

What happened at the Montreal Plenary? Plenary?

PLENARY MEETING / CONFERENCE:

19-21 SEPTEMBER/SEPTEMBRE 2017
MONTREAL, CANADA

RDC - DRC Université de Meetines

October, 25 2017 Ingrid Dillo



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

88 GROUPS WORKING ON GLOBAL DATA INTEROPERABILITY CHALLENGES

of which 30 WORKING GROUPS

& 58 INTEREST GROUPS

6,193 INDIVIDUAL MEMBERS FROM 130 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.





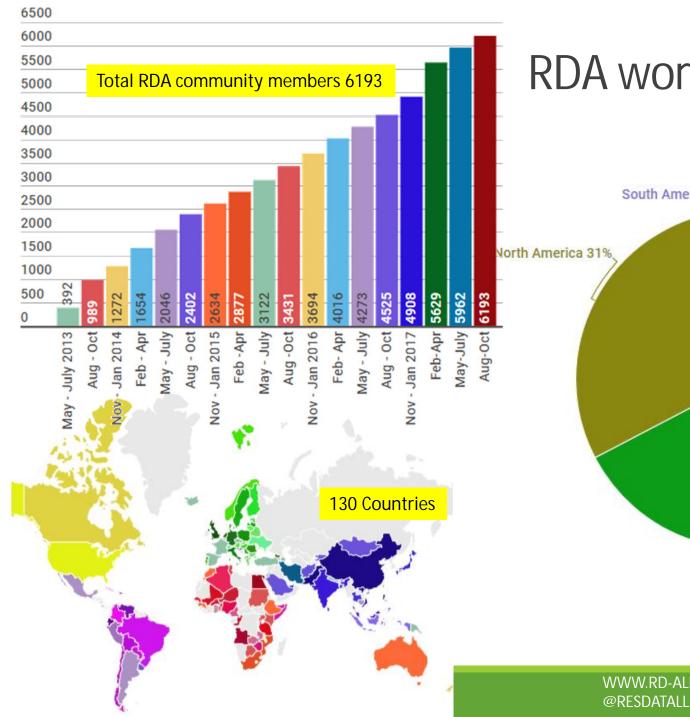
What is RDA?

RDA is an international member based organization 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.

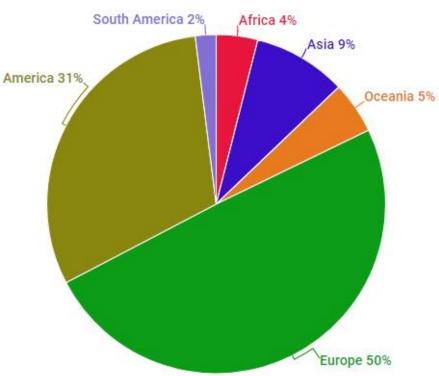
With more than 6,100 members globally representing 130 countries, RDA includes researchers, scientists and data science professionals working in multiple disciplines, domains and thematic fields and from different types of organisations across the globe.

RDA is building the social and technical bridges that enable open sharing of data to achieve its vision of researchers and innovators openly sharing data across technologies, disciplines, and countries to address the grand challenges of society.





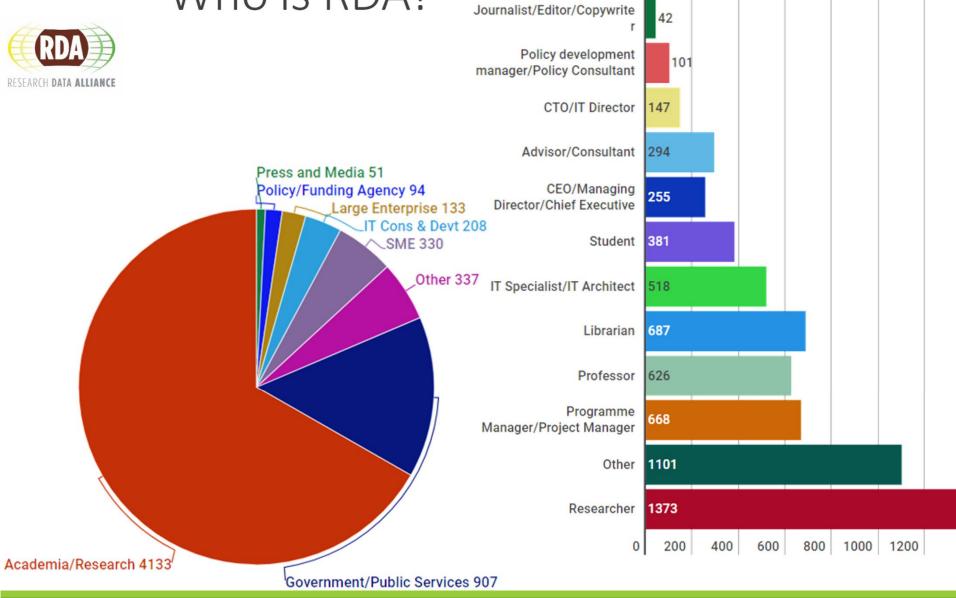
RDA worldwide growth







Who is RDA?







Organisational & Affiliate Members

43 Organisational Members



canarie































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netherlands Science center















University of Pittsburgh

















What does RDA do?

Members come together through self-formed, volunteer, focussed Working Groups, exploratory Interest Groups to exchange knowledge, share discoveries, discuss barriers and potential solutions, explore and define policies and test as well as harmonise standards to enhance and facilitate global data sharing & re-use.

RDA members collaborate together across the globe to tackle numerous infrastructure & data sharing challenges related to:

- Reproducibility
- Data preservation
- Best practices for domain repositories
- Legal interoperability

- Data citation
- Data type registries
- ❖ Metadata
- and so many more!



DATA SHARING



RDA Membership Domain Coverage



► 52% Natural Science

▼ 4% Humanities

▼ 20% Social Science

▶ 20% Agricultural Science ▲ 17% Engineering and Technology

→ 4% Medical and Health Sciences

Agricultural Science	% members
Other agricultural sciences	62%
Agriculture, forestry, and fisherie	s 24%
Agricultural biotechnology	11%
Animal and dairy science	3%

Humanities	% members
History and archaeology	38%
Other humanities	33%
Languages and literature	19%
Art (arts, history of arts, performing arts, music)	5%
Philosophy, ethics and religion	4%

Medical and Health Sciences	% members
Health sciences	44%
Other medical sciences	31%
Health biotechnology	11%
Basic medicine	9%
Clinical medicine	6%

Engineering and Technology	% members
Electrical engineering, electronic, engineering, information engineering	60%
Other engineering and technologies	18%
Environmental engineering	6%
Materials engineering	6%
Civil engineering	3%
Industrial Biotechnology	2%
Chemical engineering	2%
Medical engineering	1%
Mechanical engineering	1%
Environmental biotechnology	1%
Nano-technology	0%

Social Sciences	% members
Economics and business	13%
Educational sciences	44%
Media and communications	13%
Other social sciences	8%
Law	7%
Sociology	6%
Political Science	5%
Psychology	2%
Social and economic geography	3%

Natural Sciences	% members
Computer and information sciences	67%
Earth and related environmental sciences	17%
Biological sciences	7%
Physical sciences	3%
Other natural sciences	3%
Chemical sciences	2%
Mathematics	1%

Based on the OECD's Frascati Manual classification Figures based on 5000 members

Total 88 groups: 30 Working Groups & 58 Interest Groups





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 with over75 cases of adoption in different domains, organisations and countries





ICT Technical Specifications

The European Commission has a flexible approach to standardisation when identifying new ICT technical specifications.

Once identified and approved, these specifications can then be referenced in European public procurement.

Encourage competition, promote interoperability and innovation, and facilitate the provision of cross-border services.

- ✓ Research Data Alliance is recognised as an organisation compliant with the requirements to issue ICT Technical Specifications
- √ 4 RDA recommendations identified as ICT Technical Specifications (published in Official EC Journal)
- ✓ 5 further RDA recommendations currently under approval process



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

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

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Over 430 participants from 30 countries

U 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



Australia 3%

Africa 1%

Asia 6%











RDA Strategy 2018-2020

- ➤ Now is the time for a forward-looking strategy for RDA
- Important issues to address: scalability, governance, regional and disciplinary engagement, new domains, sustainability, business models
- Examples of what we need to answer:
 - ➤ How we can work with other data initiatives and other data stakeholders?
 - ➤ How can RDA cope with twice as many working groups?
 - ➤ How can we grow and still retain our dynamic membership culture?
 - ➤ How do we make global solutions from distinct, diverse regions?
 - ► How can we make sure that we remain sustainable?
- ➤ Action-focused, fast but consultative, clear tracked deliverables
- Working throughout with Council & Subcommittees, TAB, Secretariat, and RDA membership





Council Meeting July P10 Montreal September Council Meeting November

P11 Berlin March Council Meeting July

Plan to develop new Strategy Identify strategic priorities, draft plan Present for Membership input & feedback

Finalise, resource & deliver

Seek membership input & engagement





Moving Towards Plenary 11: Berlin!



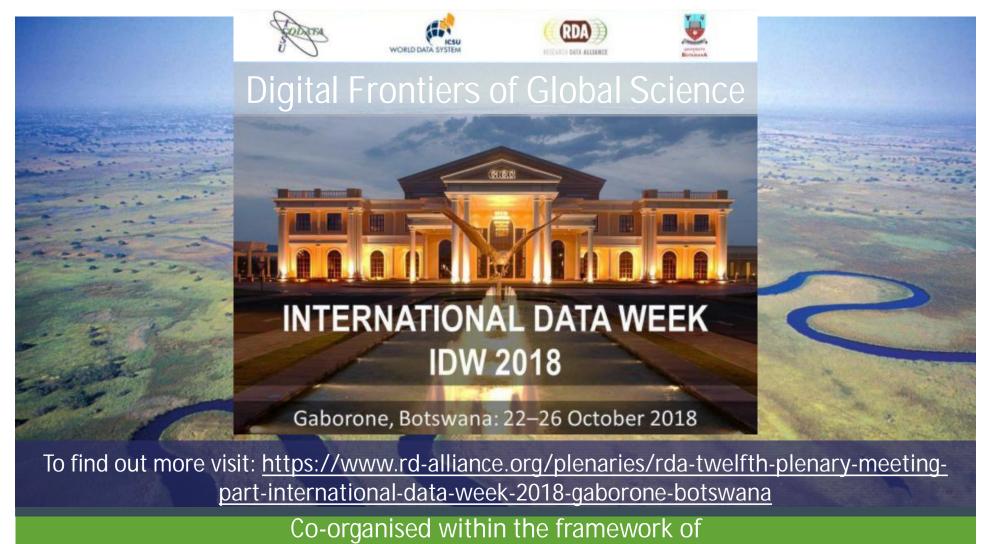
From Data to Knowledge

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





Looking Forward to Plenary 12: Botswana



International Data Week with CODATA & WDS

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RDA in a Nutshell

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RDA Global

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