The Research Data Alliance and Data Opportunities for Libraries

National Library of Ireland, 14th January 2019
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“emergence of data intensive science and data management mandates extended to traditional libraries”
Today’s specials ...

- RDA in a nutshell
- Librarians, Archivists & Information Service professionals in RDA
- Value of RDA to Libraries and Value of Libraries to RDA
- RDA Outputs for Libraries
- Getting involved
Ambitious ... but not impossible

The RDA Vision

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

The RDA Mission

Build the social and technical bridges that enable open sharing and re-use of data.
Realistic ... actually happening

The RDA Approach:

to further research innovation, efficiency and reproducibility by identifying and facilitating socio-technical best practices and standards for research data, tools and infrastructure. These will advance solutions to Grand Challenges and the UN Sustainable Development Goals.
Social and Technical Infrastructure ... or enterprise

International and local
Technical and Social

As relevant now as it was in 2013

Toward Information Infrastructure Studies: Ways of Knowing in a Networked Environment by Geoffrey C. Bowker, Karen Baker, Florence Millerand, and David Ribes
Designed and developed by the Community ... for the community

- Multi, cross- and inter-disciplinary
- Grass roots approach
- Neutral social platform
The heart of RDA

Working Groups
- develop and implement tools, policy, practices & products for data management that are adopted and used by projects, organisations, communities
- TIMING: 12-18 MONTHS
- TOTAL: 35 Working Groups

Interest Groups
- focus on solving a specific data sharing problem and identifying what kind of infrastructure needs to be built.
- TIMING: as long as group is active
- TOTAL: 66 Interest Groups

RECOMMENDATIONS: Concrete deliverables - “Running code”, tools, standards, etc.

OUTPUT: Possibly case statements for new WGs, guidelines, best practice, etc.
A menu of sorts ...

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<th>Classification</th>
<th>WGs</th>
<th>IGs</th>
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<td>Partnership Groups</td>
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<td>Reference &amp; Sharing</td>
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<td>Total RDA Groups</td>
<td>35</td>
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RDA Working & Interest groups

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Wheat Data
Interoperability WG
Who is the Research Data Alliance?

What type of data professionals make up the RDA community and where do they come from?
7,700 RDA members come from 137 different countries (145 from Ireland)
12\% RDA community are librarians (893)
RDA Organisational Type

![Organisation Type Chart]

- 67.6% Academia/Research
- 14.1% Government/Public Services
- 5.3% Small and Medium Enterprise
- 5.3% Other (please specify) - obligatory
- 5.3% IT Consultancy/Development
- 5.3% Large Enterprise
- 5.3% Policy/Funding Agency
- 5.3% Press and Media

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Librarians, Archivists & Information Professionals in RDA
taking the initiative in addressing the technical and social infrastructure needed to enable and sustain open research and open science

What is the value of engaging with RDA?

- a global, open, neutral, experienced and independent forum for interaction with data professionals, researchers, ICT experts and academics;
- augment the library community and corresponding data interoperability solutions;
- Build strategic, collaborative relationships and partnerships;
- institution-wide advocacy processes for development of institutional and national technical and human infrastructures, legal frameworks, training programmes and policies for data stewardship;

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What is the value of engaging with RDA?

- facilitates the harmonisation, integration and/or implementation of existing standards and methods;
- Adopt RDA recommendations and outputs;
- a unique forum for creating use cases and a 'working space';
- opportunities and networks for data management skills development and expertise
Benefits to you ...

- experience and expertise in data management and data science;
- quality and effectiveness of personal work and activities;
- Professional competitive advantage and international leadership within the community;
- extraordinary network of international colleagues and organisations
Benefits to RDA?

YOU have skills and expertise which can contribute greatly to the development of best practices.

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Libraries for Research Data Interest Group

- 440 members – RDA’s largest group
- Successful Output in 12 languages
- **23 Things: Libraries For Research Data:** An overview by of practical, free, online resources and tools that users can immediately take advantage of to incorporate research data management into the practice of librarianship.

23 Things For Research Data Management

The Challenge:
Build capacity within the library community around research data management, ensure libraries are aligned with other research data management service providers, and share practices as new library services evolve and mature.

What is the solution?
23 Things: Libraries for Research Data provides an overview of practical, free, online resources and tools that librarians can begin using today to incorporate research data management into the daily practice of librarianship. Available in 11 languages, the resource groups 23 free, online resources to help librarians address issues on data management such as Metadata, Digital Preservation, Data Repositories, Data Licensing and Privacy or Data Citation.

Produced by: Libraries for Research Data Interest Group
https://www.rd-alliance.org/groups/libraries-research-data.html

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23 Things in nutshell

1. Learning Resources
2. Data Reference & Outreach
3. Data Management Plans
4. Data Literacy
5. Metadata
6. Citing data
7. Data Licensing & Privacy
8. Data Preservation
9. Data Repositories
10. Communities of Practice

Programme designed for librarian and research support staff

- self-paced learning style, relevant examples, combination of thinking and doing exercises and grouping around data management topics
- build capability and a community of practice around research data management
- Available for reuse and repurpose anywhere in the world to suit specific needs

Open Science | Open Data

The Commons Framework

- Software, Services & Tools
  - App stores/User interfaces
  - Scientific analysis tools/workflows
  - Services: APIs, Containers, Indexing,

- Data
  - Reference Data Sets
  - User-defined data

- Compute Platform: Cloud or HPC

2018

TURNING FAIR INTO REALITY

Open Data | Open Source | Open Peer Review | Open Access | Scientific social networks | Citizen Science | Open educational resources

EOSC

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Getting Involved
RDA Guiding Principles

- Openness
- Consensus
- Balance
- Harmonization
- Community-driven
- Non-profit and technology-neutral
Becoming an RDA member

Join at https://rd-alliance.org/user/register
RDA in Ireland

RDA is an international volunteer member-based organisation and as such encourages the initiative and support of its members across the globe to animate their community on a national level. RDA Europe national node are part of the RDA Europe support programme whose aim is to interact with researchers and innovators in the local language, offering them a platform for exchange of information pertinent to the RDA and their activities and in strict compliance with RDA's guiding principles of Openness, Transparency, Consensus-based, Community driven, Harmonisation and Non-profit. The national pages should not be interpreted as an official representation of the Research Data Alliance in any country or any organisation unless this is specifically stated.

Node Coordinators: Sandra Collins
Group Email: rda-ireland@rda-groups.org

https://rd-alliance.org/groups/rda-ireland | @RDA_Ireland
RDA Plenary Meetings

- Exchange knowledge, share discoveries, discuss barriers and potential solutions
- Learn about new trends, strategies, research developments, directions and policies
- Meet new committed and passionate data science professionals, working in multiple disciplines
- Contribute to acceleration of data infrastructure development

rd-alliance.org/plenaries

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RDA’s 13th Plenary Meeting
Philadelphia, Pennsylvania
2-4 April 2019

https://rd-alliance.org/plenaries/rda-thirteenth-plenary-meeting-philadelphia-us
RDA P14 is headed to Finland

HELSINKI/ESPOO
OCTOBER 23-25, 2019

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Early Career & Experts Opportunities

Seeking applications from students and early career professionals from higher education or research institutions with studies focusing on data sharing and exchange challenges.

View Call details & apply for one of 7 grants of maximum €1750 at https://grants.rd-alliance.org/OpenCalls/call-early-careers-p13

Are you a mid-career or senior data professional or scientist interested or already committed to RDA activities?

View Call details & apply for one of 5 grants of maximum €1800 at https://grants.rd-alliance.org/OpenCalls/call-experts-P13

Deadline 05 February 2019, 17:00 CET
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