RDA status

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The Research Data Alliance

- A young organisation, created in March 2013

- Fourth Plenary, Amsterdam 22-24 September

- 2200 members, 500 participants in the 4th Plenary

- Anyone can join by signing up and accepting the RDA basic principles on rd-alliance.org

  Openness, consensus, balance, consensus, harmonization, community driven, non profit

Domain Science - focused

- Toxicogenomics Interoperability
- Structural Biology
- Biodiversity Data Integration
- Metabolomics
- Agricultural Data Interoperability
- Digital History and Ethnography
- Marine Data Harmonization
- Materials Data Management
- Photon & Neutron science
- *ELIXIR Bridging Force*
- *Geospatial*
- *Defining Urban Data Exchange for Science*

Community Needs - focused

- Community Capability Model
- Engagement
- Data for Development
- Clouds in Developing Countries
- Education and training on data handling

Reference and Sharing - focused

- Legal Interoperability IG
- *Reproductibility*

Data Stewardship - focused

- Domain Repositories
- Long-tail of Research Data
- Certification of Digital Repositories
- Research Data Provenance
- Data in Context
- Publishing Data
- Publishing data cost recovery
- Preservation e-infrastructure
- *Ethics and social aspects*
- *Libraries for research data*

Base Infrastructure - focused

- Metadata IG
- Big Data Analytics IG
- Data Brokering IG
- PID
- Federated identity management
- Service management
- Data Fabric

Interest Groups

Domain Science - focused

- **Wheat Data Interoperability**
- *Urban Quality of Life*
- *The BioSharing Registry: connecting data policies, standards & databases in life sciences*

Community Needs - focused

- *RDA/CODATA Summer Schools in Data Science and Cloud Computing in the Developing World*

Reference and Sharing - focused

- **Data Categories and Codes**

Data Stewardship - focused

- **RDA/WDS DSA-WDS Repository Audit and Certification**
- **RDA/WDS Publishing Data Bibliometrics**
- **RDA/WDS Publishing Data Services**

- **RDA/WD Publishing Data Workflows**

Base Infrastructure - focused

- **Data Foundation and Terminology**
- **Metadata Standards**
- **Practical Policies**

- **PID information Types**
- **Data Type Registries**
- **Data Description Registry Interoperability**
- *Brokering Governance*

First results from the early WGs

- WGs have 18 months to produce 'implementable' results
- The first WGs were all dealing with basic infrastructure building blocks
- Definition of a few terms
- Prototype of Data Type Registry
- PID Information Type examples (registered) and use cases, prototype API, client demonstrator GUI
- List of policy categories and policies

- Important to be present to follow what is going on, bring our requirements and grab useful results
- Really bottom-up work: people bring their expertise and work force, participate in IGs and WGs, and can propose new Groups
- FG member of RDA Technical Advisory Board, brings lessons learnt from building the IVOA
- E.g. Certification WG: Compare and align World Data System and Data Seal of Approval certification frameworks – two basic certification frameworks

The World Data System

- WDS builds a 'community of excellence' of 'data centres' and 'data services'

- WDS general requirements and policies
- Organisational framework
- Management of data, products and services
- Technical infrastructure

- Questions linked to the organisational framework and to how the scientific relevance is ensured

The Data Seal of Approval

- The DSA is granted to repositories that are committed to archiving and providing access to scholarly research in a sustainable way. The Seal of Approval
  - Gives researchers the assurance that their research results will be stored in a reliable manner and can be reused
  - Provides research sponsors with the guarantee that research results will remain available for reuse
  - Enables researchers, in a reliable manner, to assess the repository where research data are held
  - Allows data repositories to archive and distribute research data efficiently.
- The DSA certification relies on 16 criteria which determine whether or not the digital research data may be qualified as sustainably archived. The criteria ascertain that the research data is discoverable on the internet, accessible, usable, reliable and citable.

Working Group Goals

- Develop common catalog of criteria for basic repository assessment

- Develop common procedures for assessment

- Implement a shared testbed for assessment

- Ultimately, create a shared framework for certification that includes other standards as well