Funders Facing FAIR Data

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The Talk

- FAIR Data
- Belmont Forum
- The Challenges

FAIR Guiding Principles

FAIR is…

Findable
Accessible
Interoperable
Reusable

Article in Nature journal *Scientific Data*:
Wilkinson, M. D. *et al.* The FAIR Guiding
Principles for scientific data management and
stewardship. *Sci. Data* 3:160018 doi:
10.1038/sdata.2016.18 (2016).

Publishers Will Strive To:

- Ensure that data and other research outputs supporting publications are open and accessible at the time of publication.

- Direct all core research outputs (data, software, appropriate samples and sample descriptions) to trusted repositories, following the FAIR Principles (e.g., using CoreTrustSeal or Data Seal of Approval certification). This means that supplements will no longer be used as the primary archive for data.

- Adopt the following shared set of author instructions that support these principles, providing a common set of expectations for authors in the Earth, space, and environmental sciences. These include:

  - Adding data citations in the reference list following leading practices.

  - Including a "data availability statement" in published manuscripts that have research outputs (described here as the "TOP Statement"). This statement should be publicly accessible, machine readable and conform to common community standards.

  - Inform editors and reviewers of the FAIR data principles, and communicate these principles in author and reviewer workshops and training.

- Regularly review and update these data management practices, to align with current developments.

- Enable the connections between data citations in references and data, allowing researchers to receive credit for data sharing practices.

BELMONT FORUM | e-INFRASTRUCTURES & DATA MANAGEMENT

- Formed in 2009
- Approximately 2 dozen national funders
- Sustainable Development Goals (SDGs)
- International, cross-disciplinary research
- Stewardship of Research Outputs

www.belmontforum.org

Open Data Policy and Principles

- Data should be:

- ☐**Discoverable** through catalogues and search engines

- ☐**Accessible** as open data by default, and made available with minimum time delay

- ☐**Understandable** in a way that allows researchers—including those outside the discipline of origin—to use them

- ☐**Manageable** and protected from loss for future use in sustainable, trustworthy repositories

Aligning and Operationalising

- In what direction(s) does the aligning take place – and at what pace?

- To what data does it apply?

- Sign up to Enabling FAIR Data Commitment? **(Link to the Commitment Statement: http://bit.ly/FAIRCommitment)**

- Internal workings within funders?

- External workings with partners, e.g. Research Data Alliance?

- What resources are required?

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