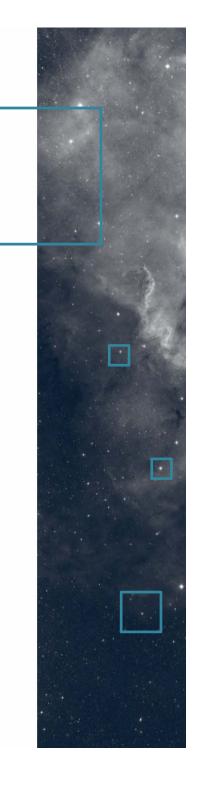
RDA: What, Where, When and How

Françoise Genova









What to use RDA for?

- As an international, neutral forum to discuss topics related to data sharing with people from very different profiles
- To gather lessons learnt and best practices
- To discuss and work on topics of interest for you with other people interested, produce recommendations in collaboration and get these recommendations commented by the RDA community
- To examine the RDA outputs and adopt those of interest for you

Where does it happens?

- During the Plenary meetings
 - Working Group and Interest Group meetings
 - Bird-of-a-Feather sessions
 - Informal discussions
- In the RDA Working Groups and Interest Groups (teleconferences, mails, F2F meetings)
- On the RDA Web site still being improved

□ When?

- Two Plenaries/year, organised in different regions of the world
- A new Group can be proposed any time
 - Request for Comments from the community
 - Review by TAB (and comments from OAB for WG)
 - Acceptance by Council
- WGs
 - Have 18 months to produce « implementable » deliverables
 - Can have follow-up Groups or implementation support activities
- IGs exist on the long term, can also produce outputs





RDA 9th Plenary Meeting Data Infrastructures for Open Science

5-7 April 2017, Barcelo Sants Hotel, Barcelona, Spain

Organised by Barcelona Supercomputing Center (BSC) with the support of RDA Europe





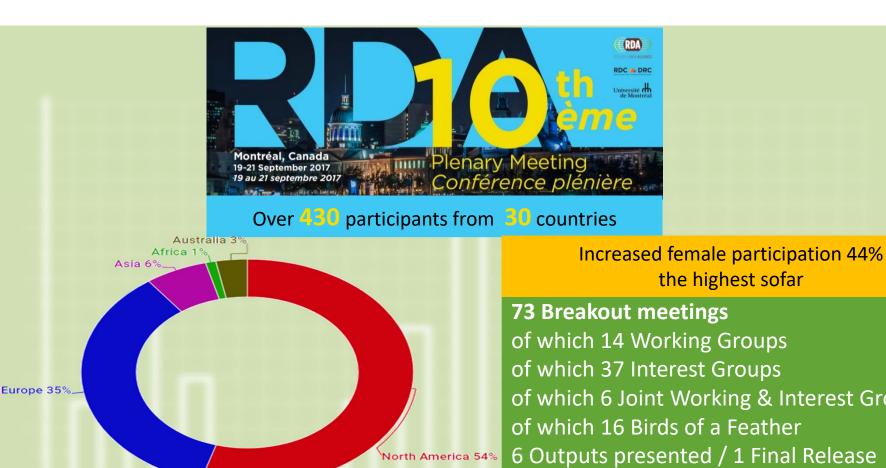


The 9th RDA Plenary Meeting will take place from 5th to 7th April 2017 at the Barcelo Sants Hotel, Barcelona, Spain. The plenary meeting is organised by the Barcelona Supercomputing Center-Centro Nacional de Supercomputación (BSC-CNS) with the support of RDA Europe.

https://www.rd-alliance.org/plenaries/rda-ninth-plenary-meeting-barcelona

Looking forward to seeing you all in Barcelona!





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!



From Data to Knowledge

To find out more visit: https://www.rd-alliance.org/plenaries/rda-eleventh-plenary-meeting-berlin-germany



How

- ... to become a member of the RDA?
- ... to create a RDA Group?
- ... to produce a RDA recommendation or output?
- ... to get information about adoption of RDA recommendations?



How to join? 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



How to create a RDA Group?

- First, have a look at existing Groups to see if they already do what you need – you can join and bring your expertise, requirements and ideas
- BoF: proposal for a Plenary session
- WG, IG:

24 October 2017

- Find interested colleagues from different regions and prepare a case statement by filling a template
- A BoF session at a Plenary is a good place to identify interested colleagues and discuss possible activities for new Groups
- Remember: RDA works on the technical AND sociological bridges to enable data sharing



RDA Interest (IG) & Working Groups (WG) by Focus (1)

Total 88 groups: 30 Working Groups & 58 Interest Groups

Domain Science - focused	☐Geospatial IG		
□Agrisemantics WG	□Global Water Information IG		
□BioSharing Registry WG	□Health Data IG		
□ Fisheries Data Interoperability WG	□Linguistics Data Interest Group		
□On-Farm Data Sharing (OFDS) WG	■Mapping the Landscape IG		
□Rice Data Interoperability WG	☐ Marine Data Harmonization IG		
□Wheat Data Interoperability WG	□Quality of Urban Life IG □RDA/CODATA Materials Data, Infrastructure & Interoperability IG		
□ Agricultural Data IG (IGAD) □ Biodiversity Data Integration IG □ Chemistry Research Data IG □ Digital Practices in History and Ethnography IG			
	Research data needs of the Photon and Neutron Science community IG		
	Small Unmanned Aircraft Systems' Data IG		
	□Structural Biology IG		
	□Weather, Climate and air quality IG		
Community Needs - focused	□ Data for Development IG		
 Certification and Accreditation for Data Science Training and Education WG 	 Development of Cloud Computing Capacity and Education in Developing World Research IG 		
 RDA/CODATA Summer Schools in Data Science and Cloud Computing in the Developing World WG 	☐ Early Career and Engagement IG		
	Education and Training on handling of research data IG		
Teaching TDM on Education and Skill Development WG	☐ Ethics and Social Aspects of Data IG		
☐ Archives & Records Professionals for Research Data IG	☐ International Indigenous Data Sovereignty IG		





RDA Interest (IG) & Working Groups (WG) by Focus (2)

Total 88 groups: 30 Working Groups & 58 Interest Groups

Reference and Sharing - focused	□ RDA / WDS Publishing Data Bibliometrics WG		
□ Data Citation WG	☐ Repository Core Description WG		
□ Data Description Registry Interoperability WG	□ Research Data Collections WG		
□ Data Security and Trust WG	□ Research Data Repository Interoperability WG		
□ Empirical Humanities Metadata WG	□ Data Discovery Paradigms IG		
□ International Materials Resource Registries WG	□ National Data Services IG		
□ Provenance Patterns WG	□ RDA/CODATA Legal Interoperability IG		
□ QoS-DataLC Definitions WG	□ Reproducibility IG		
	☐ Sharing Rewards and Credit (SHARC) IG		
	Sharing Newards and Credit (Sharto) 10		
Partnership Groups	Grianing Rewards and Credit (GriARC) 16		
Partnership Groups RDA / TDWG Metadata Standards for attribution of physical and digital collections stewardship WG	Grianing Rewards and Credit (GriARC) 16		
RDA / TDWG Metadata Standards for attribution of	Grianing Rewards and Credit (GriARC) 16		
RDA / TDWG Metadata Standards for attribution of physical and digital collections stewardship WG	Grianing Rewards and Credit (GriARC) 16		
 RDA / TDWG Metadata Standards for attribution of physical and digital collections stewardship WG RDA/WDS Scholarly Link Exchange Working Group 	Grianing Rewards and Credit (GriARC) 16		
 RDA / TDWG Metadata Standards for attribution of physical and digital collections stewardship WG RDA/WDS Scholarly Link Exchange Working Group ELIXIR Bridging Force IG 	Grianing Newards and Credit (GriANC) 16		





RDA Interest (IG) & Working Groups (WG) by

Focus (3)

Total 88 groups: 30 Working Groups & 58 Interest Groups

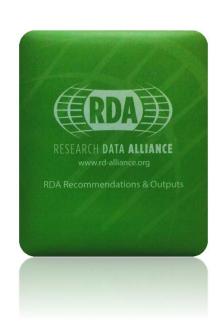
Da	ta Stewardship and Services – focused Brokering Framework WG DMP Common Standards WG Exposing Data Management Plans WG RDA / WDS Publishing Data Workflows WG WDS/RDA Assessment of Data Fitness for Use WG Active Data Management Plans IG Data in Context IG Data Rescue IG Data Versioning IG Domain Repositories IG	Libraries for Research Data IG Long tail of research data IG Physical Samples and Collections in the Research Data Ecosystem IG Preservation e-Infrastructure IG Preservation Tools, Techniques, and Policies IG RDA/WDS Certification of Digital Repositories IG RDA/WDS Publishing Data Cost Recovery for Data Centres IG Repository Platforms for Research Data IG Research Data Provenance IG Virtual Research Environments IG
Bas	Se Infrastructure — focused Array Database Assessment WG Data Type Registries WG Metadata Standards Catalog WG PID Kernel Information WG Data Fabric IG Data Foundations and Terminology IG Disciplinary Interoperability Framework IG Big Data IG	Brokering IG Federated Identity Management IG Metadata IG PID IG Software Source Code IG Vocabulary Services IG

rd-alliance.org/groups

How to produce an Output?

- Work hard with your colleagues and produce an output of interest for others!
- WG proposed recommendations go to Request for Comments from the community
- Some Groups submit their outputs to external experts





THE RDA OUTCOMES LEGEND

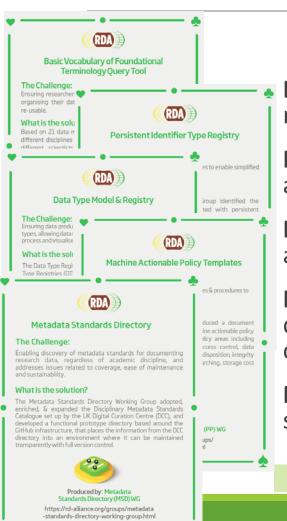
Recommendations: are the flagship outputs of RDA. They are RDA's equivalent of the "specifications" or "standards" that other organisations create and endorse. The process for creating and endorsing these is already defined.

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.







Data Foundation & Terminology: a model for data in the registered domain.

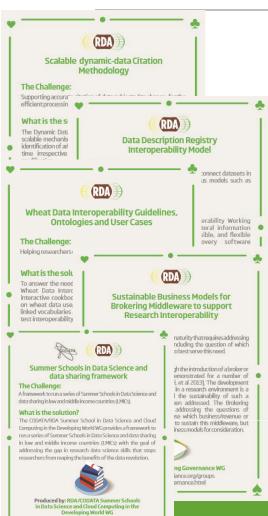
PID Information Types: a common protocol for providers and users of persistent ID services worldwide.

Data Type Registries: allowing humans and machines to act on unknown, but registered, data types.

Practical Policy: defining best practices of how to deal with data automatically and in a documented way with computer actionable policy.

Metadata standards directory: Community curated standards catalogue for metadata interoperability





https://www.rd-alliance.org/groups/rdacodata-su schools-data-science-and-cloud-computing-developing-world.html **Data Citation**: defining mechanisms to reliably cite dynamic data

Data Description Registry Interoperability solutions enabling cross platform discovery based on existing open protocols and standards

Wheat Data Interoperability impacting the discoverability, reusability and interoperability of wheat data by building a common framework for describing, representing linking and publishing wheat data

Brokering Governance WG: Sustainable Business Models for Brokering Middleware to support Research Interoperability

RDA/CODATA Summer Schools in Data Science and Cloud Computing in the Developing World WG: A framework to run a series of Summer Schools in Data Science and data sharing in low and middle income countries (LMICs)







Repository Audit and Certification DSA–WDS: A convergent DSA-WDS certification standard to help eliminate duplication of effort, increase certification procedure coherence and compatibility thus benefitting researchers, data managers, librarians and scientific communities.

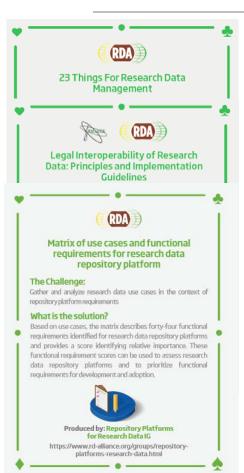
RDA/WDS Publishing Data Bibliometrics: improved research data metrics and corresponding services, with the final goal of increasing the overall availability and quality of citations and research data itself.

RDA/WDS Publishing Data Workflows: enhance the possibilities for greater discoverability and a more efficient and reliable reuse of research data benefitting other stakeholders like publishers, libraries and data centres.

RDA/WDS Publishing Data Services: A universal interlinking service between data and the scientific literature. The Scholix initiative a high level interoperability framework for exchanging information about the links between scholarly literature and data. It aims to build an open information ecosystem to understand systematically what data underpins literature and what literature references data.







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.

Legal Interoperability of Research Data Principles and Implementation Guidelines: a set of principles and practical implementation guidelines offered as high-level guidance to all members of the research community —the funders, managers of data centers, librarians, archivists, publishers, policymakers, university administrators, individual researchers, and their legal counsel.

Matrix of use cases and functional requirements for research data repository platform Based on use cases, the matrix describes forty-four functional requirements identified for research data repository platforms and provides a score identifying relative importance.

BioSharing Recommendations Data repositories, standards and policies in the life, biomedical and environmental sciences





Adoption & Implementation

"Solving the problem must include adopters in the process, to ensure that real problems are addressed. Open problem solving is the key."

RDA Recommendations and Outputs take the form of technical specifications, code, policies or practices, harmonized standards or reference models. In the widest sense these aim for:

- ☐ Greater data sharing, exchange, interoperability, usability and re-usability;
- ☐ Greater discoverability of research data sets;
- ☐ Better management, stewardship, and preservation of research data;
- □ New data standards or harmonization of existing standards.

RECOMMENDATIONS & **OUTPUTS**

All Recommendations & Outputs

Adoption Use Cases

Become an RDA Adopter



Addressing data challenges

https://www.rd-alliance.org/recommendations-andoutputs/all-recommendations-and-outputs



75 Adoption Cases

https://www.rd-alliance.org/recommendationsoutputs/adoption-recommendations

Find out how you can become an Adopter

https://www.rd-alliance.org/recommendations-and-outcomes/become-rda-adopter







RDA Adoption & Implementation Stories - Tell us yours!

ADOPTING RDA OUTPUTS FOR ... CLIMATE DATA



DKRZ adopts 6 RDA outputs for climate data modelling

RDA in a Nutshell

WWW.RD-ALLIANCE.ORG/ @RESDATALL



RDA Global

Email - enquiries@rd-alliance.org

Web - www.rd-alliance.org

Twitter - @resdatall

LinkedIn - www.linkedin.com/in/ResearchDataAlliance

Slideshare -

http://www.slideshare.net/ResearchDataAlliance

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RDA US

Twitter - @RDA_US