



# eLTER Information System Training

*Sharing data for science and research*

Setting up services and supporting the implementation of components of the [eLTER Research Infrastructure \(eLTER RI\)](#) as well as supporting the LTER Europe network are major aims of the [eLTER H2020 project](#) (GA-Nr. 654359). The establishment of a common data infrastructure is a central element aiming to enable, foster and accelerate data publication and sharing from LTER research and monitoring. By applying the core principles of FAIR data sharing and reuse, eLTER is working towards an open data strategy for core data products. FAIR is the acronym for Findable, Accessible, Interoperable and Re-useable and addresses the important aspects of data sharing and re-use. The toolset provided by the [eLTER Information System](#) allows network and site managers, as well as LTER scientists to publish, share and discover data for scientific purposes.

Within the framework of the eLTER H2020 project, a training workshop will be organised in order to demonstrate and provide train on the different tools. It will also be an important forum to enable the exchange of ideas between LTER scientists and those in the information management community.

## Who is the training aimed at?

The training workshop focuses on LTER scientists as well as on data managers from LTER sites. By focusing on the practical aspects of data sharing and provision, both data providers and data users are addressed. By bringing your own data you can learn how to use and contribute to the eLTER Information System.

The meeting will take place at the Umweltbundesamt GmbH in Vienna (Austria), hosting approximately 25 places on the training course.

## What will we do?

Using data and material provided by the participants, the training will aim to interactively introduce and explain how to use the tools provided within the eLTER Information System. The sessions will provide relevant background information, demonstrate the tools and allow participants to use them with their own data.

'What?', 'Where?', 'Who?' and 'How?' are the basic questions addressed in the course. We will focus on the provision of metadata, ways to publish and share data using files and services, and how to find and use data from the eLTER Information System. You can bring your own data in order to discuss on how to best share the data with the LTER and scientific community.

The training will focus on

- Site and dataset documentation with DEIMS-SDR
- Provision of sensor data using the eLTER Central Data Node
- Discover and visualise data using the eLTER Data Integration Platform
- Analyse time series data using R

The relevant concepts and tools will be introduced and practical examples will allow the participants to work with the tools.

	Day 1	Day 2	Day 3	Day 4
9:00-10:30		<b>What, where, how?</b> Metadata for the documentation of research activities and sites	Hands-on session on registering observation sites and data using DEIMS.org	<b>EnvThes</b> The use of semantics and vocabularies for environmental data
coffe break				
11:00-12:30		Introduction to metadata provision with DEIMS.org	Hands-on session on providing data as service using the central data node	Feedback and wrap up of the training
lunch break				
13:30-15:00	Welcome to the workshop, agenda and expectations of participants	<b>How to provide?</b> Recommended formats for the provision of research data	<b>Where to find?</b> Discovery and visualisation of data using the eLTER Data Integration Platform	
coffe break				
15:30-17:00	Introduction to eLTER Information System	Introduction to data provision with the eLTER Central Data Node	<b>How to use?</b> Hands-on session on data access using tools like R or python	

## What will you need?

You will need to bring your laptop and additionally you can bring your own data examples to test and work with the eLTER Information System. All basic tools of the eLTER Information System are web based and no specific software installation is needed.

In order to work with the data and services we recommend to preinstall [R/R-Studio](#), python/[pyCharm](#), and [QGIS](#) on your laptop.

## When and Where?

### Meeting place

Date: Postponed & will now take place early 2019. Please watch for announcements

Place: Umweltbundesamt GmbH, Spittelauer Lände 5, 1090 Vienna

### Accommodation and travel

There are frequent connections to the Vienna International Airport with regular public transport to the city centre. Detailed information on [how to reach the Umweltbundesamt GmbH](#) can be found following the link.

There are a number of hotels in the surrounding. Please book accommodation and travel yourself. Recommended hotel in walking distance to the meeting place is the [Hotel Bellevue](#). In addition you find a number of [recommended hotels](#) nearby.



## How to register?

A form to register for the training will be setup in the next two weeks. If you are interested to attend the workshop, please express your interest by sending an email to [Johannes.peterseil@umweltbundesamt.at](mailto:Johannes.peterseil@umweltbundesamt.at). Please inform us on your main interest.

Formal registration will open mid October 2018.

## Contact

For any details, please contact

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