



# Reflections on National Level Implementation of RDA Outputs and Introduction to CODATA Policy Work

FCRD Secretary Heidi Laine / RDA Finland Autumn 2017 Meeting

# Finnish Committee for Research Data

- One of the ca. 30 national committees of ICSU in Finland.
- National member of ICSU data committee CODATA.
- Follows also RDA, World Data System, EC data policy.
- Established in 2015.
- Chair Prof. Pekka Orponen, Vice-Chair Prof. Kirsi Vainio-Korhonen
- Other members Päivi Happonen (NARC), Leif Laaksonen (CSC), Petri Myllymäki (HIIT), Sanna Sorvari (FMI)
- Host organization Council of Finnish Academies (moving from Fed. of Fin. Learned Societies to Fin. Academy of Sci. and Let.)

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# CODATA

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- Established in 1966. Original purpose was to tackle the deluge of scientific data and improve its management and preservation. Not much has changed.
  - Best known for Task Group on Fundamental Constants.
  - Supports Data Science Journal (Ubiquity Press)
  - Finland became member in 2014 (?).
  - Influential in Asia, Africa.
  - SciDataCon conference every 2nd year, co-organiser of the International Data Week
  - President Prof. Geoffrey Boulton, Secretary General Ms. Bonnie Carroll, Executive Director Dr. Simon Hodson.

# Reflections on National Level Implementation of RDA outputs

## CHALLENGES

- Many outputs very specific, technical.
- RDA foreign to researchers.

## IDEAS

- Highlight testimonies and stories from the pilots.
- Publish outputs as papers (Data Science Journal? It's Jufo 1!)
- Thumbs up for recommendation cards, but they should specify target audience.
- Align national level developments more closely with RDA WG's: "infiltrate" them from get-go, start new ones.
- Engage learned societies, esp. the technology academies & TAF, national committees

# What can FCRD do to help?

Guide: we know the landscape and the actors.

Translate: we speak both “researcher” and “policy”.

Bridge: our raison d’être is bringing national and international together.

Host: we organize events.

**BUT** our resources are severely limited.



## Scalable dynamic-data Citation Methodology

### The Challenge:

Supporting accurate citation of data subjected to change, for the efficient processing of data and linking from publications.

### What is the solution?

The Dynamic Data Citation methodology is a scalable mechanism that allows for the identification of arbitrary sub selections of data at a given point in time irrespective of any subsequent addition, deletion or modification.



Produced by: **Data Citation (WGDC) WG**

<https://rd-alliance.org/groups/data-citation-wg.html>

## What is the impact?

The main impact is on the reproducibility of work: it allows databases to be dynamically updated as needed, while users can still retrieve the data as it was at a specific point in time, providing valuable semantic information on the way the specific dataset was constructed.

As data gets migrated to new representations, the queries to extract the specific cited subset can be migrated accordingly, ensuring stability across technological changes enhancing data interoperability, sharing and re-use.

# Example: Data Citation

## [www.fcird.fi/data-citation](http://www.fcird.fi/data-citation)




Find out more about the Data Citation  
WG Recommendation

- International interoperability key > project kicked off at 9th RDA plenary
- Discussions with RDA Data Citation WG people
- Presenteing recommendations at 10th Plenary
- Piloting RDA recommendation on “Scalable Dynamic-data Citation Methodology” in Finland among recommendations



# Tracing Data

First Draft for a Data Citation Roadmap for Finland



# National Data Citation Roadmap Workshop

20.10.17 @ House of Science and  
Letters, Helsinki

Register at [bit.ly/dataviittauspaja](https://bit.ly/dataviittauspaja)



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# CODATA Data Policy Committee

CODATA's strategy has three components: data policy, data science and data education:

1. **Data Policy:** Supporting implementation of data principles and practices
2. **Data Science:** Addressing the frontiers of data science
3. **Data Education:** Capacity building (particularly in low and middle income countries - LMICs)

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# CODATA Data Policy Committee

- Chair Dr. Paul Uhler
- Provides expert input on the development and implementation of data policies to a range of international initiatives.
- International focus (not just specific to a country or even a region)
- Scan the horizon for data policy issues
- Avoid duplication of effort
- Monthly conference calls
- Members invited based on expertise, currently 18 members, non-Europeans from China, Taiwan, Korea, Egypt, Kenya, India, Chile, Brazil, USA

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# CODATA Data Policy Committee

1. Supporting Good Practice in Data Policies
2. Criteria for “Data Diplomacy” and for Evidence Used in Policy Decision-making
3. Developing Incentives for Sharing Data and Greater Openness
4. Toward a Better Understanding of Non-Profit Research Data in Commercial Innovation
5. Supporting Other CODATA Objectives

These include, among others: The African Open Data Platform; educational aspects, including summer schools and training workshops; organization of CODATA conference sessions; data policy articles submitted by members to the CODATA Scientific Data Journal; and responding to external requests for advice that are brought to the DPC by CODATA.

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# CODATA Data Policy Committee

## 6. Establishing Productive Links with External Initiatives

### So far:

Funders BoF at RDA

RDA IG on journal data policies

Belmont Forum

FAIR data

ESOF

## Ideas, suggestions?

**Thank you!**

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