

The RDA Network

RDA Denmark Workshop
14 June 2019

Daniel Bangert
Göttingen State and University Library
bangert@sub.uni-goettingen.de / @enigmaticocean

RDA: An overview

What is the Research Data Alliance?

Working Groups and Interest Groups

Recommendations and Outputs

Adoption Stories

Impact

RDA vision, mission and approach



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



MISSION: Build the social and technical bridges that enable open sharing and re-use of data.



APPROACH: To further research innovation, efficiency and reproducibility by identifying and facilitating socio-technical best practices and standards for research data, tools and infrastructure.

RDA Guiding Principles

Openness

Consensus

Balance

Harmonization

**Community-
driven**

**Non-profit and
technology-
neutral**

<https://www.rd-alliance.org/get-involved.html>

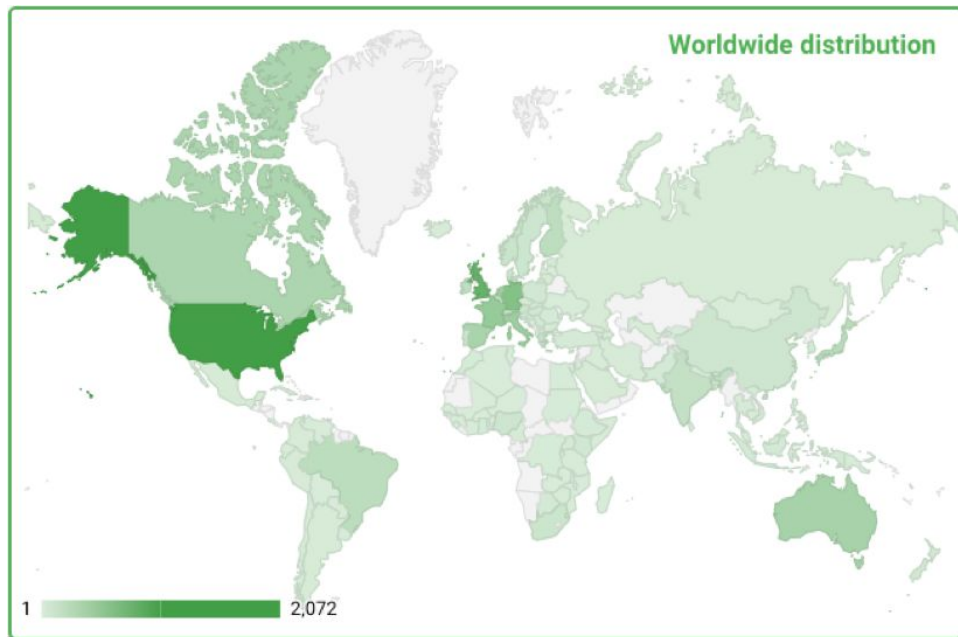
RDA in one word

Incubator
Collaboration
Community
Disciplines
A bridge
Extremely helpful
Impactful
Networking



<https://youtu.be/BdD2NTytb8Q>

A global community



All are welcome!

Over **8400** individual members

137 countries

50 organisational members

8 affiliate members

<https://www.rd-alliance.org/about-rda>

<https://www.rd-alliance.org/get-involved/organisational-membership/rda-organisational-affiliate-members>

A European network of national nodes



[https://www.rd-alliance.org/groups/
rda-europe-national-nodes](https://www.rd-alliance.org/groups/rda-europe-national-nodes)



RDA Working Groups & Interest Groups

WORKING GROUPS

Develop and implement tools, policy, practices and products for data management that are adopted and used by projects, organisations and communities

Timing: 12-18 months

TOTAL: 36 Working Groups

Recommendations: Concrete deliverables - tools, standards etc.

INTEREST GROUPS

Focus on a specific data sharing problem or community and identifying what kind of infrastructure is needed

Timing: as long as the group is active

TOTAL: 66 Interest Groups

Output: Possibly case statements for new WGs, guidelines etc.

FAIR Data Maturity Model WG

Develops a common set of core assessment criteria for FAIRness and a generic and expandable self-assessment model for measuring the maturity level of a dataset. Builds on existing initiatives, looking at common elements and allowing the group to identify core elements for the evaluation of FAIRness.

- Analysis of Existing FAIR Assessment Tools
<https://rd-alliance.org/group/fair-data-maturity-model-wg/outcomes/results-analysis-existing-fair-assessment-tools> (request for comments open)

<https://rd-alliance.org/groups/fair-data-maturity-model-wg>

Early Career and Engagement IG

Provide a focal point for Early and Mid-Career Researchers and Professionals, including those involved in various RDA-related fellowships and Early Career programs.

- Monthly AMA calls
- Mentoring programme - connecting ECRs and Experts

<https://rd-alliance.org/groups/early-career-and-engagement-ig>

Grant opportunities for European ECRs and Experts are open!

<https://grants.rd-alliance.org/>

Encouraging radical collaboration

“In both the RDA and institutional settings, groups that work well are ones where it evolves that experience is respected, differences are appreciated, and working together is considered an opportunity to learn, not to proselytize.”

“Despite differences in how efforts are initiated, there is a common motivation to solve problems, find solutions, and address grand challenges.”

The Radical Collaboration of RDA and What It Means for Developing Institutional Data Management Services: <https://doi.org/10.29242/rli.296.3> (Amy Nurnberger)

RDA Recommendations & Outputs

RECOMMENDATIONS

Equivalent of the “specifications” or “standards” that other organisations create and endorse.

18 Recommendations
of which 8 ICT
Technical
Specifications

SUPPORTING OUTPUTS

Outputs of RDA WGs and IGs that are fruit of RDA work, but are not necessarily adoptable bridges.

12 Supporting Outputs

OTHER OUTPUTS

Anything a WG or IG wants to register and report, e.g. workshop reports, articles, survey results, etc.

<https://rd-alliance.org/recommendations-and-outputs/all-recommendations-and-outputs>

Certification of data repositories

RDA/WDS Repository Audit and Certification Catalogues: Creates harmonised common procedures for certification of repositories at the core level, drawing from the procedures already put in place by the Data Seal of Approval (DSA) and the ICSU World Data System (ICSU-WDS).



The infographic is titled "Repository Audit and Certification Catalogues" and is framed by a green border with decorative icons at the corners. At the top, it features logos for the ICSU World Data System, the Data Seal of Approval, and the RDA. The main text is organized into sections: "The Challenge:" which discusses the need for harmonized procedures, and "What is the solution?" which describes the development of a convergent standard by the DSA-WDS Partnership Working Group. A gold coin icon is placed above the production information at the bottom.

Repository Audit and Certification Catalogues

The Challenge:
Creating harmonized Common Procedures for certification of repositories

What is the solution?
Drawing from the procedures already put in place by the Data Seal of Approval (DSA) and the ICSU World Data System (ICSU-WDS), the RDA Repository Audit and Certification DSA-WDS Partnership Working Group has produced a convergent DSA-WDS certification standard aiming to eliminate duplication of effort, increase certification procedure coherence and compatibility thus benefiting researchers, data managers, librarians and scientific communities.

Produced by: **The Repository Audit and Certification DSA-WDS PartnershipWG**

<https://rd-alliance.org/groups/rdawds-certification-digital-repositories-ig.html>

CoreTrustSeal

“By undergoing the process of self-assessment and peer review the Australian Data Archive (ADA) hopes to better align its practices with international standards. ADA used the CoreTrustSeal evaluation process to identify areas for improvement in the archive. It is hoped that the CoreTrustSeal will assist the user community of the ADA, as the CoreTrustSeal provides a certification of trustworthiness and robust practices in the archiving and dissemination of data.”

Heather Leasor, Archivist, Australian Data Archive

<https://rd-alliance.org/rda-coretrustseal-adoption-story-across-domains-and-regions>



Data Management

23 Things: Libraries for Research Data: An overview 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 coisas: Bibliotecas e Dados Científicos

Visão geral de recursos úteis e ferramentas online livres que podem servir para integrar a gestão de dados científicos no trabalho prático dos profissionais das bibliotecas.

Partilhar Dados Científicos sem Barreiras

Recursos de aprendizagem

Os Bibliotecários estão a aprender como aplicar os princípios da Biblioteconomia e da Ciência da Informação para resolver problemas e providenciar novos serviços relacionados com a Gestão de Dados Científicos.

1. Lista das **10 recomendações** da LIBER para as Bibliotecas se iniciarem na Gestão de Dados Científicos, <http://bit.ly/RDAthing1>

2. Tesouro da Ciência que

Recursos de Aprendizagem
Dados de referência e disseminação
Planos de Gestão de Dados
Literacia de Dados
Citação de Dados
Licenças e Privacidade
Preservação Digital
Repositórios de Dados e a Comunidade de Prática

...para apoiar os Bibliotecários a envolverem-se na gestão de dados científicos!

10. Perguntas sobre Gestão de Dados respondidas por especialistas no fórum **DataQ**, <http://bit.ly/RDAthing10>

Planos de Gestão de Dados

Os Bibliotecários estão a familiarizar-se com os requisitos dos financiadores de ciência, providenciando consultoria aos investigadores para os apoiar a elaborar e implementar Planos de Gestão de Dados.

11. A **DMPTool** identifica os requisitos de financiadores nos Estados

<https://rd-alliance.org/group/libraries-research-data-ig/outcomes/23-things-libraries-research-data-supporting-output> (12 translations)

23 Things

23 (research data) Things by the Australian Research Data Commons (formerly the Australian National Data Service)

<https://www.ands.org.au/working-with-data/skills/23-research-data-things>

23 [research data] **things**
Australia

Do as many or as much as you want; do them in any order, do them by yourself, or form a group to learn together. There are many activities to choose from — whether you are new to data, need to extend your knowledge, or want a challenge!

Extend your knowledge and skills about research data by exploring activities, links and much more at [ands.org.au/23-things](https://www.ands.org.au/23-things)

- Getting started with research data
- Issues in research data management
- Data in the research lifecycle
- Data discovery
- Data sharing
- Long-lived data: curation & preservation
- Data citation for access & attribution
- Citation metrics for data
- Data citation & impact
- Extract value from research data: data citation, impact and metrics.
- Rights, ethics & sensitive data
- Learn about responsible sharing and reuse, and the importance of licensing research data.
- What's my meta-data schema?
- Vocabularies for data description
- Walk the crosswalk
- Identifiers and linked data
- Metadata & more
- Resource description, controlled vocabularies, linked data and crosswalks.
- Let's talk data!
- Start a data conversation: data interviews and data management plans. Data stories from publishers and research funders.
- Exploring APIs & apps
- Find it with data!
- Tools of the trade
- Hands on with data & tools
- Delve into domain specific data and use software tools for research data. Challenge yourself to try something new!
- Data communities
- Who's who in the research data management zoo? Connecting with colleagues and continuing to learn.
- Data management plans
- What are publishers & funders saying about data?
- Data literacy & outreach
- Data interviews: talk the talk
- What's in a name?
- Making connections

[ands.org.au/23-things](https://www.ands.org.au/23-things)

NCRIS National Research Infrastructure for Australia An Australian Government Initiative

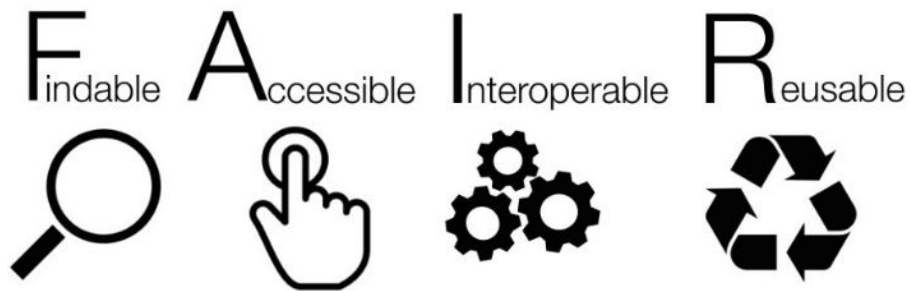
Australian National Data Service 2016

ands AUSTRALIAN NATIONAL DATA SERVICE

23 Things

Top 10 FAIR Things by RDA Libraries for Research Data IG, Library Carpentry, the ARDC and (many) others:

<https://librarycarpentry.org/Top-10-FAIR/>



23 Things Revisited by the National Coordination Point Research Data Management in the Netherlands (LCRDM):

<https://www.lcrdm.nl/en/news/lcrdm-task-group-wins-rda-backing>

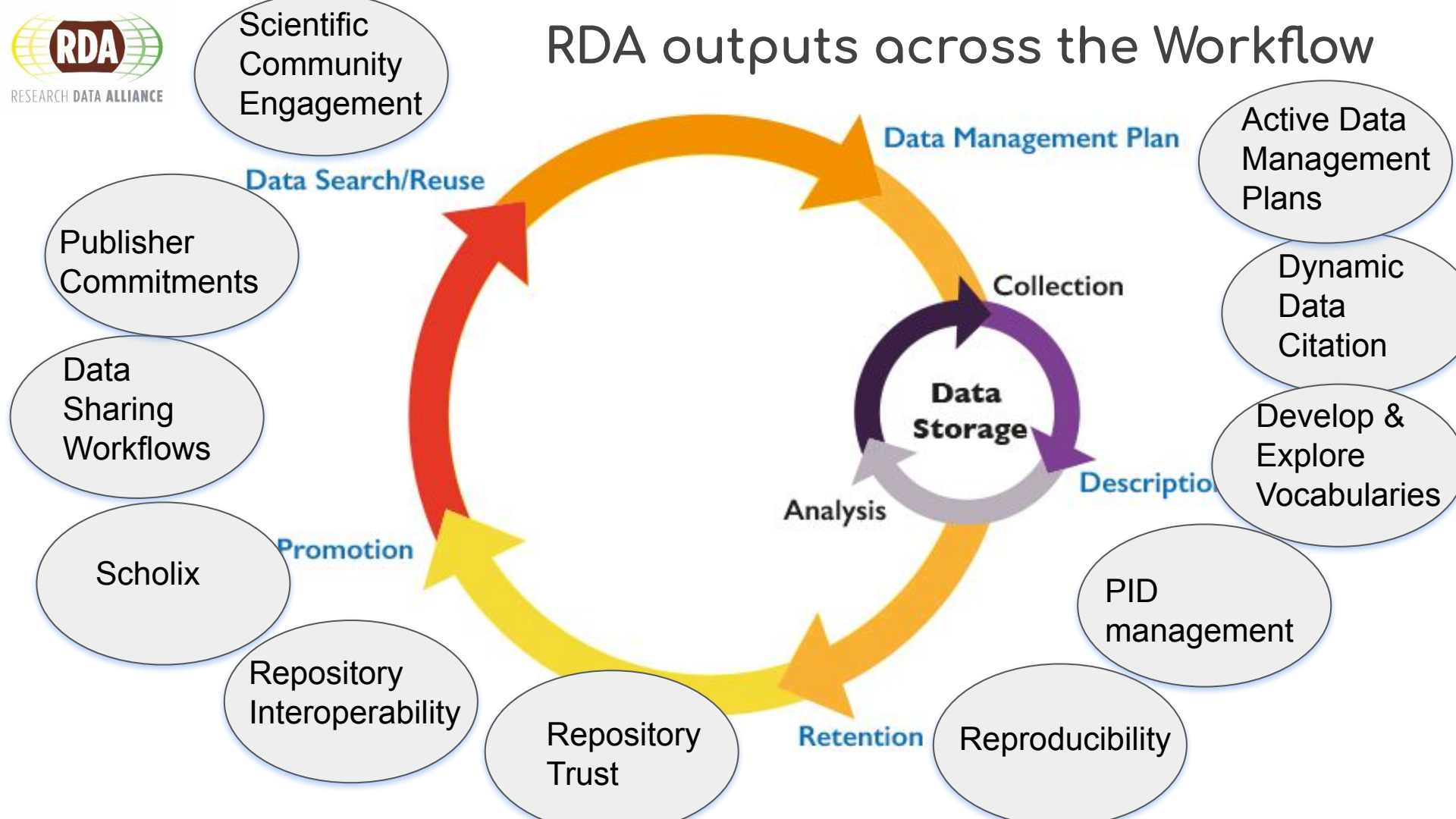
RDA Recommendations & Outputs

1. Data Management
2. Data Collection
3. Data Description
4. Identify, Store, and Preserve
5. Disseminate, Link, and Find
6. Policy, Legal Compliance, and Capacity



https://youtu.be/41Zx5xPRT_I?t=1912

RDA outputs across the Workflow



Adoption stories

Adopters of RDA outputs share their experiences and lessons learned to inspire further uptake of RDA outputs

- Read them all!
- Submit a story

<https://www.rd-alliance.org/recommendations-outputs/adoption-stories>



<https://youtu.be/Dvv530p6VBU>



Impact: documenting RDA results



**Research Data Alliance
Special Collection
Data Science Journal**

CONTINUOUS CALL FOR PAPERS

The background image features a dark blue server room with glowing lights. In the top right corner, the Research Data Alliance (RDA) logo is visible, consisting of a globe icon and the text "RDA" above "RESEARCH DATA ALLIANCE". The circular inset on the left shows a terminal window with the following code:

```
mirror_mod.use_x = False
mirror_mod.use_y = True
mirror_mod.use_z = False
f_operation = "MIRROR_Z":
mirror_mod.use_x = False
mirror_mod.use_y = False
mirror_mod.use_z = True

#selection at the end -add back the deselected mirror modifier object
mirror_ob.select= 1
modifier_ob.select= 1
context.scene.objects.active = modifier_ob
print("Selected" + str(modifier_ob)) # modifier ob is the active ob
#mirror_ob.select = 0
# # by-pass deselected objects!!!
# print("Deselected object")
# print("Deselected object")
```

<https://datascience.codata.org/collections/special/research-data-alliance-results/>

Impact: enabling FAIR

“It took just 18 months for the [geosciences] community to adopt, adapt and align with the FAIR data practices... This fast pace was possible because many building blocks of data sharing had already been developed. For example, data communities such as the Research Data Alliance and Earth Science Information Partners had vetted and made actionable the data-sharing practices necessary for repositories, researchers and journals.”

Make Scientific Data FAIR: <https://doi.org/10.1038/d41586-019-01720-7> (Shelley Stall, Lynn Yarmey, Joel Cutcher-Gershenfeld, Brooks Hanson, Kerstin Lehnert, Brian Nosek, Mark Parsons, Erin Robinson & Lesley Wyborn)

RDA blog: <https://rd-alliance.org/blogs/rda-helps-earth-and-space-science-take-big-leap-forward.html>
(Mark Parsons)



RDA Plenary 14

Helsinki

23-25 October 2019

Co-located events
will include EOSC
event



<https://youtu.be/FsvOOfxDXQE>

Questions?

Acknowledgements

RDA Secretariat

Hilary Hanahoe, RDA Secretary General

Anthony Juehne, RDA Adoption Manager