



Montreal Plenary seen from TAB



October, 25 2017
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TAB main roles in Plenaries

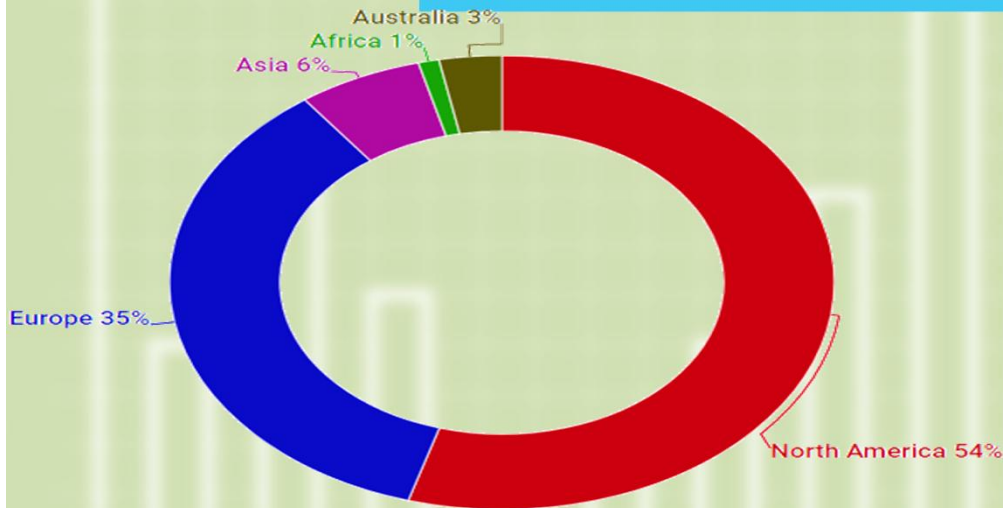
- Before the meeting
 - Check of the session proposals
 - Eventually suggestions for improvement, in particular to provide enough information to inform participants
 - Scheduling
- TAB/Chair meeting
- TAB liaisons
 - Each Group has a TAB liaison
 - TAB liaison attends her/his Group meetings
 - If not possible TAB tries to provide a substitute
 - TAB members attend the meeting and provide information about e.g. evaluation criteria, lessons learnt from the practice of other Groups, etc
- TAB Debrief after the meeting to build an overview of activities

TAB/Chair meeting

- Chairs organise a Chair collaboration meeting twice a year between plenaries
- TAB meets chairs at each plenary
 - Many Groups represented
- P10 TAB/Chair meeting
 - More than 50 participants TAB/Chairs/Secretariat
 - P10 topics
 - How to describe Group activities (AoK & template)
 - What could be done now to progress towards a “Roadmap”
 - Discussion of the June 2017 Chair meeting outcomes
 - Testbeds
 - How Secretariat deals with Recommendations



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
 6 Outputs presented / 1 Final Release
 60 Posters



RDA meeting: WGs & IGs

- 14 WG & 37 IG meetings in Montreal
- Inform about and progress in activities
- Not easy to manage sharing information and discussion
 - Colour code to inform participants
 - The Group is beginning/on going/closing
 - Session page points to information
 - Information provided as & starting point & (hopefully) meeting notes
 - You can use it afterwards



RDA meeting: Joint Sessions

- “Only” 6 this time (P09: 13)
 - Invitations of other Groups in the regular Group sessions on specific topics can be well focused and efficient
 - People know better what others are doing and how to take advantage of it
- Joint Session topics:
 - Water & biodiversity vocabularies, Materials, Life sciences & FAIR, Domain Repositories: best practices, Machine actionable DMPs, Metadata

RDA meeting: BoFs

- The vehicle to propose new topics: 16 this time! (P09: 11, P06:19 with lots of local proposals)
- Many different topics
 - “Ancillary”: Adopt a RDA Product, Testbeds, Engaging early career researchers and professionals, Research funders
 - Discussion of activities outside RDA relevant to it, in some cases to explore possible RDA activity: OECD Expert Group report, EarthCube, Make Data Count
 - Tackle a specific topic: metadata citation elements, data management records
 - In prep. for a Group proposal: Systems, technologies & data flow, Units of measure, Blockchains, Data versioning, Persistent identification of instruments

The fate of previous BoFs

- From the 11 P09 BoFs, 3 gave rise to a Group proposal (received in July/August)
 - Disciplinary Collaboration Framework
 - Sharing recognition and credit (SHARC)
 - Software Source Code
- Not twice the same BoF but progression towards a Group proposal can be slower than 6 months, from proposing the idea to writing the case statement (e.g. Data Versioning, Blockchains)
- Some Groups which are still updating their case statement have a Group session

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 over
75 cases of adoption in different domains, organisations and countries

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-and-outputs/all-recommendations-and-outputs>

75 Adoption Cases

<https://www.rd-alliance.org/recommendations-and-outputs/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/all-recommendations-and-outputs](https://www.rd-alliance.org/recommendations-and-outputs/all-recommendations-and-outputs)

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RESEARCH INFRASTRUCTURES IMPLEMENTING RDA OUTPUTS FOR MAPPING METADATA STANDARDS

IMPLEMENTING RDA OUTPUTS FOR SCHOLARLY COMMUNICATION

RDA Adoption & Implementation Stories - Tell us yours!

ADOPTING RDA OUTPUTS FOR ... CLIMATE DATA

DKRZ adopts 6 RDA outputs for climate data modelling

DKRZ is integrating paradigm identifiers for use cases supporting specific data tracking, automatic replication and validation, custom and early data transfer into the Earth System Grid Federation data infrastructure which supports NCOS ClIIP data provisioning. This requires elemental PID information to be interoperable across multiple services and tools and formulating community-specific PID profiles. Furthermore, future automated processing workflows should leverage such information as well if bound to specific data types and broken down through a dedicated service. To give structure to possibly huge numbers of objects and their identifiers, the services and tools involved can also benefit from a possible RDA recommendation on research data collection.

The Challenge

"Current data management practices still rely largely on managing files and directories in file systems. Factors such as the relative increase of data volume compared to available network bandwidth and the easy availability of remote and on-demand computing resources are drivers behind bringing processing and data closer together. National and international policy changes in Earth Science funding may also cause a shift in the skills and expectations of professional data service users."

Says Tobias Weigel, a Computer scientist at the adopting organisation, Deutsches Klimarechenzentrum (DKRZ):

Together, these factors lead to scenarios where it will be increasingly difficult to manage data on a per-file or per-directory basis and deal with data transfer, replication and the cycle management at a comparatively low level of automation. Future tools may increasingly hide the location and structure of specific data objects from the user, resulting from challenges from background services, devices that provide easy data preparation and processing and make data provenance transparent may be particularly valuable for interdisciplinary users unfamiliar with established community practices.

Weigel continues: "With the evolution of the increasing automation, cost of metadata services will increase, which would have a devalorizing effect on service quality of lesser resources available for developing new services required for future user demands. Their experience has shown that metadata such as data transfer or replication suffer from manual intervention required as long as no comprehensive data trading solution is in place. Such tools may take up even more resources when that the data volume and number of objects to manage increase exponentially.

RDA RECOMMENDATIONS ADOPTED	ANSWERING COMMUNITY NEEDS	WHY RDA
Basic Foundations and Terminology: simplify understanding and communication about basic concepts such as data types and persistent identifiers.	The community that benefits from middleware improvements consists of data management personnel, multidisciplinary researchers, and in particular, research groups within the European Centre for High-Resolution Earth System Modelling (ECHEM).	RDA has been forward as a venue where experts from different disciplines can share by different community practices can combine their collective knowledge to build roughly similar solutions, which, in turn, can be shared.
PID Information Types: describe PID record practices and their function types exactly within access communities.	The research and user communities beyond the core climate modelling community can involve other disciplines such as climate impact research, adaptation and mitigation, public service, agriculture and so on, as climate change is a global phenomenon and challenge and touches on a huge number of areas.	The RDA outputs were selected by projecting future adaptation scenarios and long-term challenges and finding good matches with manageable gaps with the existing solutions in DKRZ.
Basic Fabric: gain a better understanding of high-level productivity and make decisions concerning operations and strategic development.	Basic Type Register: register PID information types and eventually extend types with processing services.	
Systemic Basic: Checkpoint: clarify data creation approaches and evaluate implementation options for interoperability or enable cases.		

Find out more
Visit RDA at rd-alliance.org
Email: enquiries@rd-alliance.org

<https://www.rd-alliance.org/recommendations-and-outputs>

Adopting RDA Outputs for Climate



Recommendations/Adoption

- WGs invited to present their preliminary results after 12 months and final results after 18 months
- 6 presentations at P10
 - Array Database Assessment
 - Data Type Registry #2 (... ISO Study Group in progress)
 - International Materials Resource Registry
 - Research Data Collections
 - Research Data Repository Interoperability
 - RDA/TDWG Metadata Standards for attribution of physical and digital collections stewardship

The management of diversity

- Huge diversity of RDA activities
 - Makes sense because of the variety of questions to tackle to enable science data sharing and of the diversity of RDA members' profiles and interests
- "Community-driven" management of diversity
 - "Overarching groups" on sociological or technical aspects, e.g.
 - IGs which hosts many WGs – e.g. Agriculture
 - Data Fabric IG – puts technological outcomes together
 - **NEW!** Disciplinary Collaboration Frameworks – a voice for disciplines in RDA

Seen from TAB

- Plenaries are really a milestone for RDA activities
 - 2 Group proposals in July & 4 in August (Northern vacation period!), 2 in September incl. one update
- A very friendly atmosphere, good co-operation, most activities are moving on
- An excellent view of the RDA activities and vibrant community
- A good place to gather good ideas for one's own activities
- Most Groups take full advantage of the F2F meeting time
- Linked to the Strategy exercise: keep better track of activities & "Roadmap" would be useful but resources are limited



Moving Towards Plenary 11: Berlin!

RDA

11 PLENARY

MEETING

21-23 MARCH 2018

Berlin, Germany



From Data to Knowledge

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

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Looking Forward to Plenary 12: Botswana



Digital Frontiers of Global Science



To find out more visit: <https://www.rd-alliance.org/plenaries/rda-twelfth-plenary-meeting-part-international-data-week-2018-gaborone-botswana>

Co-organised within the framework of
International Data Week with CODATA & WDS

[rd-alliance.org/plenaries](https://www.rd-alliance.org/plenaries)

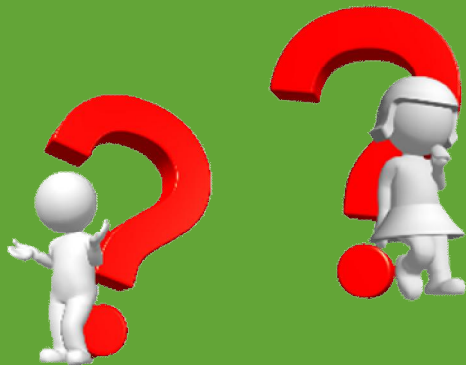
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RDA in a Nutshell

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