FAIR, CARE, TRUST Pathways:

- Principles
- Adoption, Implementation, and Deployment

SEMANTICS, ONTOLOGY & STANDARDISATION

Research Software
THIS PATHWAY IS ABOUT...

Practices and policies to make software open and FAIR.

**RDA 21st PLENARY SESSIONS**

- Breakout 1: Software Source Code IG: Mastering the Art of Research Software Metadata and Metrics
- Breakout 4: FAIR for Machine Learning (FAIR4ML) IG: Building towards FAIR for Machine Learning
- Breakout 6: Birds of a Feather: Collecting and Managing Data from Citizen Science Research Projects

**RELEVANT OUTPUTS & RECOMMENDATIONS**

- 10 Things for Curating Reproducible and FAIR Research
- A Fresh Look at FAIR for Research Software
- A Survey on Adoption Guidelines for the FAIR4RS Principles
- Array Database Assessment Recommendations
- Challenges of Curating for Reproducible and FAIR Research Output
- Defining Research Software a controversial discussion
- FAIR Principles for Research Software (FAIR4RS Principles)
- FAIR4RS Adoption support
- Summary of Virtual Layer Recommendations
- The FAIR4RS Team Working Together to Make Research Software FAIR
- Top 10 FAIR Data & Software Things
- Use cases and identifier schemes for persistent software source code identification (V1.1)

**RELEVANT RDA GROUPS**

- FAIR Digital Object Fabric IG
- FAIR for Research Software (FAIR4RS) WG
- FAIR for Virtual Research Environments WG
- RDA-COVID19-Software
- RDA/WDS Scholarly Link Exchange (Scholix) WG
- Reproducibility IG
- Software Source Code IG
- Virtual Research Environment IG (VRE-IG)
- FAIR for Machine Learning (FAIR4ML) IG

**RELEVANT OUTPUTS & RECOMMENDATIONS CONT.**

- FAIR4RS Adoption support
- Summary of Virtual Layer Recommendations
- The FAIR4RS Team Working Together to Make Research Software FAIR
- Top 10 FAIR Data & Software Things
- Use cases and identifier schemes for persistent software source code identification (V1.1)

**Celebrate a Decade of Data...**

Read more about the RDA's 10th Anniversary & see the event and activity series.
Research Software
About: Practices and policies to make software open and FAIR.
4 sessions: 2 IGs, 2 BoFs

With Summary/Takeaways

BO1: IG Software Source Code IG: Mastering the Art of Research Software Metadata and Metrics

BO6: BoF - Policies for Advancing Research Software in Research Performing Organisations

Report in other pathway:

BO4: IG FAIR for Machine Learning (FAIR4ML) IG: Building towards FAIR for Machine Learning

Without Summary/Takeaways:

BO6: BoF - Collecting and Managing Data from Citizen Science Research Projects
The session updated community efforts and the FAIR4RS WG output (in maintenance). Participants learned about the FAIR-IMPACT project and the two outputs: Research Software Metadata Guidelines (RSMD) and Software Metrics.

- The community is in need for guidelines regarding metadata for software, a possibility would be to adopt the RSMD guidelines as approved by the RDA Software Source Code IG
- Metrics is a challenge for software and should be treated carefully, the community is supporting the usage of metrics as an internal process but not for evaluation and or in funding proposals
- Identifying community collaborations with the infrastructures that cater to RS and provide the metadata functionalities to implement the RSMD guidelines

The session's discussions were around the understanding and recognition of research software as scientific output.

- Insights reveal that only 30% or organisations have some policy framework.
- A strong consensus on the importance of a collective approach to policy development, ensuring that policy efforts are complemented by adequate infrastructure, and technology, to facilitate implementation.
- Gather community comments from the group discussion to refine and improve the case statement (1 year commitment).
- Encourage participants to join the Working Group (WG).
Common themes

- A community need for guidelines regarding metadata for software
- The importance of a collective approach to organisational policy development on research software
  - The necessity for infrastructure and technology to support policy implementation
- Defining case statements, encouraging participation in Working Groups, and gathering comments from discussions;