



# Introducing RDA Outputs

RDA 8<sup>th</sup> Plenary - 15 - 17 September 2016, Denver (CO), USA  
RDA for Newcomers

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Hilary Hanahoe, Trust-IT Services & RDA Secretariat

# RDA Mission & Outputs

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As our mission states...

*RDA is building the social and technical bridges to facilitate data sharing and re-use.*

these bridges are the **RDA Groups' recommendations & outputs**

**WORKING GROUPS** are envisioned as accelerants to data sharing practice and infrastructure in the short-term with the overarching goal of advancing global data-driven discovery and innovation in the long-term.



# Recommendations & Outputs

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**Recommendations:** are the flagship outputs of RDA. They are RDA's equivalent of the "specifications" or "standards" that other organisations create and endorse. The process for creating and endorsing these is already defined.

**Supporting Outputs:** are the outputs of RDA WGs and IGs that are fruit of RDA work, but are not necessarily adoptable bridges. "Upon request", these sort of outputs go through a community comment period and if no major objections or gaps are identified they get the RDA Brand.

**Other Outputs:** include workshop reports, published articles, survey results, etc. Anything a WG or IG wants to register and report. Upon request, these are published and discoverable on the RDA website but have no level of endorsement.

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

## Working Group

## Solution & Impact



### Basic Vocabulary of Foundational Terminology, Query Tool

## Data Foundation & Terminology

*Ensures researchers use a common terminology when referring to data.*

Not having a common language between data communities, means that working with data is very inefficient and costly, especially when integrating cross-disciplinary data.



### Data Type Model and Registry

## Data Type Registries

*Provides machine-readable and researcher-accessible registries of data types that support the accurate use of data*

Systematic typing of data sets and collections, combined with one or more open registries that define standard data types are needed to enable agnostic data management, interoperability and reuse.



## Working Group

## Solution & Impact



### Machine Actionable Policy Templates

#### Practical Policy

*Can be used to support data sharing and interchange between communities*

Establishing trust and a reproducible data science requires automatic procedures which are guided by practical policies that have been evaluated and endorsed.



#### PID Information Types

### Persistent Identifier Type Registry

*Conceptual model for structuring typed information to better identify PIDs, common interface for access to this information.*

Due to high demand, a high variety of trusted PID service providers have been set up already, but it is essential to harmonize the major information types and suggest a common API.



## Working Group


## Solution & Impact



### Data Citation

#### Dynamic-data Citation Methodology

*Supports efficient processing of data and linking from publications; can reference precise subsets of changing data*


There is a strong need for data citation mechanisms that allow identifying arbitrary subsets of large data set with precision in a machine-actionable way. 



### Data Description Registry Interoperability

#### Data Description Registry Interoperability Model

*Provides researchers a mechanism to connect datasets in various data repositories based on various models such as co-authorship, joint funding, grants, etc.*

In recent years there has been a significant growth of research data repositories and registries; however, these infrastructures are fragmented across institutions, countries and research domains. 

## Working Group

## Solution & Impact



### Metadata Standards Directory

#### Metadata standards directory

Enables discovery of metadata standards for documenting research data, regardless of academic discipline, and addresses issues related to coverage, ease of maintenance and sustainability.

With the continued use of custom metadata schemes, and the development of rival, incompatible standards, there are now even more barriers to interoperation.



### Wheat Data Interoperability Guidelines, Ontologies and User Cases

#### Wheat Data Interoperability

*Helps researchers create, manage and exchange wheat data.*

There is a lack of harmonization in terms of data and a strong need to make wheat-related data interoperable.



## Working Group

## Solution & Impact



### RDA/WDS Publishing Data Bibliometrics

### Bibliometric Indicators for Data Publishing

*Improvement in quality and frequency of data citations, resulting in an increase in availability, quality of data.*

Current systems for bibliometrics cannot scale and will not cope with the addition of data as something to be tracked and measured.



### RDA/WDS Publishing Data Services







### An open, Universal literature-data cross-linking service

*Improving visibility, discoverability, re-use and reproducibility by bringing existing article/data links together, normalize them using a common schema, and expose the full set as an open service*

By creating bi-directional links between data and the literature, the visibility of both data and publications is increased, and data can be interpreted in the right context much more easily.





Working Group	Solution & Impact
 <p><b>RDA/WDS Publishing Data Workflows</b></p>	<p><b>Workflows for Research Data Publishing: Models and Key Components</b></p> <p><i>Assists research communities in understanding options for data publishing workflows and increases awareness of emerging standards and best practices.</i></p> <p>In many disciplines, established workflows to enable formal data publication do not yet exist and researchers are simply not aware of any opportunities for sharing and publishing data.</p> 
<p><b>Repository Audit and Certification DSA–WDS Partnership</b></p> 	<p><b>Repository Audit and Certification Catalogues</b></p> <p><i>Creates harmonized Common Procedures for certification of repositories at the basic level, drawing from the procedures already put in place by the Data Seal of Approval (DSA) and the ICSU World Data System (ICSU-WDS)</i></p> <p>The DSA–WDS partnership is aimed at efficiencies, simplifying assessment options, stimulating more certifications, and increasing impact on the community.</p> 

# RDA Recommendations Current & Upcoming

## Currently being published for the RDA 8<sup>th</sup> Plenary

- ✓ Brokering Governance WG
- ✓ RDA/CODATA Summer Schools in Data Science and Cloud Computing in the Developing World WG

## Being introduced at the RDA 8<sup>th</sup> Plenary to be published for the 9<sup>th</sup> Plenary Barcelona, April 2017

- ✓ Metadata Standards Catalog WG
- ✓ Biosharing Registry WG

*Over 65 cases of adoption,  
testing, implementation*



Day 2 - Friday 16th September 2016

09:00 - 10:00

RDA Recommendations & Adoption Plenary Session

17:00 - 18:15

RDA Recommendations & Adoption Plenary Session

# Supporting Outputs

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## 23 Things: Libraries For Research Data

An overview by of practical, free, online resources and tools that users can immediately take advantage of to incorporate research data management into the practice of librarianship.

Available in 11 languages (Arabic, Chinese, English, French, German, Hindi, Japanese, Korean, Portuguese, Russian, Spanish).



### 23 Things: Libraries for Research Data

*An overview of practical, free, online resources and tools that you can begin using today to incorporate research data management into your practice of librarianship.*

*Research Data Sharing Without Barriers*

WWW.RD-ALLIANCE.ORG/  
@RESDATALL



## RDA Global

Email - [enquiries@rd-alliance.org](mailto:enquiries@rd-alliance.org)

Web - [www.rd-alliance.org](http://www.rd-alliance.org)

Twitter - @resdatall

LinkedIn -

[www.linkedin.com/in/ResearchDataAlliance](http://www.linkedin.com/in/ResearchDataAlliance)

Slideshare -

<http://www.slideshare.net/ResearchDataAlliance>

Facebook -

<https://www.facebook.com/pages/Research-Data-Alliance/459608890798924>

## RDA Europe

Email - [info@europe.rd-alliance.org](mailto:info@europe.rd-alliance.org)

Web - [europe.rd-alliance.org](http://europe.rd-alliance.org)

Twitter - @RDA\_Europe

## RDA US

Twitter - @RDA\_US