

The Research Data Alliance: growing, consolidating, innovating. What is going on and what is planned?

Hilary Hanahoe, Secretary General, Research Data Alliance (RDA)

RDA France Annual Event

Friday 25 Nov 2022



Remerciement Spécial





25/11/2022



MINISTÈRE DE L'ENSEIGNEMENT SUPÉRIEUR, DE LA RECHERCHE ET DE L'INNOVATION



@resdatall | @hilaryhanahoe

The Research Data Alliance (RDA) is truly grateful for the support of the French Ministry for Higher Education, Research and Innovation - Ministère de l'Enseignement supérieur, de la Recherche et de l'Innovation And the French National Scientific Research Centre -Centre national de la recherche scientifique





The Research Data Alliance (RDA)

RDA is an international community-driven, member-based organisation 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.





Vision, Mission & Values

Vision

Researchers and innovators openly share and re-use 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 and reuse of data.

RDA Guiding Principles

- ✓ Openness
- ✓ Consensus
- ✓ Inclusive
- ✓ Harmonization
- ✓ Community-driven
- ✓ Non-profit and technology-neutral

What is going on?





Who: The RDA Family



Individuals (13,000+)

"a strategic think tank to enhance a constructive dialogue and collaboration on themes relevant to data science and to present the latest research results in many areas"

Create groups, collaborate & generate outputs

Organisations (70+)

"one of the few places where researchers and data managers / information professionals directly interact and collaborate to develop solutions and best practices"

Adopt, Implement, Customise

Nations / Regions (30+)

"a global perspective to assist in sharing best practices, experiences and common needs to achieve efficiency and reduce duplication of efforts"

Localise (linguistically & culturally), network

How: 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: 38 Working Groups

RECOMMENDATIONS:

Concrete deliverables - "Running code", tools, standards, etc.

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: 56 Interest Groups

OUTPUT: Possibly case statements for new WGs, guidelines, best practice, etc.

Communities of Practice

- Domain / disciplinary focus, coordination and awareness raising role. "Umbrella group"
- TIMING: as long as CoP is active (review every 18 months)
- ➤ TOTAL: 1 CoP on Agricultural Data

OUTPUT: New WGs & IGs, bridge building across RDA and externally.

Groups: RDA4RDM support and education

Engaging Researchers with Data IG

<u>Libraries for Research</u> <u>Data IG</u> Education and Training on Handling of Research Data IG

Early Career and Engagement IG

<u>Professionalising Data</u> <u>Stewardship IG</u> Science communication for research data

CODATA/RDA Research
Data Science Schools
for Low and Middle
Income Countries

RDA/CODATA Summer Schools in Data Science and Cloud Computing in the Developing World WG

RDA Recommendations





RDA Recommendations are produced by RDA Working Groups



The official, endorsed results of RDA and considered our "flagship" Outputs.



Undergone formal phases of discussion, comment, and decision-making, and can be compared to "specifications" or "standards" created and endorsed by other organisations.



Documents in a very broad sense and may include specifications, taxonomies or ontologies, workflows, schemas, data models, etc.



To be endorsed, they meet specific criteria, including being made publicly available and usable, and adoptable and adopted.

Outputs: RDA4RDM support and education

Engaging Researchers
with Data Management:
The Cookbook

23 Things: Libraries for Research Data (Supporting Output)

Engaging Researchers
with Data Management:
The Cookbook

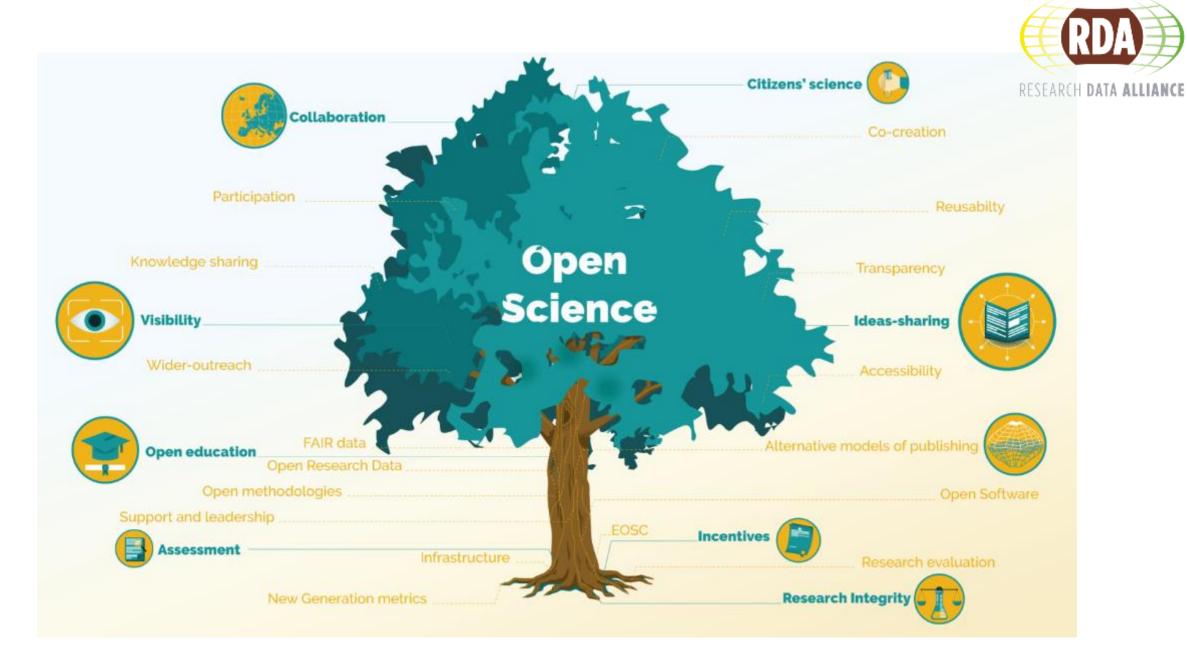
Top 10 FAIR Data & Software Things

Core Characteristics of
Learning Resource
Collectors

Recommendations for a minimal metadata set to aid harmonised discovery of learning resources

CODATA/RDA Summer
School in Data Science
and Cloud Computing in
the Developing World
WG Recommendations

A curriculum for foundational Research
Data Science skills for Early Career Researchers

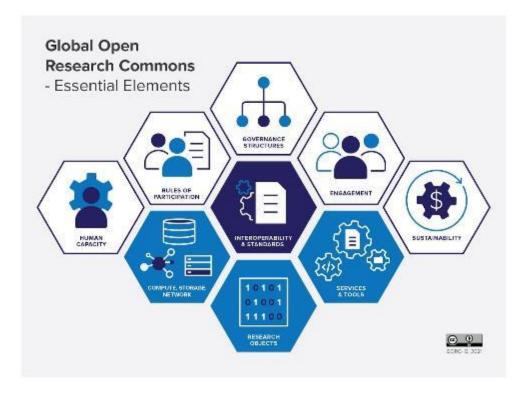


Source: YERUN – Young European Research Universities Network

Global | National | Thematic Open Research \(\sumset \) Science Commons









National Action Plan for Open Research

2022-2030





MINISTERE
DE L'ENSZIONEMENT
SUPÉNEUR,
DE LA RECHERCHE
ET DE L'INNOVATION



RDA in National Open Science Plans



The unambiguous conclusion is that open is better for science



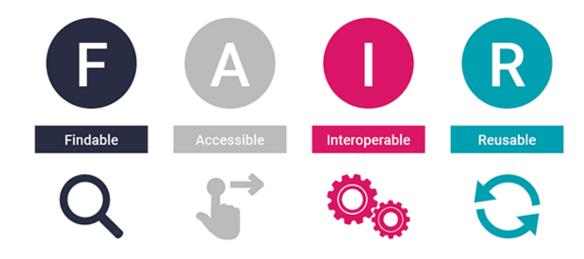
"If rapidly and openly sharing research data and papers is critical to understanding and combating coronavirus, doesn't the same hold true for cancer? Heart disease? Climate change? The scientific community—moving with great speed and clarity of purpose—has clearly signaled that open science is the most efficient way to tackle issues that have a significant and direct effect on the lives of the general public."

POLICY | OPINION

RDA COVID-19 WG Recommendations and Guidelines on Data Sharing: https://doi.org/10.15497/rda00052

We Must Tear Down the Barriers That Impede Scientific Progress

Open science would eliminate article paywalls, data hoarding and siloed lab work



FAIR "Things"

FAIR data are data which meet principles of findability, accessibility, interoperability, and reusability.

RDA in Practice





RDA in Practice: Engagement by Funders

RDA Funders Forum

International, neutral forum for funder – to - funder discussions

Networking & bilaterials opportunity

Insights from RDA governance & community

Presentation of Outputs & Recommendations

RDA Funders Interest Group

substantiate their engagement with RDA

be fully aligned with the RDA principles of openness, harmonization and being community-driven.

significant value-added contribution to the RDA community as a vehicle for open discussion of policy-driven topics







RDA in Practice: reducing the silos

Culmination of a cooperative effort between the **Data Seal of Approval (DSA)** and the **World Data System of the International Science Council (WDS)** under the umbrella of the Research Data
Alliance (RDA) to harmonize their data repository certifications



RDA in Practice: The FAIR Principles

RDA FAIR DATA GROUPS

- FAIR Data Maturity Model WG
- CURE-FAIR WG
- FAIR Digital Object Fabric IG
- RDA/WDS Publishing Data

Workflows WG

Data Discovery Paradigms IG



To be Findable:

- F1. (meta)data are assigned a globally unique and persistent identifier
- F2. data are described with rich metadata (defined by R1 below)
- F3. metadata clearly and explicitly include the identifier of the data it describes
- F4. (meta)data are registered or indexed in a searchable resource

To be Accessible:

- A1. (meta)data are retrievable by their identifier using a standardized communications protocol
- A1.1 the protocol is open, free, and universally implementable
- A1.2 the protocol allows for an authentication and authorization procedure, where necessary
- A2. metadata are accessible, even when the data are no longer available





To be Interoperable:

- I1. (meta)data use a formal, accessible, shared and broadly applicable language for knowledge representation.
- 12. (meta)data use vocabularies that follow FAIR principles
- (meta)data include qualified references to other (meta)data

To be Reusable:

- R1. meta(data) are richly described with a plurality of accurate and relevant attributes
- R1.1. (meta)data are released with a clear and accessible data usage license
- R1.2. (meta)data are associated with detailed provenance
- R1.3. (meta)data meet domain-relevant community



Source: FAIRsFAIR D7.4 How to be FAIR with your data. A teaching and training handbook for higher education institutions

https://zenodo.org/record/6425568#.YqdfMXZBy3A



RDA FAIR DATA OUTPUTS

- FAIR Data Maturity Model: specification and guidelines
- Member survey on bridging the gap between funders and communities perspectives on benefits and challenges of FAIR assessments V2.0
- Results of an Analysis of Existing FAIR Assessment Tools
- 10 Things for Curating Reproducible and FAIR Research
- Challenges of Curating for Reproducible and FAIR Research Output
- Summary of Virtual Layer Recommendations
- <u>Persistent identifiers: Consolidated assertions</u>
- RDA/WDS Publishing Data Workflows WG Recommendations
- <u>Data Discovery Paradigms: User Requirements and Recommendations for Data Repositories</u>
- Eleven Quick Tips for finding Research Data
- A survey of current practices in data search services











RDA in Practice: The FAIR Principles



RDA in Practice: FAIR Software

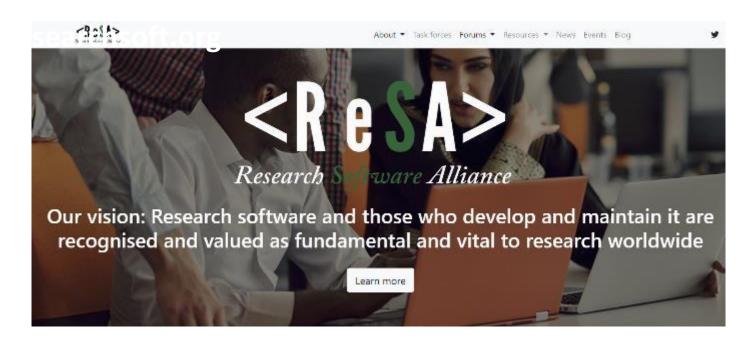
RDA Groups for FAIR Software

- FAIR for Research Software (FAIR4RS) WG
- Software Source Code IG
- Skills and training curriculums to support FAIR research software IG

RDA Outputs for FAIR Software

<u>FAIR Principles for Research</u>
 Software (FAIR4RS Principles







RDA in Practice: Repositories

make it easier for people and machines to find data repositories, to select the data repository that is the most appropriate for their needs and kinds of data, and to enable the integration of data repositories with other tools and infrastructure.

Examples of users:

- Researchers
- Funders
- Publishers
- Repository managers
- Librarians
- Registries and other research data infrastructures



Courtesy of: RDA Data Repository Attributes Working
Group - Michael Witt, Washington Segundo, Kathleen
Shearer, Kazu Yamaji, Allyson Lister & Matthew Cannon
(chairs). Presentation available here PODCAST

Open Science, Open Data, and Open Scholarship: European Policies to Make Science Fit for the Twenty-First Century

Changing the reward and incentive system for researchers is a key open science challenge and a broader issue for which primarily the responsibility lies in the scientific community (universities and funders). This includes making open science practices rewardable and fundable as well as the employment of specific indicators for researchers' engagement with open science. A change of the reward and incentive system can only be stakeholders-driven, and it has to be bottom-up.

> Source: PERSPECTIVE article Front. Big Data, 10 December 2019 Sec. Data Mining and Management

https://doi.org/10.3389/fdata.2019.00043



Research Assessment Reform Driven by Europe, for the world

AGREEMENT ON REFORMING RESEARCH ASSESSMENT

20 July 2022







Home » Working and Interest Groups » Interest Group » Sharing Rewards and Credit (SHARC) IG









Events



Repository



Outputs



Charter



Members

create new content









Evaluation of Research

Submitted by Francoise Genova

Related Plenary:

RDA 19th Plenary meeting, part of International Data Week, 20–23 June 2022, Seoul, South Korea Meeting objectives:

The evolution of the evaluation of research from being mostly bibliographic index-based is now recognized to be indispensable to enable Open Science. In the same way that Open Science promotes the open sharing of FAIR data and other research outputs, evaluators must also value and consider these outputs as part of the wider research evaluation framework. The RDA is an

RDA Sharing Rewards & Credit Interest Group (IG) RDA Evaluation of Research Birds of a Feather (BoF)



Coalition for Advancing Research Assessment

Our vision is that the assessment of research, researchers and research organisations recognises the diverse outputs, practices and activities that maximise the quality and impact of research. This requires basing assessment primarily on qualitative judgement, for which peer review is central, supported by responsible use of quantitative indicators.

COARA Agreement

Drafted by over 350 organisations from 40 countries Signed by over 150 organisations to date including RDA Constitutive Assembly: 1 December 2022



RDA: How to get involved

Join RDA



Building the social and technical bridges to enable open sharing and re-use of data

RDA EU RDA US CONTACT US LOGIN REGISTRATION

Members: 13013







O&A Members

Active Organisational & Affiliate members

MEMBERSHIP

Becoming a member of RDA is simple and open to both individuals and organizations

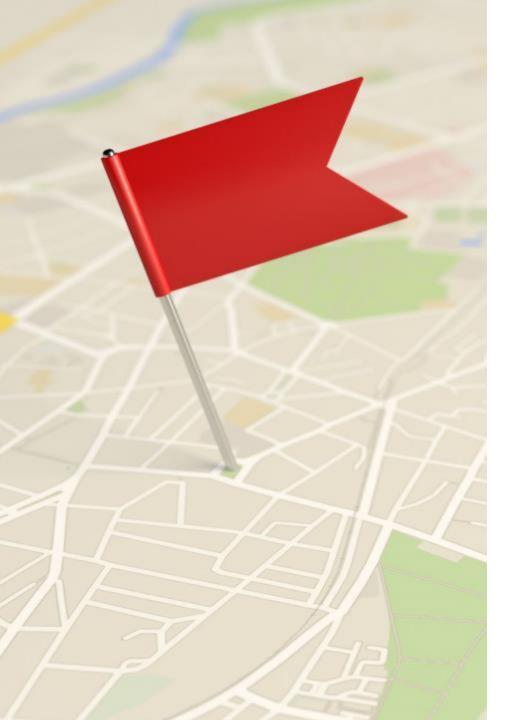
Register now

RDA Groups

WG & IGs: 100

Discover what RDA Working and Interest Groups and all other Groups are up to and find out how to join them. Explore Groups

ABOUT RDA ▼ PLENARIES & EVENTS ▼ GET INVOLVED ~ GROUPS ▼ RECOMMENDATIONS RDA FOR DISCIPLINES * NEWS & MEDIA * & OUTPUTS ▼





Useful Links to get started

RDA for Newcomers page:

https://www.rd-alliance.org/about-rda/rda-newcomers

Group search by focus/domain:

https://www.rd-alliance.org/rda-for-you

RDA Recommendation/Output search:

https://www.rd-alliance.org/recommendations-andoutputs/catalogue

RDA in a Nutshell (Monthly stats on RDA community & Quarterly Updates on Groups & Outputs):

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



Research Data Alliance





Celebrating 10 years of The Research Data Alliance (RDA)

> It's your «Decaversary»

Community cross-fertilisation workshops: Building the RDA bridges & identifying future collaboration activities



Connie Clare RDA Community Development Manager

4TU.Research Data Community Manager PhD in Developmental Biology Thematic community cross-fertilisation workshops aim to (see the <u>proposal</u>):

- **Connect** chairs and members of RDA groups with similar interests and focus.
- Facilitate discussion about an RDM-related theme of relevance.
- **Showcase** and **celebrate** community group efforts and achievements.
- **Identify challenges** within the community
- Brainstorm solutions and exchange initiatives to address challenges.
- Provide chairs and members with a voice to **direct, define and align goals** and group activities.



Community Cross-fertilisation Workshop Series

RDA for Data Management Planning

Thursday, 10 November 2022 16:00-17:45 UTC



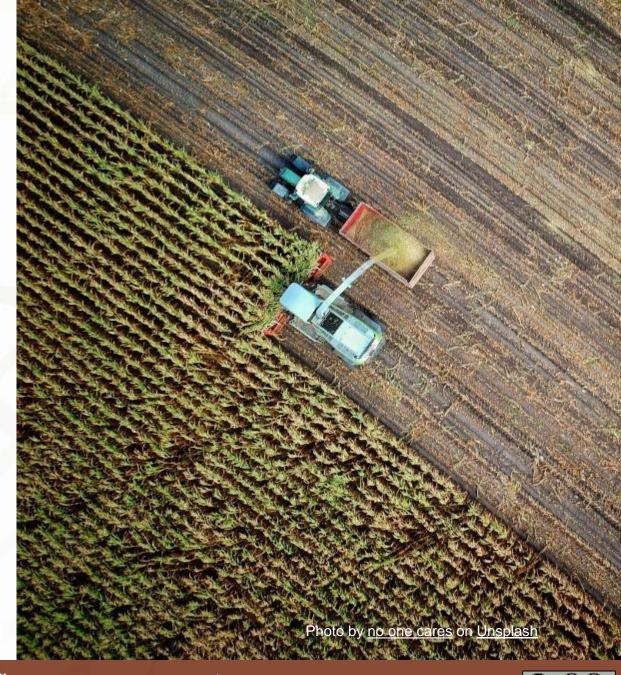




Community Cross-fertilisation Workshop Series

RDA for Agricultural Data

Thursday, 17 November 2022 16:00-17:45 UTC







RDA Challenges associated w/ DMPs

Raising awareness and understanding	Practical adoption and implementation	Evaluation and assessment
Lack of awareness that DMPs are useful documents and part of good research planning. DMPs are seen as deliverables and not as RDM support tools.	Unclear definitions (e.g., 'other research outputs') and how FAIR principles can be implemented and described in DMPs.	Lack of accountability on following through on implementing DMPs that support funded research.
Creation of a DMP requires researchers to have knowledge and a skillset concerning RDM. They have to understand how to use specific tools.	Lack of automation of RDM tasks and machine-actionable descriptions of data, services, policies, etc.	We develop dynamic tools and try to support best practices in DMPs, but we don't have a clear view on how DMPs are evaluated, under which criteria.
Limited support as RPOs lack sufficient qualified staff and services to assisted with DMPs.	Lack of workflows on how DMPs can be implemented in research.	
Lack of incentives, reward and credit for good RDM practice and DMPs.	Making DMPs FAIR and encouraging reuse of existing information.	







Solutions to address the challenges...

Strengthen communication and collaboration between RDA groups.

Creation of new WGs to address the challenges listed.

DMP writing split between relevant stakeholders (not just researchers). RPOs offer services and info to make them a trusted resource.

Create software to automate processes to limit researchers' burden in writing DMPs.

Submission of joint proposals for RDA Plenaries with existing groups.

Create recommendations, technical standards and documents

Work towards ensuring that DMPs are FAIR.

Create a framework for the evaluation of DMPs

Continue to expand RDA community work to focus on funders as a key stakeholder. Collaborate with existing standardisation entities/orgs.

Make DMPs central tools for policy making and best practices that link across services and workflows

cases that show how to write and integrate a DMP







The main findings of the community crossfertilisation workshops will be presented as a <u>summary document</u> and published online.

RDA for Data Management Planning



Celebrating A Decade of Data RDA community cross-fertilisation workshop

Version 1: October 2022

Community groups and leads









Group lead Group name

Group lead Group name

Group lead Group name

Group lead Group name









Main challenges of data management planning...

- Description of gap, need or challenge
- . Description of gap, need or challenge
- 3. Description of gap, need or challenge



Future focus over five years...



Description of ways the RDA community can address a specific challenge, need or gap...
Details...



Description of ways the RDA community can address a specific challenge, need or gap...
Details...



Description of ways the RDA community can address a specific challenge, need or gap...

Details...





Description of initiative and/or community



Description of initiative and/or community



Description of initiative and/or community



Description of initiative and/or community

RDA Community cross-fertilisation project













Monthly themes: 10 months to celebrate 10 years of the RDA



February

FAIR data, software and hardware

March

A Decade of Data: RDA 20th Plenary meeting

April

Health and medical data

May

Metadata & technical infrastructure June

Agriculture & environmental data

<u>Lukukukukukukuk</u>

July Research data policy

August Disciplinary data

September

Sustainable development & Responsible research

October **International**

Data Week

November

RDM support & education



A Decade of Data 2013-2023



GET INVOLVED – BE PART OF THE CELEBRATIONS

- RDA community members and group chairs
 - Community members and group chairs can organise events and activities with or without the support of the RDA Secretariat.
- Non-members (external research data management community)
 - Organisations may elect to organise their own event/activity within a particular month to leverage the enthusiasm and expertise of the global RDA community.
- All events/activities will be promoted as part of the RDA's 10th Anniversary in all the RDA communication channels.

Research Data Alliance 20th Plenary Meeting

Celebrating 10 years of the RDA

A Decade of Data

GOTHENBURG, SWEDEN 21-23 March 2023













23-26 OCT

2023

SALZBURG



International **Data Week**

A FESTIVAL OF DATA



https://www.rd-alliance.org/plenaries/international-data-week-2023-salzburg

Organised by























What is planned?
RDA ... another 10 years

RDA Web Platform (2023)

Implement

•community centric web platform

Provide

•modern, feature rich Content Management System

Enable

 discussion forums, networking, internal messaging, document sharing, member directories.

Support

•robust platform for the end to end management of conferences

Store

 membership data for existing and new members across a variety of categories



RDA Maintenance Facilities (2023)

Web-based search interface that enables the annotation, classification and discoverability of RDA outputs. The Maintenance Facility is being developed by <u>DANS</u> (Netherlands based Data and Archiving Networking Services)





Source: DANS – Mock up for demo purposes only not to be reproduced



RDA Strategic Plans (2023 onwards)

- Complete implementation of <u>RDA Strategic</u> <u>Plan 2020 – 2023</u>
- Continue Financial Sustainability Implementation
- Develop next 5 year Strategic Plan 2024 2028

RESEARCH DATA ALLIANCE



INTERNATIONAL DATA WEEK 2025

Trusted research data driving innovation and a better world















INTERNATIONAL DATA WEEK

20 - 23 SEPTEMBER 2027

Cape Town International Conference Centre (CTICC)













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Conclusions

- ✓ RDA has an abundance of resources available
- ✓ RDA offers global solutions & global network to collaboratively develop new ones
- ✓ Global challenge, global opportunity
- ✓ Cooperation helps build Trust and supports Integrity



IF YOU WANT TO GO FAST, GO ALONE.

IF YOU WANT TO GO FAR,
GO TOGETHER.

Hilary Hanahoe

SECRETARY GENERAL

RESEARCH DATA ALLIANCE

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Twitter: @hilaryhanahoe

Orcid ID: 0000-0002-0328-3419

Web: www.rd-alliance.org

RDA Global Community

13,000 VOLUNTEER DATA PROFESSIONALS

email: enquiries@rd-alliance.org

Twitter: @resdatall

Web: www.rd-alliance.org





RDA Groups by Thematic Areas

25 November 2022

Not presented during the talk, additional resource for attendees





100 Active Groups – 20 Thematic Areas

Disciplinary:

- Agricultural research
- Applied science
- Environmental research
- Health research & Covid
- Life Science
- Materials science and engineering
- Social science

Domain-agnostic:

Data management

planning

- FAIR data
- FAIR software
- Identification and description
- Identification and description: MetaData
- Identification and description: PIDs
- Impact, metrics and credit
- Information security

- Non-digital (samples and hardware)
- Open and responsible research
- Policy, legal, global infrastructure
- RDM support and education
- Technical infrastructure, analysis, storage and preservation

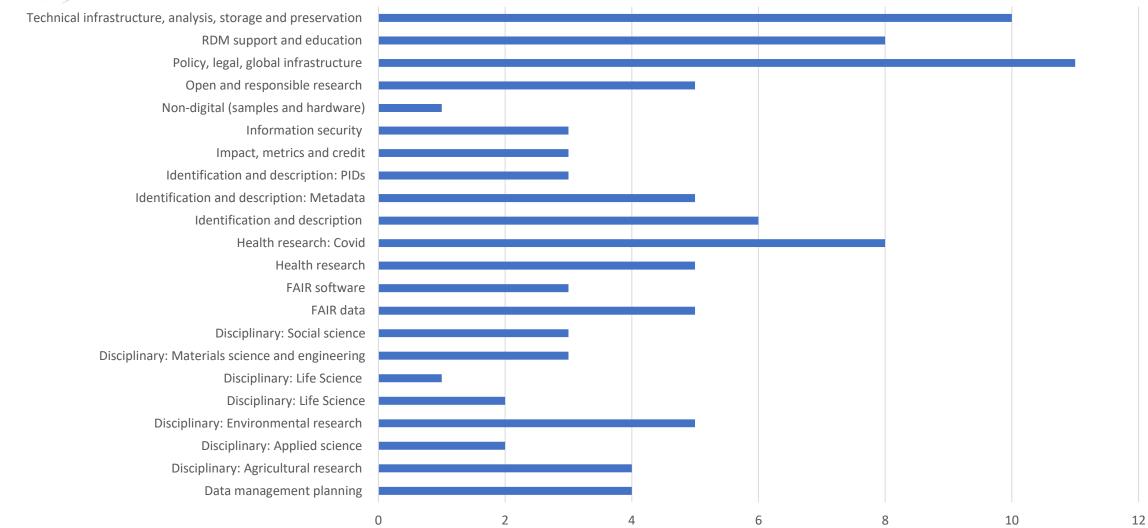






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RDA Groups by Thematic Area



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Disciplinary: Agricultural research

RDA GROUPS

Agrisemantics WG

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Capacity Development for Agriculture Data

<u>WG</u>

Wheat Data Interoperability WG

IGAD Community of Practice

RDA OUTPUTS

39 Hints to Facilitate the Use of Semantics for Data on Agriculture and Nutrition

Recommendations and Capacity
Development Resource Kit

Wheat Data Interoperability Recommendations







Disciplinary: Applied Science & Environmental research

APPLIED SCIENCE RDA GROUPS

Chemistry Research Data IG

Research data needs of the Photon and

Neutron Science community IG

ENVIRONMENTAL RESEARCH RDA GROUPS

ESIP/RDA Earth, Space, and Environmental Sciences IG Geospatial IG

Global Water Information IG

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Earth, Space, and Environmental Science Complex Citations Working Group

Coordinating Earth, Space, and Environmental Science
Data Preservation and Scholarly Publication Processes





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Disciplinary: Health Research & COVID-19

RDA GROUPS

Health Data Interest Group

Raising FAIRness in health data and health

research performing organisations (HRPOs) WG

Reproducible Health Data Services WG

Blockchain Applications in Health WG

Neuroimaging IG

RDA COVID-19 Epidemiology

RDA COVID-19

RDA COVID19-Legal-Ethical

RDA-COVID19-Clinical

RDA-COVID19-Community-participation

RDA-COVID19-Omics

RDA-COVID19-Social-Sciences

RDA-COVID19-Software

RDA OUTPUTS

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Sharing COVID-19 Epidemiology Data

The final version of the RDA COVID-19

Recommendations and Guidelines for Data Sharing, published 30 June 2020

RDA COVID-19 Zotero Library - March 2021RDA COVID-19 Zotero Library - March 2021









Disciplinary: Life Sciences

RDA GROUPS

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Life Science Data Infrastructures IG Physical Samples and Collections in the Research Data Ecosystem IG **Biodiversity Data Integration IG**

RDA OUTPUTS

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23 Things Physical Samples







Disciplinary: Materials science and engineering

RDA GROUPS

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Research Data Management in Engineering IG International Materials Resource Registries WG RDA/CODATA Materials Data, Infrastructure & Interoperability IG

RDA OUTPUTS

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International Materials Resource Registries Working Group: Final **Report and Recommendations**







Disciplinary: Social science

RDA GROUPS

Linguistics Data IG
Social Science Research Data IG
Psychological Data WG

RDA OUTPUTS

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Tromsø recommendations for citation of research data in linguistics







Data Management Planning

RDA GROUPS

Active Data Management Plans IG

Discipline-specific Guidance for Data

Management Plans WG

Exposing Data Management Plans WG

DMP Common Standards WG

RDA OUTPUTS

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RDA DMP Common Standard for Machine-actionable Data Management Plans







RDA GROUPS

FAIR Data Maturity Model WG

CURE-FAIR WG

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FAIR Digital Object Fabric IG

RDA/WDS Publishing Data Workflows WG

Data Discovery Paradigms IG

RDA OUTPUTS

FAIR Data Maturity Model: specification and guidelines

Member survey on bridging the gap between funders and communities –
perspectives on benefits and challenges of FAIR assessments V2.0

Results of an Analysis of Existing FAIR Assessment Tools

10 Things for Curating Reproducible and FAIR Research
Challenges of Curating for Reproducible and FAIR Research Output

<u>Summary of Virtual Layer Recommendations</u> <u>Persistent identifiers: Consolidated assertions</u>

RDA/WDS Publishing Data Workflows WG Recommendations

<u>Data Discovery Paradigms: User Requirements and Recommendations for Data Repositories</u>

Eleven Quick Tips for finding Research Data

A survey of current practices in data search services







RDA GROUPS

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FAIR for Research Software (FAIR4RS) WG Software Source Code IG Skills and training curriculums to support FAIR research software IG

RDA OUTPUTS

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FAIR Principles for Research Software (FAIR4RS Principles)





Identification and description

RDA GROUPS

Data Versioning IG

Structure of Information

Data Citation WG

InteroperAble Descriptions of Observable

Property Terminology WG (I-ADOPT WG)

RDA/WDS Scholarly Link Exchange (Scholix)

<u>WG</u>

Data Granularity WG

RDA OUTPUTS

<u>Compilation of Data Versioning Use cases from the RDA Data Versioning Working Group</u>

<u>Principles and best practices in data versioning for all data sets big and small</u>

Scalable Dynamic Data Citation Methodology

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<u>InteroperAble Descriptions of Observable Property Terminologies (I-ADOPT) WG Outputs and Recommendations</u>

<u>Scholix Metadata Schema for Exchange of Scholarly Communication</u> <u>Links</u>







Identification and description: Metadata

RDA GROUPS

Vocabulary Services IG

Research Metadata Schemas WG

Metadata IG

Metadata Standards Catalog WG

RDA / TDWG Metadata Standards for

attribution of physical and digital

collections stewardship

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RDA OUTPUTS

A Collection of Crosswalks from Fifteen Research Data

Schemas to Schema.org

Guidelines for publishing structured metadata on the Web

Metadata Principles

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RDA/TDWG Attribution Metadata Working Group: Final Recommendations







Identification and description: PIDs

RDA GROUPS

National PID Strategies WG

PID IG

Persistent Identification of

Instruments WG

RDA OUTPUTS

Metadata Schema for the Persistent Identification of Instruments







Identification and description: PIDs

RDA GROUPS

National PID Strategies WG

PID IG

Persistent Identification of

Instruments WG

RDA OUTPUTS

Metadata Schema for the Persistent Identification of Instruments

Persistent Identification of

<u>Instruments</u>







Impact, metrics and credit

RDA GROUPS

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RDA OUTPUTS

Sharing Rewards and Credit (SHARC)

IG

IG for Surveying Open Data Practices Data Usage Metrics WG

RDA Data Usage Metrics WG Recommendations







RDA GROUPS

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Federated Identity Management IG **RDA Privacy Implications of** Research Data Sets IG Sensitive Data Interest Group

RDA OUTPUTS

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Federated Identity Management for Research Collaborations







Non-digital (samples and hardware)

RDA GROUPS

FAIR Principles for Research Hardware





Policy, legal, global infrastructure

RDA GROUPS

RDA/CODATA Legal Interoperability IG

Data policy standardisation and implementation IG

Working Group on Ethical and Legal best practices for Drone Data in a global research context (WELDD)

FAIRsharing Registry: Connecting data policies, standards and databases RDA WG

Research Funders and Stakeholders on Open Research and Data Management Policies and Practices IG

GO FAIR Liaison IG

Social Dynamics of Data Interoperability IG

Open Science Graphs for FAIR Data IG

Global Open Research Commons IG

GORC International Model WG

Brokering Framework Working Group









Policy, legal, global infrastructure

RDA OUTPUTS

25/11/2022

RDA & CODATA Legal Interoperability Of Research Data: Principles And Implementation Guidelines

The FAIRsharing Registry and Recommendations: Interlinking Standards, Databases and Data **Policies**







RDM support and education

RDA GROUPS

Engaging Researchers with Data IG

Libraries for Research Data IG

Education and Training on Handling of Research Data IG

Early Career and Engagement IG

Professionalising Data Stewardship IG

Science communication for research data

CODATA/RDA Research Data Science Schools for Low and Middle Income Countries

RDA/CODATA Summer Schools in Data Science and Cloud Computing in the

Developing World WG





RDM support and education

RDA OUTPUTS

25/11/2022

Engaging Researchers with Data Management: The Cookbook

23 Things: Libraries for Research Data (Supporting Output)

Engaging Researchers with Data Management: The Cookbook

Top 10 FAIR Data & Software Things

Core Characteristics of Learning Resource Collectors

Recommendations for a minimal metadata set to aid harmonised discovery of learning resources

CODATA/RDA Summer School in Data Science and Cloud Computing in the Developing World WG Recommendations A curriculum for foundational Research Data Science skills for Early Career Researchers







Technical infrastructure, analysis, storage and preservation

RDA GROUPS

Preservation Tools, Techniques, and Policies

Domain Repositories IG

Research Data Architectures in Research Institutions IG

Virtual Research Environment IG (VRE-IG)

Repository Platforms for Research Data IG

FAIR for Virtual Research Environments WG

CoreTrustSeal Maintenance WG

Archives and Records Professionals for Research Data IG

RDA/WDS Certification of Digital Repositories IG

Data Repository Attributes WG







Technical infrastructure, analysis, storage and preservation

RDA OUTPUTS

Matrix of use cases and functional requirements for research data repository platforms

Repository Audit and Certification DSA-WDS Partnership WG Recommendations

rd-alliance.org



