

RDA Update & P10 highlights



Irina Kupiainen, CSC/RDA Europe 10 October, 2017

RDA Finland meeting, Espoo WWW.RD-ALLIANCE.ORG - @RESDATALL



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

85 GROUPS WORKING ON GLOBAL DATA INTEROPERABILITY CHALLENGES

of which 28 WORKING GROUPS

& 57 INTEREST GROUPS

5,825 INDIVIDUAL MEMBERS FROM 128 COUNTRIES

67% Academia & Research14% Public Administration11% Enterprise & Industry



Vision

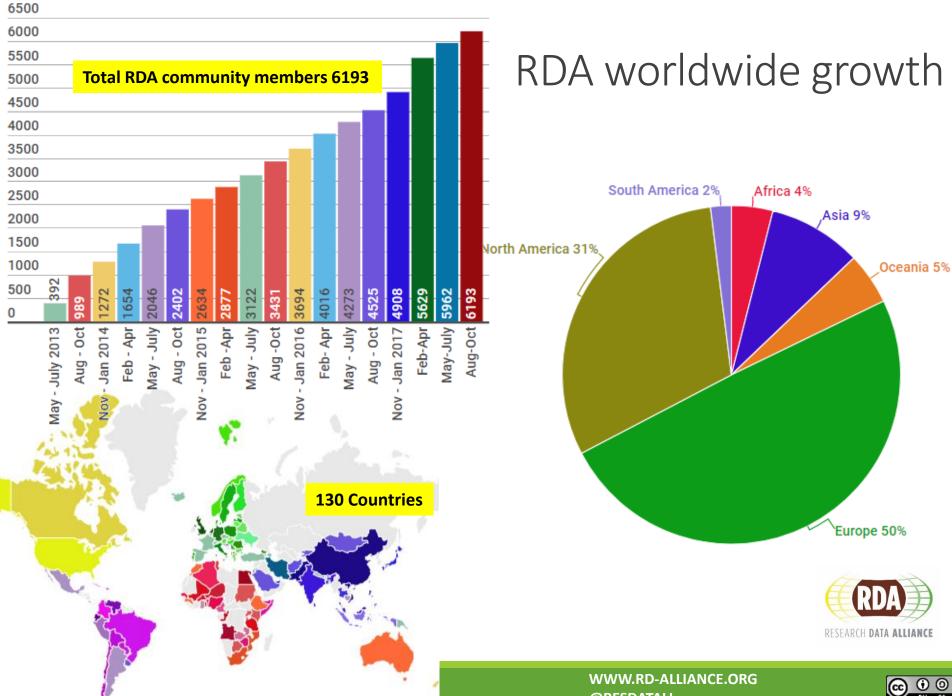
Researchers and <u>innovators</u> openly share data across technologies, disciplines, and countries to address the grand challenges of society.

Mission

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

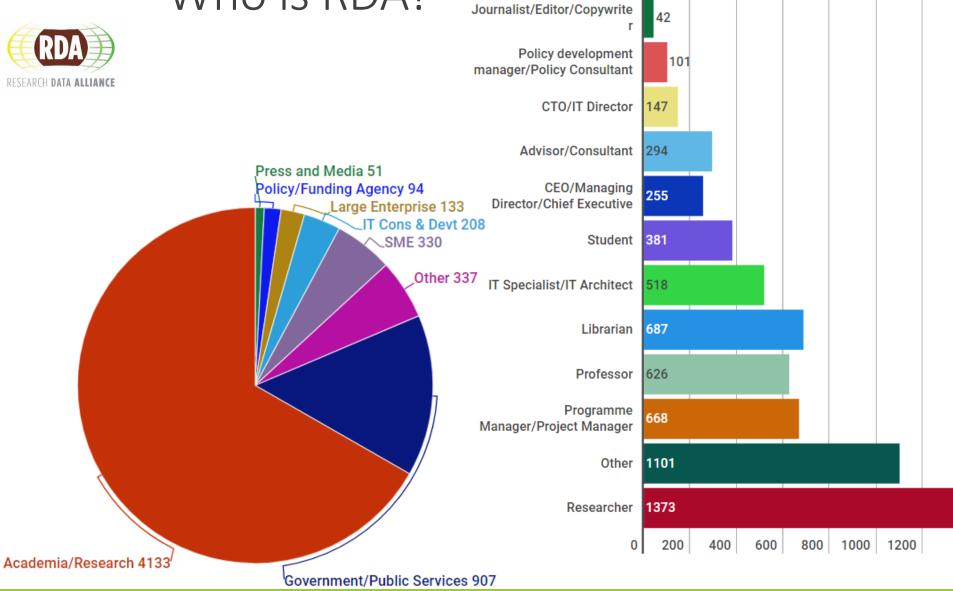
43 ORGANISATIONAL MEMBERS & 8 AFFILIATE MEMBERS







Who is RDA?







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

Total 88 groups: 30 Working Groups & 58 Interest Groups







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

Partnership Groups

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





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

Focus (3)

Total 88 groups: 30 Working Groups & 58 Interest Groups

	Libraries for Research Data IG
Data 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	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
Domain Repositories IG	
Base 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	Brokering IG Federated Identity Management IG Metadata IG PID IG Software Source Code IG Vocabulary Services IG



Big Data IG

Top 10 EU countries

Country	Actual Members
United Kingdom	511
Germany	301
France	241
Netherlands	210
Italy	171
Ireland {Republic}	119
Finland	97
Greece	90
Spain	82
Belgium	56
Switzerland	51
Austria	39



RDA Outputs and adoption



RDA Recommendations that make data work

"Create - Adopt - Use"

- ✓ Adopted code, policy, specifications, standards, or practices that enable data sharing
- ✓ "Harvestable" efforts for which 12-18 months of work can eliminate a roadblock
- Efforts that have substantive applicability to groups within the data community but may not apply to all
- ✓ Efforts that can start today

18 flagship recommendations & outputs, over 75 cases of adoption in different domains, organisations and countries

75 Adoption Cases

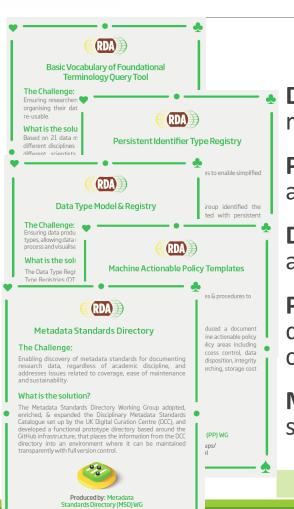
https://www.rd-alliance.org/recommendations-outputs/adoption-recommendations

Find out how you can become an Adopter

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







https://rd-alliance.org/groups/metadata

-standards-directory-working-group.html

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.

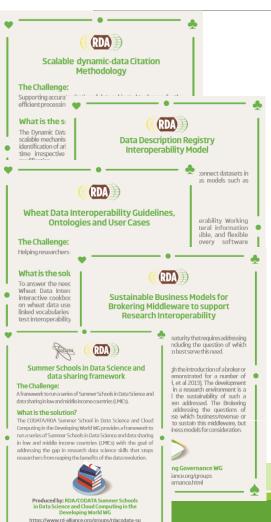
Data Type Registries: allowing humans and machines to act on unknown, but registered, data types.

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







mer-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.

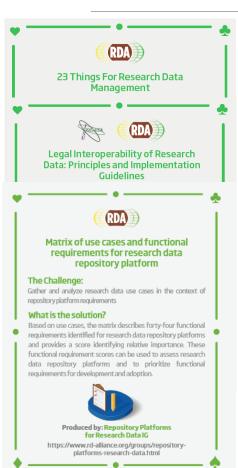
RDA/WDS Publishing Data Bibliometrics: improved research data metrics and corresponding services, with the final goal of increasing the overall availability and quality of citations and research data itself.

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 fortyfour 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





Call for Supporting and Other RDA Outputs



If your group has produced something that you would like to share with the broader community, please send it to enquiries@rd-alliance.org and indicate whether you would like it to be considered as a 'Supporting' or 'Other' output.

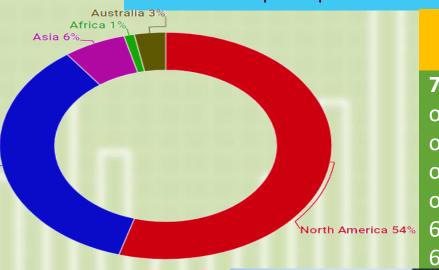


https://rd-alliance.org/call-supporting-and-other-rda-outputs





Over 430 participants from 30 countries



Increased female participation 44% the highest sofar

73 Breakout meetings
of which 14 Working Groups
of which 37 Interest Groups
of which 6 Joint Working & Interest Groups
of which 16 Birds of a Feather
6 Outputs presented / 1 Final Release
60 Posters





Europe 35%,

Highlights from P10

Growth - and what to do about it?

At the time of P1, there were 240 members from 30 countries.

At the time of P10, there are more than 6000 members 130 countries.

Need to professionalize:

- -Strategy
- -Sustainability
- -Scalability
- -Impact
- -Standardized approaches
- -Regional coordination

Challenges and new emerging issues...

- Dominance of Europe and US
- Humanities + medical and health sciences still under-represented
- How to boost impact and benefit for all members and communities?
- ◆ Voluntary basis important, but some level of support is needed: Community feedback and follow-up collection by Secretariat more inclusiveness, more integrative activities
- Gender and diversity issues
- Improving the handling of recommendations, DOIs
- Tracking IG/WG publications with help of OpenAIRE

Implications for Finland?

- Finland's activity in working and interest groups
- National level uptake of RDA outputs
- Linkages to and coherence with parallel European RI initiatives such as the European Open Science Cloud
- Linkages to other intiatives such as CODATA etc.
- Contribution to RDA's future development on the strategic level
- Entering into the next phase of RDA Europe...

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