

Michael Mirtl (UBA), Sophie Zechmeister Boltenstern (BOKU), Michael Englisch (BFW)

Co-ordination: DI.Dr. Michael Mirtl, E-mail: [michael.mirtl@umweltbundesamt.at](mailto:michael.mirtl@umweltbundesamt.at), Tel: 0043-1-31304-3410

### Overview

From an Austrian perspective **which forest research questions are visionary and important?**

Which questions **require special infrastructure to be tackled?**

**How can previous infrastructure investments and existing sites best be used?**

**How can Austria efficiently position itself in the European Research Area and global research by concentrating resources and expertise?**

In the project, Austrian key institutions will deal with these questions targeted at a strategic conceptual paper with detailed proposals.

The project **capitalizes on a co-operative process** between operators of the most important forest research infrastructures, namely the University of Natural Resources and Life Sciences (BOKU), the Environment Agency Austria (UBA) and the Federal Research and Training Centre for Forests, Natural Hazards and Landscape (BFW).

It is entirely **in line with** the (i) organization and thematic streamlining of the Austrian ecosystem research community (LTER-Austria White Paper); (ii) structures and processes designing the **European Research Area**; and (iii) strategic intentions of the institutional association **BIOS Science Austria**.



**BOKU**  
o. Univ.-Prof. Dr. Sophie Zechmeister Boltenstern  
o. Univ.-Prof. Dr. Douglas Godbold  
o. Univ.-Prof. Dr. Axel Schopf  
Dr. Christa Schaffner  
ao. Prof. Dr. Klaus Katzensteiner  
ao. Prof. Dr. Georg Gratzer  
o. Univ.-Prof. Dr. Hubert Hasenauer  
Dr. Ursula Nopp  
Dr. Michael Zimmermann  
Dr. Hans Göransson  
Dr. Boris Rewald  
DI.Dr. Josef Gasch

**UBA**  
DI.Dr. Michael Mirtl  
Mag. Dr. Thomas Dirnböck  
Mag. Hannes Köbler  
Mag. Dr. Johannes Petersell

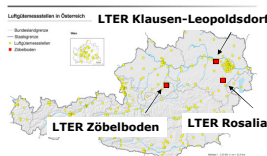
**BFW**  
DI.Dr. Michael Englisch  
DI.Dr. Barbara Kitzler  
Univ.-Doz. DI.Dr. Robert Jar  
DI.Dr. Andreas Schindlbach  
DI.Dr. Markus Neumann  
DI.Dr. Ernst Leible

### LTER Klausen-Leopoldsdorf at a glance

- **Forest site with low background immission (part of the ICP Forests network)**
- Forest and soil types are **typical for the Flysch Zone**
- **Measurement devices** for climate, total deposition, soil water fluxes and chemistry, bioindication, biomonitoring and biodiversity
- **Models** for total deposition, water and element fluxes
- **Sampling, logistics**, high quality laboratory analyses, **data storage**
- Whole year access, data transfer, technical maintenance, etc.

### LTER Zöbelboden at a glance

- **Forested catchment with high background immission**
- Forest and soil types are **typical for the Limestone Alps**
- Karst catchment with high **priority for drinking water**
- **Measurement devices** for climate, air quality, total deposition, soil water fluxes and chemistry, bioindication, biomonitoring and biodiversity
- **Models** for total deposition, water and element fluxes
- **Sampling, logistics**, high quality laboratory analyses, **semantic data storage**
- Whole year access, power supply, data transfer, technical maintenance, field hut, etc.



### LTER Rosalia at a glance

- **Forested catchment with high background immission**
- Forest and soil types are **typical for Silicate Bedrock**
- **Measurement devices** for climate, fully automated greenhouse gas fluxes, irrigation system, total deposition, soil water and nutrient fluxes, root monitoring, bioindication, biomonitoring and biodiversity
- **Models** for total deposition, water and element fluxes
- **Sampling, logistics**, high quality laboratory analyses, **data storage**
- Whole year access, power supply, data transfer, technical maintenance, field station, on site laboratory etc.

### The strategic process

Development of a catalogue of research topics for the site cluster

Infrastructure task force elaborating options for joint operation

Joint lobbying through site registration and mutual involvement in strategic networks

Consideration of national stakeholders and processes as well as framework conditions set by the EC

#### TARGET:

**Securing key infrastructures in a long-term perspective (> 10 years)**

### Joint efforts towards concerted national contributions to the ERA

