

The Senate of the University of Maribor Faculty of Education has on its 33rd regular session on 22 April 2022 adopted a decision No. 7 confirming the Open Access Policy for Research Infrastructure at the University of Maribor Faculty of Education.

Open Access Policy for Research Infrastructure at the University of Maribor Faculty of Education

1. Definition

Research infrastructure¹ of the University of Maribor Faculty of Education (hereinafter referred to as RI UM PEF) denotes the whole of research equipment, complex digital research systems and databases used for research and art purposes as well as dedicated research groups. RI UM PEF is a prerequisite for research, art and teaching purposes and, at the same time, essential for achieving both excellence in research and art as well as wider social development.

RI UM PEF may comprise fundamental RI (equipment, etc.) and/or RI for knowledge transfer (researchers, artists, databases, etc.). In certain cases, it can also be defined as a virtual infrastructure or a virtual research environment, where the service is provided electronically.

RI UM PEF which can be openly accessed is listed in the Appendix 1 List of the openly accessible RI UM PEF.

1. Users

RI UM is publicly accessible to researchers, artists, research groups or research organizations within the framework of UM research and art activities (employees, including researchers of different stages, postdoctoral researchers, technicians and Doctors of Philosophy) and research and art activities outside UM (external users, such as researchers of various research or art organizations, commercial or other). Within the framework of research or art, users are involved in designing or creating new knowledge, products, processes, methods and systems.

The UM may require from external users that they demonstrate they have the knowledge and skills required to use the RI. Where the external user does not have the required knowledge and skills for professional operation of the equipment, the entity can provide complete service by employing its internal staff. The entity may also offer and provide training for new external users. The cost of such training is borne by the external user.

Users need to abide by relevant principles, strategies, directives and other regulatory UM documents in their collaboration or when using RI UM PEF.

2. Access

Access means a legitimate and authorized admission to interactions and use of RI UM and the services provided by RI UM PEF to users. Access can be physical, remote or virtual (allowing access through communication channels, usually online network facilities).

¹ According to the definition of the European Strategy Forum for Research Infrastructures (ESFRI), research infrastructures (RI) are facilities, resources or services that represent larger equipment or set of instruments and represent or complement knowledge sources such as collections, archives and databases. Examples of RI according to the ESFRI definition: large research installations, collections, libraries, databases, biological archives and collections, high-performance or broadband communication networks, research vessels, telescopes, satellite and aircraft observation capacities, high performance computing networks (HPC), clean rooms, coastal observation stations, synchrotrons and accelerators, etc.

RI UM access modes comprise the excellence-driven access mode and market-driven access mode. The excellence-driven access mode is dependent on the scientific or artistic excellence, originality, quality, technical and ethical feasibility of the work. The market-driven access mode is possible in case of an agreement between the user and the RI which will lead to a fee for access. This mode is also possible when there is a market need demanding technical or scientific solutions that can be achieved through access to RI. Both modes are granted based on application, evaluated internally or through peer review.

RI UM PEF is responsible for determining the scope of their own RI which is to be accessible to external users, under clear, transparent and fair terms and conditions.

RI UM offers users a certain amount of access, which is measured in access units defined by individual entities. Access units may vary depending on different types of RI. Some access units are precise values, e.g., hours of infrastructure operation, gigabytes generated and stored while conducting complex experiments, etc.

3. Costs and fees

Access to RI may be provided free of charge or may require payment. All terms and conditions associated with the use of RI have to be transparent and publicly available. In the case of paid access, the user is charged a fee which has to be clearly linked to the actual use of RI itself. Access fees may vary for different types of RI, but all have to abide by the following principles:

- auditability,
- traceability to the work done on the RI item, including maintaining appropriate records outlining access requests (successful and unsuccessful), reasons for declining access (if relevant), usage data, etc.,
- prohibition of double funding,
- compliance with all relevant national and EU funding terms and conditions and with competition legislation.

Market-driven access costs should be recovered at full commercial rates.

Unit of cost depends on the amount of use of a particular access unit.

4. Training and Education

The RI UM PEF open access policy encourages collaboration with other institutions and organizations that benefit from RI UM PEF for their research, education and training.

5. Restrictions

Access to RI UM PEF can be limited by the national security and defence, privacy and confidentiality, commercial sensitivity, intellectual property rights, and ethical consideration following applicable laws and regulations.

6. Ethical conduct, research integrity, and non-discrimination

RI UM PEF open access policy follows the Code of Ethical Conduct of the University of Maribor as well as the eight principles laid down in The European Code of Conduct for Research Integrity drafted by the European Science Foundation (ESF) and the European Federation of

National Academies of Sciences and Humanities (ALLEA). The eight principles that researchers need to abide by are honesty in communication, reliability in performing research, objectivity, impartiality and independence, openness and accessibility, duty of care, fairness in providing references and giving credit, and responsibility towards the scientists and researchers of the future.

When considering granting RI UM PEF access to a user, the user should not be discriminated on any personal grounds.

7. Quality Assurance

Quality of the RI UM PEF open access will be ensured by establishing quality assessing mechanisms for RI access within individual entities. The mechanisms will follow the general principles defined by the European Commission. These principles are denoted in English by the acronym "RACER" (Relevant, Accepted, Credible, Easy, Robust):

- Relevant and closely linked to the objectives to be reached. They should not be overambitious and should measure the right thing.
- Accepted by the RI and the stakeholders. The role and responsibilities for the indicator need to be well-defined.
- Credible for non-experts, unambiguous, and easy to interpret. Indicators should be as simple and robust as possible.
- Easy to monitor at low cost and effort.
- Robust against manipulation.

The set mechanisms should include following metrics:

- user metrics (e.g., user access, user base and relevance to users),
- RI operational metrics (e.g., access provision, service, central management, reliability, visibility, user community size and evolution), strategic indicators (e.g., publications and other products, cross-disciplinarity, economic impact) and
- financial metrics (e. g. service, resources, cost, returns).

8. Research data management

The data management policy provides clear guidance on how and where to store the generated data for a reasonable period and on how the user should provide this data for reuse. Instructions may vary depending on the type of RI within each individual entity. The data should follow the FAIR principles (findability, accessibility, interoperability and reusability). Research data management is laid out in a separate regulatory document.

9. Transparency

The Department for Research and Art of the University of Maribor (ORUD UM) provides information on the RI UM open access policy, general information on RI UM and RI UM entities' contacts.