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POZNAN UNIVERSITY OF TECHNOLOGY



# Universities shaping the digital transformation

**crp**

Conference of Rectors and Presidents  
of European Universities of Technology

***Teofil Jesionowski***

Rector of Poznan University of Technology

Member of Polish Academy of Science

The Chairman of Conference of Rectors of Polish Technical Universities



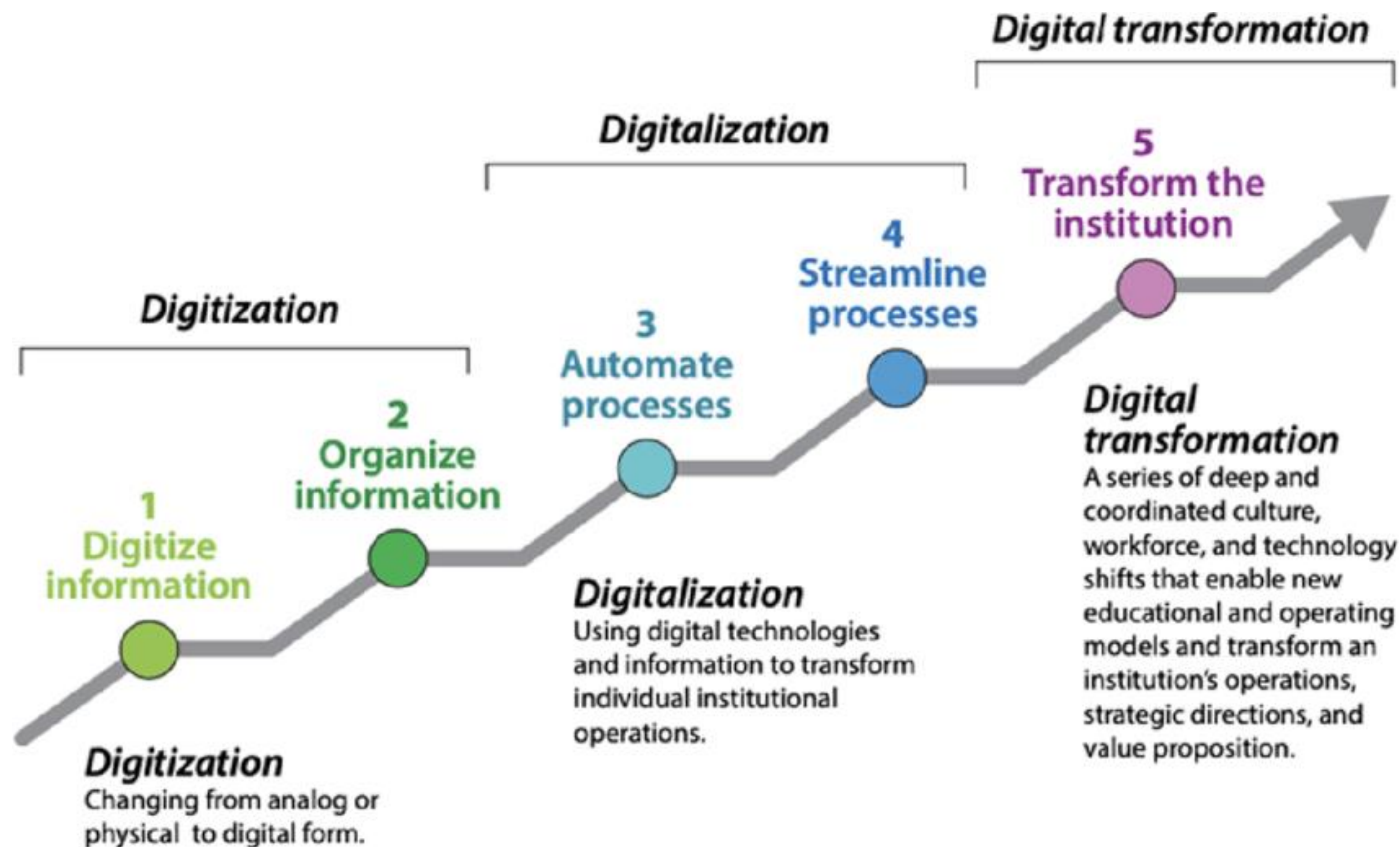
## Digital transformation from different perspectives.

The Digital Europe Program (DIGITAL) supports and accelerates the process of digital transformation of the European economy, industry and society



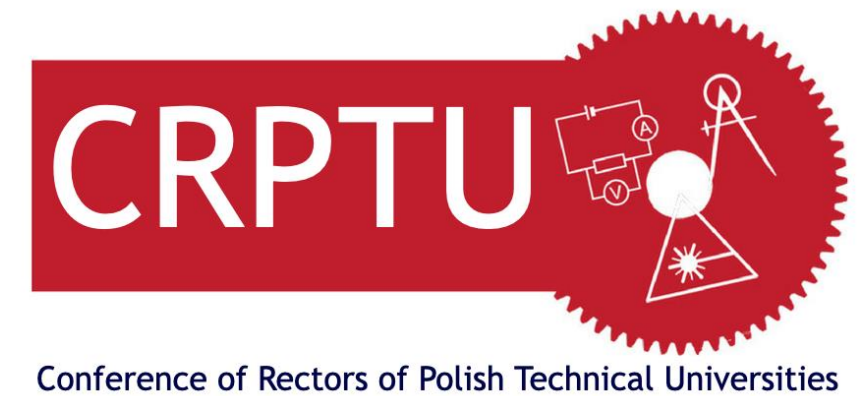


## Moving from digitization to digitalization and ultimately digital transformation.





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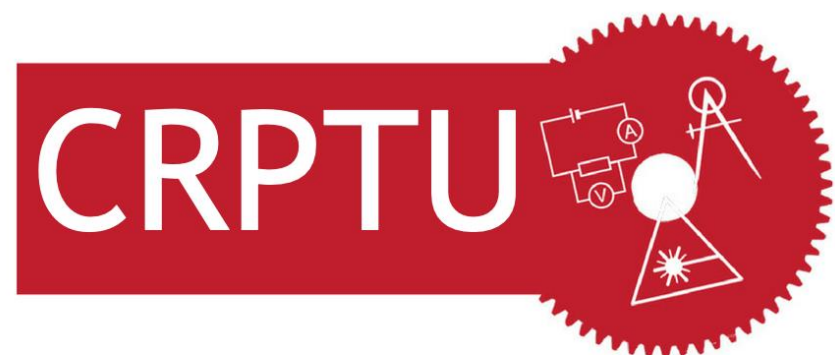
## Examples of digital transformation:



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<https://www.put.poznan.pl/en>

## University Study-Oriented System (USOS)



Conference of Rectors of Polish Technical Universities

## Polon – Data Base of Polish Univesities



<https://eunice-university.eu/>

## European University - Digital platforms connecting Europe (Teaching, Internships, Research)





## University Study-Oriented System (USOS)



**University Study-Oriented System (called USOS)** is a student management information system used in almost **90 Polish universities**, technical universities, higher vocational institutions, university schools of physical education and other types of high education institutions.



### Poznan University of Technology

- 9 faculties
- 16 thousand students
- 31 fields of study
- 50 post-graduate courses
- 324 labs
- 2290 employees
- 1319 academic staff
- 2195 beds in dormitories

PUT actively participates in developing the system.

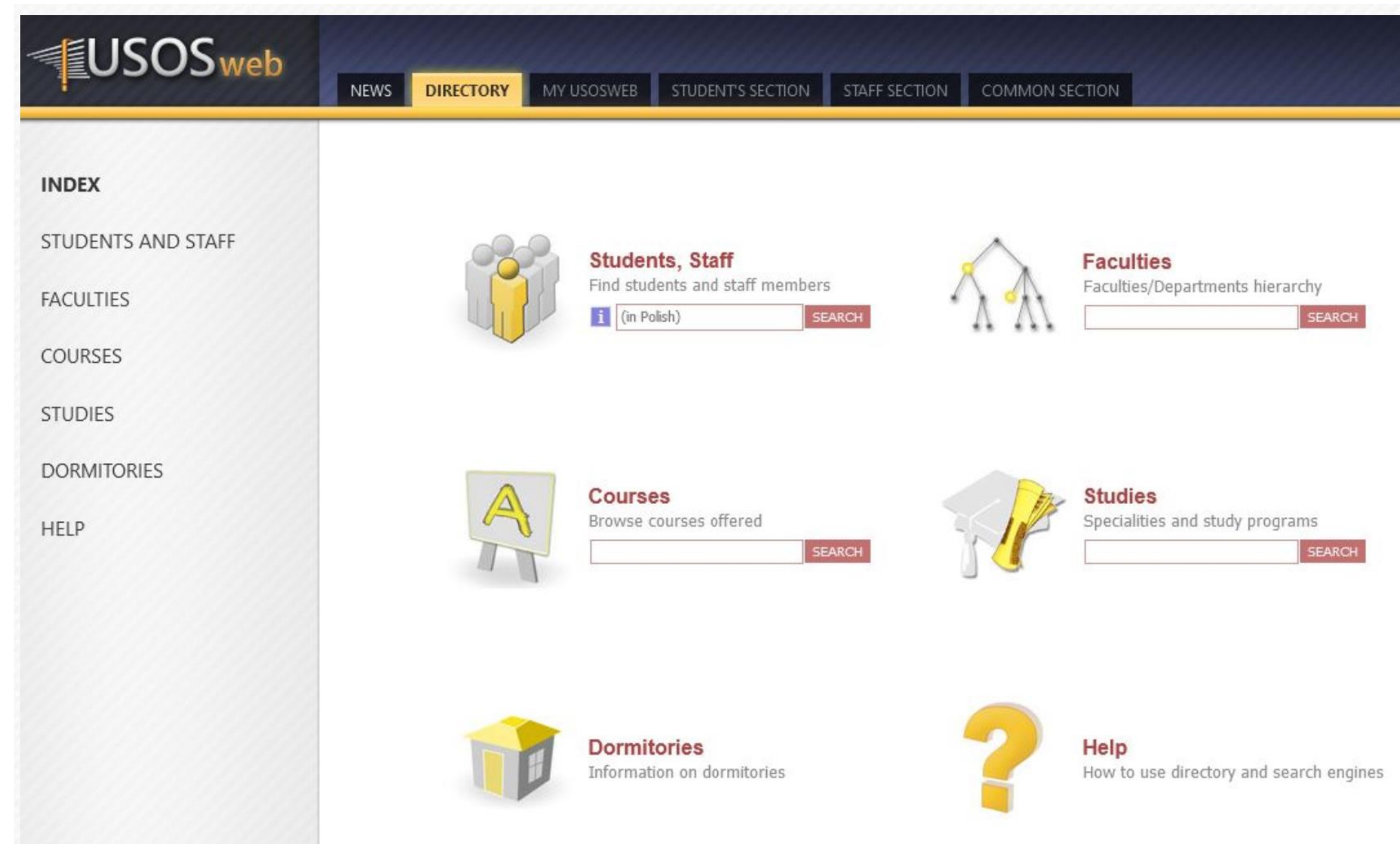




## University Study-Oriented System (USOS)

- **Integration** achieved from effective cooperation of **universities who jointly develop and deploy the system** on a scale hardly to be found not only in Poland, but also other European countries.
- **Unification** of services at country level
- It is the only system of that kind in Poland, being **built by universities for universities**, with a business model acceptable to even the smallest institutions.

<https://www.usos.edu.pl/about-usos>





## University Study-Oriented System (USOS)

- Erasmus Without Paper (<https://www.usos.edu.pl/erasmus-without-paper>)
- ESCI/EWP+ (<https://www.usos.edu.pl/international-cooperation>)
  - ✓ connecting to the Erasmus Without Paper Network;
  - ✓ using the EWP Dashboard as a mobility management software (if applicable)
  - ✓ digitally exchanging data for and signing Inter-Institutional Agreements (IIAs)
  - ✓ nominating learners for mobility and accepting or rejecting the nominations received from partners
  - ✓ creating and managing online learning agreements (OLAs) with the learners and partners within Erasmus+ Programme countries
  - ✓ exchanging Transcripts of Records (ToRs) on the outcome of the mobility period with the learners and the partner institutions



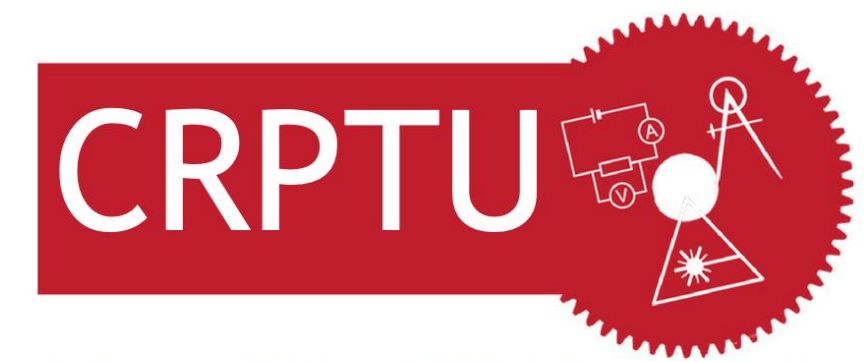




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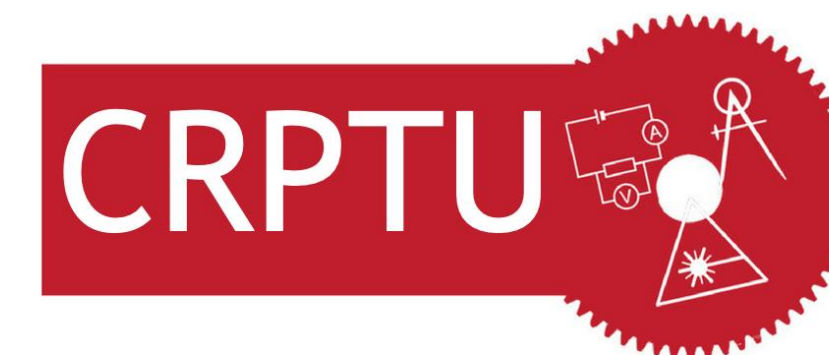
POL-on

The richest source of data on Polish science and higher education.



Conference of Rectors of Polish Technical Universities

## Polon – Data Base of Polish Universities

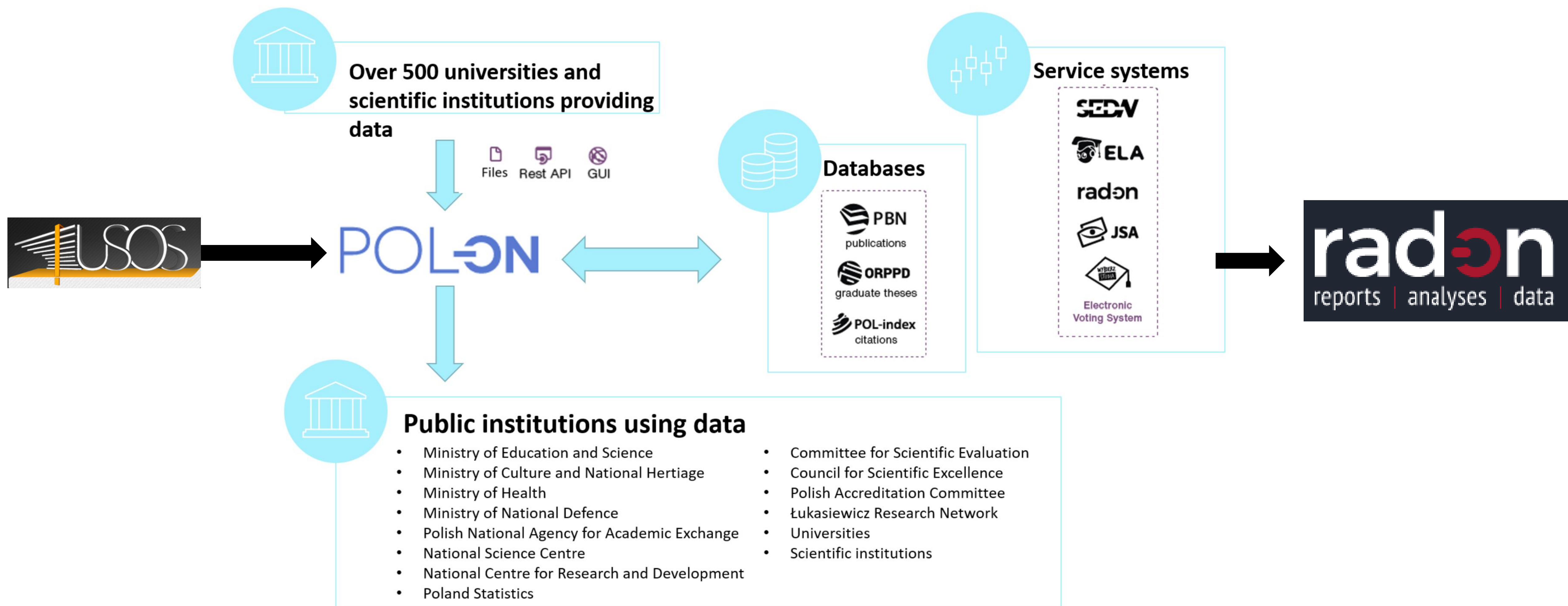


Conference of Rectors of Polish Technical Universities

- 33 Universities
- 302 435 Students
- 57 232 Employees
- 7 767 PhD Students



## Polon – Data Base of Polish Universities







## RAD-on – reports analyses and data on higher education and science in Poland

The RAD-on system is a part of the Integrated Network of Information on Science and Higher Education, which is the biggest, in terms of the scope of collected data, public system in Poland supporting the Ministry of Education and Science and other state agencies in shaping the scientific policy.



**RAD-on provides  
reports analyses and  
data on higher  
education and  
science in Poland  
obtained from  
trusted sources.**

- **POL-on** : system of information on science and higher education
- **PBN** : Polish Scientific Bibliography, a database with information on publications of Polish scientists
- **ORPPD** : Polish National Repository of Theses
- **Inventorum** : a platform facilitating the coming together of scientists with business
- **Polish Science** : a knowledge base on Polish science, including on scientific and research works, on doctoral and habilitation dissertations, and on expert reports (SYNABA)
- **ZSUN/OSF** : Integrated System of Services for Science/Service Financing Streams developed to register and handle requests submitted for purposes of competitions organized by National Science Centre (NCN), the National Centre for Research and Development (NCBR), and the Ministry of Education and Science (MEiN)
- **SEDN** : System for Evaluation of Scientific Achievements
- **SSSR** : Support System for Selection of Reviewers
- **ELA** : the Polish Graduate Tracking System



# 23 Polish Members of European Universities Consortia



4EU+ / 1CORE

ARQUS II

CIVICA

COLOURS\*

ECIUn+

ENHANCE

ENHANCE

ERUA

EUNICE

EURECA-PRO

EU4DUAL

EU GREEN

ECIUn+

EPICUR-SHAPE-IT

FORTHEM

SEA-EU 2.0

STARS EU

T4EU

UNA Europa

UNIgreen

UNIVERSEH

UNITE

UNIC

YUFE 2030

UNIVERSITY OF WARSAW

UNIVERSITY OF WROCLAW

WARSAW SCHOOL OF ECONOMICS

JAN DLUGOSZ UNIVERSITY IN CZESTOCHOWA

LODZ UNIVERSITY OF TECHNOLOGY

GDANSK UNIVERSITY OF TECHNOLOGY

WARSAW UNIVERSITY OF TECHNOLOGY

SWPS UNIVERSITY OF SOCIAL SCIENCES AND HUMANITIES

POZNAN UNIVERSITY OF TECHNOLOGY - COORDINATOR

SILESIA UNIVERSITY OF TECHNOLOGY

KOSZALIN UNIVERSITY OF TECHNOLOGY

WROCLAW UNIVERSITY OF ENVIRONMENT AND LIFE SCIENCES

LODZ UNIVERSITY OF TECHNOLOGY

UNIVERSITY OF ADAM MICKIEWICZ POZNAN

UNIVERSITY OF OPOLE

UNIVERSITY OF GDANSK

CRACOW UNIVERSITY OF TECHNOLOGY

UNIVERSITY OF SILESIA IN KATOWICE

JAGIELLONIAN UNIVERSITY IN KRAKOW

WARSAW UNIVERSITY OF LIFE SCIENCES

AGH UNIVERSITY OF SCIENCE AND TECHNOLOGY

WROCLAW UNIVERSITY OF SCIENCE AND TECHNOLOGY

UNIVERSITY OF LODZ

NICOLAUS COPERNICUS UNIVERSITY IN TORUN

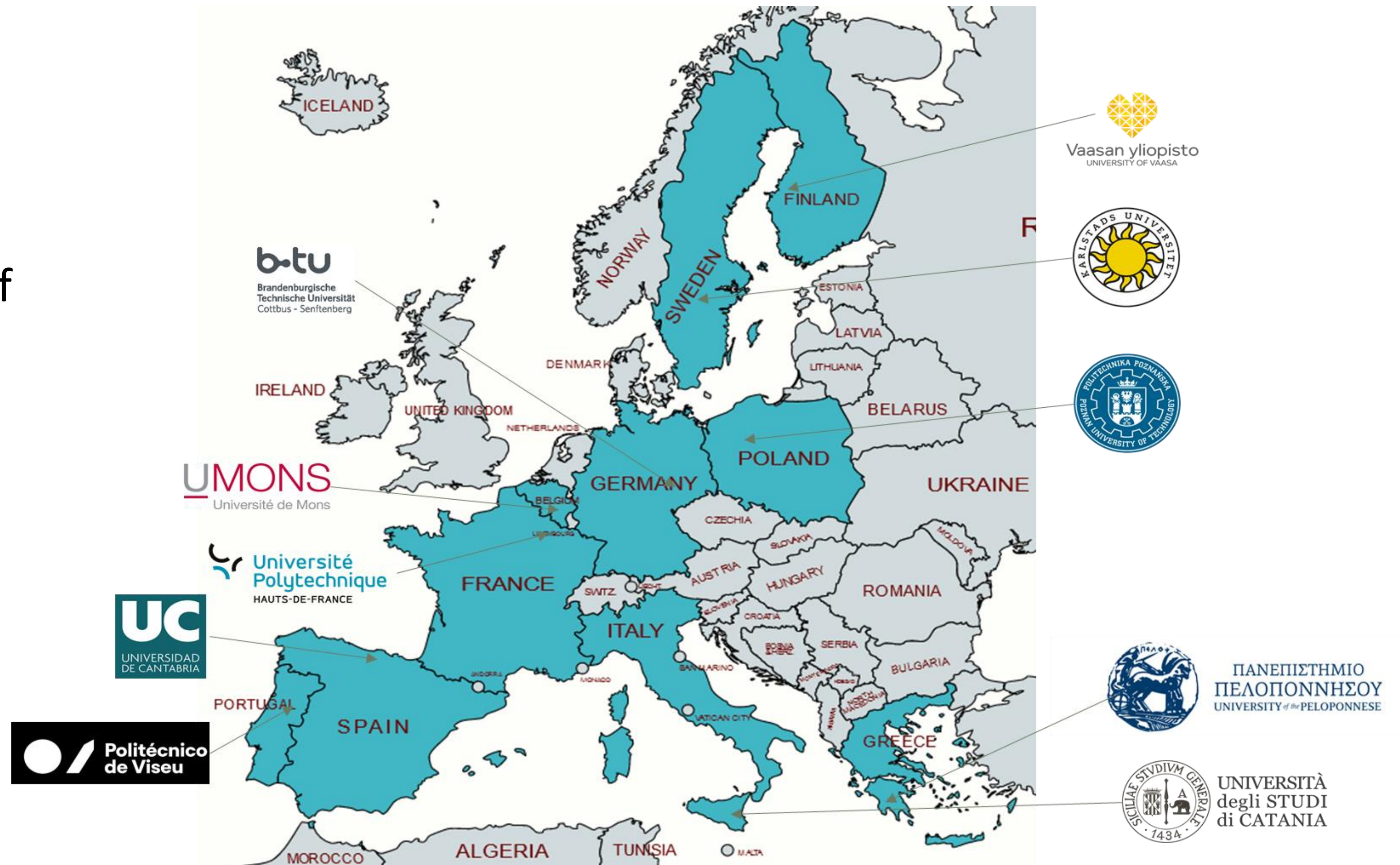






- 155 494 Students
- 14 312 Academics & Staff
- 10 Countries
- PUT - Coordinator

## European University - Digital platforms connecting Europe (Teaching, Internships, Research)







## Virtual Interactive Social European University Goals

- Build a virtual, interactive and social European University.
- Common and customized courses and excellence programmes offer: shared area, co-created area, virtual area.
- New model of accessible mobility: virtual mobility.
- Mutual recognition of credits and diplomas to meet high quality standards in the European Higher Education Area.
- Competence based-approach and problem-based learning.
- Curricular flexibility for students with better opportunities on the global market.





## Digital teaching platform available for all EUNICE students

### Moodle

Online learning  
platform



### Courses Catalogue

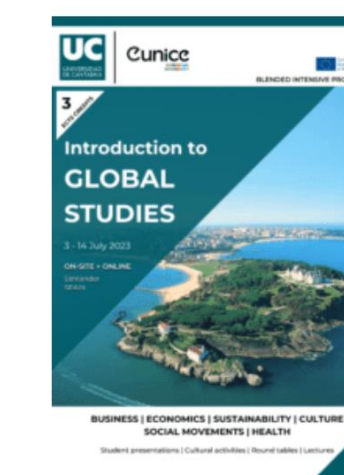
A brand **new offer of multi-disciplinary courses** is open to students. During academic year **2023-2024**, the catalogue includes courses on subjects ranging from soft skills and global competencies to information technology, health care, history, and more. It gives students the opportunity to benefit from the expertise of 10 European Universities and to customize their training path. Courses are **offered in English and national languages** of the consortium and different **learning formats**: **online** live or self-study, and **on site** (consult [mobility grants available](#)).

We also offer 12 **language courses** – the most widely spoken ones in EUNICE-. In the last semester more than 1,580 people registered for one or more of the 12 EUNICE language courses. Students reported very positively on their experience, giving **an average score of 4/5 in the satisfactory survey**.

In addition to carrying **ECTS credits**, EUNICE courses are a gateway for students to **customise their education**, benefiting from the expertise of **teachers from several European universities**. They are **free of charge** and open to all students from member universities.

Before applying to a course, make sure that the teaching format, the prerequisites and schedule suit you by consulting the **study guide** available for each course. Also, be aware that most courses do have limited places and that the selection criteria can vary from one course to another. EUNICE courses are **free of charge and open** to all students from the 7 member universities.

#### INTRODUCTION TO GLOBAL STUDIES – ON-SITE COURSE



3 July - 14 July,  
2023

Applications  
deadline: 5 May  
2023

#### OPPORTUNITIES FOR GRADUATES AND JUNIOR RESEARCHERS



22 May - 3 June,  
2023

Applications  
deadline: 9 April  
2023

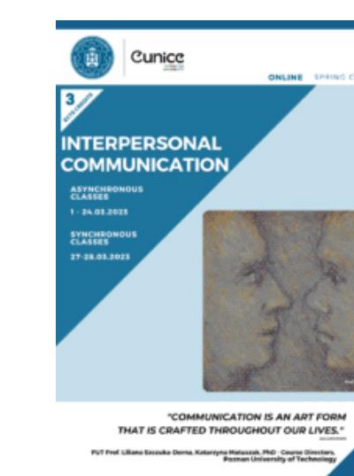
#### STRATÉGIES DE MANIPULATION (OU L'ART DE LA FOURBERIE MENTALE)



2 May - 8 May,  
2023

Applications  
deadline: 12  
March 2023

#### INTERPERSONAL COMMUNICATION



1 March - 28  
March, 2023

Applications  
deadline: 12  
February 2023





## Digital platform networking – Students/Companies/Society

# EUNICE International Internships and Theses

Students from all **EUNICE** universities find in this portal cross-sectoral and cross-disciplinary international internships and theses opportunities. Over **200** companies, research laboratories, NGOs and other institutions accept university (undergraduate, graduate and postgraduate) and high-school students as trainees. Over **100 thesis offers** for bachelor's, master's and Ph.D. students.

STUDENTS - Internship Catalogue →

STUDENTS - Thesis Internships →

THESIS SUPERVISORS: Offer An Internship →

COMPANIES: Offer An Internship →

### OPPORTUNITIES FOR:

- **joint transnational internships**, which will promote multicultural and multilingual teams.
- **students**: to improve language skills and learn different professional practices in Europe.
- **companies and entrepreneurs**: to diversify your workforce, to attract international talent.

### International Internship Portal - EIIP

Displaying 1 - 50 of 213

Form for the companies (to join the EIIP)

Country  Sector

calls open for submission

Field of study

mobility funding guides

Language level  Level of study  Keywords

Search

110 BUILD SRL



4D ENGINEERING SRL UNIPERSONALE



4SPA SPORT SSD A RL



A CASA DI MOMO SOC. COOP. SOC.



A.I.A.S. SEZ. DI ACIREALE



A.S.D. CENTRO DI ATTIVITA' MOTORIA INTEGRATA CAM

C.A.M.I.





## Digital platforms supporting research cooperation

### Cooperation

Select an area of cooperation



#### EUNICE Partner

Cooperation in the implementation of projects and research

Start Now >

#### University

Cooperation in the implementation of projects and research

Start Now >

#### Company

Cooperation in the implementation of research and development projects, support in solving current problems

Start Now >

- **Expertise Exchange Platform:** modern digital platform connecting university actors with other societal actors, related to AI tools and their potential applications
- **Open Science Platform:** a blockchain-based collaborative platform for Open Science connecting European universities, the role of which is enabling the scientific community and non-experts to share research contributions (projects, ideas, study design) while they are still in process.
- **EUNICE European University Competence Centre (AI platform):** a platform for sharing AI related competences of EUNICE universities, enriched with examples of research applications.



## Digital connection of remote labs – part of Cybersecurity Programme available for all EUNICE students

### Partner Laboratories Involved



The poster for the Cybersecurity course features a hand with glowing nodes and lines, symbolizing network security. It includes logos for Poznan University of Technology and Eunice European University, and mentions 'ONLINE SELF-STUDY COURSE', '3 ECTS CREDITS', '1 March - 31 May 2024', and 'Taught in English'.

"The course aims to familiarize students with the techniques of monitoring network resources and detecting various types of cyberattacks."

Prof. Mariusz Głabowski, Maciej Sobieraj D. Sc. Eng.  
Poznan University of Technology



- PUT: System Security Lab; IoT and AI Security Lab; Check Point Lab; Cisco Lab, Palo Alto Lab; Juniper Lab; Huawei Lab;



- UC: Cloud Lab



- UMONS: Data Security Management Lab



- UNICT: Digital Forensics Lab; Security Lab



- UPHF: Cyber Learning Lab



- UVA: The Future Electricity and Energy System Integration Lab





## Digital transformation – great opportunities! But also threats!

### Attacks per Industry: Education / Research tops the list

#### TOP TARGETED INDUSTRIES

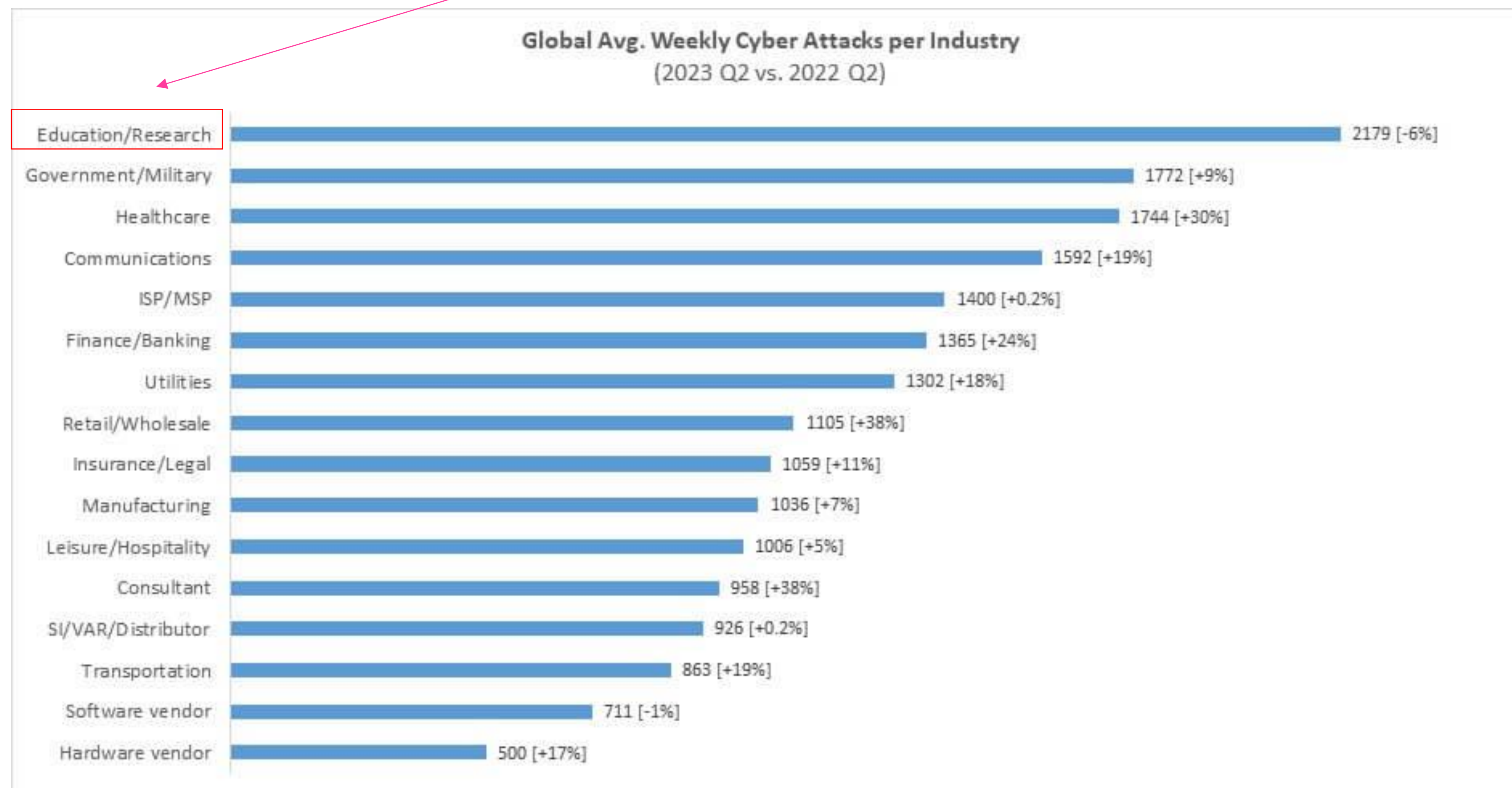
Highest rate of attacks per organization in the last day.

- Education
- Healthcare
- Communications

#### TOP MALWARE TYPES

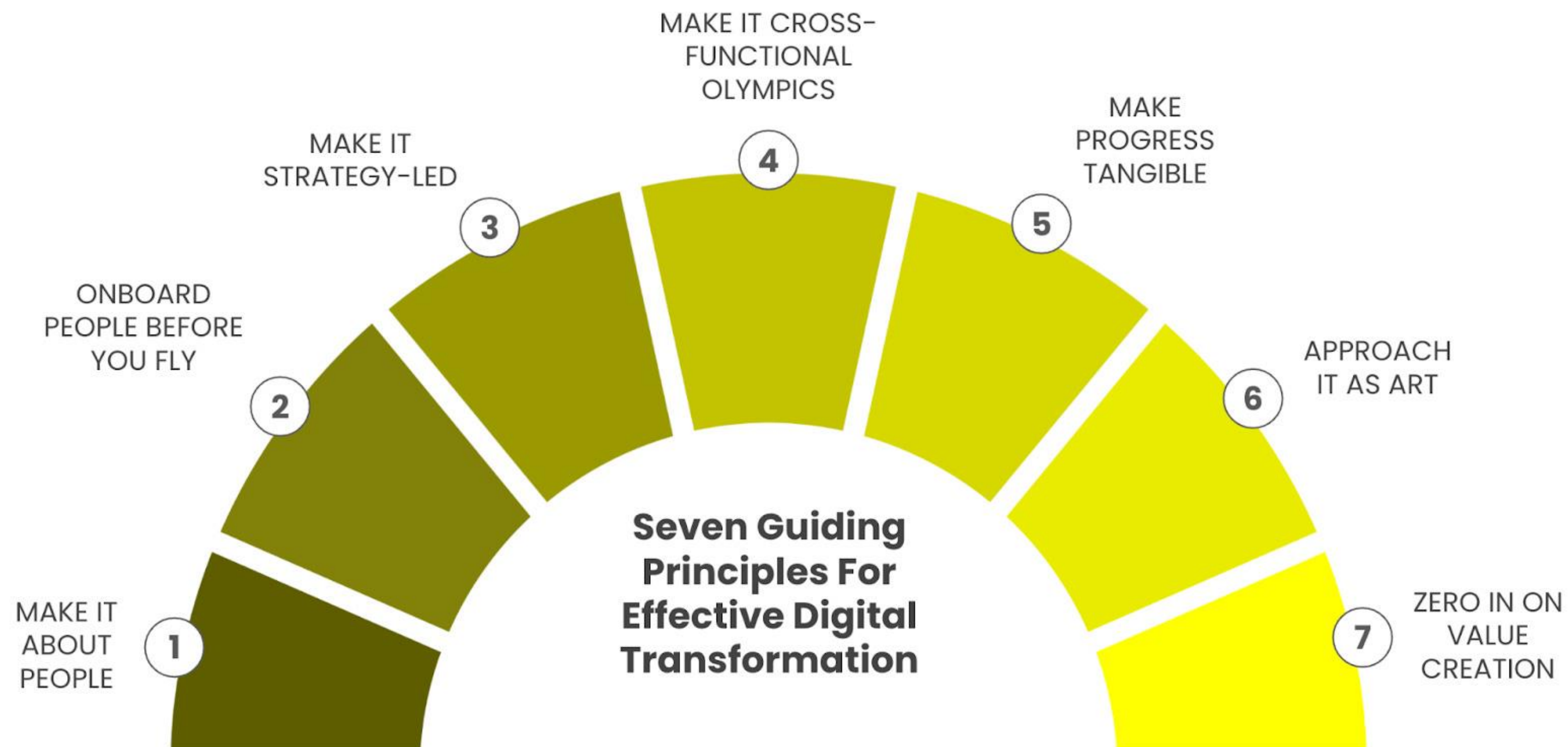
Malware types with the highest global impact in the last day.

- Phishing
- Mobile
- Adware





## Digital transformation – Conclusions







## Digital transformation – Conclusions

- Digital transformation (Dx) **can help higher education leaders** imagine their institutions' possibilities and map out a series of transformational journeys to realize them.
- Many executives feel that digital transformation is about “technology.” However, to be successful, having the **right culture, people, and processes** will greatly outweigh technology.
- Dx initiatives will **become commonplace for higher education institutions**. Dx for digital learning brings flexibility and accessibility to students and prepares them to solve problems in the digital world.



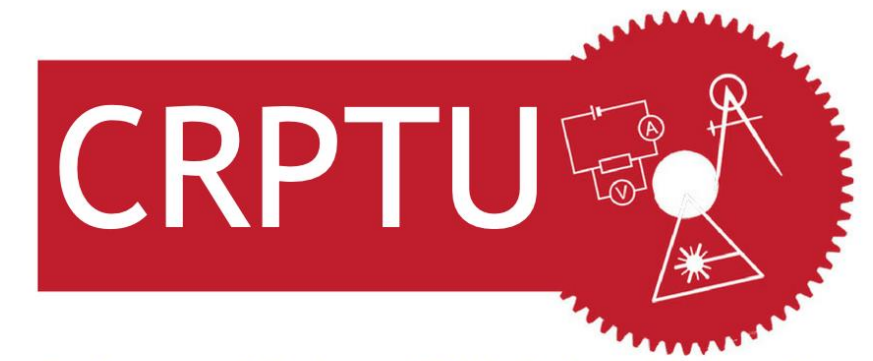


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<https://eunice-university.eu/>



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**Thank you.**

***Teofil Jesionowski***

Rector of Poznan University of Technology

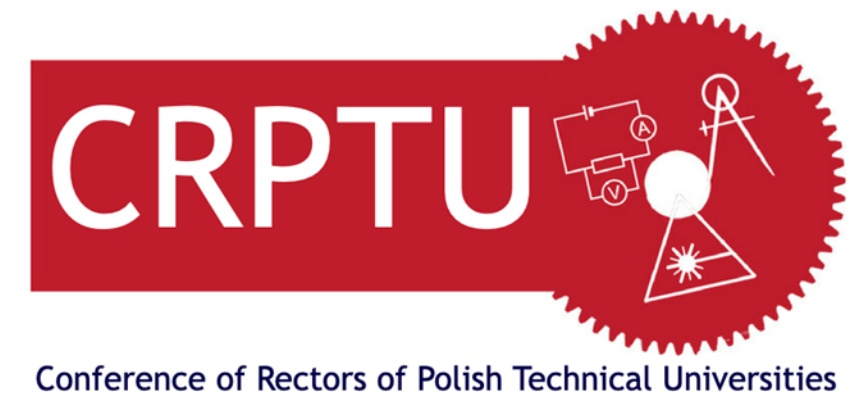
Member of Polish Academy of Science

The Chairman of Conference of Rectors of Polish Technical Universities





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# IAC 2026 Poznan BID offer

- The City of Poznan together with Grupa MTP – Poznan Congress Center is bidding for **the International Astronautical Congress (IAC)** to take place in Poznań, Poland in 2026.
- Founded in 1951, the International Astronautical Federation is the world's leading space advocacy body with 468 members in 75 countries, including all leading space agencies, companies, research institutions, universities, societies, associations, institutes and museums worldwide.
- **IAC is the world's premier global space event.** The event attracts more than 6,000 participants each year. Covering all space sectors and topics, it offers everyone the latest space information and developments in academia and industry, networking opportunities, contacts and potential partnerships.





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# IAC 2026 Poznan BID offer

Poznań University of Technology is actively supporting Poznan bid offer by:

- Providing accommodation for over 1,500 Young Professionals and students in PUT dormitories;
- Providing support for 50 young professionals from emerging countries, to be selected by IAF to attend IAC2026;
- Providing student volunteers for IAC2026.





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# IAC 2026 Poznan BID offer

- The decision of the IAC 2026 location will be taken during this year's IAC in Baku – October 2-6, 2023.
- Poznań is competing against Turkey, Antalya.
- Each of the 468 members of the International Astronautical Federation will have a chance to vote on the next congress location during the General Assembly on the last day of IAC2023 - **October 6, 2023.**

**VOTE FOR POZNAN!**