

CyVerse Austria



Funding source
National, regional, institutional

In-kind value
€250k–€500k

Timeframe
2022–ongoing

Target group
Researchers

Scale
International

Year of reporting
2022

Case study

CyVerse Austria (CAT) is a collaborative and secure Open Science workspace derived from the CyVerse solution developed by the University of Arizona. It fosters cross-disciplinary collaboration and provides tools for managing, sharing, and analysing large datasets, initially tailored for life and environmental sciences. Accessible to staff from three Graz-based universities, CyVerse Austria integrates high-performance computing and enables the creation of discipline-specific applications.



Collaborators:

- BioTechMed-Graz



Added value

- Supporting the **scaling and adaptation of algorithms** to run on large, high-performance computers, ensuring reliable performance and secure data analysis.
- Training users to exploit the CyVerse Austria infrastructure to **manage, share, and analyse large datasets** at their own pace, while adapting the learning material to match their specific needs.
- Providing an **interactive, web-based analytical platform** with enhanced data storage capacities.

Problem addressed

CyVerse Austria tackles large-scale computational challenges by offering tools, hardware, software, and expertise for data storage, sharing, and analysis. Just as physical laboratories enable data collection, CyVerse Austria facilitates the resolution of complex research questions previously hindered by computational requirements. It empowers researchers to explore new frontiers in science by overcoming the limitations of traditional computing resources.

21



Applications

Number of integrated applications that have been verified or are being developed for users of CAT

>1 000



Analyses

Number of analyses run on CAT to date

14



Virtual machines

Number of virtual machines available to CAT users

SRIA General Objective

G03: Establish a sustainable and federated infrastructure enabling open sharing of scientific results

Research areas



Social Sciences



Natural Sciences



Medical and Health Sciences



Humanities



Agricultural Sciences



Engineering and Technology

Type of result



Infrastructure



Training



Tool