

## About us

Academic Computer Centre CYFRONET AGH was established 40 years ago, in 1973. Foundation of the Centre was given by the [Krakow University Rectors' College members](#), which in 1971 put forward a proposal to the state authorities to purchase a modern, large and multi-access computer for the Krakow scientific community and create the inter-university computer centre. Formally, the Centre was established on March 23, 1973 by the Minister of Science and Higher Education under the name Community Computational Centre CYFRONET-KRAKOW. Under this name the Centre operated until 1992, when it was renamed to the Academic Computer Centre CYFRONET-KRAKOW. Another name change took place in December 1998. ACK CYFRONET-KRAKOW converted to the Academic Computer Centre CYFRONET of the University of Science and Technology (ACK CYFRONET AGH). The Centre, which is organizationally and financially an autonomous unit of the AGH-UST in Krakow, is now one of the largest supercomputing and networking centers in Poland.

## Centre's activities

Academic Computer Centre CYFRONET AGH is established by the National Committee for Scientific Research as the unit leader in the operation and expansion of the hardware base of the high performance computers (HPC) as well as the urban and academic network (Metropolitan Area Network – MAN). The activities of the Centre include:

- [Metropolitan Area Network](#) in Krakow – development and maintenance of Krakow MAN and providing the users with a wide range of network services.
- [High performance computers](#) – providing the scientific community with computing power as well as disk and tape storage resources.
- Specialized software – access to the scientific and specialized software for the high performance computers' users.
- [Research](#) carried out in the framework of a series of research projects, both national and international.
- [e-Learning](#) – an effective Moodle system (used in teaching via the Internet) for the academic community.
- [Organization of national and international IT scientific conferences](#).

## Tasks and mission of the ACC Cyfronet AGH

Since 1999, Academic Computer Centre Cyfronet AGH has been organisationally and financially separate unit of the University of Science and Technology in Krakow. Since establishment in 1973, the most important task realized by Cyfronet is to provide telecommunication and computing services for the entire scientific community of Krakow and Malopolska province. The Centre also acts as an administrator of the Metropolitan Area Network in Krakow and is an important hub of the PIONIER network. The tasks of the Centre include:

- providing computing power and other IT services to research teams and educational institutions,
- conducting scientific research and R&D activities, either alone or in cooperation with other units, mainly in the field of high performance computers, computer networks and IT and telecommunications services,
- actions to achieve the objectives and programs of the Polish government, contained in the assumptions of the ministries responsible for science and education, in the field of usage of the new information techniques and technologies in science, education, management and business,
- construction, maintenance and development of the IT infrastructure operated by the Centre,
- studies, analyses and implementations of new techniques and technologies, which could be

- potentially used in the design, construction and operation of an IT infrastructure,
- advice, expertise, training and staff skills improvement as well as other activities in the field of computer science, computer networks, high performance computers and computer services,
- identifying, evaluation and promotion of new solutions in the scope of the own activities of the Centre, to be used in the field of science, education, administration, economy and management,
- providing computing power and other services that use the potential of the Centre for those interested in their implementation or use, according to their privileges, licenses and concessions.

## **Milestones**

While carrying out its tasks, Academic Computer Centre AGH CYFRONET has developed a number of achievements. The most important of these are presented below:

### **2020**

- Among the strategic infrastructures included in January 2020 on the Polish Research Infrastructure Map there are two projects proposed by ACC Cyfronet AGH as the initiator and coordinator of the PLGrid consortium: *National Supercomputing Infrastructure for EuroHPC* and *National Cloud Infrastructure PLGrid for EOSC*.
- Prometheus (53,748 cores, 2.65 PFlops) eleventh and twelfth time on the TOP500 list and ranks 288th place (the June edition) and 324th place (the November edition).
- The Prometheus supercomputer supports scientists in the fight against coronavirus.
- EPOS PL +, EPOS SP, PROTEUS-RS and EUROCC projects launched.

### **2019**

- Cyfronet represents Poland in the LUMI consortium, composed of eight countries that will jointly build one of the fastest European supercomputers.
- Prometheus supercomputer (53 604 cores, 2,4 PFlops) ninth and tenth time on the TOP500 list and ranks 174th place (the June edition) and 241st place (the November edition).
- Cyfronet exhibition stand at the ISC'19 conference.
- Cyfronet provides a new computational system for research using AI methods, with computational power over 4 PFlops for tensor operations and 256 TFlops for standard calculations.
- PRACE-LAB, PRACE-6IP, SANO, EOSC-Synergy and EOSC Enhance projects launched.

### **2018**

- Prometheus supercomputer (53 604 cores, 2,4 PFlops) seventh and eight time on the TOP500 list and ranks high, 103<sup>rd</sup> place in the June edition and then 131<sup>st</sup> place in the November edition.
- EOSC-Hub and PRIMAGE projects have been launched.

### **2017**

- Further dynamic development, including establishment of 6 new laboratories.
- Prometheus supercomputer ranks 71<sup>st</sup> (the June edition) and 77<sup>th</sup> place (the November edition) on the TOP500 list.
- Sat4Envi, Gliomed, EPOS-PL and eXtreme DataCloud projects launched.

### **2016**

- Prometheus ranks 48<sup>th</sup> (the June edition) and 59<sup>th</sup> place (the November edition) on the TOP500 list.

## **2015**

- The new backup Data Center is completed.
- Prometheus supercomputer is deployed at CYFRONET and appears on the TOP500 list for the first time, ranking 49<sup>th</sup> place in the June edition and then 38<sup>th</sup> place (the November edition).
- Zeus supercomputer eleventh and twelfth time among the fastest computers on the TOP500 list and ranks 269<sup>th</sup> place (the June edition) and then 386<sup>th</sup> place (the November edition).
- For the first time in history two supercomputers from CYFRONET (Prometheus and Zeus) are ranked on TOP500 list, in one edition.
- CYFRONET starts active participation in INDIGO-DataCloud, EGI-Engage, EPOS-IP and PRACE 4IP projects

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