

RDA activities and outputs

Françoise Genova Data Curation & Preservation IVOA May 2018







H2020-Astronomy ESFRI and Research Infrastructure Cluster (Grant Agreement number: 653477).



THE RESEARCH DATA ALLIANCE

www.rd-alliance.org

building the social and technical bridges that enable open sharing of data

18 FLAGSHIP OUTPUTS

of which 4 ICT Technical Specifications

75 ADOPTION CASES

across multiple disciplines, organisations & countries

91 GROUPS WORKING ON GLOBAL DATA INTEROPERABILITY CHALLENGES

of which 33 WORKING GROUPS

& 58 INTEREST GROUPS

6,952 INDIVIDUAL MEMBERS FROM 137 COUNTRIES

67% Academia & Research
15% Public Administration
11% Enterprise & Industry

43 ORGANISATIONAL MEMBERS & 8 AFFILIATE MEMBERS



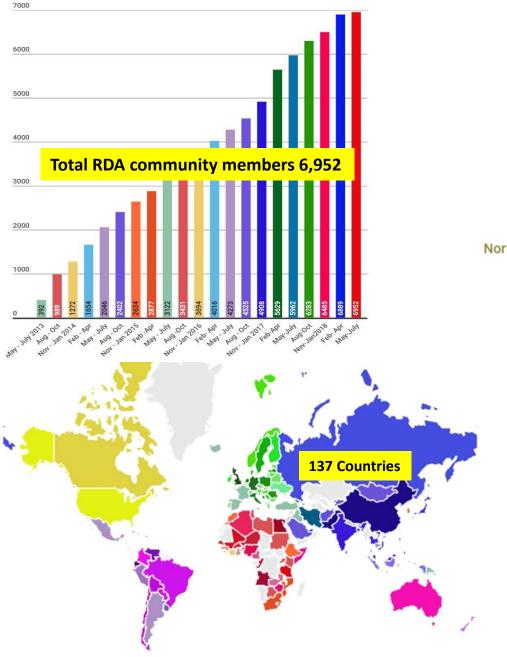
Vision

Researchers and <u>innovators</u> openly share data across technologies, disciplines, and countries to address the grand challenges of society.

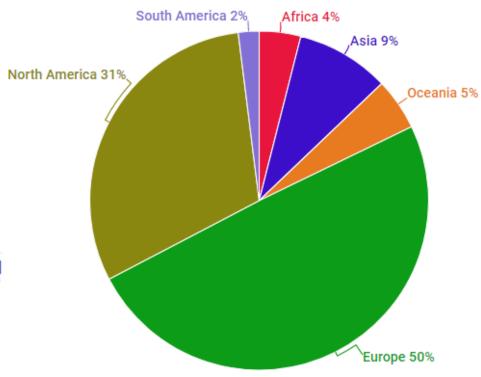
Mission

RDA builds the social and technical bridges that enable open sharing of data.





RDA worldwide growth









RDA Interest (IG) & Working Groups (WG) by Focus (1) Total 91 groups:

33 Working Groups & 58 Interest Groups

Domain Science - focused	□Earth, Space, and Environmental Sciences IG		
□Agrisemantics WG	□Geospatial IG		
□BioSharing Registry WG	□Global Water Information IG □Health Data IG		
□Blockchain Applications in Health WG			
□Capacity Development for Agriculture Data WG	Linguistics Data Interest Group		
□ Fisheries Data Interoperability WG	■Mapping the Landscape IG		
□On-Farm Data Sharing (OFDS) WG	☐Marine Data Harmonization IG		
□Rice Data Interoperability WG	 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 		
□Wheat Data Interoperability WG □Agricultural Data IG (IGAD)			
			□ Biodiversity Data Integration IG
Chemistry Research Data IG			
□ Digital Practices in History and Ethnography IG			■Weather, Climate and air quality IG
Partnership Groups	■ RDA/NISO Privacy Implications of Research Data Sets IG		
 RDA / TDWG Metadata Standards for attribution of physical and digital collections stewardship WG 	□ RDA/WDS Publishing Data IG		
RDA/WDS Scholarly Link Exchange Working Group			
□ ELIXIR Bridging Force IG			





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

Total 91 groups: 33 Working Groups & 58 Interest Groups

Reference and Sharing - focused Data Citation WG Data Description Registry Interoperability WG Data Security and Trust WG Empirical Humanities Metadata WG International Materials Resource Registries WG Provenance Patterns WG QoS-DataLC Definitions WG	 RDA / WDS Publishing Data Bibliometrics WG Repository Core Description WG Research Data Collections WG Research Data Repository Interoperability WG Data Discovery Paradigms IG National Data Services IG RDA/CODATA Legal Interoperability IG Reproducibility IG Sharing Rewards and Credit (SHARC) IG
 Community Needs - focused Certification and Accreditation for Data Science Training and Education WG RDA/CODATA Summer Schools in Data Science and Cloud Computing in the Developing World WG Teaching TDM on Education and Skill Development WG CODATA/RDA Research Data Science Schools for Low and Middle Income Countries Archives & Records Professionals for Research Data IG Data for Development IG 	 Development of Cloud Computing Capacity and Education in Developing World Research IG Early Career and Engagement IG Education and Training on handling of research data IG Ethics and Social Aspects of Data IG International Indigenous Data Sovereignty IG Open Questionnaire for Research Data Sharing Survey IG





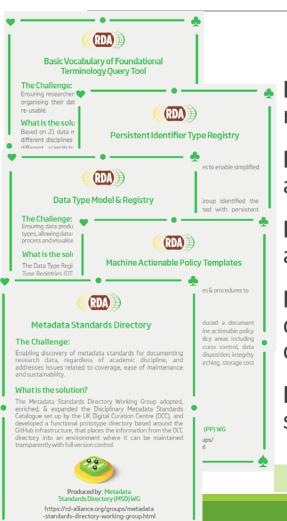
RDA Interest (IG) & Working Groups (WG) by

Focus (3)

Total 91 groups: 33 Working Groups & 58 Interest Groups

Da	ta Stewardship and Services – focused	Libraries for Research Data IG
	Brokering Framework WG	Long tail of research data IG
	DMP Common Standards WG	Physical Samples and Collections in the Research Data
	, 3	Ecosystem IG Preservation e-Infrastructure IG
	RDA / WDS Publishing Data Workflows WG	Preservation Tools, Techniques, and Policies IG
	WDS/RDA Assessment of Data Fitness for Use WG Active Data Management Plans IG Data in Context IG Data Rescue IG	RDA/WDS Certification of Digital Repositories IG
		RDA/WDS Publishing Data Cost Recovery for Data Centres IG
		Repository Platforms for Research Data IG
	Data Versioning IG	Research Data Architectures in Research Institutions IG
	Domain Repositories 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 Metadata IG PID IG Software Source Code IG Vocabulary Services IG
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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.

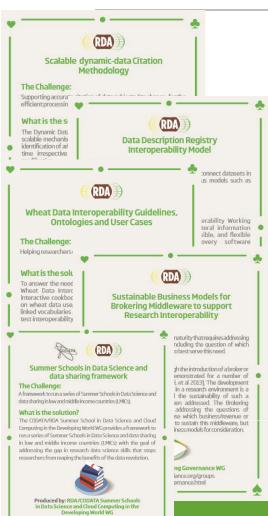
Data Type Registries: allowing humans and machines to act on unknown, but registered, data types.

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





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)

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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.

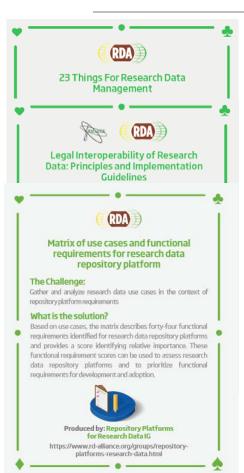
RDA/WDS Publishing Data Workflows: enhance the possibilities for greater discoverability and a more efficient and reliable reuse of research data benefitting other stakeholders like publishers, libraries and data centres.

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.

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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.

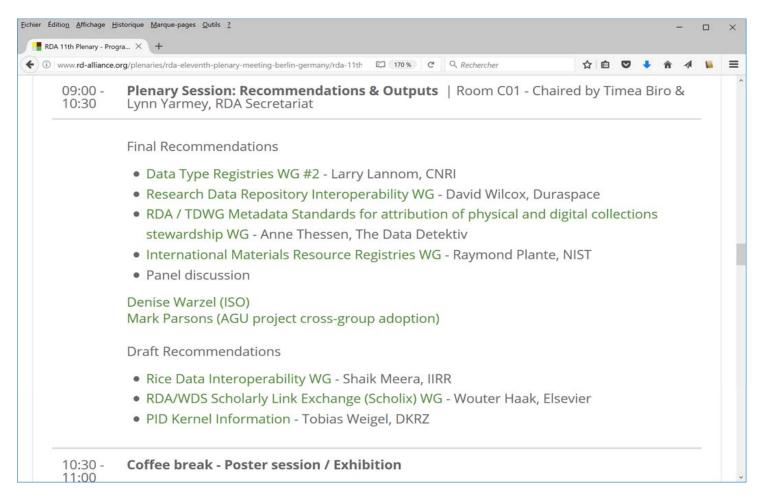
Matrix of use cases and functional requirements for research data repository platform Based on use cases, the matrix describes forty-four functional requirements identified for research data repository platforms and provides a score identifying relative importance.

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

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



Berlin recommendations

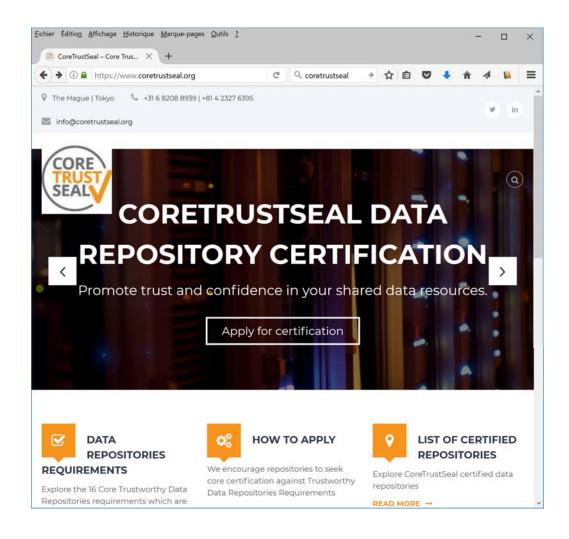


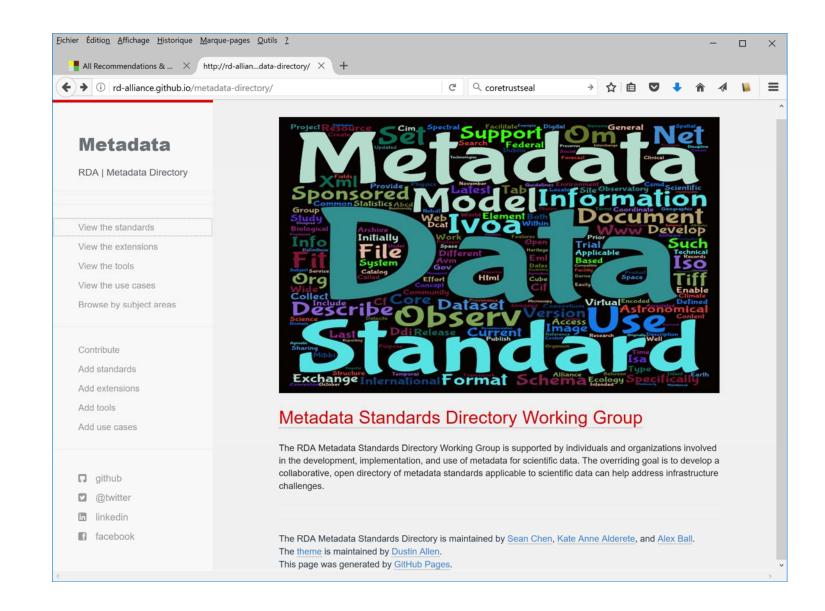
http://www.rd-alliance.org/plenaries/rda-eleventh-plenary-meeting-berlin-germany/rda-11th-plenary-programme

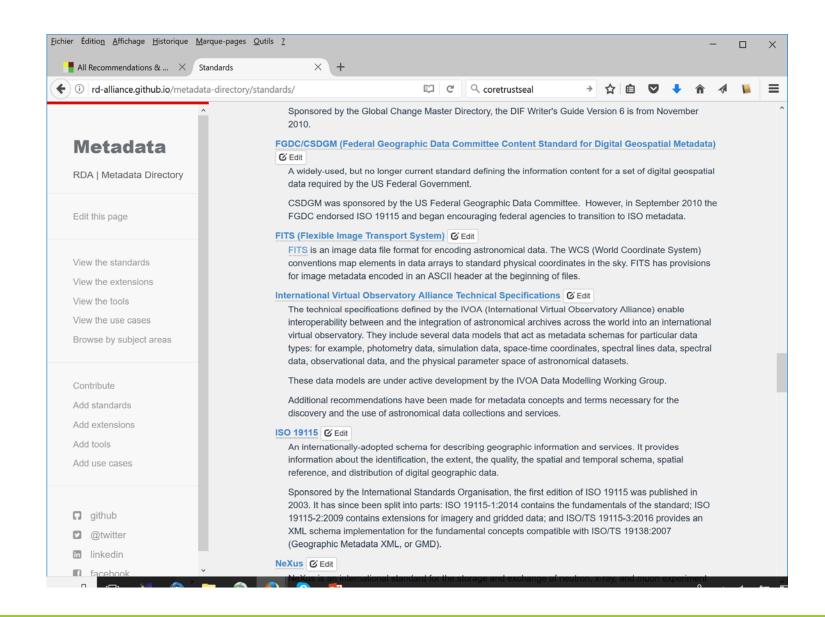
Recent proposed recommendations

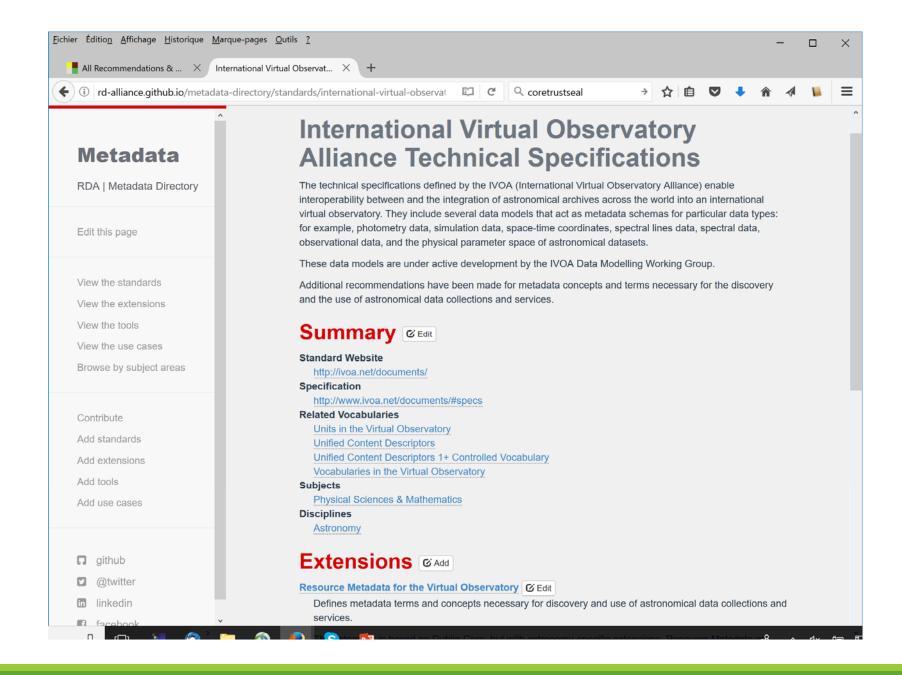
Research Data Repository Interoperability Primer: Presents a set of initial use cases, as well as an overview of standards, technologies and tools that could be components of an agreed adoptable approach to facilitating interoperability between different research data repository platforms. Main focus is on machine-machine communication with the primary goal of enabling migration and replication.

CoreTrust Seal launched







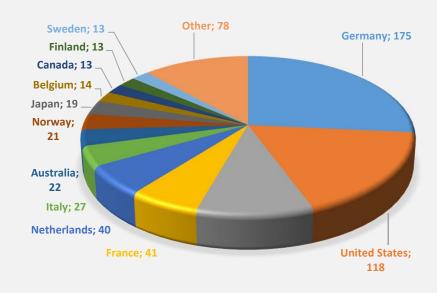


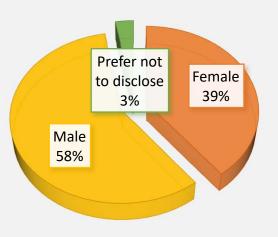


661 participants from 41 countries

83 Breakout meetings

- 19 Working Groups
- 37 Interest Groups
- 12 Joint Working & Interest Groups
- 15 Birds of a Feather
- 4 Final Recommendations presented
- 3 New Recommendations
- Collaboration projects with AGU and ISO on adoption and impact metrics





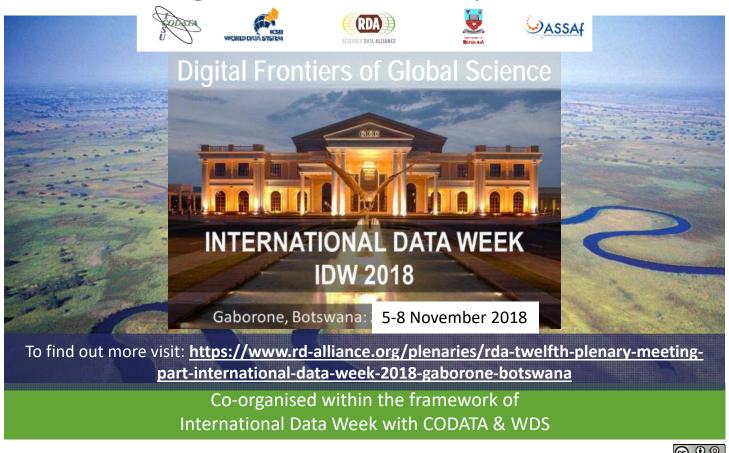
Gender balance

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Looking Forward to Plenary 12: Botswana







RDA in a Nutshell

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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

RDA Europe

Email - info@europe.rd-alliance.org

Twitter - @RDA_Europe

RDA US

Twitter - @RDA_US