



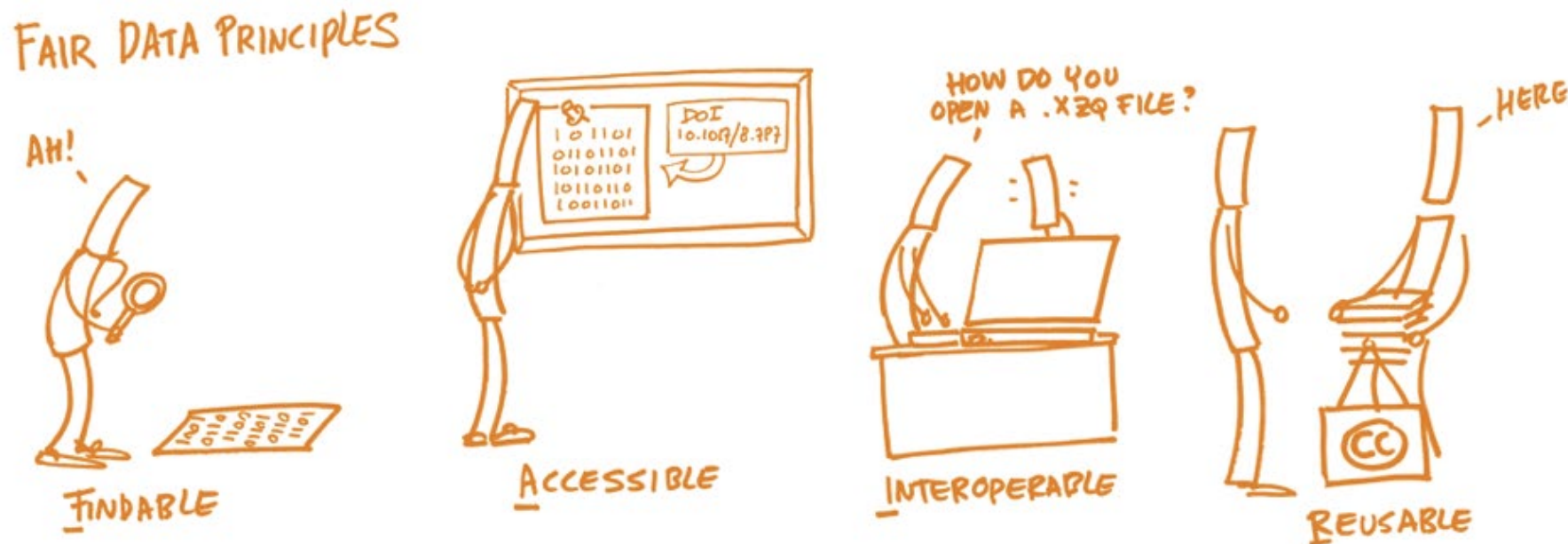
**FAIR**  
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# FAIR Office Austria

## An initiative to connect research communities and service providers

Barbara Sánchez Solís with the contribution of Tomasz Miksa  
TU Wien Center for Research Data Management  
9<sup>th</sup> June 2021

# FAIR Principles (very simplified)



[https://www.openaire.eu/images/Guides/FAIRdatapinciples\\_foster.png](https://www.openaire.eu/images/Guides/FAIRdatapinciples_foster.png)

## FAIRness Paradox

- almost all researchers have heard about FAIR and support the idea
- but daily practices in the labs did hardly change in the last 5 years
- FAIRness shifted to **FAIRness by Publication (FbP)** instead of **FAIRness by Design (FbD)**

## Production Chains

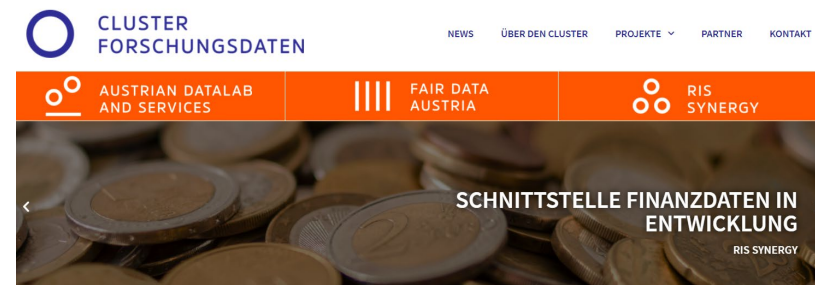
- creating research results includes **chains of specialised actors and labs**
- FAIRness is shifted to the next actor in the chain – finally no one does it

*Peter Wittenburg, Max Planck Computing & Data Facility, Presentation e-IRG Workshop, May 2021*

# FAIR Principles (less simplified)



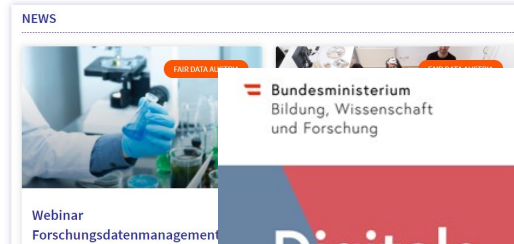
- Currently, a very dynamic situation at Austrian RPOs for infrastructure/tool/service/support development
- We want our researchers to be aware of the great **potential** of the **new technologies**
- and to be able to exploit them!



Der Digitalisierungs-Cluster „Forschungsdaten“ vereint die drei durch das Bundesministerium für Bildung, Wissenschaft und Forschung geförderten, im Jahr 2020 gestarteten Projekte „RIS Synergy“, „FAIR Data Austria“ und „Austrian DataLAB and Services“.

Forschung generiert Wissen, produziert und verarbeitet Daten. Für ein abgestimmtes Zusammenspiel zwischen Forschungsinformationssystemen und Forschungsdatenmanagement-Infrastrukturen mithilfe digitaler Technologien müssen Konzepte erarbeitet und umgesetzt werden.

Zur Bewältigung dieser Herausforderungen haben sich





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*We connect stakeholders from research communities and  
service providers. Together, we help to advance the FAIR  
principles.*

Deutsch English

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<https://fair-office.at/>



# Persistent Identifiers (F1)

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helmuthb / dmp-exercise1 Watch

<> Code Issues Pull requests Actions Projects Security Insights

1.0.1 1 branch 3 tags Go to file Code

File	Commit	Age
data	First version with full data	2 years ago
src	First version with full data	2 years ago
.gitignore	First version with full data	2 years ago
Dockerfile	First version with full data	2 years ago
LICENSE	Initial commit	2 years ago
README.md	Corrected DOI link	2 years ago
Report.pdf	First version with full data	2 years ago

README.md

DOI: 10.5281/zenodo.2648326

DOI example - assigned to code

November 27, 2020 | Version 1.0 Dataset Embargoed

## The Sentinel-1 Global Backscatter Model (S1GBM) - Mapping Earth's Land Surface with C-Band Microwaves

Bauer-Marschallinger, Bernhard <sup>1</sup>; Cao, Senmao <sup>1,2</sup>; Navacchi, Claudio <sup>1</sup>; Freeman, Vahid <sup>1,3</sup>; Reuß, Felix <sup>1</sup>; Geudtner, Dirk <sup>4</sup>; Rommen, Björn <sup>4</sup>; Vega, Francisco Ceba <sup>4</sup>; Snoeij, Paul <sup>5</sup>; Attema, Evert <sup>4</sup>; Reimer, Christoph <sup>2</sup>; Wagner, Wolfgang <sup>1,2</sup> [show affiliations](#)

This dataset was generated by the Remote Sensing Group of the [TU Wien Department of Geodesy and Geoinformation](#) (<https://mrs.geo.tuwien.ac.at/>), within a dedicated project by the European Space Agency (ESA). Rights are reserved with ESA. Open use is granted under the [CC BY 4.0 license](#).

With this dataset publication, we open up a new perspective on Earth's land surface, providing a normalised microwave backscatter map from spaceborne Synthetic Aperture Radar (SAR) observations. The Sentinel-1 Global Backscatter Model (S1GBM) describes Earth for the period 2016-17 by the mean C-band radar cross section in VV- and VH-polarization at a 10 m sampling, giving a high-quality impression on surface- structures and -patterns.

Versions: Version 1.0 Nov 27, 2020

Digital Object Identifier: DOI: 10.48436/n2d1v-gqb91

Export: JSON

Cite As: Bauer-Marschallinger, Bernhard et al. (2020). The Sentinel-1 Global Backscatter Model (S1GBM) - Mapping Earth's Land Surface with C-Band Microwaves (Version 1.0) [Dataset]. TU Data. <https://doi.org/10.48436/n2d1v-gqb91>

DOI example - assigned to data

April 22, 2019 Software Open Access

## US Wheat and Salzburg Middle-Aged Marriages - Data Experiment

Helmuth Breitenfelder

This is the source data and code for the Data Experiment as part of the Data Stewardship lectures at TU Wien.

Available in: GitHub OpenAIRE

Publication date: April 22, 2019

DOI: 10.5281/zenodo.2648326

Related identifiers: Supplement to <https://github.com/helmuthb/dmp-exercise1>

License (for files): [Other \(Open\)](#)

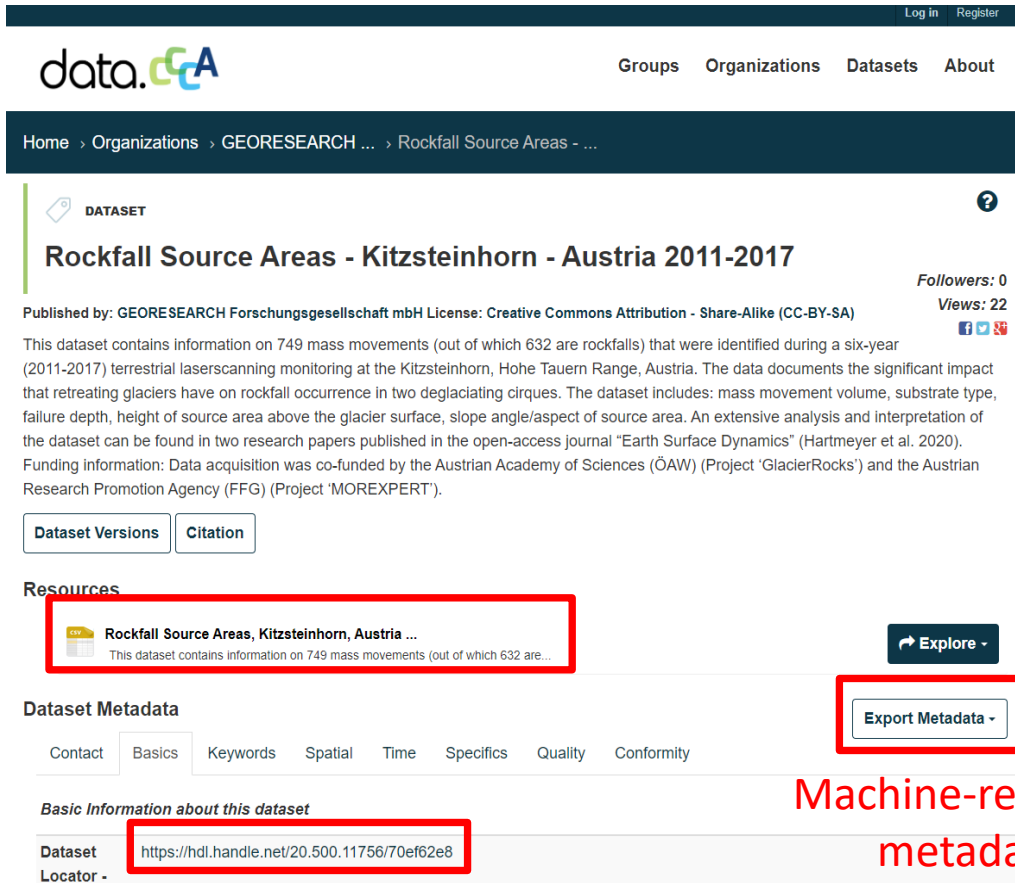
Versions: Version 1.0.1 10.5281/zenodo.2648326 April 22, 2019

Version 1.0 10.5281/zenodo.2648326 April 22, 2019

Version 0.1 10.5281/zenodo.2648326 April 22, 2019

Cite all versions? You can cite all versions by using the DOI 10.5281/zenodo.2648326. This DOI represents all versions, and will always resolve to the latest one. Read more.

# F3. Metadata clearly and explicitly include the identifier of the data they describe



data.cza

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Home > Organizations > GEORESEARCH ... > Rockfall Source Areas - ...

**DATASET**

## Rockfall Source Areas - Kitzsteinhorn - Austria 2011-2017

Published by: GEORESEARCH Forschungsgesellschaft mbH License: Creative Commons Attribution - Share-Alike (CC-BY-SA)

Followers: 0  
Views: 22

This dataset contains information on 749 mass movements (out of which 632 are rockfalls) that were identified during a six-year (2011-2017) terrestrial laserscanning monitoring at the Kitzsteinhorn, Hohe Tauern Range, Austria. The data documents the significant impact that retreating glaciers have on rockfall occurrence in two deglaciating cirques. The dataset includes: mass movement volume, substrate type, failure depth, height of source area above the glacier surface, slope angle/aspect of source area. An extensive analysis and interpretation of the dataset can be found in two research papers published in the open-access journal "Earth Surface Dynamics" (Hartmeyer et al. 2020). Funding information: Data acquisition was co-funded by the Austrian Academy of Sciences (ÖAW) (Project 'GlacierRocks') and the Austrian Research Promotion Agency (FFG) (Project 'MOREXPART').

Dataset Versions Citation

### Resources

**Rockfall Source Areas, Kitzsteinhorn, Austria ...**  
This dataset contains information on 749 mass movements (out of which 632 are...

Explore

### Dataset Metadata

Contact Basics Keywords Spatial Time Specifics Quality Conformity

Basic Information about this dataset

Dataset Locator - <https://hdl.handle.net/20.500.11756/70ef62e8>

Export Metadata

Machine-readable  
metadata

<https://hdl.handle.net/20.500.11756/70ef62e8>



# Qualified References (I3)





January 19, 2021 | Version 1.0

**Dataset** **Open Access**

**Versions**

Version 1.0  
DOI: 10.48436/tkfs-11b75

## European Sentinel-1 Forest Type and Tree Cover Density Maps

 Dostalova, Alena <sup>1</sup>; Cao, Senmao <sup>1,2</sup>;  Wagner, Wolfgang <sup>1,2</sup> [show affiliations](#)

### Description

This dataset was generated by the [TU Wien Department of Geodesy and Geoinformation](#).

European Sentinel-1 forest type and tree cover density maps represent first continental-scale forest layers based on Sentinel-1 C-Band Synthetic Aperture Radar (SAR) backscatter data. For the year 2017 they cover the majority of European continent with 10 m and 100 m sampling for forest type and tree cover density, respectively. The maps were derived using the method described in <https://www.tandfonline.com/doi/full/10.1080/01431161.2018.1479788>.

The forest type map shows the dominant forest type class (coniferous, broadleaf). Tree cover density map shows the percentage of forest canopy cover within the 100 m pixel.

Please be referred to our peer-reviewed article at <https://doi.org/10.3390/rs13030337> for details and accuracy assessment accross Europe.

### Dataset Record

The forest type and tree cover density maps are sampled at 10 m and 100 m pixel spacing respectively, georeferenced to the Equi7Grid and divided into square tiles of 100km extent ("T1"-tiles). With this setup, the forest maps consist of 728 tiles over the European continent, with data volumes of 3.12 GB and 378.3 MB.

The tiles' file-format is a LZW-compressed GeoTIFF holding 16-bit integer values, with tagged metadata on encoding and georeference. Compatibility with common geographic information systems as QGIS or ArcGIS, and geodata libraries as GDAL is given.

In this repository, we provide each forest map as tiles, whereas two zipped dataset-collections are available for download below.

### Code Availability

For the usage of the **Equi7Grid** we provide data and tools via the python package available on GitHub at <https://github.com/TUW-GEO/Equi7Grid>. More details on the grid reference can be found in <https://www.sciencedirect.com/science/article/pii/S0098300414001629>.

### Acknowledgements

The computational results presented have been achieved using the Vienna Scientific Cluster (VSC).

### Details

#### Licenses

**Resource type** Dataset

**Formats** application/x-geotiff

**Related identifiers** **isreferencedby** 10.3390/rs13030337 ( doi )

**issupplementto** 10.5281/zenodo.3515933 ( doi ) **Code**

<https://github.com/TUW-GEO/Equi7Grid> ( url )

**references** 10.1080/01431161.2018.1479788 ( doi )

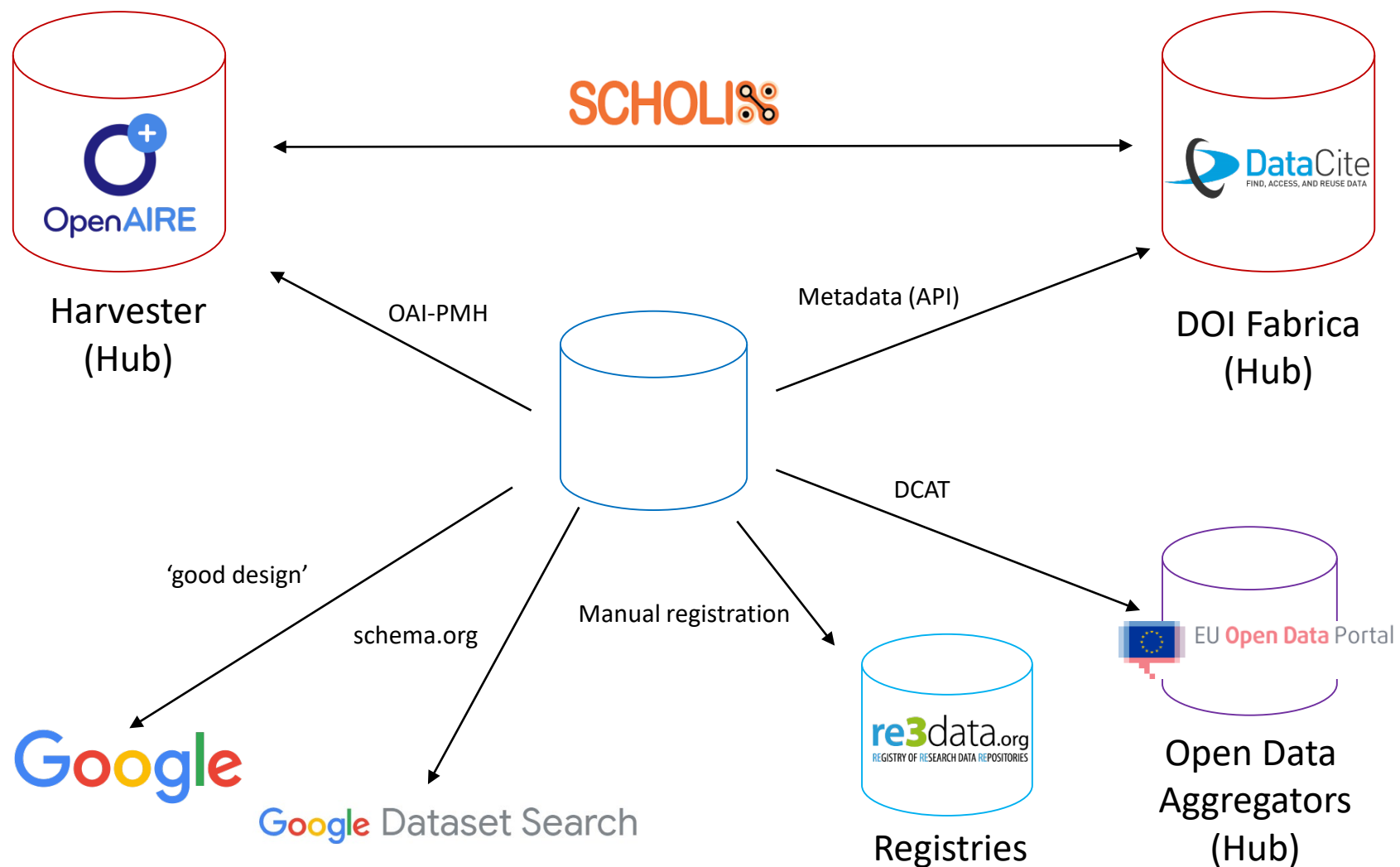
10.1016/j.cageo.2014.07.005 ( doi )

Paper citing this dataset

Code

Paper describing the method to produce this dataset

# External visibility



# How we are organised

- FAIR Office Austria Consortium in implementation phase



- Embedded within „FAIR Data Austria“ project until end of 2022



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## Support for FAIR Research Near You

Here you can find the contact details of the contact points for FAIR and research data management at Austrian research institutions.

### Academy of Fine Arts Vienna

University Library

Contact: [A.Ferus@akbild.ac.at](mailto:A.Ferus@akbild.ac.at)

### Medical University of Graz

Research Data Management Team

Contact: [rdmsupport@medunigraz.at](mailto:rdmsupport@medunigraz.at)

### Graz University of Technology

RDM Team

Contact: [rdmteam@tugraz.at](mailto:rdmteam@tugraz.at)

### TU Wien

Center for Research Data Management

Contact: [research.data@tuwien.ac.at](mailto:research.data@tuwien.ac.at)

TU Wien Bibliothek, DOI-Service Austria, ORCID Austria

Contact: [pid-services@tuwien.ac.at](mailto:pid-services@tuwien.ac.at)

### University of Innsbruck

Information Technology Services (IT-Center)

Contact: [heike.thoericht@uibk.ac.at](mailto:heike.thoericht@uibk.ac.at)

### University of Vienna

University Library

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Contact: [susanne.blumesberger@univie.ac.at](mailto:susanne.blumesberger@univie.ac.at) (PHAIDRA-Services)



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**Scalability** is envisioned and desired

# Links between Austrian activities and global organisations



# Get Involved!



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**Join us at our upcoming events**

6 October – 2. FAIR Office Austria Event

End October – Webinar on FAIR



Contact us via [contact@fair-office.at](mailto:contact@fair-office.at)

# Contact

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