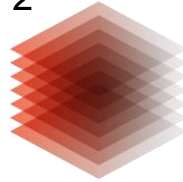


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Why we need to highlight FAIR and Open Data and how to do it with



Anette Ganske², Felix Burger²,
Angelika Heil¹, Hannes Thiemann¹, Andrea Lammert¹

FAIRness of datasets with a DataCite DOI?



More and more data are published with a DataCite DOI

→ PID requirement of FAIR Data Principles is met

Are these datasets really following the FAIR principles?

Dorothea Strecker* analysed metadata of datasets published in 2019 and 2020 with a DataCite DOI

Properties of DataCite metadata schema:

- 6 mandatory,
- 6 recommended and
- 8 optional,
- all have sub-properties.

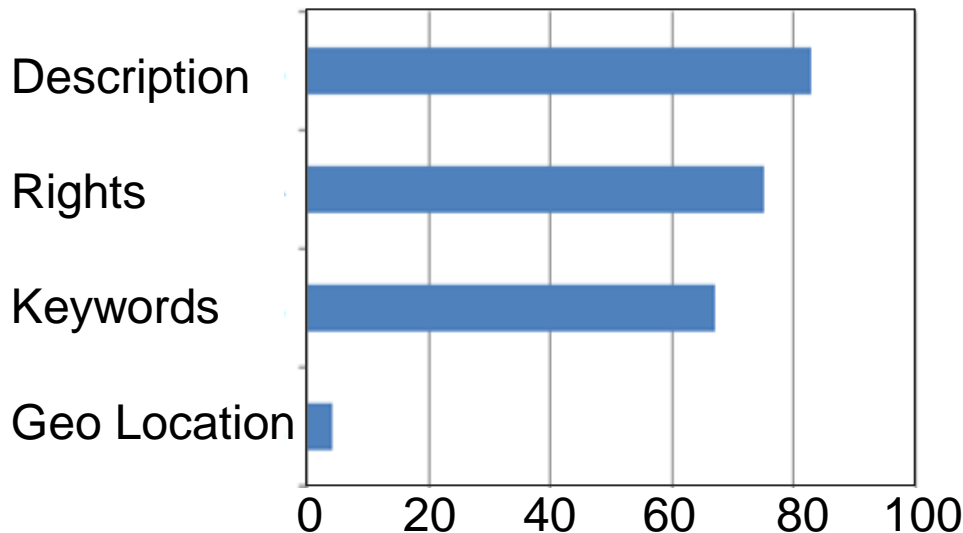
*<https://doi.org/10.18452/22916>



Use of recommended DataCite properties

Chosen Examples from Strecker (2020):

Use of recommended properties [%]



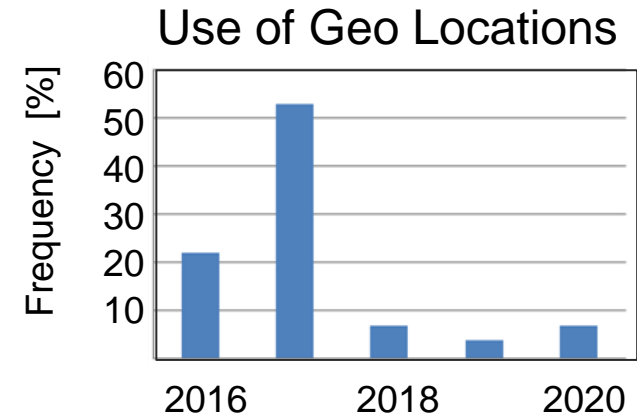
How FAIR are Earth System Science datasets ?

Analysis: Datasets with a DataCite DOI
(2016-2020) where metadata is containing
the keyword “Climate”

Results:

- ❖ large differences in the use of Geo Location

→ **strongly dependent on the publishing repository**



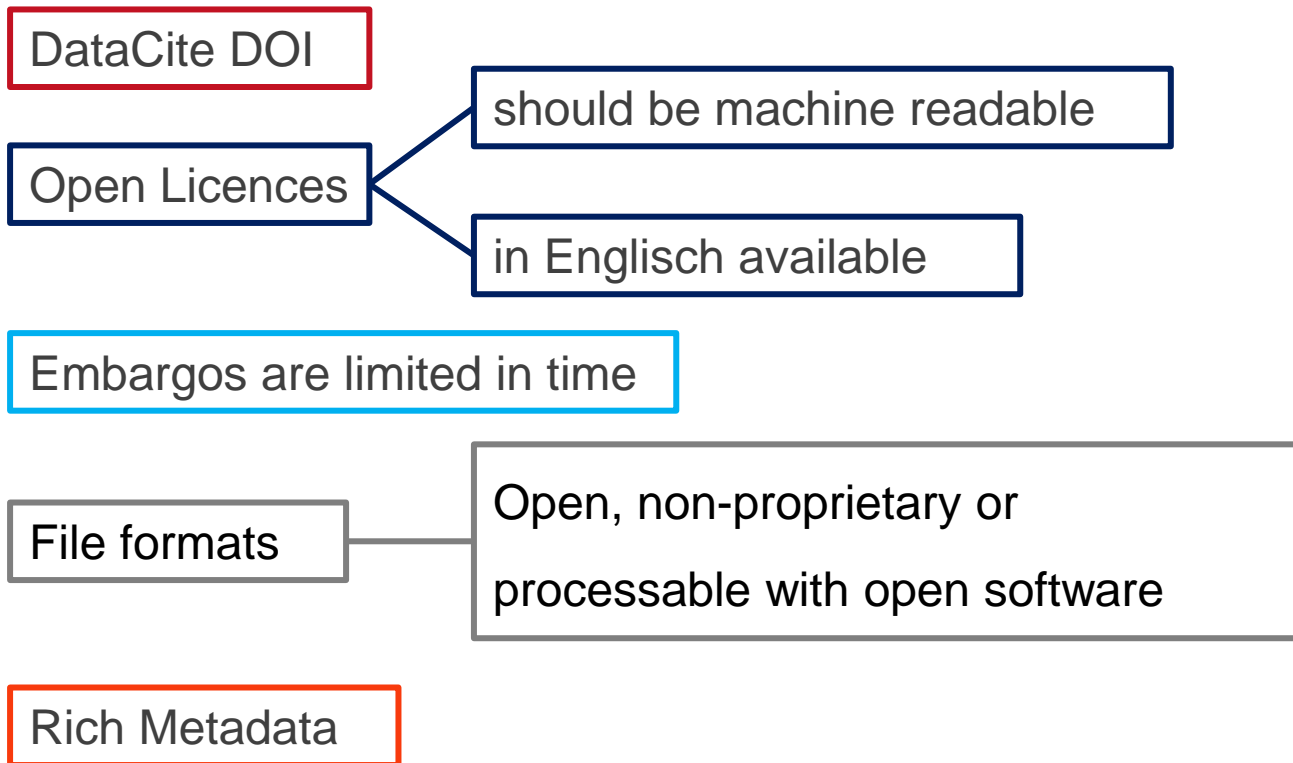
Highlighting datasets with high quality metadata



- ❖ Label identifies landing pages of **quality-checked, open and FAIR** datasets.
- ❖ EASYDAB guideline specifies how datasets can satisfy these conditions
- ❖ Repositories can demonstrate that the datasets in their archives meet these conditions through the use of EASYDAB



EASYDAB Guideline



EASYDAB User Community

- ❖ The EASYDAB User Community is organized by TIB
- ❖ Duties and rights in the community are regulated by contracts between the repositories and TIB

- ❖ **TIB:**
 - Grants the rights to use EASYDAB.
 - Checks compliance with EASYDAB guidelines.

- ❖ **Repository:**
 - Assigns DataCite DOIs.
 - Can use the EASYDAB logo on landing pages of data that comply with the EASYDAB guideline.
 - Shows that it checks data against a quality guideline.



Quality Guidelines

- ❖ Show how datasets are curated
- ❖ Serve to verify compliance with the EASYDAB guidelines.
- ❖ Must be recognised as suitable for EASYDAB.



Created by Adrien Coquet
from Noun Project

Recommended quality guideline for Atmospheric Model Data:
The ATMODAT Standard → following talk by Angelika Heil



Advantages of EASYDAB



Repositories demonstrate that they have implemented quality controls so that the tagged datasets contain high-quality metadata.



Data providers show, that their data meet discipline-specific standards.

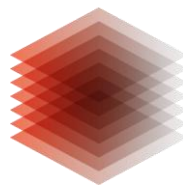


Data user can easily find data, that is re-usable, open and interoperabel.





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Thank You!

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Federal Ministry
of Education
and Research