

# SRCE ecosystem for Croatian science community

*Wednesday, 2 October 2024 16:00 (10 minutes)*

The University of Zagreb, University Computing Centre (SRCE) has been providing all layers of e-infrastructure for Croatian science and higher education for more than 50 years. The latest expansion achieved through the project Croatian Scientific and Educational Cloud (HR-ZOO) brought five new data centers in four major cities, significant bandwidth improvement in the national educational and research network and resources for the two new advanced ICT services –Virtual Data Centers and Advanced Computing.

The Advanced Computing service provides users with two advanced computing resources - Supek and Vrančić. Supek is a supercomputer based on HPE Cray with sustained computing power of 1.25 PFLOPS. Vrančić is a cloud computing platform based on widely used open-source platforms

OpenStack and Ceph that provides 11520 CPU cores, 16 GPUs and 57 TB of RAM.

Furthermore, SRCE provides several data services options –PUH for storage and sharing of data during education and research and digital academic archives and repositories framework DABAR for establishment and maintenance of reliable and interoperable institutional and thematic repositories.

Both services are integrated with the Advanced Computing in a sense that users can easily access store data on PUH or DABAR.

Finally, SRCE is actively participating in the development and maintenance of the Croatian Research Information System –CroRIS –the central place for reliable information about institutions, researchers, projects, equipment, publications, etc. Access to Advanced Computing resources for researchers is currently fully integrated with CroRIS, which enables advanced resource usage reporting –based on institutions, projects or funding streams, but also automatically correlating publications with resources.

The SRCE ecosystem provides users from science and higher education with a variety of features described above, together with workshops that enable speedy on-boarding, as well as expert support that prepares scientific applications on advanced computing resources as well as other tools to simplify usage of provided services. Information systems such as CroRIS glue all this together by enabling the development of rich and transparent usage reports.

## Topic

Needs and solutions in scientific computing: National and scientific perspectives

**Primary authors:** CELJAK, Drazenko; IMAMAGIC, Emir (SRCE); UDOVČIĆ, Petra

**Presenter:** IMAMAGIC, Emir (SRCE)

**Session Classification:** National Perspectives: EGI Member Countries' Latest Developments and Future Initiatives