RDA in a nutshell and why RDA is important?

RDA meets researchers in Estonia, 8 November 2017, Tartu

Irina Kupiainen
irina.kupiainen@csc.fi
Twitter: @IrinaKupiainen
If you answer YES, you are at the right place!

- Do you have to access files, which forma(s) you don’t know?
- Are you uncertain on metadata standards directory?
- Do you want to share your data but you are uncertain how?
- How should data resources be referenced through persistent identifiers?
- How to best define practices of how to deal with data automatically and in a documented way with computer actionable policy?
- Do you want to understand how data fits into Open Science?
- You want to meet the best people in data management and data re-use at the RDA Plenaries?

HTTPS://RD-ALLIANCE.ORG/ - HTTPS://TWITTER.COM/RESDATALL
Strong linkage to the European Open Science Cloud (EOSC)

THE EUROPEAN OPEN SCIENCE CLOUD (EOSC) AIMS TO ACCELERATE AND SUPPORT THE CURRENT TRANSITION TO MORE EFFECTIVE OPEN SCIENCE AND OPEN INNOVATION IN THE DIGITAL SINGLE MARKET.

EOSC Declaration 26.10.2017 is now online.
https://ec.europa.eu/research(opens in new tab)/openscience/index.cfm?pg=open-science-cloud
Vision

Researchers and innovators openly share data across technologies, disciplines, and countries to address the grand challenges of society.

Mission

RDA builds the social and technical bridges that enable open sharing of data.
What is RDA?

RDA is an international member based organization focused on the development of infrastructure and community activities that reduce barriers to data sharing and exchange, and the acceleration of data driven innovation worldwide.

With more than 6,100 members globally representing 130 countries, RDA includes researchers, scientists and data science professionals working in multiple disciplines, domains and thematic fields and from different types of organisations across the globe.

RDA is building the social and technical bridges that enable open sharing of data to achieve its vision of researchers and innovators openly sharing data across technologies, disciplines, and countries to address the grand challenges of society.
What does RDA do?

Members come together through self-formed, volunteer, focussed Working Groups, exploratory Interest Groups to exchange knowledge, share discoveries, discuss barriers and potential solutions, explore and define policies and test as well as harmonise standards to enhance and facilitate global data sharing & re-use.

RDA members collaborate together across the globe to tackle numerous infrastructure & data sharing challenges related to:

- Reproducibility
- Data preservation
- Best practices for domain repositories
- Legal interoperability
- Data citation
- Data type registries
- Metadata
- and so many more!
RDA Recommendations that make data work

“Create - Adopt - Use”

✓ Adopted code, policy, specifications, standards, or practices that enable data sharing

✓ “Harvestable” efforts for which 12-18 months of work can eliminate a roadblock

✓ Efforts that have substantive applicability to groups within the data community but may not apply to all

✓ Efforts that can start today

18 flagship recommendations & outputs with over 75 cases of adoption in different domains, organisations and countries
RDA Recommendations & Outputs

THE RDA OUTCOMES LEGEND

**Recommendations:** are the flagship outputs of RDA. They are RDA’s equivalent of the “specifications” or “standards” that other organisations create and endorse. The process for creating and endorsing these is already defined.

**Supporting Outputs:** are the outputs of RDA WGs and IGs that are fruit of RDA work, but are not necessarily adoptable bridges. “Upon request”, these sort of outputs go through a community comment period and if no major objections or gaps are identified they get the RDA Brand.

**Other Outputs:** include workshop reports, published articles, survey results, etc. Anything a WG or IG wants to register and report. Upon request, these are published and discoverable on the RDA website but have no level of endorsement.
Who Can Join RDA?

Any individual or organization, regardless of profession or discipline, with an interest in reducing the barriers to data sharing and re-use and who agrees to RDA’s guiding principles of:

- Openness
- Consensus
- Balance
- Harmonization
- Community-driven
- Non-profit and technology-neutral

Individual Membership is free @ https://www.rd-alliance.org/user/register
Why Join RDA as an Individual Member?

Individual Member Benefits

- **Contribute** to acceleration of data infrastructure development
- Work and **share experiences** with collaborators throughout the world
- **Access** to extraordinary network of colleagues with various levels of experience, perspectives and practices
- Gain greater **expertise** in data science regardless of whether one is a student, early or seasoned career professional
- **Enhance** the quality and effectiveness of personal work and activities
- **Improve** one’s competitive advantage professionally and positioning oneself for leadership within the broader research community

Individual RDA Members 6,193
Total RDA community members 6193

130 Countries

RDA worldwide growth

North America 31%
Europe 50%
Asia 9%
Africa 4%
Oceania 5%
South America 2%
Who is RDA?
Why Join RDA as an Organisational Member?

Organisational Member Benefits

- Provide an *organizational perspective* on the work of RDA and ability to influence RDA’s direction
- Assist in *implementation & adoption* of RDA Recommendations & Outputs
- Participate in all RDA Organizational Forums
- Receive regular *updates* on the work of the RDA
- Attend Organizational Assembly meetings and vote on *proposed policies* for consideration by the RDA Council and for members of the Organizational Advisory Board
- Provide *advice to RDA Council* through the Organizational Advisory Board
- Be recognized on the RDA Website and at RDA Meetings as a *supporter of data interoperability*

43 Organisational & 8 Affiliate Members
Organisational & Affiliate Members

43 Organisational Members

8 Affiliate Members

rd-alliance.org/get-involved/organisational-membership

WWW.RD-ALLIANCE.ORG
@RESDATAALL

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Call for Supporting and Other RDA Outputs

If your group has produced something that you would like to share with the broader community, please send it to enquiries@rd-alliance.org and indicate whether you would like it to be considered as a ‘Supporting’ or ‘Other’ output.

https://rd-alliance.org/call-supporting-and-other-rda-outputs
RDA Plenaries
What are Plenary Meetings?

Organised around the world every 6 months

exciting & productive events bringing together a unique community of data science professionals, from multiple disciplines and domains;

help move the community forward in creating tangible deliverables that improve data sharing across disciplines, technologies, and countries;

heart of the plenaries are working meetings of RDA Working & Interest groups and new potential groups through Birds of a Feather meetings

presentation of new Outputs and Adoption cases
Over 430 participants from 30 countries

Increased female participation 44% the highest so far

73 Breakout meetings of which 14 Working Groups of which 37 Interest Groups of which 6 Joint Working & Interest Groups of which 16 Birds of a Feather 6 Outputs presented / 1 Final Release 60 Posters
Moving Towards Plenary 11: Berlin!

RDA
11 PLenary
Meeting
21-23 March 2018
Berlin, Germany

From Data to Knowledge

To find out more visit: https://www.rd-alliance.org/plenaries/rda-eleventh-plenary-meeting-berlin-germany
RDA Compliance with Requirements for ICT Technical Specifications

Openness: RDA WG processes & procedures are public & completely open

Consensus: foundation upon which RDA is built
• All processes and procedures, in connection with focus, work plans, deliverables, milestones & tangible specifications / recommendations are consensus based.
• WG work plans, activities & outputs go through an open & transparent public community review process in addition to feedback provided by RDA Technical Advisory Board and Council.

Transparency: all information available, balance and harmonisation ensured and all feedback considered and responded to.

https://rd-alliance.org/working-and-interest-groups/group-process-procedures.html
RDA Compliance with Requirements for ICT Technical Specifications

✓ (a) maintenance
✓ (b) availability
✓ (c) intellectual property rights
✓ (d) relevance
✓ (e) neutrality and stability
✓ (f) quality

MAIN TARGET MARKET:
- Service Providers
- Data Providers
- Repositories
- E- & Research Infrastructures
- SW Developers
- Data Scientists
- Researchers & Scientists

Open information exchange & involvement of all interested categories are at the core of RDA’s vision of an open, global, collaborative science. RDA adopts a consultative approach involving all relevant actors to spur international collaborations necessary to address the global challenges.

https://rd-alliance.org/
RDA & first 4 Technical Specifications approved

The Basic Vocabulary of Foundational Terminology and Query Tool - produced by the Data Foundation & Terminology WG which ensures researchers use a common terminology when referring to data.

The Data Type Model and Registry published by the Data Type Registries WG providing machine-readable and researcher-accessible registries of data types that support the accurate use of data.

The Machine Actionable Policy Templates produced by the Practical Policy WG designed to support data sharing and interchange between communities.

The Persistent Identifier Type Registry produced by the PID Information Types WG, a conceptual model for structuring typed information to better identify PIDs, common interface for access to this information.
Next 5 Technical Specifications under evaluation

- **TS5:** Dynamic-data Citation Methodology  Supports efficient processing of data and linking from publications.

- **TS6:** Data Description Registry Interoperability Model: Interoperability model addressing the problem of cross platform discovery by connecting datasets together.

- **TS7:** RDA/WDS Repository Audit and Certification Catalogues: Creates harmonized Common Procedures for certification of repositories at the basic level, drawing from the procedures already put in place by the Data Seal of Approval (DSA) and the ICSU World Data System (ICSU-WDS)

- **TS8:** RDA/WDS Workflows for Research Data Publishing Model: A data-publishing reference model assisting research communities in understanding options for data publishing workflows and increases awareness of emerging standards and best practices.

- **TS9:** RDA/WDS Publishing Data Services: An open, universal literature-data cross-linking service to improve data visibility, discoverability, re-use and reproducibility
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