

RDA: What, Where, When and How

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□ What to use RDA for?

- As an international, neutral forum to discuss topics related to data sharing with people from very different profiles
- 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
 - 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



Making data sharing work in the era of Open Science

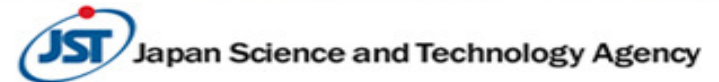
First in Asia

RDA 7th Plenary in Tokyo, Japan

March 1st to 3rd, 2016

Data Sharing Symposium - pre-RDA Plenary

February 29th, 2016



7 RDA Recommendations/outputs presented:

- Repository Audit and Certification DSA–WDS
- RDA/WDS Publishing Data Bibliometrics
- RDA/WDS Publishing Data Services
- RDA/WDS Publishing Data Workflows
- Wheat Data Interoperability Recommendations
- RDA/CODATA Summer Schools in Data Science and Cloud Computing in the Developing World Interim Recommendations
- Brokering Governance Interim Recommendations
- **11 adoption presentations**

357 attendees
from 33
countries

- 30 international speakers over 5 plenary sessions
- 7 outputs & 11 adoption cases
- 8 Working Group meetings
- 25 Interest Group meetings
- 10 Birds of a Feather
- 9 Joint meetings
- 2 Organisational Member meetings
- RDA for Newcomers Meeting

INTERNATIONAL DATA WEEK 2016

WWW.INTERNATIONALDATAWEEK.ORG

DENVER, COLORADO, US

11-17 SEPTEMBER 2016

Organized by:



▪ RDA deliverables presented:

- RDA/CODATA Summer Schools in Data Science and Cloud Computing in the Developing World WG
- Brokering Governance WG
- Metadata Standards Catalog WG Recommendations
- Biosharing Registry WG Recommendations
- Scholix Framework
 - + 6 Adoption cases

▪ 69 Breakout session meetings:

- 12 BoF Meetings
- 31 Interest group meetings
- 10 Working group meetings
- 16 Joint group meetings
- 69 Breakout sessions

▪ Newcomers Session, 2 RDA organisational members meeting, TAB and Chairs session

- RDA/EU sponsored 8 European Early Career Researchers and Scientists & RDA/US sponsored 8 Fellowship
- 42 posters on display



RESEARCH DATA ALLIANCE
8th Plenary Meeting

15-17 September 2016
Denver, Colorado, US

549 participants from 33 countries

rd-alliance.org/plenaries/rda-eighth-plenary-meeting-denver-co

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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!

[rd-alliance.org/plenaries/rda-ninth-plenary-meeting-barcelona](https://www.rd-alliance.org/plenaries/rda-ninth-plenary-meeting-barcelona)

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The 10th RDA Plenary Meeting will take place from 19 to 21 September 2017 in Montreal, Canada. The meeting is co-organised by RDA, the University of Montreal and Research Data Canada, Canada.

<https://www.rd-alliance.org/plenaries/rda-tenth-plenary-meeting-montreal-canada>

[rd-alliance.org/plenaries/rda-tenth-plenary-meeting-montreal-canada](https://www.rd-alliance.org/plenaries/rda-tenth-plenary-meeting-montreal-canada)

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□ How

- ... to become a member of the RDA?
- ... to create a RDA Group?
- ... to produce a RDA recommendation or output?

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?

- BoF: proposal for a Plenary session
- WG, IG:
 - 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 find 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 84 groups:
35 Working Groups & 49 Interest Groups

Domain Science - focused

- Agrisemantics WG
- BioSharing Registry WG
- Fisheries Data Interoperability WG
- On-Farm Data Sharing (OFDS) WG
- Rice Data Interoperability WG
- Wheat Data Interoperability WG
- Agriculture Data IG (IGAD)
- Biodiversity Data Integration IG
- Chemistry Research Data IG
- Digital Practices in History and Ethnography IG

- Geospatial IG
- Global Water Information IG
- Health Data IG
- Mapping the Landscape IG
- Marine Data Harmonization IG
- Quality of Urban Life IG
- RDA/CODATA Materials Data, Infrastructure & Interoperability 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 Science and data-related education and training certification and accreditation schemes WG
- RDA/CODATA Summer Schools in Data Science and Cloud Computing in the Developing World WG
- Teaching TDM on Education and Skill Development WG
- Archives & Records Professionals for Research Data IG

- Data for Development IG
- Development of Cloud Computing Capacity and Education in Developing World Research IG
- Education and Training on handling of research data IG
- Ethics and Social Aspects of Data IG



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

Total 84 groups:
35 Working Groups & 49 Interest Groups

Reference and Sharing - focused

- Data Citation WG
- Data Description Registry Interoperability WG
- Data Security and Trust WG
- Empirical Humanities Metadata WG
- RDA / WDS Publishing Data Bibliometrics WG
- Research Data Collections WG
- QoS-DataLC Definitions WG
- International Materials Resource Registries WG
- National Data Services IG
- RDA/CODATA Legal Interoperability IG
- Reproducibility IG
- Data Discovery Paradigms IG
- Repository Core Description WG
- Research Data Repository Interoperability WG

Partnership Groups

- RDA / TDWG Metadata Standards for attribution of physical and digital collections stewardship WG
- RDA/NISO Privacy Implications of Research Data Sets IG
- RDA/WDS Scholarly Link Exchange Working Group
- Repository Audit and Certification DSA-WDS Partnership WG
- RDA/WDS Publishing Data IG
- ELIXIR Bridging Force IG

RDA Interest (IG) & Working Groups (WG) by Focus (3)

Total 84 groups:
35 Working Groups & 49 Interest Groups

Data Stewardship and Services – focused

- Brokering Framework WG
- Brokering Governance WG
- WDS/RDA Assessment of Data Fitness for Use WG
- RDA / WDS Publishing Data Services WG
- RDA / WDS Publishing Data Workflows 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
- 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

Base Infrastructure – focused

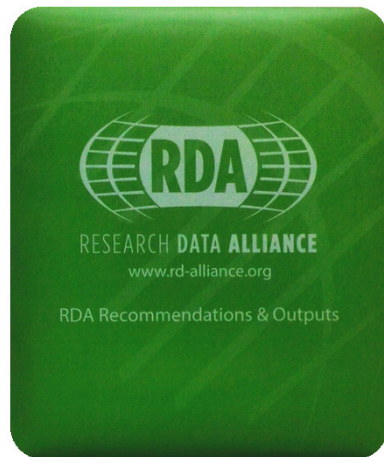
- Array Database Assessment WG
- Data Foundation and Terminology WG
- Data Type Registries WG
- Metadata Standards Catalog WG
- Metadata Standards Directory WG
- PID Information Types WG
- PID Kernel Information WG
- Practical Policy WG
- Data Fabric IG
- Data Foundations and Terminology IG
- Big Data IG
- Brokering IG
- Federated Identity Management IG
- Metadata IG
- PID IG
- Vocabulary Services IG

□ How to produce an Output?

- Work hard with your colleagues and produce a an output of interest for others!



RDA Recommendations & Outputs



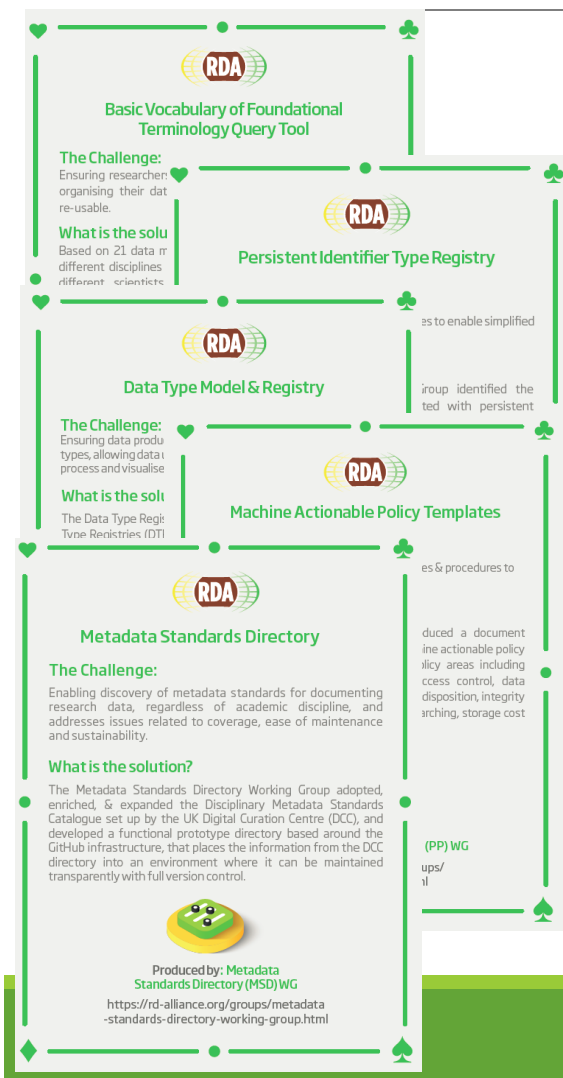
THE RDA OUTCOMES LEGEND

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.

RDA Recommendations & Outputs



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.

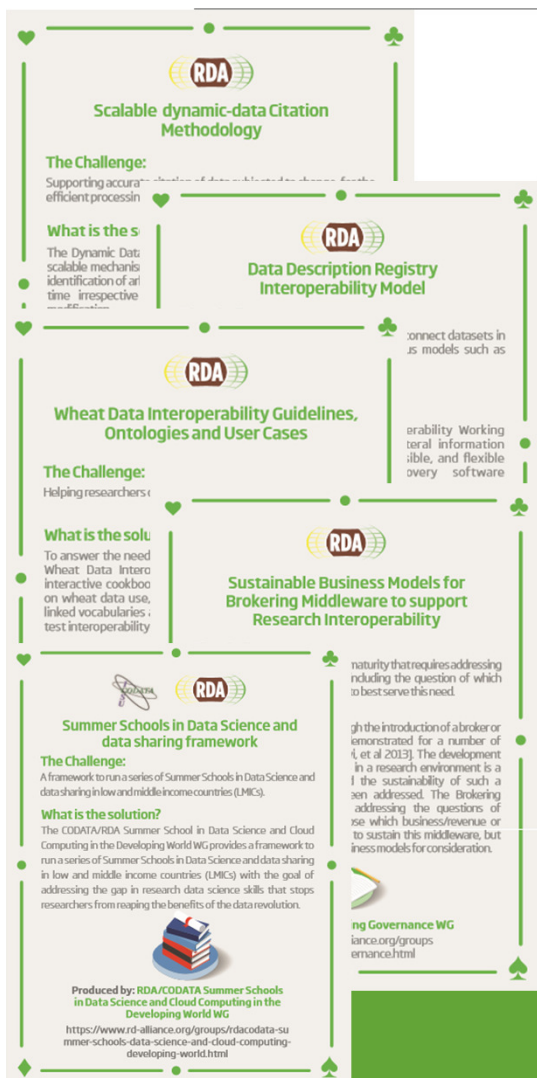
Data Type Registries: allowing humans and machines to act on unknown, but registered, data types.

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

rd-alliance.org/recommendations-and-outputs/all-recommendations-and-outputs

RDA Recommendations & Outputs



Scalable dynamic-data Citation Methodology

The Challenge: Supporting accurate, efficient processing of dynamic data.

What is the solution? The Dynamic Data scalable mechanism for identification of artifacts irrespective of time.

Data Description Registry Interoperability Model

connect datasets in various models such as...

Wheat Data Interoperability Guidelines, Ontologies and User Cases

The Challenge: Helping researchers connect datasets in various models such as...

What is the solution? To answer the need for Wheat Data Interoperability, an interactive cookbook on wheat data use, linked vocabularies, and test interoperability.

Summer Schools in Data Science and data sharing framework

The Challenge: A framework to run a series of Summer Schools in Data Science and data sharing in low and middle income countries (LMICs).

What is the solution? The CODATA/RDA Summer School in Data Science and Cloud Computing in the Developing World WG provides a framework to run a series of Summer Schools in Data Science and data sharing in low and middle income countries (LMICs) with the goal of addressing the gap in research data science skills that stops researchers from reaping the benefits of the data revolution.

Brokering Governance WG

...naturally that requires addressing the question of which to best serve this need.

...gh the introduction of a broker or demonstrated for a number of years (et al 2013). The development in a research environment is a key to the sustainability of such a system addressed. The Brokering addressing the questions of use which business/revenue or to sustain this middleware, but business models for consideration.

Produced by: RDA/CODATA Summer Schools in Data Science and Cloud Computing in the Developing World WG
<https://www.rd-alliance.org/groups/rdacodata-summer-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)

rd-alliance.org/recommendations-and-outputs/all-recommendations-and-outputs



RDA Recommendations & Outputs

Repository Audit and Certification Catalogues

Bibliometric Indicators for Data Publishing

Workflows for Research Data Publishing: Models and Key Components

An open, universal literature-data cross-linking service

The Challenge:
Sharing information about the links between the literature and research data.

What is the solution?
Building on pre-existing components and international initiatives, the RDA/WDS Publishing Data Services Working Group is one of the drivers behind the "Data Literature Interlinking Service" (DLI), developed in a synergy with OpenAIRE & PANGAEA. DLI is aimed at improving visibility, discoverability, re-use and reproducibility by bringing 2M+ existing article/data links together, normalize them using a common schema, and exposing the full set as an open service.

Produced by: RDA/WDS Publishing Data Services WG
<https://rd-alliance.org/groups/rdawds-publishing-data-services-wg.html>

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.





RDA Recommendations & Outputs

23 Things For Research Data Management

Legal Interoperability of Research Data: Principles and Implementation Guidelines

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

The Challenge:
Gather and analyze research data use cases in the context of repository platform requirements

What is the solution?
Based on use cases, the matrix describes forty-four functional requirements identified for research data repository platforms and provides a score identifying relative importance. These functional requirement scores can be used to assess research data repository platforms and to prioritize functional requirements for development and adoption.

Produced by: **Repository Platforms for Research Data IG**
<https://www.rd-alliance.org/groups/repository-platforms-research-data.html>

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.

RDA in a Nutshell

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