicator sets.

Participants will work in small groups to:

- **Choose a role** (e.g. researcher, institution, funder) and define the **scope of the evaluation** they are interested in (e.g. individual performance, institutional engagement, funding outcomes);
- **Select relevant indicators** from a curated set;
- **Build a simple “Open Science dashboard”** tailored to the chosen role and context;
- **Reflect on data needs, interpretation, and use**;
- **Contribute to shaping future tools and frameworks** for Open Science monitoring and assessment (e.g. GraspOS, PathOS, CoARA).

This participatory exercise aims to generate concrete ideas and feedback that can support the development of flexible, stakeholder-aware infrastructures for Open Science assessment.

Agenda

- **Setting the Stage and Getting Inspired (30 min)**

We'll present initiatives and examples that show how Open Science can be monitored in a practical way — with real-world data components and infrastructures that support new indicators beyond traditional metrics.

- **Group Work (40 min)**

We'll divide into 3 groups.

Each group will:

- Choose a **role** (e.g. researcher, RPO, RFO)
- Define the **purpose of the monitoring exercise**
- Answer guiding questions:
 - What are we trying to measure?
 - What kind of data is needed?
 - What infrastructures or tools could help automate or support the evaluation — quantitatively or narratively?

- **Present your Dashboard & Reflect Together (20 min)**

Setting the stage



Giulia Malaguarnera,
OpenAIRE
CoARA WG OI4RRA



Marta Soricetti,
Open Citations



Stefania Amodeo,
OpenAIRE Graph



Alessia Bardi,
OpenAIRE CONNECT



Ioanna Grypari,
PathOS



Zenia Xenou,
My Research Folio

TOWARDS OPEN INFRASTRUCTURES FOR RESPONSIBLE RESEARCH ASSESSMENT

Mission

- Enable institutions to **move from proprietary infrastructure** and research information to open interoperable alternatives.
- Take into consideration the **wide range of research outputs** and **open science** practices, addressing the **diversity** of the research community.



FROM PRINCIPLES TO PRACTICE: WHAT INSTITUTIONS AND FUNDERS NEED

Giulia Malaguarnera, OpenAIRE, CoARA OI4RRA WG

Needs of RPOs:

- Capture and assess diverse research outputs (e.g., software, data, mentoring)
- Integrate local CRIS/RIM systems with open, external infrastructures
- Improve metadata quality and interoperability
- Adopt and customise open indicators aligned with institutional strategies
- Build capacity and ensure sustainability of responsible assessment practices

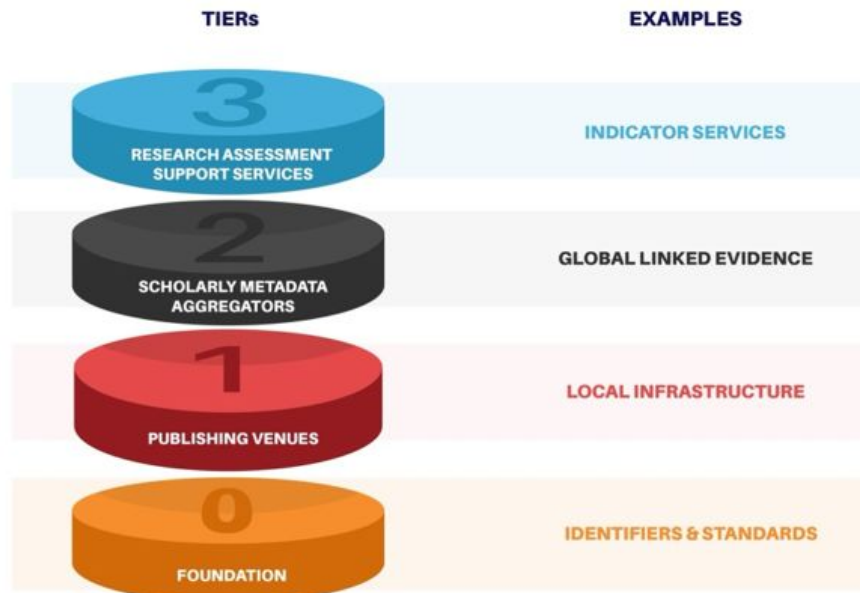
Needs of RFOs:

- Monitor funding outcomes beyond publications
- Promote open access to funding and research data
- Embed open infrastructure requirements in calls and evaluation workflows
- Support local and global infrastructure development
- Use indicators to reward Open Science and societal impact

OI4RRA CONCEPTUAL ARCHITECTURE



CoARA OI4RRA OPEN INFRASTRUCTURE TIERS



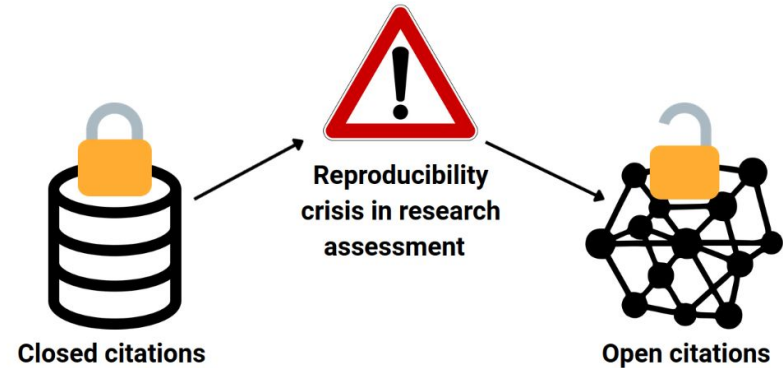
Why Open Citations & References?

Citations are **core links in scholarly communication**: they show influence, credit and connections between works.

Currently, **research assessment** faces a **reproducibility crisis** →

- opaque metrics and closed data
- citation data locked in commercial indexes
→ no transparency, no verification

Solution: **Open citations** as a **common good** → a crucial requirement for the bibliometrics and scientometrics domain **for the creation of reproducible metrics for research assessment exercises**.





OpenCitations: Open Access to Scholarly Metadata

OpenCitations, founded in 2010, as a community-guided open infrastructure provides open bibliographic and citation data to enable transparent and reproducible research assessment.

How **OpenCitations** can help in creating a more accessible, equal and open science environment



It provides an enduring source of comprehensive high-quality scholarly bibliographic and citation metadata.



It is a disruptive and free alternative to proprietary citation services



It enables integration with complementary sources of open scholarly information



It shares the values of Open Science



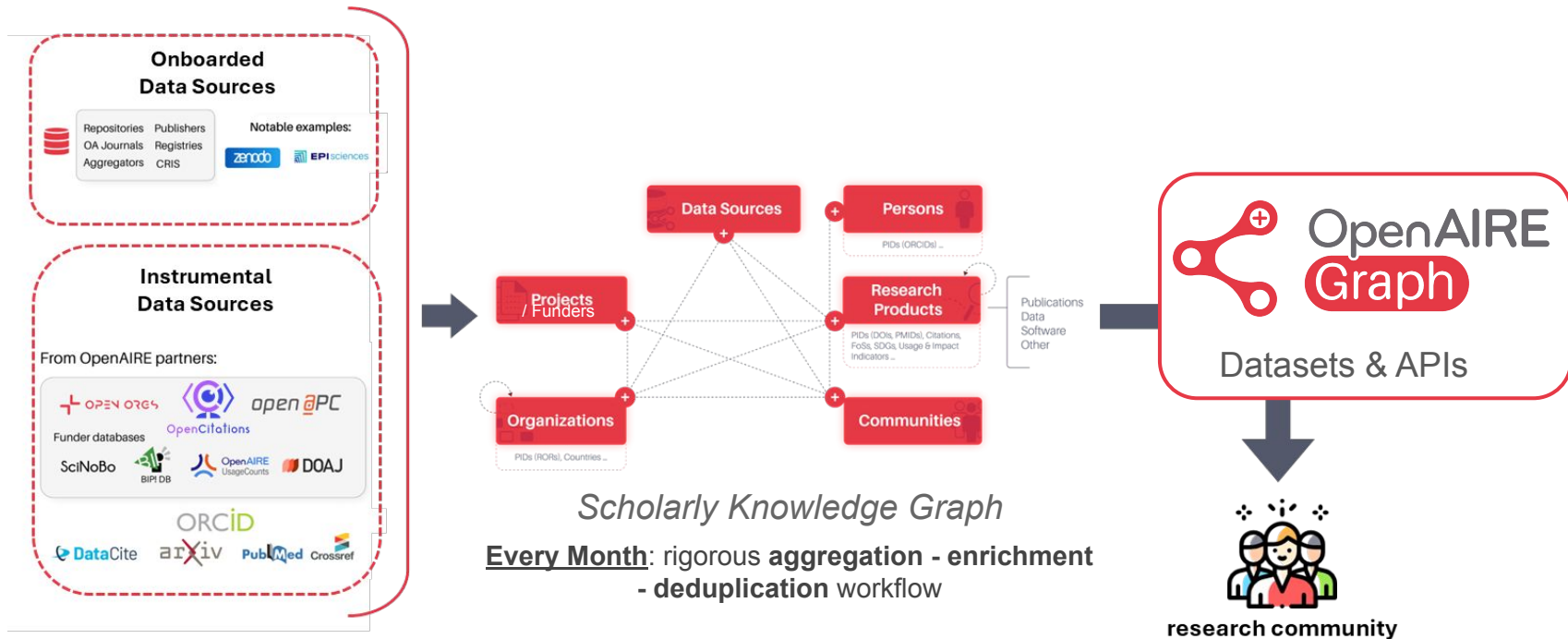
It provides the basis for the collaborative development of an integrated global network of open knowledge services



Its data is published under a Creative Commons CC0 Public Domain Waiver, and may be freely reused for any purpose, including commercial purposes



OpenAIRE Graph: a 360° view of research enabled by an interconnected ecosystem of research results.



How this supports responsible indicators and bibliometrics?



 graph.openaire.eu



The OpenAIRE Graph for responsible indicators and bibliometrics

317.6 M Research Products

PUBLICATIONS. DATA. SOFTWARE. +

Enriched. Deduplicated. Connected.



Diversity of scholarly objects with all meaningful links: citations, links between research products, links to grants, links from research products to organisations



Interconnected with global repositories and identifiers: ORCID, ROR, Crossref, DataCite ...



Enriched metadata for analysis: bibliometric data, OA status, APC, Field of Science, SDG alignment

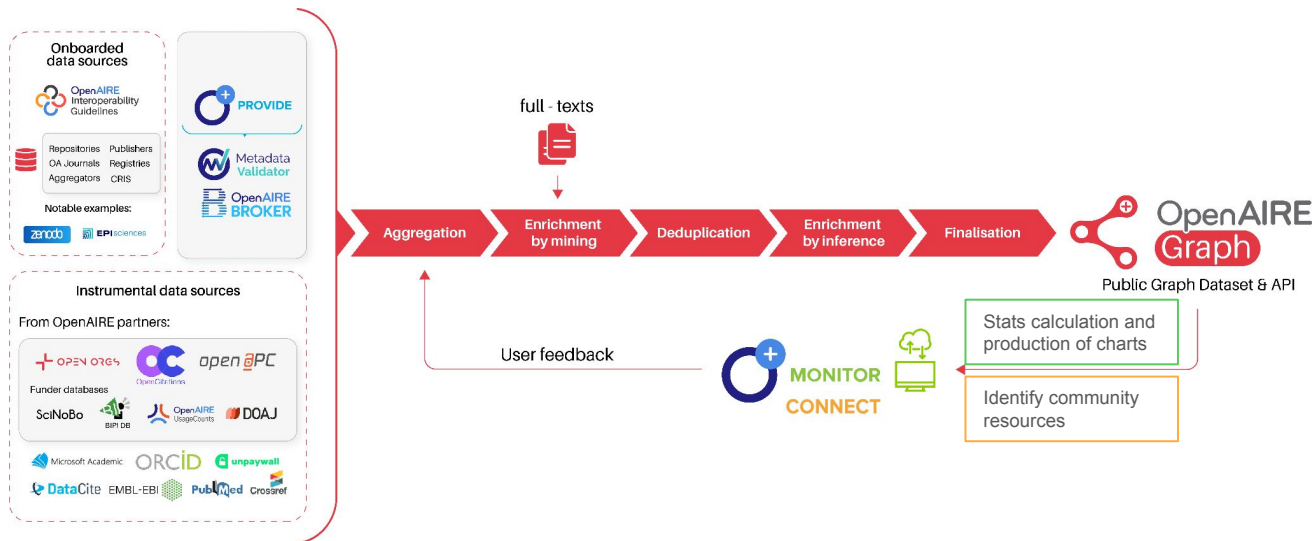


Open, community governed, FAIR-aligned

A globally relevant, European-rooted Open Science infrastructure

Used in EC's SRIP Report, OECD's Global Open Science Dashboard, EOSC and National/Funder/Institutional Monitors

Empower your research community with a gateway that does more than just showcasing outputs. Facilitate the discovery, connection, and linking of research products that matter most to you and your audiences. Transform your vision of Open Science into a tangible, operational reality.



1. Identify your community resources based on affiliations (e.g. Uni Alliances), research topics, ack statements (e.g. research infra) and showcase them with CONNECT
2. Monitor your community production and impact with MONITOR

Pick the indicators for your use case



Indicators to track different aspects of Open Science and impact

Global coverage

Well beyond traditional indicators about research articles: data, software, funding, policies

Open Science Impact Indicator Handbook

- **Open Science:** Practices are well-covered. **Training** and **policies** need better indicators
- **Academic:** Well-developed for traditional metrics, e.g., citations
- **Societal & Economic Impact:** Less developed and harder to measure
- **Reproducibility:** Challenging to measure. Some indicators under development

Academic Impact

Readership impact
Citation Impact
Collaboration intensity
Diversity
Extra-academic collaboration
Interdisciplinary

Economic Impact

Science-industry collaboration
Innovation output
Socially relevant products and services
Economic growth of companies
Labour market impact of Open Science
Cost savings

Societal Impact

Uptake in and impact on societal issues
Uptake by media
Scientific literacy
Uptake by policy makers

Reproducibility

Introduction to Reproducibility
Consistency in reported numbers
Impact of Open Code in research
Impact of Open Data in research
Inclusion in systematic reviews or meta-analyses
Level of replication
Polarity of publications
Reuse of code in research
Reuse of data in research



graspos

DESIGNING WHAT MATTERS: CO-CREATING OPEN SCIENCE DASHBOARDS

17 SEPTEMBER, 2025

CERN, GENEVA



A Comprehensive Framework for building a Researcher Profile

Highlight and promote researchers' achievements throughout their careers, evaluating their efforts both quantitatively and qualitatively



CUSTOMIZABLE

Flexible to accommodate diverse researcher needs and contexts



EXTENSIVE IN SCOPE

Capture a researcher's full range of contributions, not just traditional publication metrics



ALIGNED WITH REFORMS

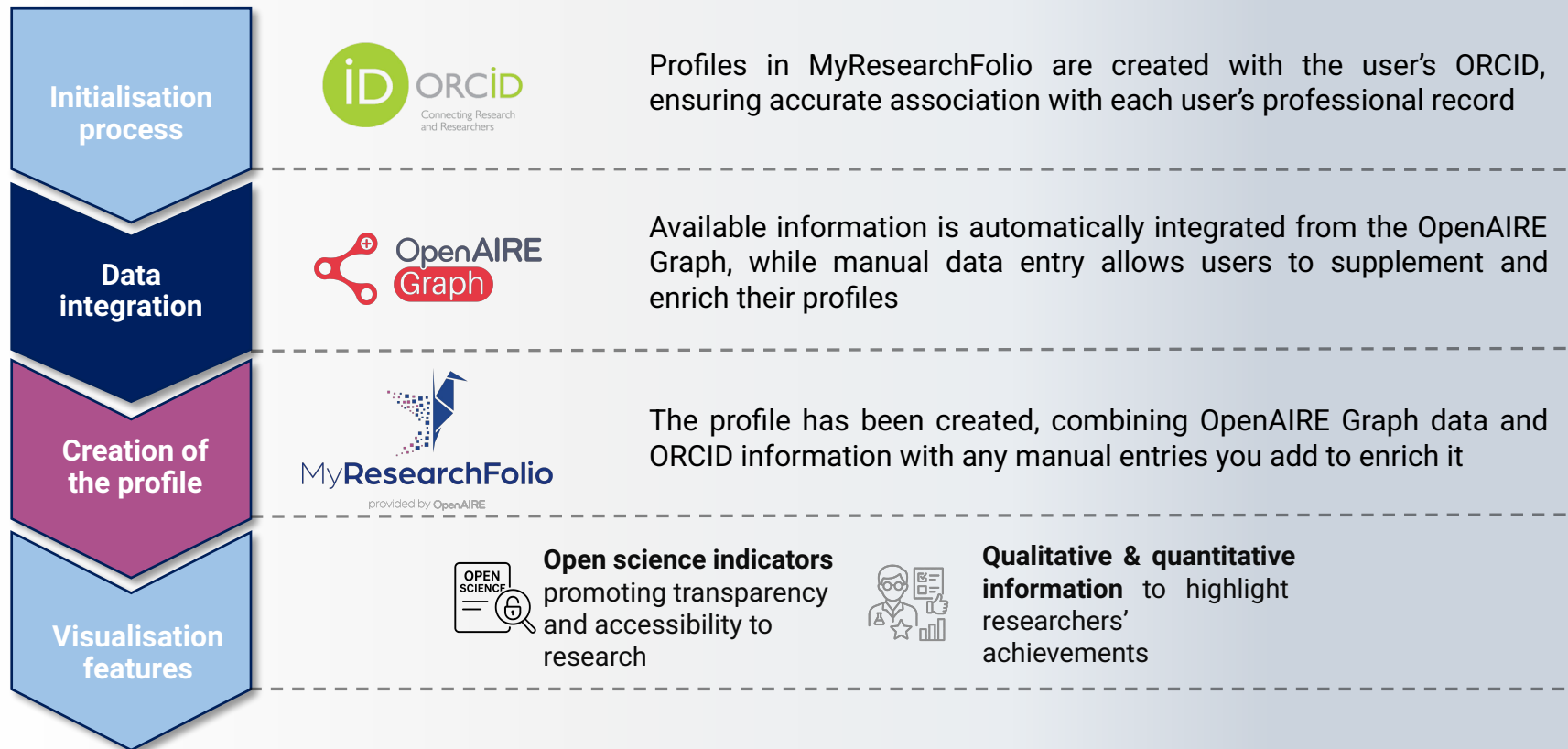
Support the implementation of Open Science and responsible research assessment



HOLISTIC

Provide a comprehensive view of a researcher's capabilities, skills, impact

A first peek into the current prototype of MyResearchFolio service





DEMO

You can visit our website by
scanning



www.openaire.eu



<https://www.linkedin.com/company/openaire-eu>

Let's divide in 3 Groups

Group Work Instructions

- Choose a role: researcher, institution, or funder
- Define the scope of the evaluation
- Select indicators
- Sketch a dashboard and build a short narrative around it

Design Your Dashboard Using the SCOPE Method

1. Start with what you value

- What do you want to reward or recognise?
- What behaviours, practices or outputs are important?

2. Consider the context

- Who are you? (researcher, institution, funder)
- What's the goal of your assessment?
(individual evaluation, strategy monitoring, funding decision...)

3. Explore options for indicators

- Choose some indicators
- Think: are they qualitative or quantitative?
- What kind of data would you need?

4. Probe deeply

- Are they fair and inclusive?
- What's missing? Could there be unintended consequences?

5. Evaluate and reflect

- How would this dashboard be used?
- Who is it for?
- What story does it tell?