

# CODATA

## Short introduction

Matti Heikkurinen, Project Portfolio Manager, CODATA

# CODATA in a nutshell

- CODATA serves a **membership** that includes **national data committees, scientific academies, International Scientific Unions (ISC membership) and other organisations.**
- CODATA leverages a **network of expertise** and a **skilled secretariat** to address challenges around data policy, interoperability and reuse of data in all areas of science.
- CODATA works with many **partners**, including
  - **ISC and ISC members** (national members, international scientific unions, international programmes)
  - **UN and intergovernmental agencies** (UNESCO, UN Stats, UNEP, UNDRR; OECD; GBIF, BIPM)
  - **Technical and standards organisations, data infrastructures.**
- **CODATA's mission: to connect data and people to advance science and address global challenges.**
- **CODATA's vision is of a world in which science is empowered to address universal challenges through the transparent, trustworthy and equitable use of data and information.**

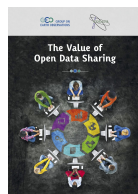


# Making Data Work...



- Making Data Work for Cross Domain Grand Challenges
- WorldFAIR Project and WorldFAIR+
- Recommendations for the Cross-Domain Interoperability Framework (CDIF)
- FAIR Vocabularies with ISUs
- Cross-Domain Case Studies
- Global Open Science Cloud initiative
- Regional Open Science Platforms

# Promoting Data Policy Data science and AI for science

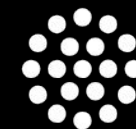


- International Data Policy Committee <http://bit.ly/data-policy-committee>
- Data Policy in Times of Crisis (UNESCO Open Science Toolkit) <https://bit.ly/UNESCO-CODATA-DPTC>
- Major policy reports: <https://bit.ly/CODATA-Policy-Reports>



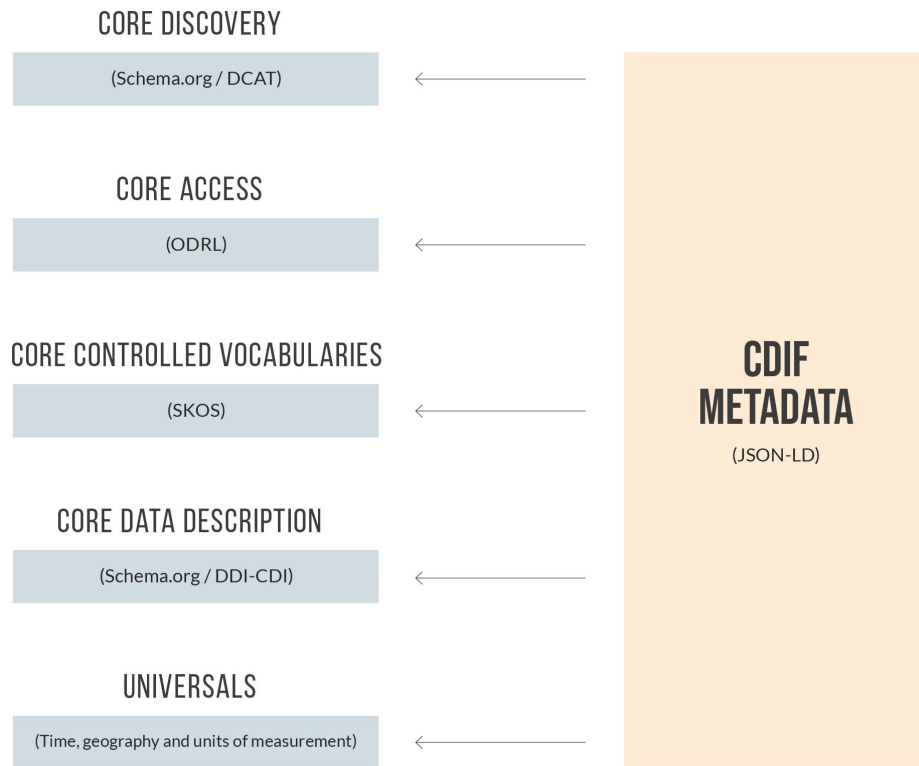
- Data Science Journal: <https://datascience.codata.org/>
- International Data Week and CODATA Conference series.
- Task Groups and Working Groups.
- CODATA Connect ECR Group
- CODATA-RDA School of Research Data Science.
- Beijing and other training workshops.
- CODATA RDM Terminology

CODATA mission: <https://codata.org/about-codata/our-mission/>



# What is CDIF?

- The Cross Domain Interoperability Framework (CDIF) is a set of practical, implementation-level principles designed to improve data management practices within any community and lower the barriers to cross-domain data reuse. CDIF offers standards and methodologies for achieving different types of interoperability necessary for reusing data across diverse domains. It is (currently) built around five core profiles that address the essential functions for implementing cross-domain FAIR principles.
- CDIF was first released in May 2024 as an output of the WorldFAIR project:  
<https://doi.org/10.5281/zenodo.11236871>
- The point of reference for CDIF and its component profiles is now the CDIF Book: <https://cdif.codata.org>



# CODATA at IDW and SciDataCon

Curated blog posts on themes at IDW:

<https://codata.org/blog/category/idw2025/>



- Workshop and sessions on **CDIF**.
- CODATA organised sessions on **Rigorous, responsible and reproducible science in the area of FAIR data and AI, AI for Science and AI for Metadata and Metadata for AI**.
- Reflections on **CARE and Data Policy**.
- Data Science Journal Session on **'Evolving Roles for Data Scientists in the Age of Intelligent Automation'**
- Session on **Legal and Organisational Interoperability**.
- CODATA Connect on **'Building Participatory Data Infrastructures Across Disciplines and Geographies'**.



# CODATA Task Groups and Working Groups

## Task Groups

1. Big Data Curation and Curation Sustainability
2. Open Science Cloud Service XI Metadata TG (OSCs XI metadata TG)
3. Open Tools and Visitation Frameworks for Global Research Assessment Reform (OT-VIRARe)
4. Research Data Quality Management Across the Data Lifecycle
5. Citizen Science for the SDGs
6. DRUM – Digital Representation of Units of Measure
7. FAIR Data for Disaster Risk Research (FAIR-DRR)
8. Geographical Indications Environment & Sustainability (GIES)



See <https://codata.org/initiatives/task-groups/>

## Standing Task Group

1. Task Group on Fundamental Constants

## Working Groups

1. Research Data Management Terminology (RDMT)
2. One Geochemistry Working Group
3. GOSC Working Groups

See:

<https://codata.org/initiatives/working-groups/>



Interested people can contact co-chairs to join TGs and WGs.

# CODATA Officers

## CODATA President

- **Mercè Crosas**, Director of Computational Social Sciences, Barcelona Super Computing Centre.
- See <https://codata.org/about-codata/message-from-president-merce-crosas/>



## CODATA Officers

- **Richard Hartshorn, Vice President**, Professor of Chemistry, University of Canterbury, New Zealand.
- **Daisy Selematsela, Vice President**, Director of Wits Libraries, South Africa.
- **Christine Kirkpatrick, Secretary General**, Division Director, Research Data Services, San Diego Supercomputer Center
- **Steve McEachern, Treasurer**, Director of the UK Data Service.
- See <https://codata.org/about-codata/executive-committee/>



# CODATA Executive Committee 2025 - 2027

## Elected Members

- **Jeremy Frey**, Professor of Physical Chemistry, University of Southampton, United Kingdom
- **Leo Lahti**, professor in Data Science at the Department of Computing, University of Turku, Finland.
- **Pam Maras**, Past President IUPsyS, Emerita Professor of Psychology at the University of Greenwich, UK
- **Audrey Masizana**, Senior Lecturer in Computer Science University of Botswana.
- **Lauren Maxwell**, Group leader, Universitätsklinikum Heidelberg, Germany, and Senior Researcher with the Ecraid Foundation in the Netherlands
- **Yasuyuki Minamiyama**, Associate professor in the Center for Social Research and Data Archives at the Institute of Social Science, the University of Tokyo, Japan
- **Mark A Musen**, Stanford Medicine Professor of Biomedical Informatics Research at Stanford University, United States
- **Francisca Oladipo**, Vice-Chancellor and Chief Executive Officer of Thomas Adewumi University, Kwara State, Nigeria
- **Rodrigo Roa**, Executive Director of the Data Observatory foundation, Chile
- **Cyrus Walther**, IUPAP, President of the International Association of Physics Students; ISC Fellow.

## Ex Officio Members

- **Lianglin HU**, Deputy Director of the Big Data Department at the Computer Network Information Center (CNIC), Chinese Academy of Sciences (CAS)
- **Narinder Kumar Mehra**, Former Dean and National chair of the All-India Institute of Medical Sciences, New Delhi, India
- **Virginia Murray**, Chair of the UNDRR/ISC Steering Group for Phase 2 update for 2025 of the UNDRR-ISC Hazard Information Profiles
- See <https://codata.org/about-codata/executive-committee/>



# CODATA Secretariat: Increased Capacity

## CODATA Secretariat

- **Radomir Buzek**, Executive assistant.
- **Nina Grau**, Project Officer, RDA Tiger.
- **Arofan Gregory**, Metadata and Technical Expert, 'Making Data Work', WorldFAIR+ initiative and DSWB project.
- **Matti Heikkurinen**, Project Portfolio Manager.
- **Simon Hodson**, Executive Director.
- **Asha Khandelwal**, Programme Assistant: communications, technical platforms and website updates.
- **Laura Molloy**, Senior Research Lead: WorldFAIR and RDA Tiger projects, vocabularies and terminologies, project and research development.
- **Hana Pergl**, Operations Manager: strategic and management activities, membership relations, GOSC.
- **Slava Tykhonov**, Head of Interoperability and AI: Tooling and implementation of CDIF, LLMs for Science
- [info@codata.org](mailto:info@codata.org)



*Simon Hodson*



*Arofan Gregory*



*Laura Molloy*



*Matti Heikkurinen*



*Nina Grau*



*Hana Pergl*

## CODATA Team on INSPIRE / DSWB / CDIF Projects

- **Jay Greenfield**, Data, Metadata and Systems Expert, Data Science Without Borders (DSWB) and INSPIRE Mental Health (MH) Projects.
- **Dorothy Mailosi**, Research Assistant, DSWB and INSPIRE MH Projects.
- **Letisha Najjemba**, Data base and repository engineer, DSWB.
- **Doug Fils**, Data and Software Craftsman with a focus in semantics, linked data and web architecture, DSWB project.
- **Steve Richard**, preparing CDIF documentation, managing CDIF WG.

## Global Open Science Cloud, International Programme Office

- **Lili Zhang**, Executive Director.

See: <https://codata.org/about-codata/secretariat/>



# Thank you for your attention

**Matti Heikkurinen, CODATA**

[www.codata.org](http://www.codata.org)

[matti@codata.org](mailto:matti@codata.org), [info@codata.org](mailto:info@codata.org)

[@CODATANews](https://twitter.com/CODATANews)

Join us at the joint APAN (Asia Pacific  
Advanced Network) – CODATA webinar!

November 26th, 19.00 JST/12.00 CET

