

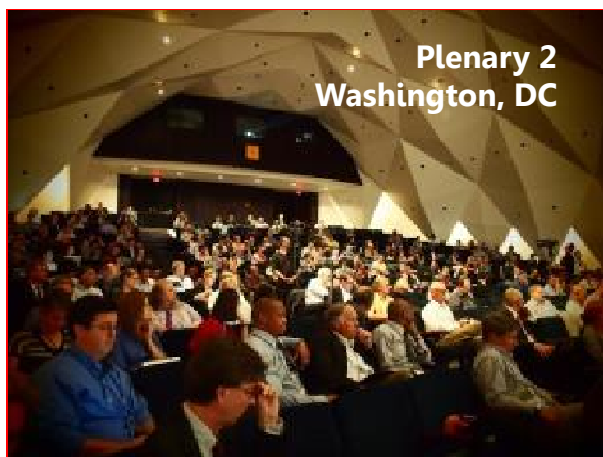


Update on the Research Data Alliance January 2015

research data sharing without barriers
rd-alliance.org

Research Data Alliance Created to Accelerate Development² of Research Data Sharing Infrastructure Worldwide

- RDA community focuses on building **social, organizational and technical infrastructure** to
 - reduce barriers to data sharing and exchange
 - accelerate the development of coordinated global data infrastructure



research data sharing without barriers
rd-alliance.org

CREATE → ADOPT → USE

RDA Working Group Infrastructure Deliverables are:

- **Focused pieces of adopted code, policy, infrastructure, standards, or best practices** that enable data to be shared and exchanged
- **"Harvestable" efforts** for which 12-18 months of work can eliminate a roadblock for a substantial community
- **Efforts that have substantive applicability** to "chunks" of the data community, but may not apply to everyone
- **Efforts for which working scientists and researchers can start today** while more long-term or far-reaching solutions are appropriately discussed in other venues

Precipitous Growth

First RDA
Deliverables
presented

3



**RDA Plenary 1 /
Launch**
Gothenburg, Sweden

First “neutral
space” community
meeting (Data
Citation Summit)

First Organizational
Partner Meet-up

First BOFs

380 participants
from 22 countries

**RDA Second
Plenary**

First
Organizational
Assembly

6 co-located
events

14 BOF,
12 Working
Groups, 22
Interest Groups

497 Participants
from 32 countries

**RDA Third
Plenary**

Organizational
Assembly and first
OAB / Council
meeting

10 co-located
events

11 BOF,
14 Working Groups,
36 Interest Groups

550 Participants
from 40 countries

**RDA Fourth
Plenary**

First Working
Groups and
Interest Groups

240 participants

**RDA Launch /
First Plenary**

Global Data
Planning
Meeting:
October
2012

March 2013

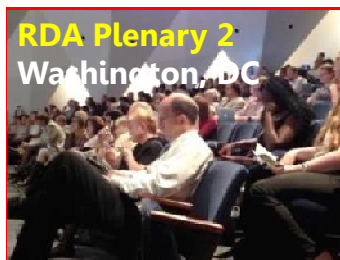
September 2013

March 2014

September 2014

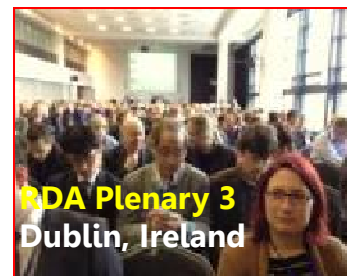
First RDA
organizational
telecon: August
2012

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RDA Plenary 2
Washington, DC

First
Working
Group
exchange
meeting



RDA Plenary 3
Dublin, Ireland

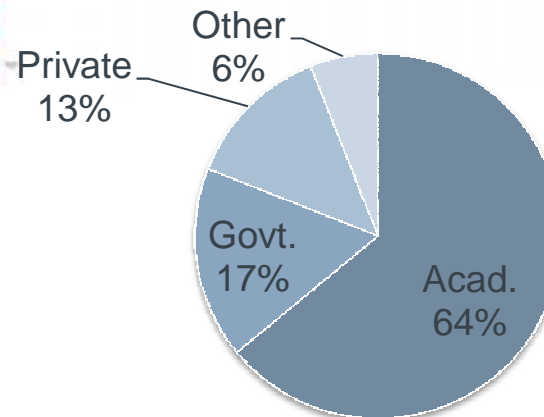
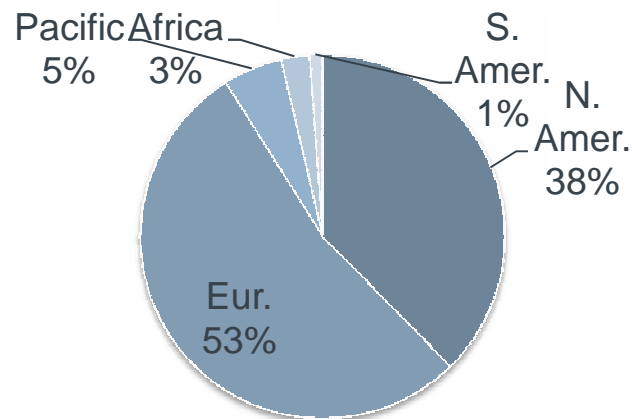
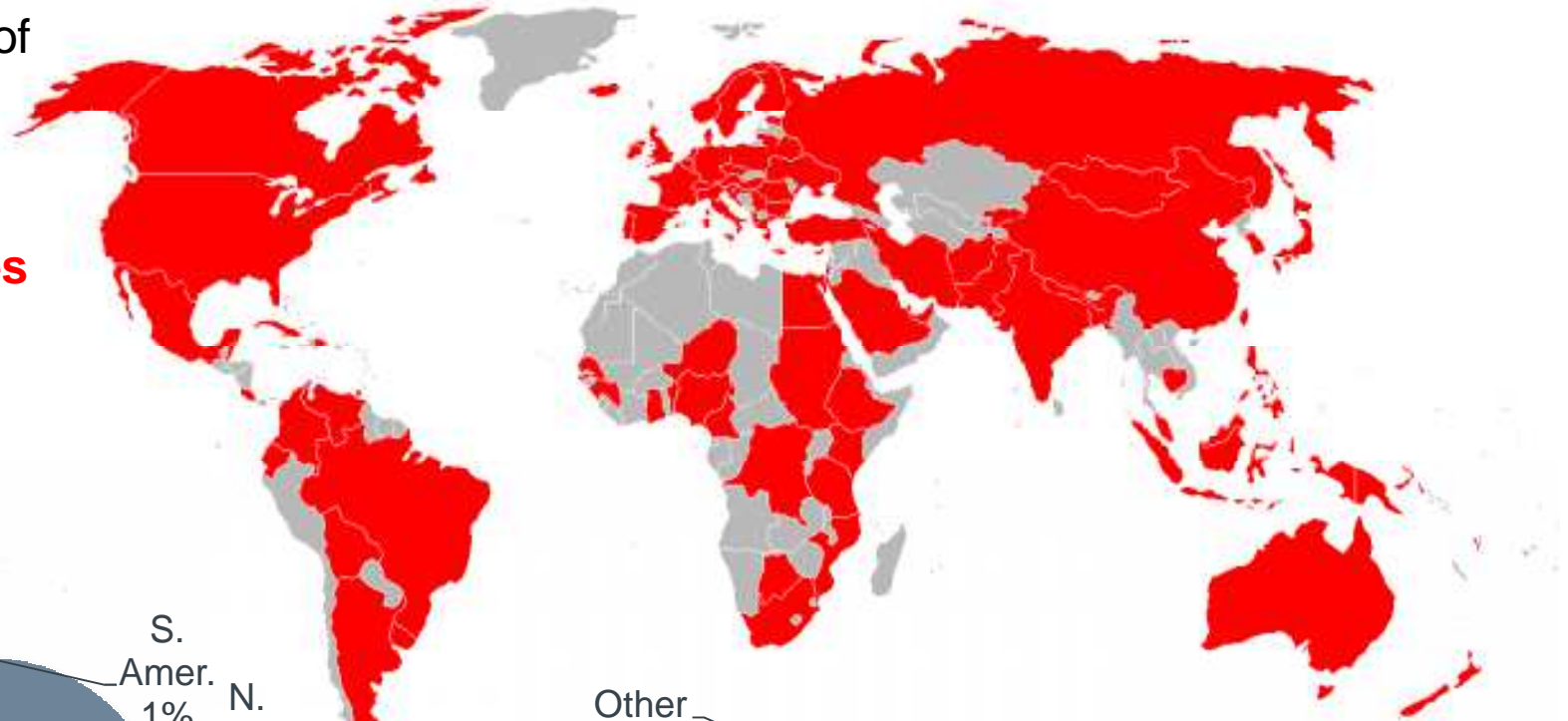


RDA Plenary 4
Amsterdam

The Research Data Alliance Community Today

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- Distribution of **2,538 RDA Members** in **92 Countries** (3 December 2014)
- **~1500** in **~70 countries** in **March 2014**



research data sharing without barriers
rd-alliance.org



RDA Organizational Structure Complete

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RDA Membership

RDA Council

Responsible for overarching mission, vision, impact of RDA

Technical Advisory Board

Responsible for Technical roadmap and interactions

Secretary-General and Secretariat

Responsible for administration and operations

Organizational Advisory Board and Organizational Assembly

Responsible for organizational adoption and strategic advice

Working Groups

Responsible for impactful, outcome-oriented efforts

Interest Groups

Responsible for defining and refining common issues

RDA Colloquium

Stakeholder Group

RDA Interest (IG) and Working Groups

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(WG) by Focus 1 (as of 12/14)

* under review

Domain Science - focused

- Toxicogenomics Interoperability IG
- Structural Biology IG
- Biodiversity Data Integration IG
- Agricultural Data Interoperability IG
- **Wheat Data Interoperability WG**
- Digital Practices in History and Ethnography IG
- Geospatial IG
- Marine Data Harmonization IG
- Metabolomics IG
- RDA/CODATA Materials Data Infrastructure and Interoperability IG
- Research Data Needs of the Photon and Neutron Science Community IG
- Defining Urban Data Exchange for Science IG*
- **The BioSharing Registry: Connecting data policies, standards and databases in the life sciences WG***
- Urban Quality of Life Indicators IG

Community Needs - focused

- Community Capability Model IG
- Engagement IG
- RDA/CODATA Summer Schools in Data Science and Cloud Computing in the Developing World IG
- Development of Cloud Computing Capacity and Education in Developing World Research IG
- Data for Development IG
- Education and Training on handling of research data IG

RDA Interest (IG) and Working Groups (WG) by Focus 2 (as of 12/14)

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* under review

Reference and Sharing - focused

- **Data Citation WG**
- **Standardization of Data Cat. and Codes WG**
- RDA/CODATA Legal Interoperability IG

- Reproducibility IG
- **Data Description Registry Interoperability Working Group**
- **RDA / WDS Publishing Data Bibliometrics WG**

Data Stewardship and Services - focused

- Research Data Provenance IG
- Preservation e-infrastructure IG
- **RDA / WDS Publishing Data Services WG**
- **RDA / WDS Publishing Data Workflows WG**
- Long-tail of Research Data IG
- RDA/WDS Publishing Data IG
- **RDA/WDS Repository Audit and Certification**

DSA-WDS Partnership WG

- Domain Repositories Interest Group
- Brokering Interest Group
- ELIXIR Bridging Force IG*
- Libraries for Research Data IG*
- RDA / WDS Certification of Digital Repositories IG
- RDA / WDS Publishing Data Cost Recovery for Data Centres IG

Base Infrastructure - focused

- **Data Foundation and Terminology WG**
- **Metadata Standards Directory WG**
- **Practical Policy WG**
- **PID Information Types WG**
- **Data Type Registries WG**
- Data in Context IG

- Big Data Analytics IG
- **Brokering Governance WG**
- Federated Identity Management IG
- Metadata IG
- PID Interest Group
- Service Management IG
- Data Fabric IG

First Deliverables

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Working Group	Deliverables	Users
Data Foundations and Terminology	Data Model, Defined terminology in a registry	OIF, EUDAT, DASISH
Data Type Registries	Federation between data type registries	CNRI, EUDAT, IDF
Persistent Identifier Information Types	Core informational types, Prototype protocol/api that implements these.	DKRZ, CNRI
Practical Policy	Example policy sets for tasks (e.g. replication)	Participants

- Deliverables not always technical
 - DSA-WDS Certification

Deliverables Coming Soon

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- A basic set of **machine actionable rules** to enhance trust
- A **metadata standards directory** so we can describe similar things consistently
- A **dynamic-data citation methodology** so we can reference precise subsets of changing data.
- Semantically linked **terms describing wheat data** so we can share harvest and related information around the world
- A **unified repository certification scheme** to reduce confusion and improve trust.

Organizations Committed to Joining RDA

■ Organizational Members:

- American University Library, USA
- Australian National Data Service, Australia
- Barcelona Supercomputing Center - Centro Nacional de Supercomputación, Spain
- CAP Digital, France
- Columbia University Libraries/Information Services, USA
- CSC, the Finnish IT Center for Science, Finland
- DANS, Data Archiving and Networked Services, The Netherlands
- Digital Curation Centre (DCC), UK
- EIROForum IT Working Group
- eResearch Services and Scholarly Application Development Division of Information Services, Griffith University, Australia
- European Data Infrastructure (EUDAT project)
- Information Technology Research Institute (ITRI)- National Institute of Advanced Industrial Science and Technology (AIST), Japan
- International Association of STM Publishers
- STFC, UK
- Internet2, USA
- NZ eScience Infrastructure, New Zealand
- Purdue University Libraries, USA
- Research Data Canada, Canada
- Scholarly Publishing and Academic Resources Coalition (SPARC), USA
- Terrestrial Ecosystem Research Network (TERN), The University of Queensland, Australia
- Washington University in St. Louis Libraries, USA

■ Affiliates

- CODATA
- ICSU World Data System
- ORCID
- DataCite

RDA Plenary 3 (Dublin)

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- March 26-28, 2014
- Theme : "Playing YOUR part"
- 500 attendees from 35 countries
- Hosted by Ireland and Australia
- Co-located events:
 - EUDAT Training
 - MUMIA Meeting on Verifiable Results in Multi-lingual/Multi-faceted Search: Challenges in Sharing Data, Tools and Results Workshop
 - SIM4RDM: Building Collaborations to address research data management workshop
 - APARSEN-EUDAT-SCIDIP-ES Workshop on Data Preservation and Re-use
- Focus on emerging professionals :
 - RDA/EU sponsored 22 European Early Career Researchers and Scientists
 - RDA/US sponsored 8 Student Interns



RDA Plenary 4 (Amsterdam)

12

- September 22-24, 2014
- Theme : "Reaping the Fruits"
- 550 attendees from 40+ countries
- Co-hosted by Netherlands
- Co-located conferences:
 - EUDAT Conference
 - Crowd Computing 2014
 - Data Seal of Approval Conference 2014, etc.
 - ...
- First RDA deliverables presented:
 - Data Type Registries
 - PID Information Types
 - Practical Policy
 - Data Foundation and Terminology
- Focus on emerging professionals :
 - RDA/EU sponsored 14 European Early Career Researchers and Scientists
 - RDA/US sponsored 8 Student Interns and 5 Early Career and Student Fellows



RDA Plenary 5: San Diego

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March 7:
RDA Strategic
Planning Meeting
(*RDA strategic
leadership*)

March 8:
RDA Adoption
Day (*open*)

March 9-11:
RDA Plenary 5

- *Registration is
now open*



The screenshot shows the RDA (Research Data Alliance) website. The header includes the RDA logo, the tagline "Research Data Sharing without barriers", and social media icons. A navigation menu lists: Home, Organisation, Working and Interest Groups, Plenary Meetings, News & Events, Early Career Programmes, and About. The main content area is titled "RDA Fifth Plenary Meeting" and features a green "REGISTRATION" button. Below this, it says "Adopt-A-Deliverable" and provides the date (9-11 March 2015) and location (Paradise Point Hotel, San Diego, California USA). A sidebar on the right contains a menu with links to Home, Organisation, Key Profiles, RDA Council, RDA Secretariat, RDA TAB, RDA Organisation & Affiliate Members, Working and Interest Groups, Plenary Meetings (with sub-links for First, Second, Third, Fourth, and Fifth Plenary), and Call for Session Proposals. The main content area also includes a collage of images related to San Diego and a paragraph about the Plenaries.

RDA Research Data Sharing without barriers
RESEARCH DATA ALLIANCE

Home Organisation Working and Interest Groups Plenary Meetings News & Events Early Career Programmes About

Home • Plenary Meetings • RDA Fifth Plenary Meeting

RDA Fifth Plenary Meeting

REGISTRATION

"Adopt-A-Deliverable"

Date:
9 - 11 March 2015
(with an additional special event on March 8)

Location:
Paradise Point Hotel
San Diego, California USA
<http://www.paradisepoint.com/>

RDA is pleased to announce that the United States will be hosting its Fifth Plenary Meeting in San Diego, California from March 9-11, 2015, at the beautiful Paradise Point Hotel.

For those unfamiliar with RDA, the Plenaries are multi-day meetings held twice a year in various locations worldwide to provide the RDA community an opportunity to network and collaborate with peers in various disciplines, and hear from industry experts and world leaders on topics related to research data sharing and exchange.

Celebrating its third year as an international organization, RDA

Home
Organisation
Key Profiles
RDA Council
RDA Secretariat
RDA TAB
RDA Organisation & Affiliate Members
Working and Interest Groups
Plenary Meetings
First Plenary
Second Plenary
Third Plenary
Fourth Plenary
Fifth Plenary
Call for Session Proposals

Next Steps for the RDA

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More Infrastructure

Continuing pipeline of infrastructure deliverables adopted and used to accelerate data sharing

Increasing coordination of infrastructure

Effective Community

Increasing cross-boundary collaborations between domains, sectors, organizations

Synergistic Programs

International and regional programs focusing on workforce, outreach, expansion of infrastructure impact

Partnership with Industry

New partners in the Organizational Assembly
Focused strategy to support development of industry infrastructure for data sharing



The Data Harvest Report

How sharing research data can yield knowledge, jobs and grow

A RDA Europe Report

The Data Harvest, December 2014 © RDA
Europe

Think about joining!

www.rd-alliance.org

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The screenshot shows the RDA website interface. At the top, there's a navigation bar with links like 'Fichier', 'Edition', 'Affichage', 'Historique', 'Marque-pages', and 'Outils'. Below this is a header section with a 'Primary 5' button and links to 'PROGRAMME', 'CALL FOR POSTERS', 'COLOCATED EVENTS', and 'SPONSORSHIP OPPORTUNITIES'. The main content area is divided into three columns: 'WORKING GROUPS', 'INTEREST GROUPS', and 'BOF GROUPS'. Each column lists several groups with their names, members, and a small icon. For example, under 'WORKING GROUPS', there's 'PID Information Types WG' with 59 members, 'Practical Policy WG' with 56 members, and 'RDA/CODATA Summer Schools in Data Science and Cloud Computing in the Developing World' with 12 members. Under 'INTEREST GROUPS', there's 'Big Data Analytics IG' with 85 members, 'Biodiversity Data Integration IG' with 58 members, and 'Brokering IG' with 46 members. Under 'BOF GROUPS', there's 'Data re-use, share your experiences' with 23 members, 'Deconstructing the Data Life Cycle-Agile Curation' with 4 members, and 'Sustainability of eResearch / Cyberinfrastructure' with 8 members. At the bottom, there's a 'Request for Comments' section with two items: 'PID Information Types (PIT) WG Recommendations' and 'Data Foundation and Terminology (DFT) WG Recommendations'. To the right of this section is a 'News' section with a headline 'RDA spotlight in the ERCIM News issue dedicated to Scientific Data' and a brief description of the article.

WORKING GROUPS	INTEREST GROUPS	BOF GROUPS
PID Information Types WG Tobias Winkel, Tim Dilauro 59	Big Data Analytics IG Marius Riebel, Peter Baumann, Ruo-Sen Kuo 85	Data re-use, share your experiences Otilie Holmgren 23
Practical Policy WG Reagan Moore, Ramen Sotropa 56	Biodiversity Data Integration IG Nicola Nicotri, Vince Smith, Paul Kirk, Dimitris Kouras 58	Deconstructing the Data Life Cycle-Agile Curation Karl Benedict, Chris Linhardt, Josh Young 4
RDA/CODATA Summer Schools in Data Science and Cloud Computing in the Developing World Hugh Shanahan, Andrew Harrison, Simon Hodson 12	Brokering IG Sofiano Nativi, Jay Pearlman 46	Sustainability of eResearch / Cyberinfrastructure Stefanie Kethers, Andrew Treloar 8

Request for Comments
Currently open request for comments

Request for Comments	
PID Information Types (PIT) WG Recommendations Submitted by Tobias Winkel On 19, Jan 2015	Data Foundation and Terminology (DFT) WG Recommendations Submitted by Peter Veltkamp On 19, Jan 2015

News
ERCIM NEWS RDA spotlight in the ERCIM News issue dedicated to Scientific Data
The January 2015 issue of ERCIM News dedicated to a special theme: Scientific Data sharing and re-use holds a spotlight on the Research Data Alliance as it features an invited paper "Creating the..."