

GeoFOST Committee: Opening our World

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Role of the GeoFOST committee

The Findable, Accessible, Interoperable, and Reusable (FAIR) and Open Science movement has hit Utrecht University like a tidal wave. These efforts are not new in Geosciences. Open Geospatial information has long been pivotal for map making and information transparency.

The GeoFOST committee within the Faculty of Geosciences has representatives from all faculties, Human Geography, Physical Geography, and from the Copernicus Institute for **Sustainable Development.** Together, we discuss unique considerations the FAIR data and software movement and UU Open Science programme poses for Geosciences. We discuss existing strategies and opportunities and plan new support and outreach opportunities useful for our department.

	United Nations	 UN Statistics Agency Wo Data
	European Union	 European Open Science Clo <u>EU Open Data Portal</u> And more!
	The Netherlands	 <u>SURF – IT and data infrastruct</u> <u>DANS – data archiving service</u> <u>eScience Center</u> NWO
	Utrecht University	 <u>Open Science Program</u> <u>Research IT- FAIR IT (IT</u> <u>Research Data Managen</u> <u>Library</u>
	Faculty of Geosciences	 <u>Research Support Office</u> <u>Geo-ICT- Geosciences –</u> <u>stewards</u> GeoFOST Committee

Further Reading:

Degbelo, A. (2022). FAIR geovisualizations: definitions, challenges, and the road ahead. *International Journal of Geographical Information Science*, *36*(6), 1059–1099. https://doi.org/10.1080/13658816.2021.1983579

Open Science and The Faculty of Geosciences









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Why does FAIR Software and Data matter in Geosciences?

When data and software are open:

- Accessible data becomes **replicable** for further use,
- Possible to peak under the hood of software packages illuminate the black box – **compare** methods for repeatability
- Open data is a sign of **rigour**
- Leads to more **sustainable** and stronger science

Data are representative to specific environments and

people – often open data are used repeatedly when training data in machine learning and artificial intelligence. Methods chosen to analyse data are influenced by the **epistemology** of the researcher. Opening data could bring new insights into each dataset and reduce workload in the data collection process.

orking Group on Open
oud (EOSC)
<u>es</u>
and Platform <u>TS)</u> ment Support
<u>e (RSO) – Geosciences</u> - including data

Figure 1. Open Science Ecosystem

We in Geosciences are not the only ones interested in Open Science. There is a whole ecosystem of Open Science resources and efforts, all at our finger tips. It can be overwhelming to figure out where to find the right resources. Here are a few examples for you to explore and learn more about on your own. Pro tip – the library has regular workshops about how to make your own science more open, or how to access open science in your teaching and so much more. Want to learn more about any of these open science initiatives? Access an online version of this poster and click on the links to read more about each.

- Do you need help finding FAIR software alternatives?
- How do I make my own data finable, accessible, interoperable, and reusable.

How we can help you:

- Do you need help? Contact GeoFOST or the Geoscience Data Stewards! • What are the four pillars of open science at UU?
- How do I get started making sense of open science?
- What infrastructure and support is already in the faculty?
- How do I find existing FAIR data to analyse for research or for teaching?
- Do you have an idea you would like to share with us?
- Examples of your work of open data practices?
- Can you think of an idea from a departmental policy perspective that
 - would we could implement that would help you facilitate your goals?

