

RESEARCH DATA ALLIANCE - 16TH PLENARY  
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BREAKOUT SESSION #7

# maDMPs in a government context

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*“All views my own. I am not speaking in the role of an official government spokesperson, and I am not making explicit comments or recommendations on, or explicit discussions about, Canadian statutory, regulatory, or policy matters, or data.”*

*“I declare that I have no conflict of interest.”*

# JOINT APPEAL FOR OPEN SCIENCE

FROM THE WHO, UNESCO, CERN, and the HCHR (October 27, 2020)

*“The open science movement aims to make science more accessible, more transparent and thereby more effective. **A crisis such as the COVID-19 pandemic demonstrates the urgent need to strengthen scientific cooperation and ensure the fundamental right to universal access to scientific progress and its applications.”***

*“**Open Science**” is about free access to scientific publications, data and infrastructure, as well as open software, open educational resources and open technologies such as tests or vaccines. Open science also promotes trust in science, at a time when rumours and false information abound.”*

**“Data are a vital human rights tool.”** - Michelle Bachelet, United Nations High Commissioner for Human Rights

# ORGANIZATION FOR ECONOMIC COOPERATION & DEVELOPMENT

May 2020

The OECD discussed why and how Open Science is critical to preventing and combating pandemics such as COVID-19.

- **Open Science** is transparent and accessible knowledge that is shared and developed through collaborative networks.
- **FAIR** (findable, accessible, interoperable, and reusable) data principles are an integral part of Open Science, and they emphasise machine-actionability.

# CODATA (International Science Council)

## The Beijing Declaration on Research Data

The word “data” may be used very broadly to comprise:

- ▶ **data** (in the strict sense); **and**,
- ▶ the **ecosystem of digital things that relate to data**, including,
  - ▶ metadata,
  - ▶ software and algorithms,
  - ▶ as well as physical samples and analogue artefacts (and the digital representations and metadata relating to these things).

# MANDATORY POLICIES AND DIRECTIVES

- ▶ Open government
- ▶ Open-by-default-by-design
- ▶ Open standards and solutions
- ▶ FAIRER data
- ▶ Reproducible science and research
- ▶ Eliminate data redundancy
- ▶ Ensure interoperability
- ▶ Consistent workflows
- ▶ Tested for unintended biases
- ▶ AI outcomes monitored



A regular [icosahedron](#) has [59 stellations](#).

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[http://bulatov.org/polyhedra/stellation\\_applet](http://bulatov.org/polyhedra/stellation_applet)

# maDMP

- ▶ Open science
- ▶ Data
- ▶ Metadata
- ▶ Data security
- ▶ Intellectual property
- ▶ Restricted access
- ▶ Data quality
- ▶ Computer code sharing
- ▶ Linked
- ▶ Inventory
- ▶ Related datasets
- ▶ Criticality
- ▶ Reports/publications
- ▶ APPROVALS

# RECOMMENDATION

*Sing the [59th Bridge Street Song](#) while reading through the key policy requirements (drivers and commitments).*



# REFERENCE

Austin CC (2020). The Open Science Ecosystem: A Systematic Framework Anchored in Values, Ethics, and FAIRER Data. Preprint. <http://dx.doi.org/10.2139/ssrn.3654298>