



Topic: Infrastructure  
**AlpEnDAC**



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## Technical Guidelines

- **Distributed resources:**  
uses resources at DLR and LRZ for reliability and data safety
- **Infrastructural interoperability:**  
Interfaces comply with common standards (e.g. OGC, HTTP-REST)
- **Data standard:**  
Data are stored along with metadata
- **Simplicity:**  
User-friendly/reliable frontend

### Services

AlpEnDAC includes among others:

- Bio-Climatic Information System
- Computing-on-Demand
- Air chemistry and meteorology
- Satellite observations

# Alpine Environmental Data Analysis Center

observe  
understand  
forecast  
act

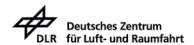
### Contact

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### Partners



## VAO – Virtual Alpine Observatory

**Network** of Alpine and associated observatories, research, data archive and supercomputing facilities

**Objective:**

Addressing demanding scientific, interdisciplinary and societal challenges for the next decade in the fields of climate change, human health and economic development

**Motto:**

Joining forces instead of duplicating efforts





**Scientific Challenges**

- Atmospheric and climatic variability
- Climatic impact on Alpine environment, hazards and risks
- Alpine water cycle
- Environment and human health
- Improving the infrastructure



## AlpEnDAC – a core element of the VAO

**AlpEnDAC** is being developed as a service to the VAO scientific community and with a clear outreach to broader society.

-  **computing-on-demand (CoD):**  
information products and data analysis tools tailored to scientific needs
-  **operating-on-demand (OoD):**  
coordinated measurements harmonized between different sites
-  **data-on-demand (DoD):**  
archiving and delivering data
-  **service-on-demand (SoD):**  
Delivering services for science and for society

