Steps towards FAIRness, interconnectivity and machine actionability across all research phases



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Outline

- Overview of the OSTrails project
- Draft IFs for SKGs, DMPs and FAIR & proposed extensions
- Reference Implementations by pilots
- Next Steps: towards "Commons"





Definition

In OSTrails: an SKG is defined as any database/repository with information pertaining to research products, process and actors & agents which is able to present a graph type view on this information via a suitable API.



Today's limitations

DMPs

- No evidence of better RDM or FAIRer results
- DMPs not published or FAIRified
- Uncertainty of the process
- DDPs pending adoption

maDMPs

Describes DMP entities and their links with outside sources

SKGs

- Mostly for bibliometrics & discovery
- Isolated
- Quality issues
- Depth of knowledge in communities

maDOs

Describes elements of digital objects and links with other resources (qualified references)

FAIR

- Policy vs Implementation
- Inconsistent results between tools
- No FAIR assessment schema
- FAIR vs Data Quality

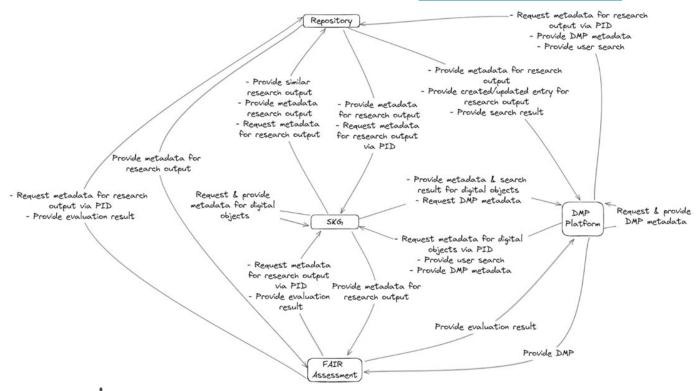
maFAIRTests

Describes community FAIR rules for each element in DOs to assess its overall FAIRness



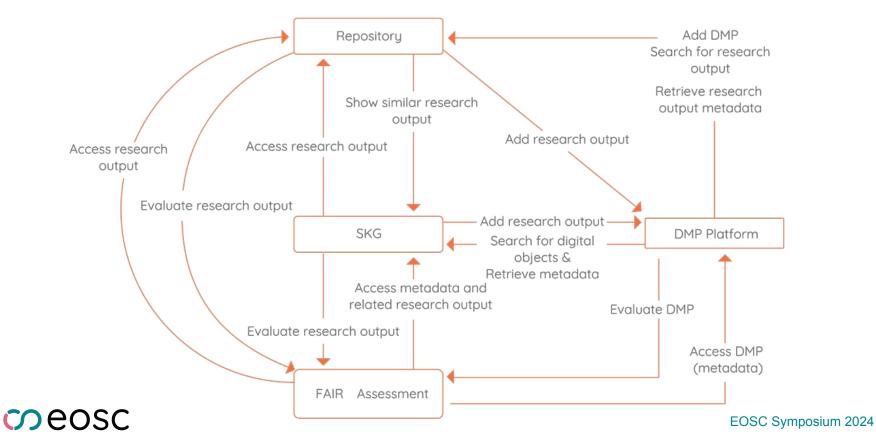
Pathways

Tools Actions

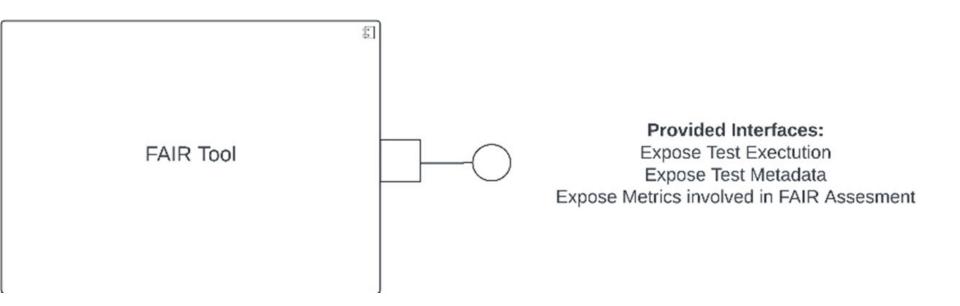




Plan-Track-Assess Framework



Draft Interoperability Frameworks





Pilots - Reference Implementations

- Expose data according to SKG-IF
- Enhance SKG-IF with new entities and semantics, incl. qualified references
- Quality of data: resource types & annotations
- Rich metadata









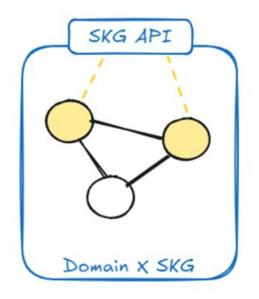


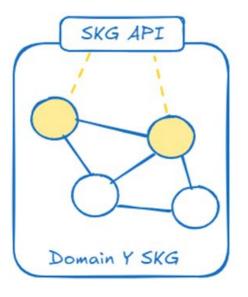






OSTrails Commons















































































Walking the pathways together













