



# National Open Access Monitor, Ireland

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# OpenAIRE strategy 2023-25

*Our commitment to facilitate OS*

## OUR VISION

Transform society through validated scientific knowledge and allow researchers, educators, funders, civil servants and industry to find ways to make science useful for themselves, their working environments and society.

## OUR MISSION

Shift scholarly communication towards openness and transparency, mobilising R&I actors to co-develop, co-invest and assume co-ownership of an open scholarly communication ecosystem.



### ACTION LINES

#### SERVICES

1. Make OpenAIRE infrastructure and services core elements in the Open Science ecosystem.

2. Develop sustainable and innovative business and process models for Open Scholarly Communication.

#### TRAINING

3. Develop and operate a hub of quality training material for open science.

4. Support a decentralised pan-European Open Science competence centre and Helpdesk.

#### POLICIES

5. Develop collaborative communities of practice that strengthen Open Science adoption through regional coordination.

### SUPPORTING ACTIONS

Partnerships

Participation in projects

Effective organisational structure




# 6 steps towards Open Science

- Adopting an Open Science Policy
- Link your repository, OA journals, CRIS to the world
- Publish research in the open
- Discover & share research with no barriers
- Monitor research outcomes, open science policy uptake, impact
- Train students, research and staff to perform Open Science

# NATIONAL OPEN ACCESS MONITOR, IRELAND

<https://oamonitor.ireland.openaire.eu/>

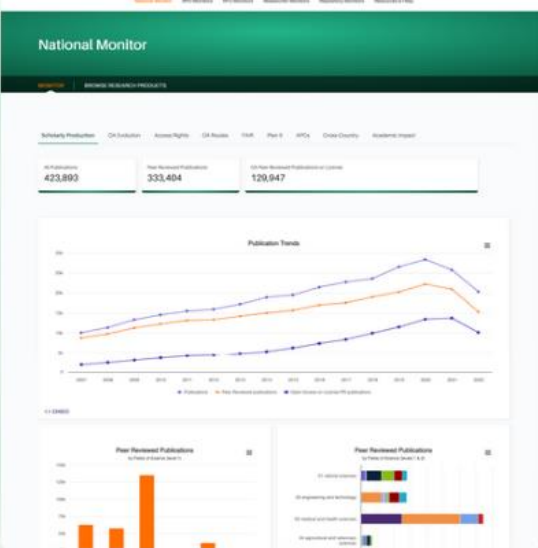
PILOT


National Open Access  
Monitor Ireland

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## Empowering 100% Open Access in Irish Scholarly Research

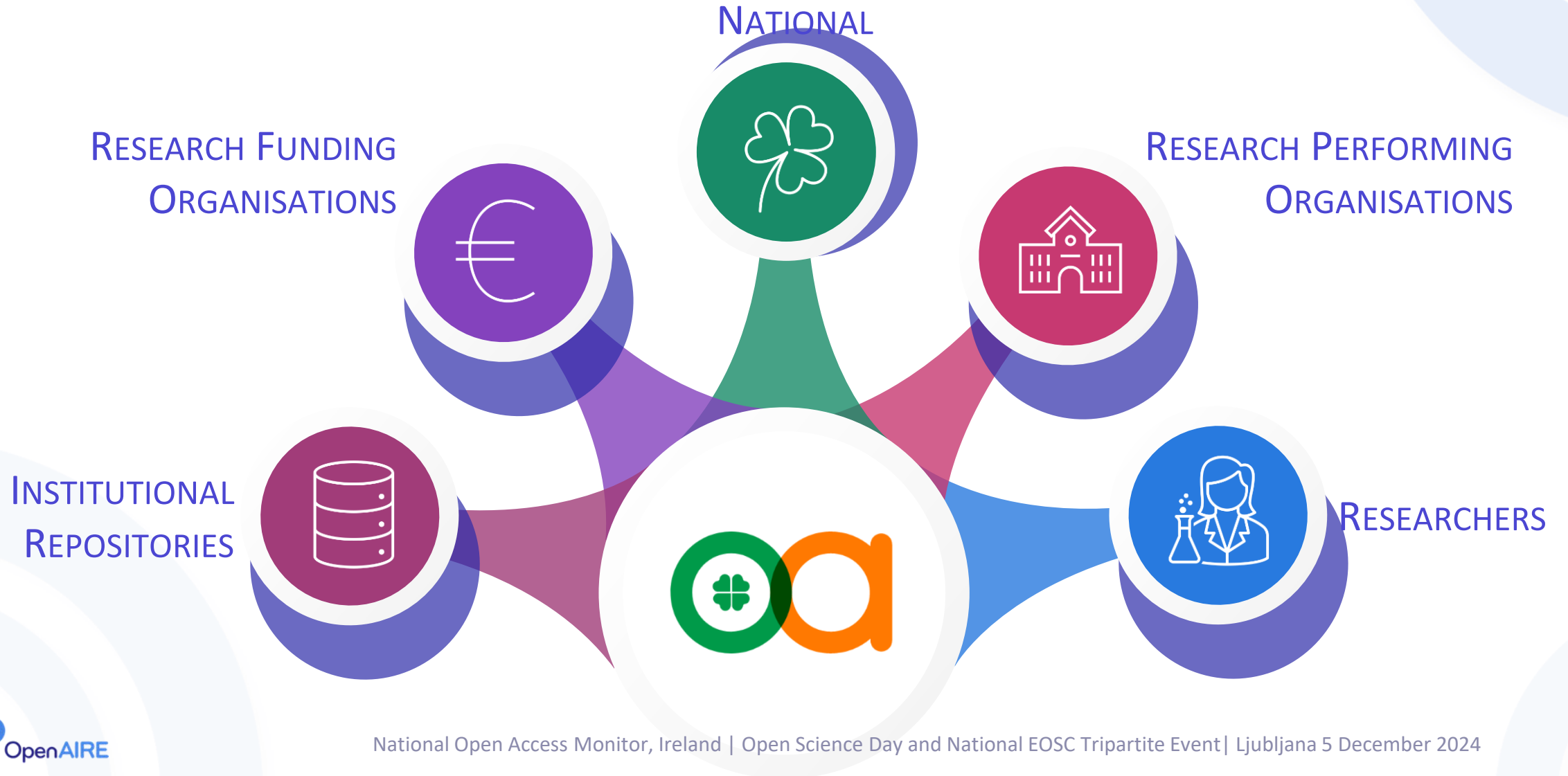


Enhance your approach to Open Science. Explore insights thoughtfully designed to support your strategy and contribute to the future of Irish Open Science. Our current pilot phase, aimed at enhancing data integrity and broadening functionality, continues until June 2024.

TAKE A LOOK

? HELP

# THE 5 MONITORS



# MISSION & OBJECTIVES

## National

- To provide transparent, comprehensive insights into the state of Open Access in Ireland.
- To serve as a crucial tool for analysing trends, identifying challenges, and guiding policy development and decision-making towards an open, accessible, and sustainable research environment.

## RPOs

- Establish national-level visibility for institutional research.
- Compare OA performance against peer institutions.
- Ensure compliance with Open Access mandates.
- Uncover weak spots and insights to guide evidence-based decisions.

## RFOs

- Benchmark against peers.
- Assess OA compliance.
- Monitor research impact.
- Shape strategic agendas.

# Methodology

## Openness & Transparency

- Use of transparent methodologies and open, public data. Adherence to FAIR principles and international standards to ensure trustworthiness, replicability, and public engagement.

## Comprehensive Coverage & Accuracy

- Use of OpenAIRE Graph's extensive data capabilities and collaboration with stakeholders for data representation and quality, aiming for the most comprehensive coverage and accurate, meaningful indicators.

## Readiness & Timeliness

- Leverage established open databases and tested knowledge extraction technologies like NLP/ML, using operational workflows in OpenAIRE for timely results.

# The Monitors

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## • Indicators Themes :

- Scholarly Output
- Historical snapshots (Monthly evolution in the share of OA)
- Access Rights
- Open Access Routes
- FAIR
- Plan S
- APCs
- Benchmark indicators (Cross-country, Cross-RPO/RFO)
- Academic Impact

## • Indicators Breakdowns:

- Research product type
- FoS
- SDGs
- Time
- Countries
- Data sources
- Funders
- ...

## • Exporting and Embedding functionalities

# Comprehensive insights into each RPO's/RFO's activities and OS performance

- **Indicators View**

- Highlighting **OA uptake** indicators, enables **cross RPO/RFO** benchmarking
- Offers detailed **breakdowns** and **filtering**

- **Research Outputs View**

- Facilitate **browsing**, standard and advanced **searching**, and **filtering**

- **Managers**

- **RPO/RFO**

- Access to the **Sandbox** to verify data quality, see new functionalities/indicators

- **RPO**

- Access to **OpenORGS** platform to deduplicate organization names (RPOs), set parent/child relationships



- Metrics and indicators on research output
- Detailed **breakdowns** and **filtering**
- **Browsing**, standard and advanced **searching**, and **filtering**

## Full Functionality for Repositories registered in OpenAIRE

- Access to OpenAIRE PROVIDE Service dashboard
  - Optional* Register, validate (including FAIRness checks), and enrich records (via OpenAIRE BROKER)
    - Pre-requisite to align with the OpenAIRE Guidelines
    - Enrich their records' metadata from other sources harvested by OpenAIRE
- Usage Counts Service activation
  - Enrichment of the dashboard with usage reports for views and downloads data

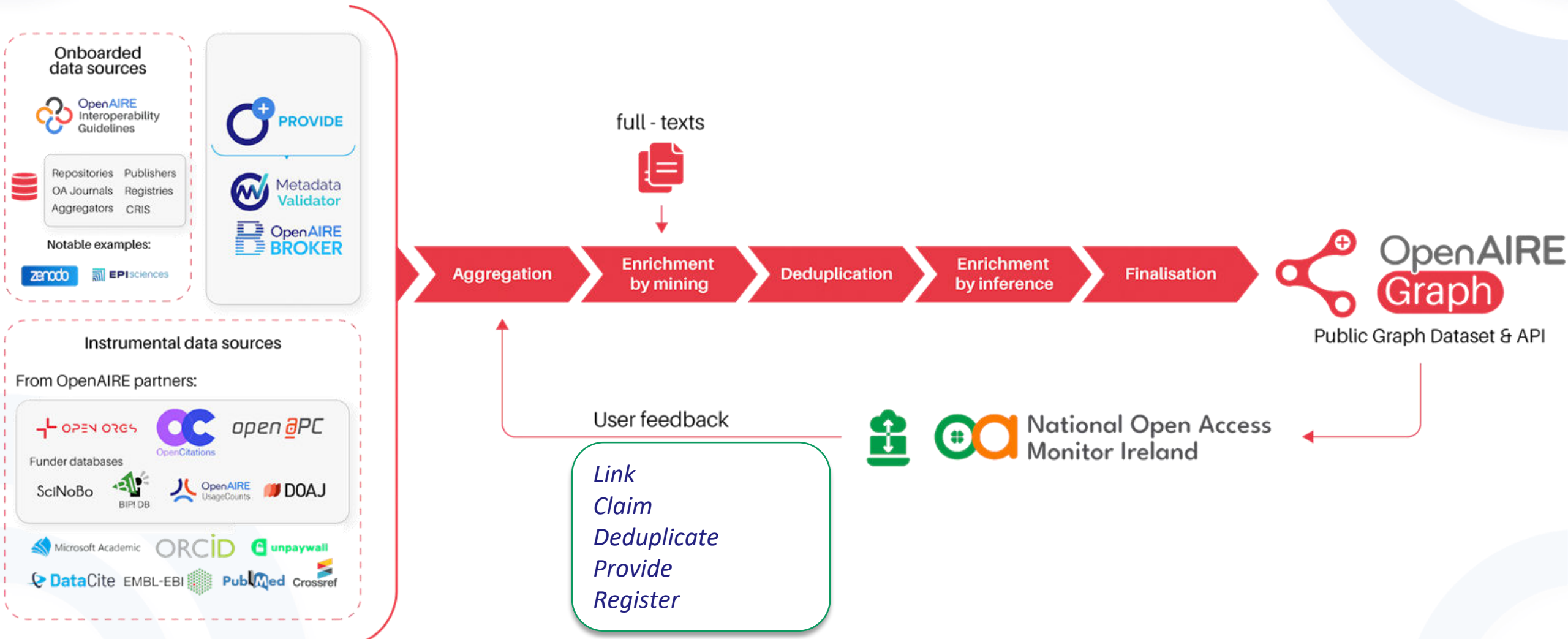
# DATA BACKBONE: THE OPENAIRE GRAPH

- **A Scientific Knowledge Graph**
  - Timely and comprehensive coverage of research outputs
  - ~141K data sources, 185 Funders, ~3,5M projects, and 193M publications, ~642K software, ~69M datasets, ~25M other research products)
  - Near monthly updates
- **Precision, depth & processing**
  - Rigorous cleaning, deduplication, and enrichment for optimal accuracy
  - Enriched metadata links: Research results to projects, author affiliations, and classifications (FoS, SDG)
  - Techniques for duplicate identification in addition to OpenAIRE's curation tools
  - Additional disambiguation of Journals, Publishers and Licenses
- **Robustness & openness**
  - Maintenance, load balancing, backups, overseen by the OpenAIRE technology centre
  - Open data & transparent methodologies
- More @ <https://graph.openaire.eu/docs/graph-production-workflow/>



[graph.openaire.eu](https://graph.openaire.eu)

# SEAMLESS INTEGRATION TO OPENAIRE AND EOSC



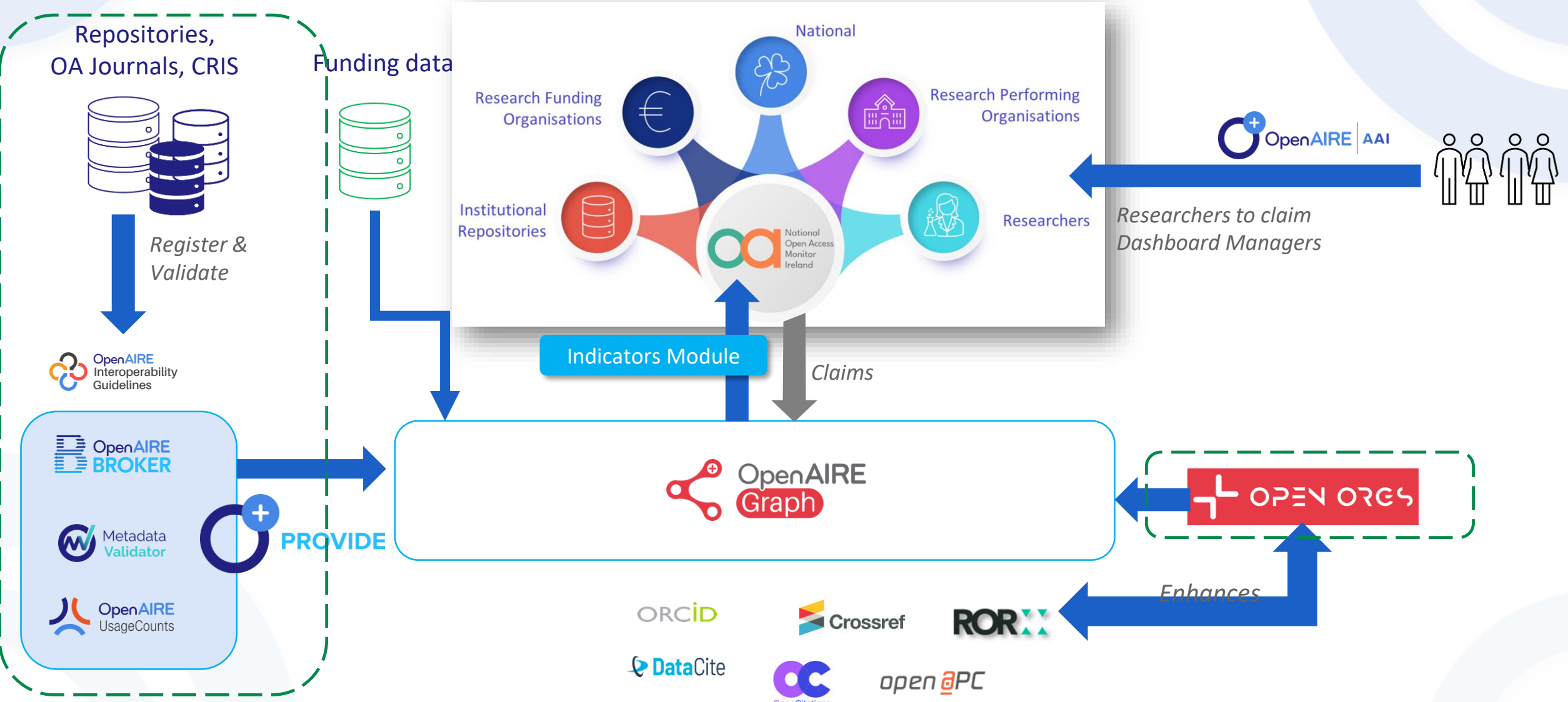
## DATA QUALITY

- **Deduplication:** OpenAIRE Graph merges duplicate records of the same scholarly work.
- **Enrichment through TDM:** affiliation, citation, and concept extraction with document classification (FoS, SDG) and similarity assessment
- **Cleaning:** Independent, continuous aggregation processes utilize vocabularies to harmonize diverse data source records, ensuring consistent and accurate bibliographic records.
- **Disambiguation:** Additional disambiguation of Journals, Publishers and Licenses
- More @ <https://graph.openaire.eu/docs/graph-production-workflow/>

# Additional Data Quality Enhancements for RPOs RFOs

- **All:**
  - via linking functionality
    - Enables users to associate **research outputs** with **projects**, **communities**, or **other outputs**, enhancing data representation in OpenAIRE Graph and the Monitor
  - add/update ORCID record
    - Claim additional **research outputs** -> sync with the ORCID profile and the OpenAIRE Graph.
- **RPOs:**
  - Deduplication via **OpenORGS**
  - Claim **affiliation** of a list of DOIs (Testing phase)
    - Enables dashboard managers to associate **research outputs** with their **institution**.
- **RFOs:** Provide Funding data for custom text mining
- **Repositories:** Follow OpenAIRE Guidelines & Register with OpenAIRE PROVIDE

# THE ARCHITECTURE



# TOWARDS A PRODUCTION QUALITY IRISH MONITOR

## Work in Progress

- Work closely with RPOs/RFOs on data quality
- Improve users' engagement
- Refine metrics and indicators - considering users' feedback
- Check and refine Repositories compatibility and aggregation
- Improve UI functionalities



**Thank you!**