Addressing FAIR metrics in EOSC
EOSC-A survey report & OSTrails pilots

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FAIR-IMPACT Roadshow: Greece |
Monday 18 November 2024

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EOSC Association Task Force:

FAIR Metrics & Digital Objects

EOSC-A FAIR Metrics (& Data Quality)

Harmonize FAIR (Findable, Accessible, Interoperable, Reusable) assessment and data quality within the European Open Science Cloud (EOSC).

DOI 10.5281/zenodo.10797765

Report on FAIR Evaluation community survey

March 8, 2024

DOI 10.5281/zenodo.10490289

Report on FAIR Signposting and its Uptake by the Community

January 11, 2024

DOI 10.5281/zenodo.7463421

FAIR Assessment Tools: Towards an "Apples to Apples" Comparisons

December 20, 2022

DOI 10.5281/zenodo.7390482

Community-driven Governance of FAIRness Assessment: An Open Issue, an Open Discussion

December 1, 2022

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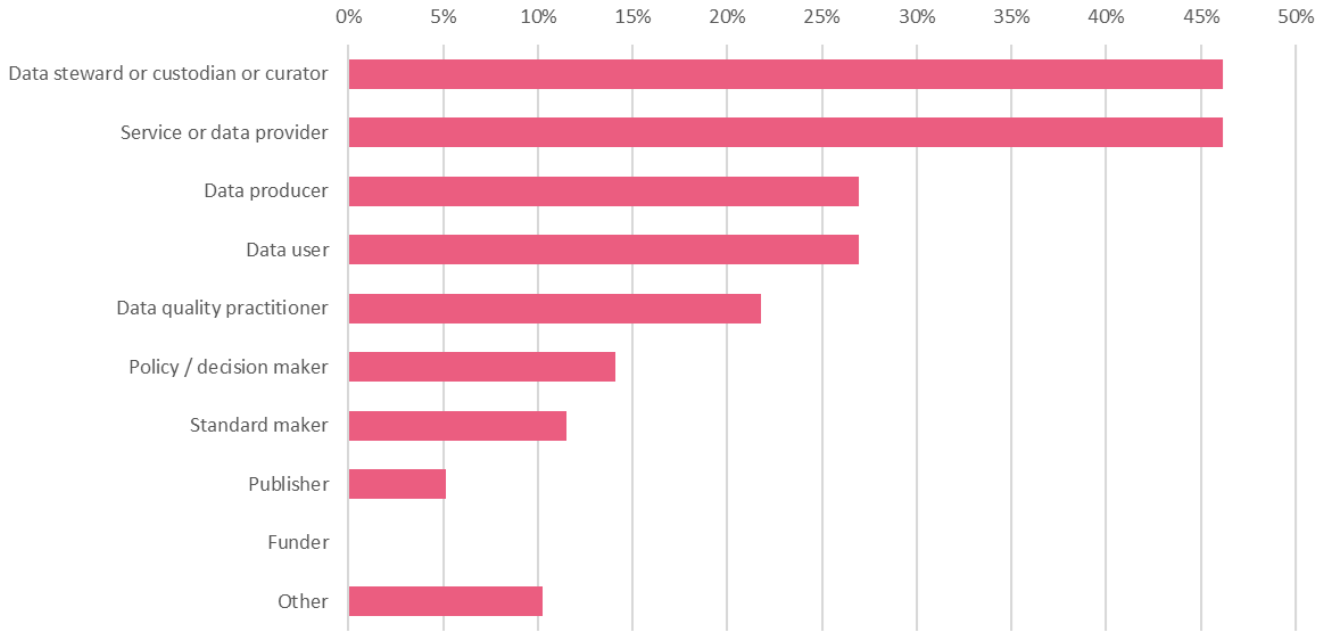
Scope & Coverage



Parallel TF activity supporting harmonization of FAIR assessment results and the establishment of community-led FAIR governance.

Survey conducted at the end of 2022/early 2023.

78 responses received, mainly from academia, representing various domains and organisational roles.

17 provided their input only about Governance.

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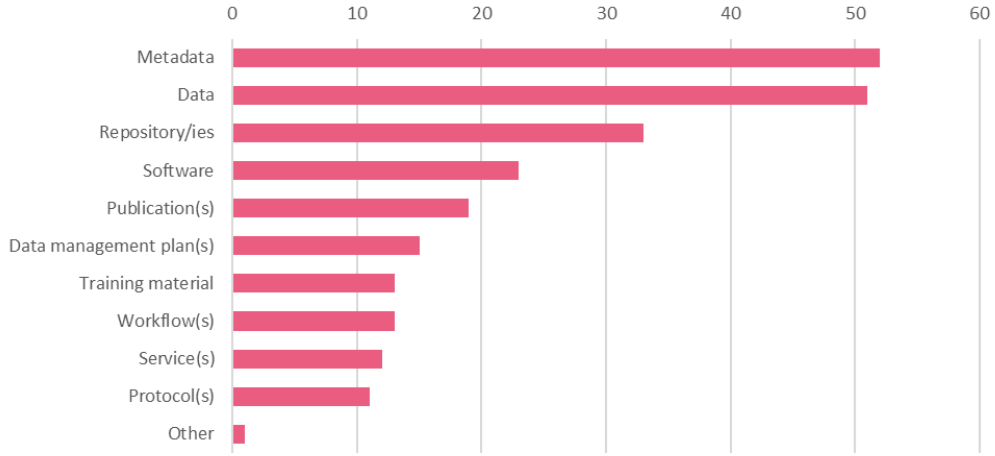
FAIR assessment behaviours & tools



73% assessed different outputs and artefacts

half of the respondents had used a tool to perform FAIR assessments; half of these had used multiple tools

FAIR data vs Data quality used interchangeably

More trust in their own assessments

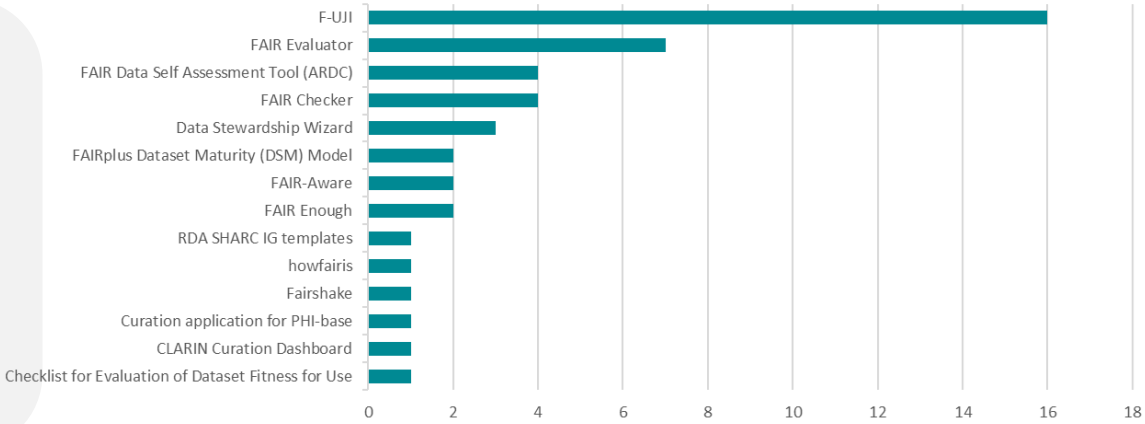
FAIR Maturity Model followed

Results are inconsistent between tools and/or assessments.

Self-assessments or automated

Quantitative and/or narrative results

Important: Missing answers from the tools providers.



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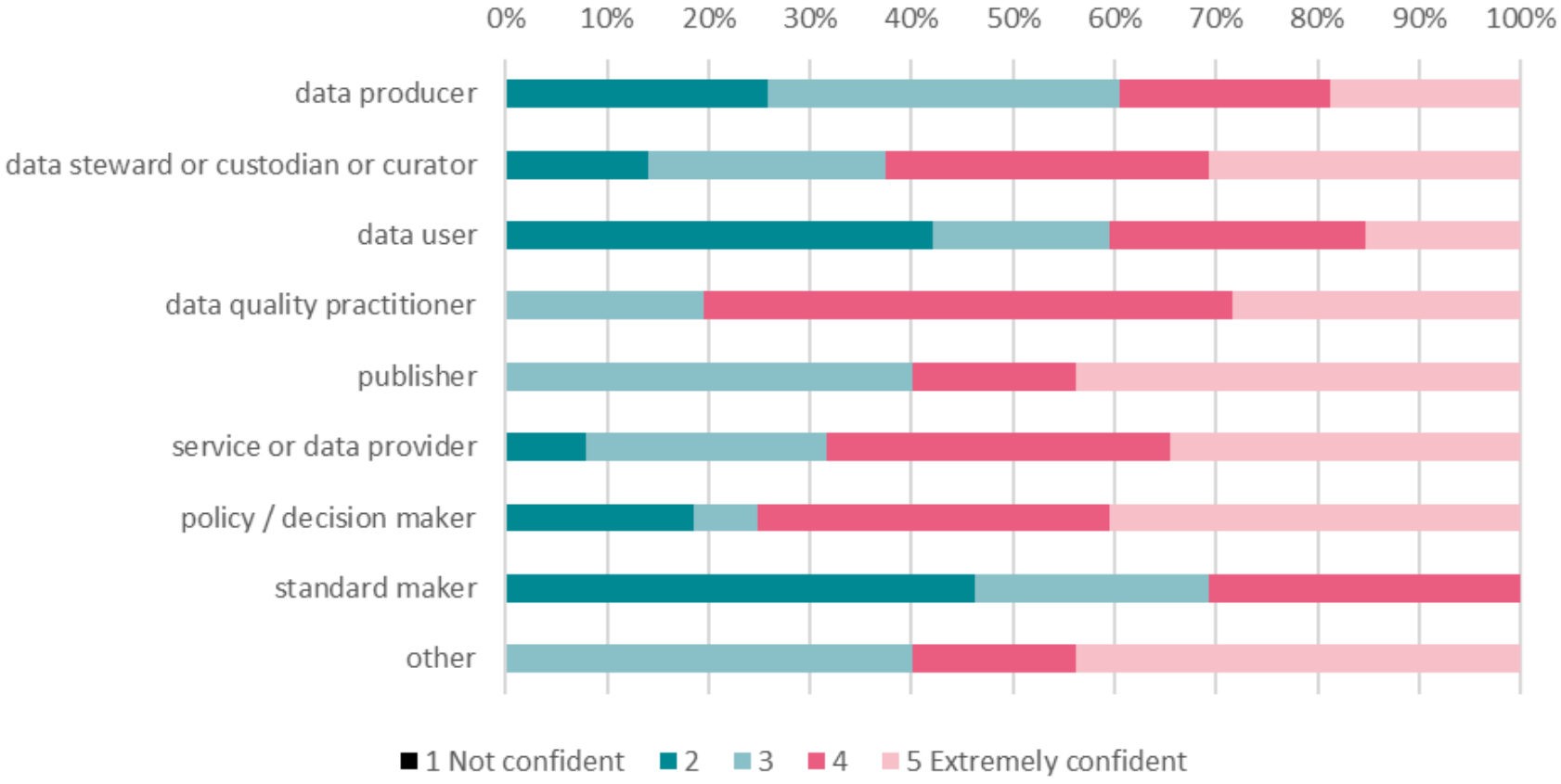
Confidence in the results



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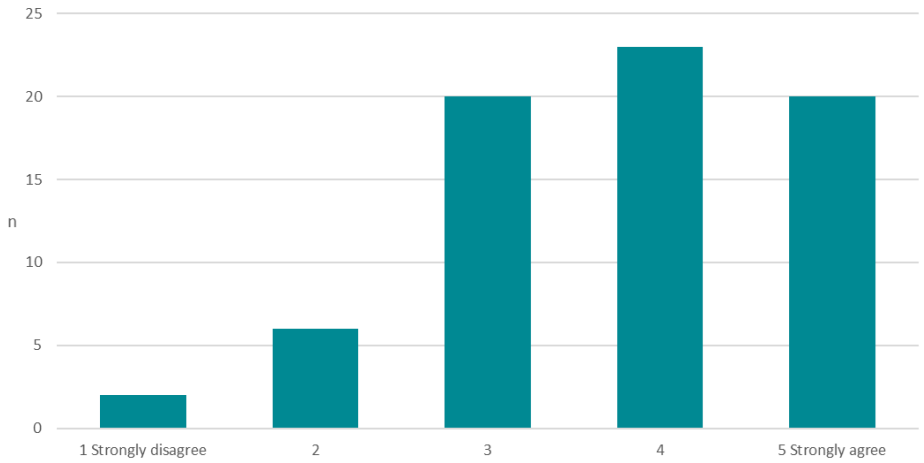
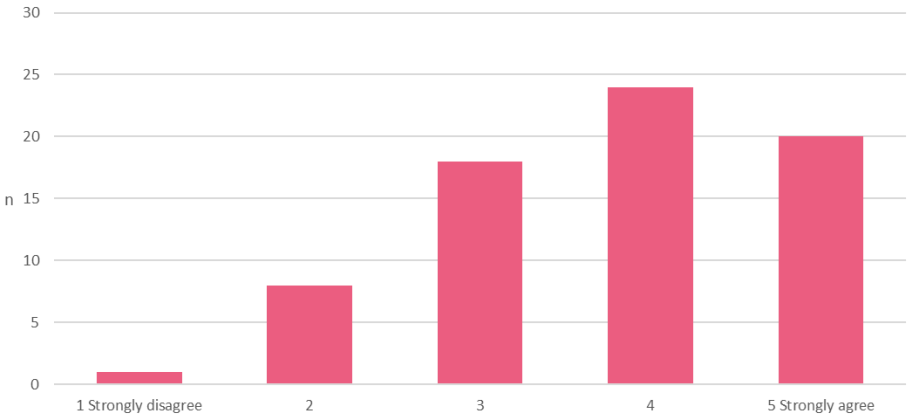
FAIR Governance

‘In your opinion, is FAIR Assessment Governance needed to assist in ensuring a common interpretation by FAIR assessment tools?’



‘Do you think that a Governance Body could support FAIR assessment activities?’



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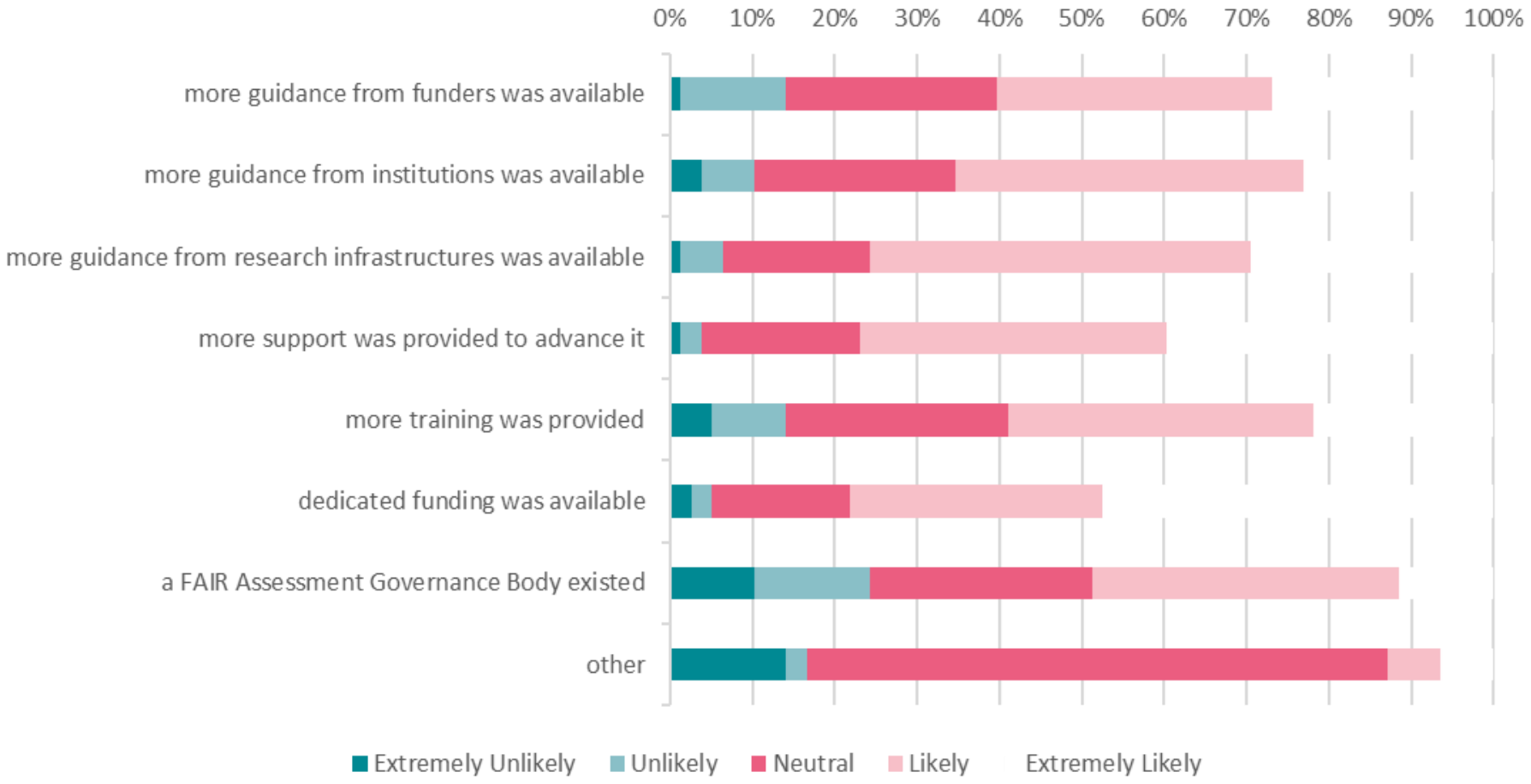
Incentives towards FAIR practices for assessment



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Recommendations

- Funders, institutions, and infrastructures to provide **adequate funding, support and guidance** for FAIR assessment.
- The community to define a **commonly agreed minimum set of guidance** and direction to assisting researchers (Governance Body?)

- The **tools to be transparent** of the assessment process followed and share the FAIR tests and results in a way that assists researchers.
- **Tool providers to collaborate** in developing benchmarks for EOSC.

- Collaborative **case studies** between scientific communities domains and tool providers to effectively implement FAIR principles across different domains.
- Clearly articulate and further promote the **differences and commonalities between FAIR Data and Data Quality**.
- **Align policies** and their evaluation with state-of-the-art capabilities - FAIR assessments today are mature at the level of the metadata.

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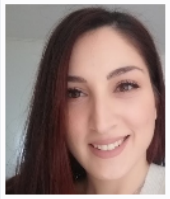
EOSC-A FAIR Metrics & Digital Objects

57 Members!

Co-chairs



Elli Papadopoulou
Athena RC

Mark Wilkinson
UPM

- Develop and refine **FAIR metrics** for digital objects to enhance their Findability, Accessibility, Interoperability, and Reusability.
- Focus on improving interoperability and reuse across **multidisciplinary research outputs** in the EOSC ecosystem.

Forthcoming (2025):

"Report on Repository Support for Data-Level Interoperability/Reusability"

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Open Science Trails:

Steps towards FAIRness, interconnectivity and machine actionability across research phases

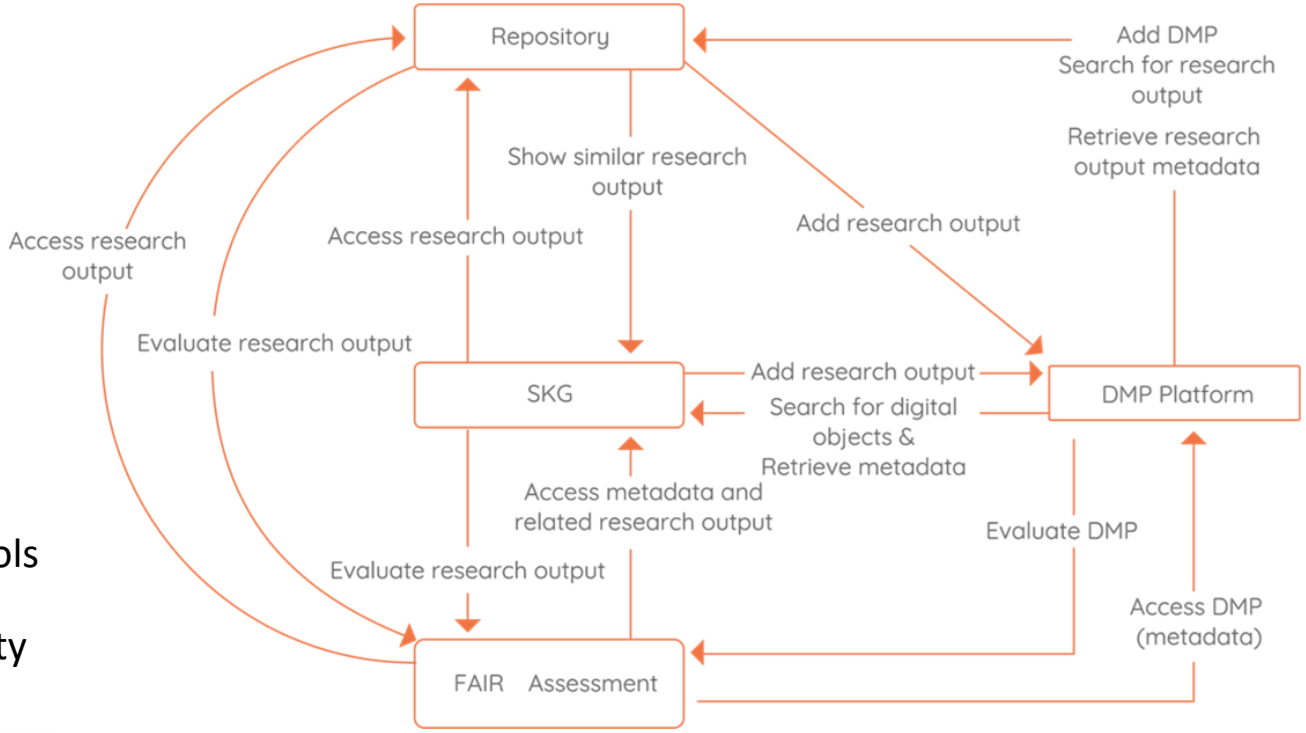
PTA Framework

A high-level, tool-independent framework that outlines how researchers, research managers, funders **plan-track-assess** the management of digital objects in alignment with the FAIR principles.

PLAN: Focuses on enhancing Data Management Plans' creation and integration with SKGs and other services.

TRACK: Aims to improve monitoring and quality of research outputs' FAIRness using Scientific Knowledge Graphs (SKGs).

ASSESS: Emphasizes comprehensive evaluation tools for DMPs and FAIR research outputs, ensuring compatibility with SKGs and other services.



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Pilots

15 national - 8 thematic - 1 paneuropean

Fit-For-Purpose

- **Co-design** the interoperability frameworks (more than 70 tools) : our starting point for DMPs is the **RDA DMP Common Standard**
- **Implement** changes on local services to align with proposed IFs: Common API, extensions to maDMPs, crosswalks between metadata schemas

Find out more details in our Newsletter!

OSTrails

Coordinator

Hellenic Academic Libraries Link
HEAL LINK
Σύνδεσμος Ελληνικών Ακαδημαϊκών Βιβλιοθηκών

Members

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ATHENA Research & Innovation Information Technologies

- **Develop** maDMP templates
- **Extend HEAL-Link** repositories for archiving maDMPs
- **Create** qualified references between archived DMPs and publications
- **Interoperate** HARDMIN with the OpenAIRE Graph
- **Co-define** FAIR metrics for funders, institutions and research communities
- **Assess** FAIRness of deposited outputs
- **Co-define** DMP evaluation criteria

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Walking the pathways together

15

References

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