HUN-REN Cloud

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Funding source	In-kind value	Timeframe	Target group	Scale	Year of reporting
National	**€1M–€10M**	**2025–2027**	**Researchers**	**National**	**N/A**

Good practice

The HUN-REN Cloud provides large-scale computing resources for the Hungarian scientific community. It offers user support and reference architectures to facilitate its usage by researchers. During the EGI Advanced Computing for EOSC (EGI-ACE) project, the HUN-REN Cloud was made compatible with the EOSC Compute Platform. As a result, applications and processing algorithms can now be seamlessly transferred between the HUN-REN Cloud and other European research clouds.

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Collaborators:

HUN-REN Wigner Research Centre for Physics (HUN-REN Wigner FK)

HUN REN | Wigner

Added value

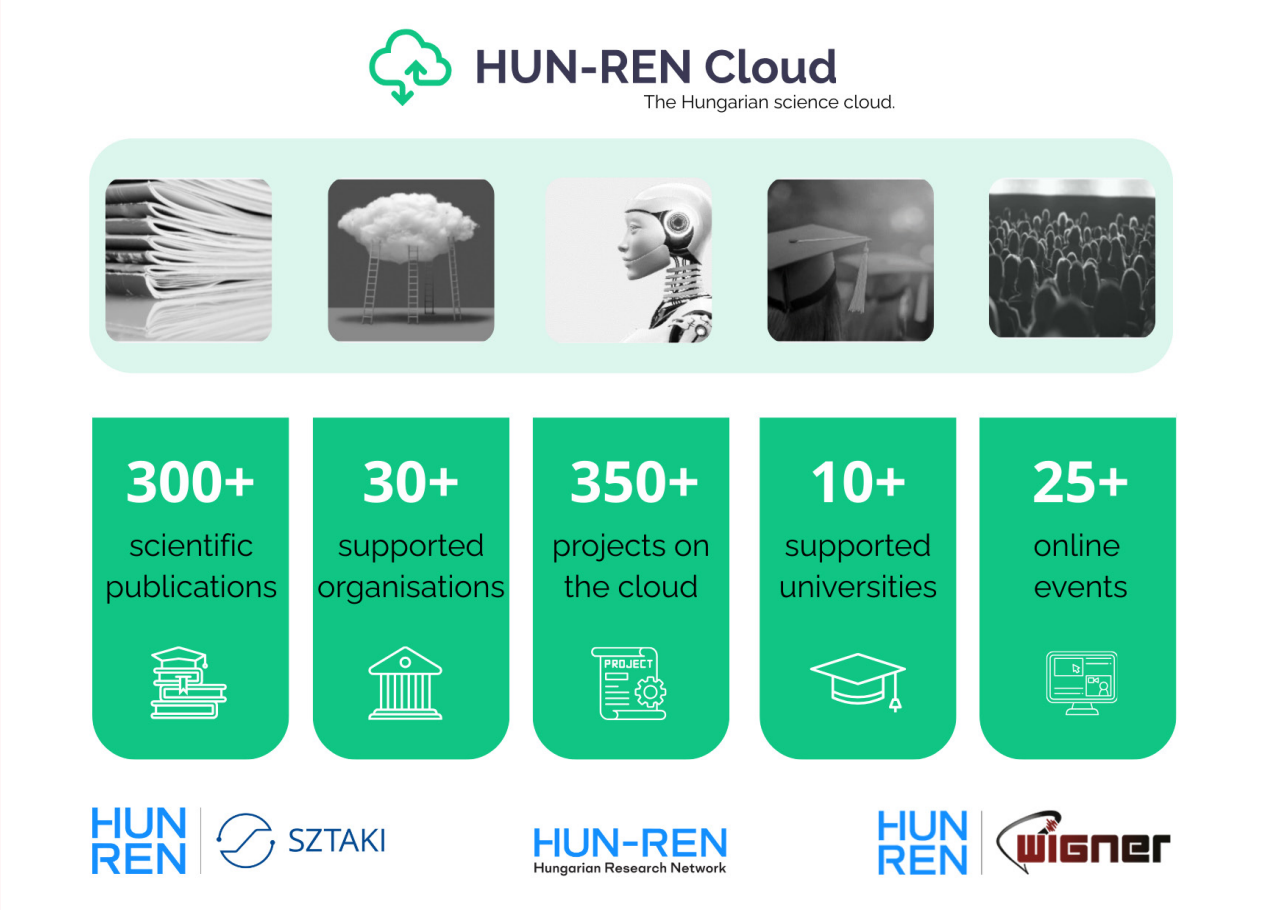
- Providing a flexible **OpenStack-based cloud infrastructure**, featuring 14 customisable reference architectures, alongside comprehensive user support and professional training services to enhance research productivity.
- Offering **advanced platform-level services** for the development and deployment of generative AI applications as part of the HUN-REN AI4Science Programme.
- Facilitating the **execution of HPC workloads** by integrating robust job management systems that optimise resource allocation.

Hungary

The EOSC Macro-Roadmap is supported by eosc | Focus Funded by the European Union

Problem addressed

HUN-REN Cloud offers a reliable research infrastructure for computationally heavy, complex problems and scientific simulations, available 24/7 to the Hungarian research community free of charge. Thus, research organizations can rely on a centrally funded, managed and operated state-of-the-art tool that meets their computational needs and provides adequate know-how and support services to conduct their research.



Key Performance Indicators of the HUN-REN Cloud

SRIA General Objective

GO3: 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

- Software
- Infrastructure
- Service
- Training
- Tool

More information science-cloud.hu/en