

DELIVERABLE D2.2 – Report on EDUC activities to unlock mutual access to research infrastructures



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Abstract	This deliverable presents outcomes of the project linked to the various activities around making the research infrastructures of EDUC-SHARE partners available to outside users, both from the consortium and outside of it.
Keywords	Research infrastructures, user projects, call for access

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1. Introduction

This deliverable provides insights into various activities of EDUC-SHARE project that were implemented in the field of research infrastructures.

2. Getting started

Research Infrastructures play a major role in carrying out high-level research, as well as being centres of excellence for research training. The starting point of all project partners vis-à-vis research infrastructures was different. But the fact that this topic was selected as one of the work packages of the project clearly shows the importance of them both to all universities and their local ecosystems of research and innovation.

As stated in the report from the 1st project review, Masaryk University positions itself as a leader in the area of research infrastructures, having highly advanced infrastructures and longstanding experience in managing them in a centralised way. This is due to several factors:

- One of MU research institutes, CEITEC – Central European Institute of Technology, established in 2011 with a big help from EU Structural Funds, is built on the notion of core facilities, how research infrastructures are called in the life sciences. This notion is now spreading across MU due to various initiatives and funded projects, e.g. there are two Teaming for Excellence projects (CREATIC and RECETOX Centre of Excellence in the Environmental Health Sciences).
- In 2021, MU started to coordinate research infrastructures on the central (rectorate) level. A new position of Research Infrastructures Manager was established and deals with internal (internal research infrastructures strategy) as well as external issues (promotion to users and policy makers, centralized RI portal on the website and engagement with various professional associations).
- The current Research Infrastructures Manager has long-term experience on both practical and policy levels of RIs (e.g. Czech ESFRI delegate and member of ESFRI Implementation Group, representative to ESFRI project General Assemblies).
- Masaryk University currently hosts 14 nationally funded research infrastructures and is involved in 11 ESFRI Projects and Landmarks.

Masaryk University's strong positioning played a key role in the success of the research infrastructure activities, allowing the project to build on its experience. Partners benefited from its existing practices.

WP2 started by discussing a common definition of research infrastructure as every university within the EDUC Alliance had a different understanding of it. We agreed to follow a multi-governance level approach taking into account what is happening at the EU level (European Strategy Forum on Research Infrastructures - EFSRI) and the different national levels. Standard and recognized categories and definitions (EFSRI) have been used and only infrastructure that is confirmed as openly available outside the institution (=providing services to external users) is included. We also use standard ESFRI

categorization of RIs in six scientific domains: energy, environment, health and food, physical sciences and engineering, social and cultural innovation and data, computing and digital research infrastructures. As research infrastructures can have equivalent names in different disciplines, e.g. core facilities, technology platforms, facilities, we consider all these terms equivalent.

3. Research infrastructures database

Following the discussion on the definition, all project partners established their first version of research infrastructures inventories. This is an iterative process that we want to replicate also in the future within the EDUC Alliance. The starting point was MS Excel table. After internal feedback, these Excel tables were improved in terms of individual items needed for the description of each research infrastructure as well as new facilities being added.

Following this exercise, we implemented a digital database using the OpenUp platform developed by the University of Pécs.

The EDUC research infrastructures database is available to a wide public on the EDUC website/OpenUp platform: <https://educ.openup.education/facilities/?skip=0>

The database is fully searchable based on:

- Institution/university
- Scientific field (based on 6 ESFRI¹ defined domains)
- And other parameters

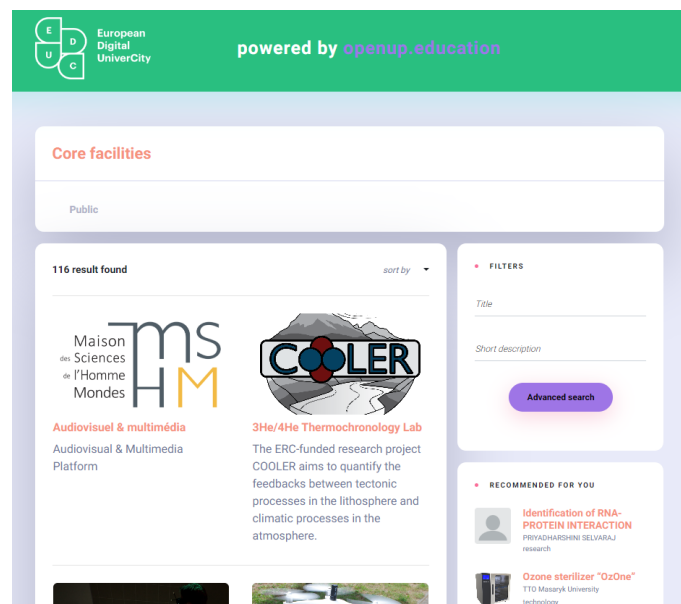
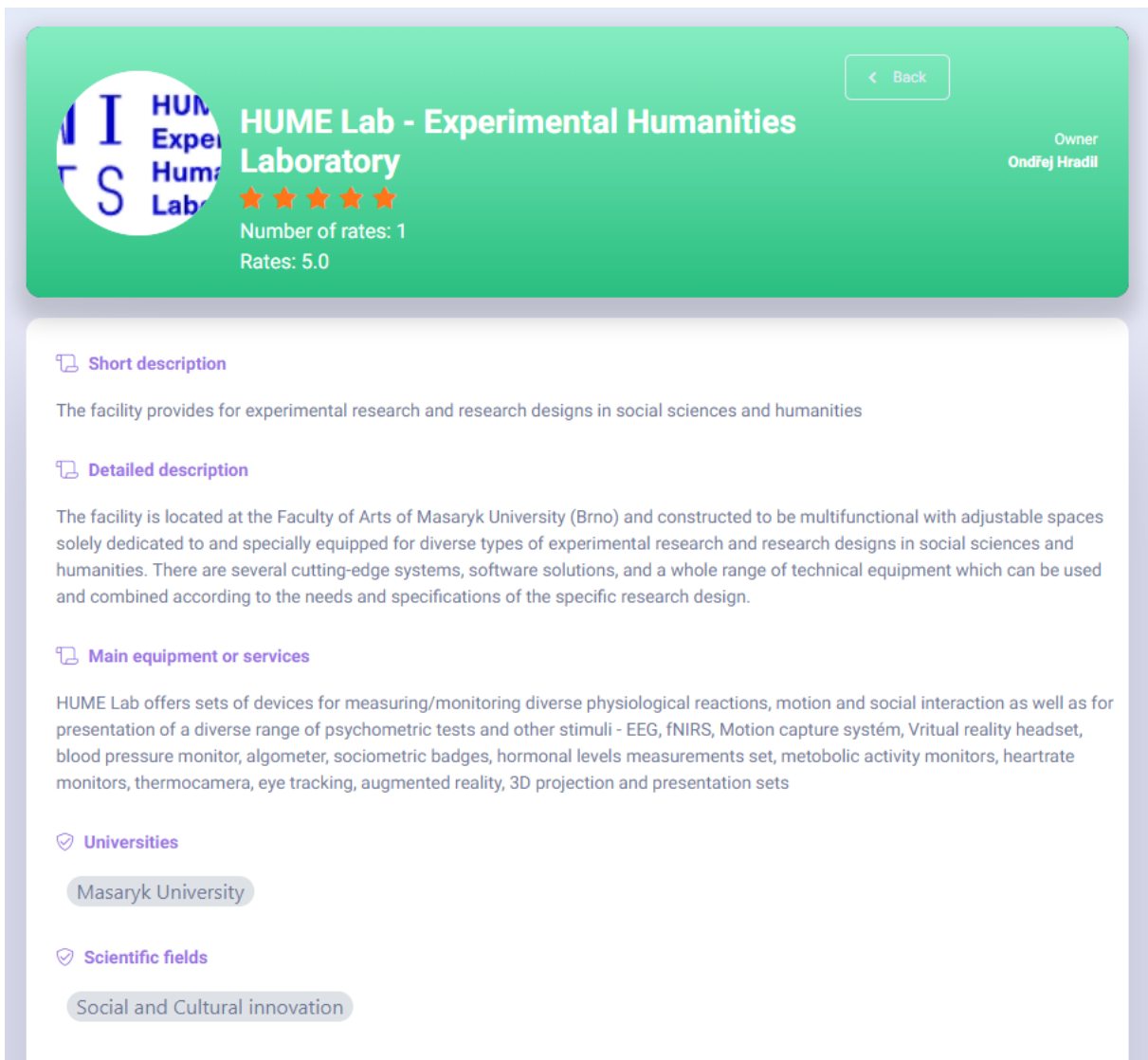


Figure 1: Homepage of EDUC research infrastructures database available to the wide public without the need to log in

¹ ESFRI – European Strategic Forum on Research Infrastructures, www.esfri.eu



HUME Lab - Experimental Humanities Laboratory

Number of rates: 1
Rates: 5.0

Owner: Ondřej Hradil

Short description

The facility provides for experimental research and research designs in social sciences and humanities

Detailed description

The facility is located at the Faculty of Arts of Masaryk University (Brno) and constructed to be multifunctional with adjustable spaces solely dedicated to and specially equipped for diverse types of experimental research and research designs in social sciences and humanities. There are several cutting-edge systems, software solutions, and a whole range of technical equipment which can be used and combined according to the needs and specifications of the specific research design.

Main equipment or services

HUME Lab offers sets of devices for measuring/monitoring diverse physiological reactions, motion and social interaction as well as for presentation of a diverse range of psychometric tests and other stimuli - EEG, fNIRS, Motion capture systém, Virtual reality headset, blood pressure monitor, algometer, sociometric badges, hormonal levels measurements set, metabolic activity monitors, heartrate monitors, thermocamera, eye tracking, augmented reality, 3D projection and presentation sets

Universities

Masaryk University

Scientific fields

Social and Cultural innovation

Figure 2: Appearance of one of the research infrastructures in EDUC research infrastructures database


At the end of February 2024, the database listed 116 research infrastructures (sometimes referred to as core facilities or technology platforms) from across all 6 EDUC-SHARE partners. The plan in the future (going beyond the EDUC-SHARE project) is to update the database regularly and include research infrastructures from the new EDUC consortium partners (USN – University of South-Eastern Norway and UJI - Universitat Jaume I). It will be used in subsequent projects and calls for access to research infrastructures, e.g. under the EDUC-WIDE project.

4. Call for research projects demanding access to EDUC research infrastructures

The call (administered by MU) was open to researchers and PhD candidates of EDUC member institutions and followed the best practice guidance of the European Charter of Access to Research Infrastructures². For detailed conditions of the call, see Annex I.

To advertise the call, submit and manage the applications we opted to use the OpenUP platform. This helped to increase the visibility of OpenUP within the EDUC Alliance. This was a pilot call both in terms of using the technical platform (OpenUP) and the modus operandi of the call within EDUC Alliance, although being used by other projects at Masaryk University before. The performance of OpenUP was satisfactory, but a number of improvement suggestions were raised and will be implemented during the EDUC-WIDE project.

For most EDUC-SHARE partners the participation in the call was a new experience. In fact, each University had to adjust its internal procedures/ internal regulations. This was a challenge for all EDUC partners since they had to go through the procedures taking into consideration respective administrative steps and approvals.



The screenshot shows the landing page for the call for access in OpenUp. At the top left is the EDUC logo (European Digital UniverCity) and a 'Login' button. The main heading is 'Call for research projects demanding access to EDUC research infrastructures'. Below this is a section 'Call for projects' with the text 'EDUC university alliance offers access to its technologies and services available via core facilities and research infrastructures.' The 'Aim of the call' section states: 'The aim of this call for proposals is to stimulate direct interactions between EDUC partners and promote the existing research infrastructures across the consortium. Researchers and PhD students from the EDUC consortium are welcome to apply within their research projects that can be implemented with the help of available research infrastructures at the other EDUC partners. Within one project proposal, the applicant can ask for one or more services/technologies from one or more EDUC partners participating in the call.' The 'Beneficiaries/users' section lists 'Researchers working at EDUC member institutions' and 'Ph.D. students of EDUC member institutions'. The 'Call deadline: 30.4.2023' section provides technical support contact: 'toth.csenge@ktk.pte.hu'. There are links for 'Download the call documentation (Last updated: 26.4.2023)', 'Apply for access', 'Database of EDUC Research infrastructures (beware that only selected facilities participate in this call)', and 'Final report'. At the bottom, there is a section for 'Public Core facilities'.

Figure 3: Landing page of the call for access in OpenUp

² <https://op.europa.eu/en/publication-detail/-/publication/78e87306-48bc-11e6-9c64-01aa75ed71a1/>



Basic information about the call:

Call launch date: 01/03/2023

Call close date: 30/04/2023

Published at <https://educ.openup.education/infrastructure-call>

The OpenUp application was used to advertise the call and for project submission.

5. Information events - webinars

To promote the call for access (see section 4) a series of open webinars was organised by EDUC-SHARE partners coordinated by MU. The aim of these webinars was to promote the call itself as well as the participating research infrastructures, services and methodologies they offered.

The biggest challenge connected with webinars was their promotion and number of participants. Exactly the same as the infrastructures call itself.

Webinar series run in 2023:

- 16 March: Webinar introducing the call for access
- 6 April: Webinar about Masaryk University research infrastructures
- 13 April: Webinar about University of Rennes research infrastructures
- 20 April: Webinar about University of Pécs research infrastructures
- 27 April: Webinar about Paris Nanterre University research infrastructures
- 27 April: Webinar about University of Cagliari research infrastructures

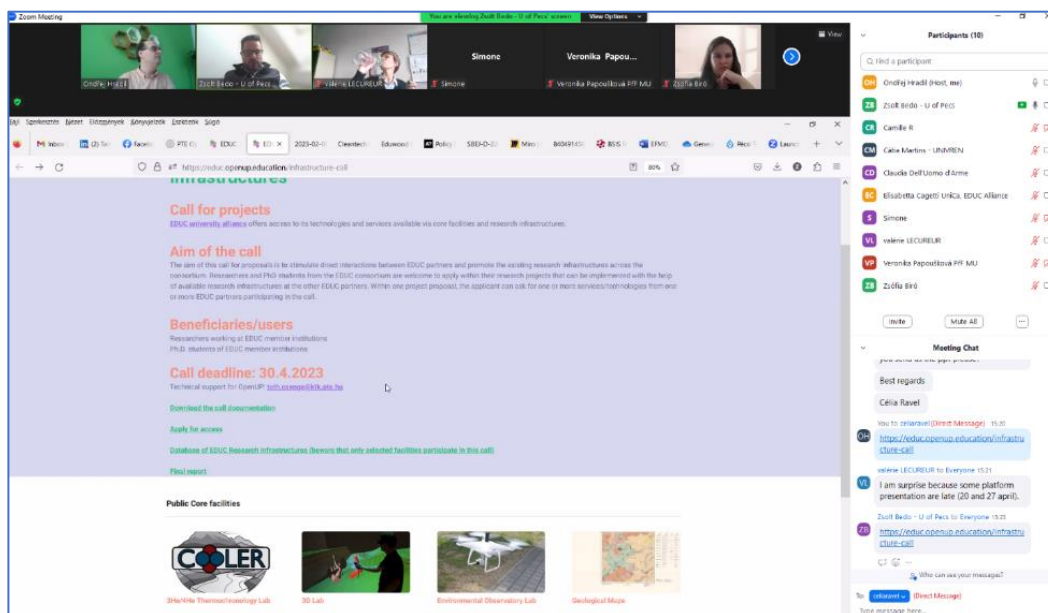


Figure 4: Webinar introducing the call for access, 16 March 2023

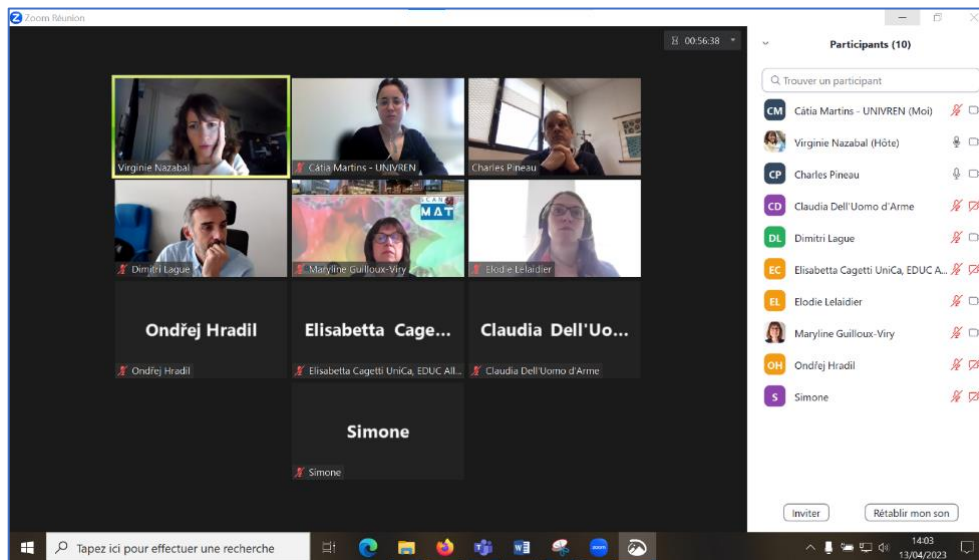


Figure 5: University of Rennes webinar, 13.4.

6. Submitted projects

In the given timeframe 7 projects were submitted by potential users. Below are basic statistics of projects submitted to the call:

Number of submitted projects	7
Number of approved projects	6
Gender balance of approved projects (by gender of applicant)	2 males / 5 females
Seniority of approved projects (by seniority of applicant)	5 PhD candidates / 2 researchers

All submitted projects went through the evaluation procedure as described in the call. One of the projects did not pass through the technical feasibility step as it demanded development of new methodology and thus was outside of the financial scope of EDUC-SHARE. The remaining six projects were approved and implemented. For the list of submitted projects, please consult Annex IV (p27).

The biggest challenge of the call was to convey/transfer the information to the potential users, mainly PhD candidates and early-career researchers. It was a challenge since the call, mirroring the Alliance's diversity, offered a high number of different technologies spanning nearly all scientific areas ranging from biology, medicine, physics, chemistry all the way to the social sciences and humanities. This has led to the lower number of submitted projects than expected (see relevant KPI).

To have some more clout on the promotion EDUC published two articles involving two winners of research projects and a podcast. This marketing material is ready to be used for the upcoming activities that are planned within the EDUC-WIDE project.

7. User project results

User projects implemented under the call resulted in interesting scientific outputs that can be categorised into two broad categories that are typical outcomes of scientific projects – publications and presentations at conferences and other types of scientific events.

Scientific publications

Scientific publications come with a certain time lag after the experiments take place. One has to consider also that experiments come at various time of the scientific life cycle, and we deal with many different scientific disciplines. All final reports from the projects were submitted in November 2023 and thus our knowledge reflects this time window. The final reports often mention that results will be published in the course of 2024.

In spite of the above-mentioned challenges there are two papers already published:

- Chowdhury, R. R., Rose, S., Ezan, F., Sovadinová, I., Babica, P. and Langouet, S.: Hepatotoxicity of cyanotoxin microcystin-LR in human: insights into mechanisms of action in the 3D culture model Hepoid-HepaRG. *Environmental Pollution* 123047, <https://doi.org/10.1016/j.envpol.2023.123047>
- Pani, S.; Caddeo, C.; Sanna, C.; Pintus, F.; Floris, S.; Pons, R.; Dupont, A.; Tuberoso, C.I.G. A, Nano-Based Approach to Deliver Satureja thymbra Essential Oil to the Skin: Formulation and Characterization. *Molecules* 2024, 29, 1041. <https://doi.org/10.3390/molecules29051041>

Presentations at conferences and other types of scientific events

Many final reports from call participants mention this way of disseminating the project results. One example is the submission of a poster presentation at the 14th World Meeting on Pharmaceutics, Biopharmaceutics and Pharmaceutical Technology that was held in Vienna (Austria) from 18 to 21 March 2024.

8. Training workshops

Training workshops were part of T2.3 and served to inform and train core facility users and researchers about the available techniques and methodologies used across research infrastructures and scientific domains of EDUC-SHARE consortium. They provided at the same time space for physical meetings of EDUC university staff to get to know each other, discuss joint ideas and collaborations.

The training workshops were very positively evaluated by their participant researchers, PhD candidates and academic staff and technicians. They also brought together both the local audience from the organising partner and other EDUC-SHARE partners.

8.1. Cagliari: Advancing healthcare using the Research Infrastructure CeSAR of UNICA: Nutrition during the first two years of life, 23-24 November 2023, Cagliari

Human breast milk is a complex biofluid containing many components, including macronutrients, hormones, and bioactive molecules, each potentially responsible for neonatal outcome, growth, and health. In addition, human breast milk is an important source of commensal bacteria for newborns and represents a dynamic ecosystem for multiple hubs that change during lactation and may influence development and future disease onset. The composition of human breast milk may therefore have important consequences for the short and long-term development of the newborn.

The University of Cagliari has human resources and analytical tools such as NMR, GC/MS, LC/MS, and Ion Mobility MS.

During the training workshop, CeSAR staff presented the analytical tools available at UNICA and their potential to perform metabolomic and microbiomic milk analyses and interpret the results. The Life Sciences Core Facilities at Masaryk University were also presented along with other researchers from the partner Universities.

8.2. Nanterre, 1st workshop: Data management in social sciences and humanities, 24-25 October 2023 Paris

The Open Access Week is an international event during which academic and research establishments spread theoretical and practical strategies for circulating and innovating Open Science approaches. In 2023, UPN was in charge of developing and promoting the event across its Alliances associates with a focus on data management in social sciences and humanities, through training that includes presentations, roundtables and workshops where concerns about the management of scientific data and of their dissemination could be shared.

The training was intended for doctoral candidates and postdoctoral researchers.

8.3. Nanterre, 2nd workshop: Justice, inequality and inclusion – Access to justice for migrants and refugees in the European Union, 18-20 October 2023

The seminar aimed at exploring in an interdisciplinary manner the link between justice, inequality and inclusion, more specifically from a European perspective and with a focus on migration in the European Union. It will deal with three main issues:

- Access to justice for migrants and asylum-seekers in Europe: what is the scope of the rights that migrants and asylum seekers should enjoy? What are the various means and requirements under regional, international and national law to ensure the enforcement of those rights and provide remedies in case of violation?
- Which barriers migrant workers are facing in accessing justice, including the ability to assert legal rights in the workplace and to access to mechanisms for legal redress or remedy?
- What access to justice means for children in the context of child refugees and migrants (especially unaccompanied minors and young asylum seekers)

8.4. Pécs: Sustainable Cities Workshop Pécs, 9-10 November 2023, Pécs

Holistic Overview and Training: This workshop offered a holistic overview and training on the intricate facets of sustainable urban planning and its vital role in fostering sustainable cities. The topics covered the subgoals of the United Nations Sustainable Development Goals (UN SDG) 11 Sustainable Cities and



Communities. We targeted researchers, PhD candidates and teaching staff with a research lecture topic related to the subgoals of UN SDG 11:

- Sustainable housing and architecture
- Sustainable transport systems
- Protecting cultural and natural heritage
- Air quality and waste management of cities
- Sustainable regional and local development planning

UN Sustainable Development Goals (SDGs) Simulation: During the first segment of the event, attendees engaged in an engaging negotiation simulation game centered around the UN Sustainable Development Goals. Participants gained practical insights into the complexities of aligning urban development with global sustainability objectives.

Knowledge Sharing: In the afternoon session, participants presented their research findings and expertise in dedicated lecture sessions. This collaborative exchange of ideas facilitated a deeper understanding of cutting-edge sustainable urban practices and innovations.

Integration with Sustainable Cities Mini-Festival: our workshop coincided with the Sustainable Cities mini-festival, hosted by the Alliance Française de Pécs, one of our esteemed local partners affiliated with the European Digital UniverCity Alliance (EDUC). Workshop participants were encouraged to immerse themselves in this vibrant festival atmosphere, further enriching their cultural experience.

8.5. Potsdam: Micro-Symposium on Managing Research Data and Code in Brandenburg, 13 February 2024, Potsdam

On 13 February, the University of Potsdam held a hybrid micro symposium focused on research data and software as the basis for data science, AI, open science, etc. The aim was to share and discuss with the partners where the university and its region stand in relation to these challenges. The questions raised were the following: Which research institutions play a role here and how are they networked nationally and internationally? What digital infrastructures can be used by researchers and what does specific support look like?

In short lectures, five speakers provided answers to the questions from different perspectives:

1. NFDI: Connecting Communities for a FAIR Data Future - Dr. Wolf Zinke (Office of the National Research Data Infrastructure Association Germany ([NFDI](#) e.V.))
2. The Software Pillar in Research Data Management - Prof. Dr. Ulrike Lucke (University of Potsdam | Chair for Complex Multimedia Application Architectures, [NFDIxCS](#))
3. Digital Infrastructure for the Agrosystem Domain - Marcus Schmidt (Leibniz Centre for Agricultural Landscape Research (ZALF, [FAIRagro](#)) & Anne Sennhenn Leibniz Institute for Agricultural Engineering and Bioeconomy (ATB, [FAIRagro](#))
4. Research Data Management in Brandenburg - Dr. Daniela Mertzen (University of Potsdam | joint RDM-Team of UB and ZIM, [IN-FDM-BB](#))

5. Open Science at the University of Potsdam - Boris Jacob (University of Potsdam | joint RDM-Team of UB and ZIM, [Open Science@UP](mailto:OpenScience@UP))

8.6. Rennes: New Developments in Environmental Sciences: Assessing Natural Resources and the Anthropogenic Impact, 29-30 January 2024, Rennes

On 29 and 30 January 2024, the University of Rennes hosted a workshop on “New Developments in Environmental Sciences: Assessing Natural Resources and the Anthropogenic Impact”. The event brought together 17 PhD candidates, Researchers, and Research Engineers from different universities across the EDUC Alliance, including Masaryk University, the University of Cagliari, the University of Potsdam and the University of Rennes. During the two-day workshop, participants engaged in a series of conferences covering various topics related to Environmental Sciences. They received hands-on training on the cutting-edge GeoHeLis platform, which offers advanced analytical facilities like “ICP-MS” for measuring elements in natural samples at low concentrations. Additionally, they visited the esteemed ECOBIO lab where they explored the dynamics of biodiversity and continental ecosystems in the face of global changes, such as population growth, climate change, and land use, with the ultimate goal of promoting sustainable development. The workshop was a great success, and the participants had a valuable experience. The lead researcher at the University of Rennes expressed her willingness to reiterate the event next year.

8.7. MU: Cybersecurity and Open Science Synergies Workshop Brno, 24-25 November 2023, Brno

The aim of this workshop was to welcome the partners from EDUC-SHARE in Brno and discuss synergies between Cybersecurity and Open Science topics from different perspectives. In 2023 the crucial topic of synergies between cybersecurity and Open Science was the final draft of the Cyber Resilience Act. Another objective was to connect the participants within the international area of expertise with IT lawyers and cybersecurity experts. For that reason, the second part of the workshop included the attendance and realization of a special tract at Cyberspace Conference 2023 held in Brno on 24 and 25 November 2023.

This workshop enabled to connect two important topics for discussion in 2023: Cybersecurity as one of the key topics of the Alliance digital cooperation and Open Science through the principle of “as open as possible, as closed as necessary”.

9. Conclusion

A great deal of the work has been achieved during the EDUC-SHARE project. But this is at the same time a start of a long journey. This journey will be helped with the follow-up project EDUC-WIDE under the European Excellence Initiative call of Horizon Europe.

At the final meeting of EDUC-SHARE project in Rennes in January 2024, a strategic discussion about the future activities of the EDUC Alliance in the field of research infrastructures took place. The outcomes of this discussion with Vice-Rectors/Presidents for Research and WP2 leader Ondřej Hradil can be summarized in the following 3 lines of activities to be implemented in the future:

- Promotion of RIs – incl. OpenUp database, call for access, and other similar activities
- Knowledge sharing on how to organise RIs (RI level, department level, university level), e.g. how to organise access to RIs for companies
- Capacity building on getting an RI to the national/European level (initiated by Rennes)

A long-term vision for „EDUC research infrastructures“ was established. This vision spans for at least the next 10-15 years, if not longer. The Alliance would like to aim towards building complementary top-level facilities at the consortium level within each main strategic scientific domain. An example would be having one highly performant Transmission Electron Microscope available at one university and accessible to all the Alliance’s scientific community working in that field of expertise through cooperation agreements.

10. Annexes

1. Call for research projects demanding access to EDUC research infrastructures
2. Template for project proposals for the call
3. Template for the final reports of the users
4. List of submitted projects



Annex I: Call for research projects demanding access to EDUC research infrastructures

Call for projects

[EDUC university alliance](#) offers access to its technologies and services available via core facilities and research infrastructures.

Aim of the call

The aim of this call for proposals is to stimulate direct interactions between EDUC partners and promote the existing research infrastructures across the consortium. Researchers and PhD students from the EDUC consortium are welcome to apply within their research projects that can be implemented with the help of available research infrastructures at the other EDUC partners. Within one project proposal, the applicant can ask for one or more services/technologies from one or more EDUC partners participating in the call.

Beneficiaries/users

- Researchers working at EDUC member institutions
- Ph.D. students of EDUC member institutions

For the purpose of this call, the employment/student status of each applicant will be checked by the home institution.

List of eligible EDUC partners:

1. Masaryk University, Czech Republic
2. University of Cagliari, Italy
3. University of Pécs, Hungary
4. University of Rennes, France
5. University of Potsdam, Germany
6. Université Paris Nanterre, France

Available equipment and services for this call

The following EDUC-Share partners participate in the call as service providers with the respective core facilities:

- Masaryk University
 - [CEITEC - Nanobiotechnology Core Facility](#)
 - [CEITEC - Core Facility Cellular Imaging \(CELLIM\)](#)
 - [CEITEC – Josef Dadok National NMR Facility \(NMR\)](#)
 - [CEPLANT - plasma and nanotechnology surface modifications](#)
 - RECETOX
 - [Population studies](#)
 - [Central Laboratories](#)
 - [Data services](#)

- [HUME Lab – experimental social sciences](#)
- University of Cagliari
 - [Single-Crystal X-Ray Diffraction \(SC-XRD\)](#)
 - [Nuclear Magnetic Resonance \(NMR\)](#)
 - [Ultrafast Optical Spectroscopy facility](#)
 - [Mass Spectrometry](#)
- University of Pécs
 - [Genomics and Bioinformatics Core facility](#)
 - [Biosafety Level 4 \(BSL-4\) Virological Laboratory](#)
- University of Rennes
 - BIOSIT: Infrastructure in the field of biology and health
 - [UNIVREN-BIOSIT-MRiC](#)
 - [UNIVREN-BIOSIT-H2P2](#)
 - [UNIVREN-BIOSIT-CDTP](#)
 - [UNIVREN-BIOSIT-PRISM](#)
 - [UNIVREN-BIOSIT-L3](#)
 - [UNIVREN-BIOSIT-ImPACcell](#)
 - [UNIVREN-BIOSIT-CytomeTRI](#)
 - [UNIVREN-BIOSIT-Protim](#)
 - [UNIVREN-BIOSIT-Arche](#)
 - [UNIVREN-BIOSIT-PFBI](#)
 - [UNIVREN-BIOSIT-Cani-DNA](#)
 - [UNIVREN-BIOSIT-BIM3D](#)
 - [UNIVREN-BIOSIT-CRB Santé](#)
 - OSUR: Infrastructure in the field of earth sciences, ecology, and human/environmental relations
 - [UNIVREN-OSUR-Condote-Eau](#)
 - [UNIVREN-OSUR-LidarNR](#)
 - [UNIVREN-OSUR-EcogenO](#)
 - [UNIVREN-OSUR-GeOHeLiS](#)
 - [UNIVREN-OSUR-EcoChim](#)
 - [UNIVREN-OSUR-LAGO](#)
 - [UNIVREN-OSUR-ImaGéo](#)
 - [UNIVREN-OSUR-PISTE](#)
 - SCANMAT: Infrastructure in the field of material sciences (analytical chemistry, structural characterization, mechanical and optical spectroscopy, synthesis)
 - [UNIVREN-SCANMAT-CMEBA](#)
 - [UNIVREN-SCANMAT-CRMPO](#)
 - [UNIVREN-SCANMAT-SIR](#)
 - [UNIVREN-SCANMAT-THEMIS](#)
 - [UNIVREN-SCANMAT-S2 WAVE](#)
 - [UNIVREN-SCANMAT-CAPHTER](#)
 - [UNIVREN-SCANMAT-Osirix](#)



- [UNIVREN-SCANMAT-Nanomeca](#)
- Université Paris Nanterre
 - [Archéoscopie](#) – optical and electron microscopy tools for material sciences, biology and health sciences
 - [EPNR \(Education, Psychology and Neurosciences\)](#) - Psychology/neuroscience lab tools
 - [Audiovisual & Multimedia Platform](#)
- University of Potsdam
 - [Theodor-Fontane-Archive](#)
 - [Institute of Geosciences](#)

Selection process

The selection process is composed of the following four steps:

- 1) Administrative check – formal check of the application (all the compulsory fields filled); relevant EDUC-Share member institution confirms the employment/student status of the applicant.
- 2) Technical feasibility – heads of the respective core facilities judge the technical feasibility of the presented research project at their facilities (YES/NO decision). Head of each facility/laboratory requested in the project proposal needs to approve/reject technical feasibility. In the case of approval, a preliminary budget of the project will be specified by the head of the facility upon the agreed methodology of cost claims.
- 3) Peer review – each application will be evaluated by at least one scientific reviewer nominated by the facility who can 1) recommend the project for funding, 2) recommend the project only partially (with proposed changes), or 3) reject the project from funding.
- 4) Final list of projects to be implemented will be discussed and approved by EDUC-Share WP2 representatives (adjustment according to the available budget for the call with a perspective of each of the EDUC-Share partners to serve at least one project). If the call budget allows, they can also allocate travel funds to individual proposals.

At the end of this process, all applicants will be informed about the outcome of the selection process.

Deadlines and Funding

- The call is open from 1st March 2023 till 30th April 2023
- Applicants will be informed about the outcome of the call by 31st May 2023
- All projects must be implemented by 30th November 2023.

Project proposals that have successfully passed through the selection process will be supported by the EDUC-Share project funded by the European Union's Horizon 2020 research and innovation programme under grant agreement No. 101017526. Use of the research infrastructure, including necessary training and interpretation of the obtained results, is provided to the users for free; the users are obliged to provide their own samples of sufficient quality. The grant, in general, does not cover travel & accommodation expenses.

The total allocation of funding of this call is 60.000 EUR.



How to apply

If you want to apply to the call, you need to register in the OpenUP platform of EDUC. Then you can easily submit your application at <https://educ.openup.education/infrastructure-call>.

Before submitting the application we strongly advise you to consult your project with the head of the respective research infrastructure (as listed in the core facilities database).

Information and webinar

All information about the call is available on <https://educ.openup.education/infrastructure-call>.

A webinar about the call will be organised to explain the details of the call and answer any questions:

- Timing: 16.3.2023, 15:00 - 16:00 CET
- Connection link: <https://cesnet.zoom.us/j/95170207314>

Webinars presenting core facilities

A series of webinars introducing core facilities participating in the call will be organised during March and April.

- 6th April, 15:00-16:30
 - Institution: Masaryk University
 - [Connection link](#) (ZOOM)
 - Core facilities to be presented:
 - CEITEC - Nanobiotechnology Core Facility
 - CEITEC - Core Facility Cellular Imaging (CELLIM)
 - CEPLANT - plasma and nanotechnology surface modifications
- 13th April, 14:00-15:00
 - Institution: University of Rennes
 - [Connection link](#), meeting ID: 957 2707 2726, secret code: 191352
 - Core facilities to be presented:
 - BIOSIT: Infrastructure in the field of biology and health
 - OSUR: Infrastructure in the field of earth sciences, ecology, and human/environmental relations
 - SCANMAT: Infrastructure in the field of material sciences (analytical chemistry, structural characterization, mechanical and optical spectroscopy, synthesis)
- 20th April, 14:00-15:00
 - Institution: University of Pécs
 - [Connection link](#) (MS Teams)
 - Core facilities to be presented:
 - Genomics and Bioinformatics Core facility
 - Biosafety Level 4 (BSL-4) Virological Laboratory



- 27th April, 10:00-11:00
 - Institution: University Paris Nanterre
 - [Connection link](#) (MS Teams)
 - Core facilities to be presented:
 - Audiovisual & Multimedia Platform (MSHM)
 - Archéoscopie - Electronic microscopy tools (MSHM)
- 27th April, 15:00-16:00
 - Institution: University of Cagliari
 - [Connection link](#) (ZOOM)
 - Core facilities to be presented:
 - Single-Crystal X-Ray Diffraction (SC-XRD)
 - Nuclear Magnetic Resonance (NMR)
 - Pump-probe Transient Absorption Spectroscopy
 - Mass Spectrometry

Contacts

For general enquiries, please contact your local EDUC-Share contact listed below. Questions about the available technologies and technical feasibility of your research project shall be directed to the heads of the respective EDUC-Share core facilities, whose contact details are mentioned in the database.

University	Name	Email
Masaryk University	Ondřej Hradil	hradil@rect.muni.cz
University of Cagliari	Sara Melis	sara.melis3@unica.it
University of Pécs	Zsolt Bedo	bedo.zsolt@ktk.pte.hu
University of Rennes	Virginie Nazabal Alain Bouchereau	virginie.nazabal@univ-rennes.fr alain.bouchereau@univ-rennes1.fr
University of Potsdam	Katharina Kloss	katharina.kloss@uni-potsdam.de
Université Paris Nanterre	Claudia Dell'Uomo d'Arme	claudia.dd@parisnanterre.fr

General Conditions of Access

Intellectual property

Intellectual property generated within the research projects belongs to the user.

Nature of research and publication of results:

This call intends to support projects of basic research conducted in academic institutions. All research results achieved under this call shall be published.

Acknowledgements

Publications resulting from work undertaken on EDUC-Share core facilities must contain an acknowledgement according to the following pattern:

- *EDUC-Share project funded by the European Union's Horizon 2020 research and innovation programme under grant agreement No. 101017526, is gratefully acknowledged for the financial support of the measurements at the CF [name of the unit/CF] from [name of hosting university].*

Or in a short version:

- *We acknowledge [name of the unit/CF] of EDUC-Share, supported by European Union's Horizon 2020 under grant agreement No. 101017526.*

Similar acknowledgement should be included during conference presentations, including the proceedings, and at other public presentations.

- *This [infrastructure][equipment][insert type of result] is part of a project that has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 101017526.*

Users shall notify the organizers of this call of all publications that resulted from their work by using the research infrastructure listed in the EDUC-Share database and supported by the EDUC-Share project. Please send the PDF file and reference details of the publication as soon as it has been published to hradil@rect.muni.cz. Please indicate the type of publication: Scientific Journal, Book, Patent, Proceedings, article on www, other. These publications should also carry the acknowledgement given above.

Safety requirements

Users must comply with all the relevant health and occupational safety rules. Users who carry potentially dangerous materials and/or equipment must notify the user office and host organization in the application. All visitors bringing material, including samples or equipment are advised that such equipment or material remains entirely the responsibility of the visitors concerned.

Final report

Each user is obliged to send a final report on services used under this call, including feedback related to the quality of service and quality of outputs.

Annex II: Template for project proposals for the call

EDUC-Share call for projects Open access application form

Project title:

Applicant

First name:

Surname:

Working e-mail:

Phone:

Position (check box):

Researcher (Ph.D. title and higher)

Ph.D. student

In case of Ph.D. include also name, surname and contact details of principal investigator (PI):

First name PI:

Surname PI:

E-mail PI:

Phone PI:

Institution: *(tick the institution you are coming from)*

- Masaryk University, Czech Republic
- University of Cagliari, Italy
- University of Pécs, Hungary
- University of Rennes, France
- University of Potsdam, Germany
- Université Paris Nanterre, France

Project

Project proposal (max 2 A4 pages)

Institution *(tick the institution you are applying to)*

- Masaryk University, Czech Republic
- University of Cagliari, Italy
- University of Pécs, Hungary
- University of Rennes, France

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- University of Potsdam, Germany
- Université Paris Nanterre, France

Core facility/ies or service laboratory/ies to be used :

- Masaryk University
 - CEITEC - Nanobiotechnology Core Facility
 - CEITEC - Core Facility Cellular Imaging (CELLIM)
 - CEITEC – Josef Dadok National NMR Facility (NMR)
 - CEPLANT - plasma and nanotechnology surface modifications
 - RECETOX – Population studies / Central Laboratories / Data services
 - HUME Lab – experimental social sciences
- University of Cagliari
 - Single-Crystal X-Ray Diffraction (SC-XRD)
 - Nuclear Magnetic Resonance (NMR)
 - Ultrafast Optical Spectroscopy facility
 - Mass Spectrometry
- University of Pécs
 - Genomics and Bioinformatics Core facility
 - Biosafety Level 4 (BSL-4) Virological Laboratory
- University of Rennes
 - BIOSIT: Infrastructure in the field of biology and health
 - UNIVREN-BIOSIT-MRiC
 - UNIVREN-BIOSIT-H2P2
 - UNIVREN-BIOSIT-CDTP
 - UNIVREN-BIOSIT-PRISM
 - UNIVREN-BIOSIT-L3
 - UNIVREN-BIOSIT-ImPACcell
 - UNIVREN-BIOSIT-CytomeTRI
 - UNIVREN-BIOSIT-Protim
 - UNIVREN-BIOSIT-Arche
 - UNIVREN-BIOSIT-PFBI
 - UNIVREN-BIOSIT-Cani-DNA
 - UNIVREN-BIOSIT-BIM3D
 - UNIVREN-BIOSIT-CRB Santé
 - OSUR: Infrastructure in the field of earth sciences, ecology, and human/environmental relations
 - UNIVREN-OSUR-Condate-Eau
 - UNIVREN-OSUR-LidarNR
 - UNIVREN-OSUR-EcogenO
 - UNIVREN-OSUR-GeOHeLiS
 - UNIVREN-OSUR-EcoChim
 - UNIVREN-OSUR-LAGO

- UNIVREN-OSUR-ImaGéo
- UNIVREN-OSUR-PISTE
- SCANMAT: Infrastructure in the field of material sciences (analytical chemistry, structural characterization, mechanical and optical spectroscopy, synthesis)
 - UNIVREN-SCANMAT-CMEBA
 - UNIVREN-SCANMAT-CRMPO
 - UNIVREN-SCANMAT-SIR
 - UNIVREN-SCANMAT-THEMIS
 - UNIVREN-SCANMAT-S2 WAVE
 - UNIVREN-SCANMAT-CAPHTER
 - UNIVREN-SCANMAT-Osiris
 - UNIVREN-SCANMAT-Nanomeca

Abstract:

Background (scientific context of the proposed project):

Objectives:

Expected results:

Experimental plan (methods/technical requirements):

References:

Quantification of the project (e.g. number of samples, rough number of machine-hours needed):

Pictures (up to 3 pictures can be uploaded):

Annex III: Template for the final reports of the users

EDUC-Share call for projects Final project report

Project title:

Applicant

First name:

Surname:

Working e-mail:

Phone:

Position (check box):

Researcher (Ph.D. title and higher) Ph.D. student

In case of Ph.D. include also name, surname and contact details of principal investigator (PI):

First name PI:

Surname PI:

E-mail PI:

Phone PI:

Institution:

Project report (max 2 A4 pages)

Host institution:

Used core facility/ies or service laboratory/ies:

Project results:

Potential use of the results:

In the case you have published results, please put the reference of the publication here:

Feedback:

Please indicate how satisfied you were with the service quality:

- *Expertise of laboratory staff (willingness to provide guidance and additional support): low – medium - high*
- *Professional and friendly service (I feel welcome when contacting the laboratory, I get a quick and competent answer): low – medium – high*
- *Other comments:*

Please indicate how satisfied you were with the output quality:

- *Promptness of service and results: low – medium – high*
- *Presentation and accessibility of results (data provided in clear and usable format, further guidance and explanation of results): low – medium – high*
- *Quality and reliability of results: low – medium – high*
- *Other comments:*

Annex IV: List of submitted projects

Applicant	Origin university	Destination university	Research infrastructure	Project name	Call result
Silvio Ferrero	Cagliari	Potsdam	Institute of Geosciences	Deep fluid fluxes during mountain building processes	Accepted in full
Camille Rossignol	Cagliari	Rennes	GeOHeLiS platform	U–Pb age constraints on the Carboniferous-Permian San Giorgio Basin, Italy	Accepted in full
Sophie Langouet	Rennes	Masaryk	CELLIM	Effects of microcystin-LR on membrane transporters and hepatic differentiation markers in advanced human 3D in vitro liver models	Accepted in full
Veronika Szendro	Pécs	Masaryk	HUME Lab	Contemplative Effect of Religious Art Based on Mandalas	Accepted in full
Simone Pani	Cagliari	Rennes	UNIVREN-BIOSIT-MRiC	Imaging of phospholipid vesicles by cryogenic-transmission electron microscopy	Accepted in full
Sepideh M.Koubjari	Masaryk	Cagliari/Rennes	Mass spectroscopy	Specificity of 3'UTR-mediated regulatory partners in disease related mRNAs across different cell lin	NOT accepted due to technical feasibility
Eliska Pivrcova	Masaryk	Cagliari	NMR	The metabolomic profiles of infant's stool and milk	Accepted in full





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