

Turning open science to reality: the role of academic libraries

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<https://biblioteka.ktu.edu/>

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- International and national context of Open Science
 - Initiatives and practices at Kaunas University of Technology
 - Results of a bibliometric enquiry into Open Access publications on the Web of Science and Scopus
 - Lessons learnt

Pillars of Open Science



<https://www.leru.org/publications/open-science-and-its-role-in-universities-a-roadmap-for-cultural-change>

Image from [LERU Roadmap for Open Science Jan 2021](#)



Open Science in “Horizon Europe”



Open Science across the programme

Open
Science

Mainstreaming of open science practices for improved quality and efficiency of R&I, and active engagement of society

Mandatory immediate Open Access to publications: beneficiaries must retain sufficient IPRs to comply with open access requirements;

Data sharing as ‘open as possible, as closed as necessary’: mandatory Data Management Plan for FAIR (Findable, Accessible, Interoperable, Reusable) research data

- Work Programmes may incentivize or oblige to adhere to **open science practices** such as involvement of citizens, or to use the **European Open Science Cloud**
- Assessment of open science practices through the **award criteria** for proposal evaluation
- Dedicated support to **open science policy actions**
- **Open Research Europe** publishing platform

Relevant policy documents: international scope

OECD (2015), *Making Open Science a Reality*, OECD Science, Technology and Industry Policy Papers, No. 25, OECD Publishing, Paris.
<http://dx.doi.org/10.1787/5jrs2f963zs1-en>

European Commission: Directorate-General for Research and Innovation, *Open innovation, open science, open to the world – A vision for Europe*, Publications Office, 2015, <https://data.europa.eu/doi/10.2777/061652>

UNESCO (2021), *UNESCO Recommendation on Open Science*, UNESCO, <https://doi.org/10.54677/MNMFH8546>

The Law on Higher Education and Research (2009, revised in 2015 and 2016): "The results of all research work carried out in state higher education and research institutions must be communicated to the public".

The Research Council of Lithuania adopted "Guidelines on Open Access to Scientific Publications and Data" on 29 February 2016: <https://e-seimas.lrs.lt/portal/legalAct/lt/TAD/8113c930e0b811e5b18181b790158f61>

A mandate to write a Data Management Plan for projects funded by the Research Council of Lithuania

20. The project leader shall ensure the preservation of the data generated in the course of the project implementation in digital form, and the transfer of such data for storage at the institution and/or to the repository upon the end of the project. The data must be preserved for a period no shorter than five years following the completion of the project.

21. The implementers of the project intending to accumulate the relevant data must include in the proposal a data management plan. In the course of the implementation of the project the relevant data management plan may be adjusted.

22. The expenses incurred during the project to implement the data management plan are eligible expenses, and may be included as an item of the estimated total cost of the project.

23. The data underlying the scientific publications referred to in Chapter IV of the Guidelines must be made openly accessible at the same time as the publications. The data must be made accessible in repositories or other ways specified by the publishers, and linked to the relevant publications.

24. Project implementers may be exempted from the provisions of the Guidelines on Open Access to data (or part thereof), upon a reasonable explanation and if:

24.1. the data have been obtained not in the course of the project implementation, or the scientific publication was not based on original data, i.e. the data were not compiled and/or generated during the project;

24.2. the data that have commercial value or can be used for industrial purposes may be exempted from the general principle of Open Access.

24.3. Opening Access to the data would be incompatible with the confidentiality requirements;

24.4. Opening Access to the data would contradict the requirements regarding the protection of personal data;

24.5. Open Access to the data would prevent attaining the objectives of the project;

24.6. there are other legitimate reasons not to open the data.

The change in Article 51 on Publicity of scientific results in the Law on Higher Education of the Republic of Lithuania came into force on 1 September 2024:

“In order to ensure the quality of scientific research carried out with the funds of the state budget, the transparency of the use of the funds of the state budget, to increase the possibilities of using the results of scientific research, and to promote the progress of science, all results of scientific research and experimental development carried out in science and study institutions with the funds of the state budget must be made publicly available in open access, insofar as it is not in contradiction with the legislation regulating the protection of personal data, intellectual property, professional, commercial, or state and official secrets, national security and defense, and also the activities of the law enforcement agencies and the public security. The procedure for the implementation of open access to the results of scientific research and experimental development shall be established by the Research Council of Lithuania.”

- On 30 August 2024 The Research Council of Lithuania has issued the "[Description of the Procedure for Open Access to Research and Experimental Development Results](#)", which obliges the authors of research funded by the Research Council to open publications and manage data in accordance with the principles of FAIR, and to open them if there are no reasonable impediments. It also provides requirements/recommendations for research and study institutions.

The following regulating documents must be in place by 31 December 2026:

- Description of the procedure for monitoring open access to research and experimental development results
- An action plan for open access to research and experimental development

Institutional policy

“Regulations on the Open Access to Scientific Publications and Data of Kaunas University of Technology” adopted December 22, 2016, revised May 13, 2020

APPROVED BY
Order No. A-589 of the Rector of
Kaunas University of Technology
of 22 December 2016

REGULATIONS ON THE OPEN ACCESS TO SCIENTIFIC PUBLICATIONS AND DATA OF KAUNAS UNIVERSITY OF TECHNOLOGY

CHAPTER I GENERAL PROVISIONS

1. Regulations on the Open Access to Scientific Publications and Data regulate the key principles, procedure, obligations and responsibility of Kaunas University of Technology (hereinafter – University) related to scientific publications and data in the open access.

PATVIRTINTA
Kauno technologijos universiteto
rektorius 2020 m. gegužės 13 d.
įsakymu Nr. A-236

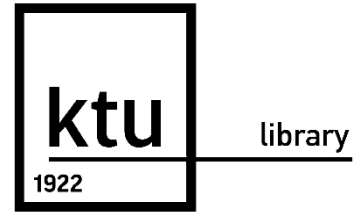
KAUNO TECHNOLOGIJOS UNIVERSITETO ATVIROSIOS PRIEIGOS PRIE MOKSLO PUBLIKACIJŲ IR MOKSLINIŲ TYRIMŲ DUOMENŲ NUOSTATAI

I SKYRIUS BENDROSIOS NUOSTATOS

1. Kauno technologijos universiteto atvirosios prieigos prie mokslo publikacijų ir mokslinių tyrimų duomenų nuostatai (toliau – Nuostatai) reglamentuoja Kauno technologijos universiteto (toliau – Universitetas) darbuotojų ir studentų mokslo publikacijų ir mokslinių tyrimų duomenų skelbimo atvirojoje prieigoje pagrindinius principus, tvarką, įsipareigojimus ir atsakomybę.

A new revision of the policy is being carried out by the representatives of the Department of Research Affairs and the Library in the frame of the FAIR-IMPACT support programme for research performing organizations.

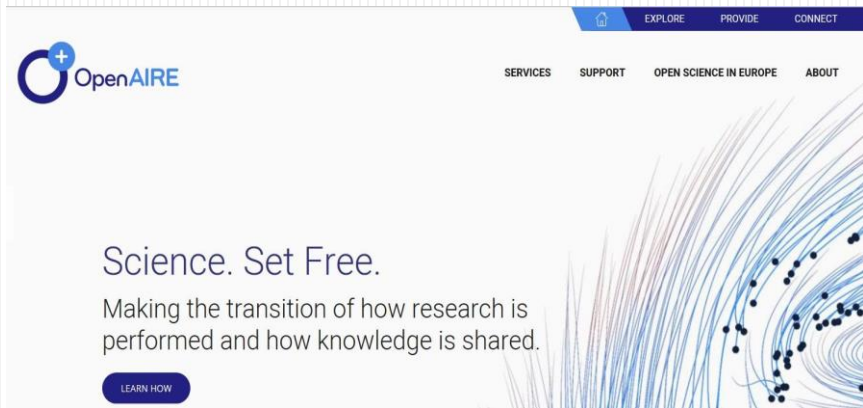
At KTU Library we



- act a National Open Access Desk (NOAD) for Lithuanian researchers (provide training sessions / consultations)
- act as Research Data Alliance (RDA) National Node Lithuania to promote the outputs and recommendations delivered by the Research Data Alliance in the national context
- **2019 –2020** RDA Europe 4.0 National Node Lithuania
- **2018 – 2020** OpenAIRE-Advance (OpenAIRE Advancing Open Scholarship)
- **2015 – 2018** OpenAIRE2020 (Open Access Infrastructure for Research in Europe 2020)
- **2011 – 2014** OpenAIRE plus (2nd Generation of Open Access Infrastructure for Research in Europe)
- **2009 – 2011** OpenAIRE (Open Access Infrastructure for Research in Europe)



Research support provided by OpenAIRE NOAD (since 2009)



<https://www.openaire.eu>

- Workshops, webinars
- Training sessions
- Courses
- Web-based training material

FOSTER: “Promoting Open Science among Young Researchers: Opportunities and Challenges”

2015-2016





Workshop “Practising FAIR and Open Data Management” April 19-20, 2018



Open Science Trainer Bootcamp and Open Data Workshop on writing Data Management Plans April 2-3, 2019



KTU INTERNATIONAL

PhD Summer School

21-25 AUGUST 2017
PALANGA, LITHUANIA




22 AUGUST 2017 _____ Tuesday

Writing for Scholars. Scientific Writing
Lynn P. Nygaard, PRIO, Norway
Jacek Fiutowski, University of Southern Denmark

23 AUGUST 2017 _____ Wednesday

Project Management for PhD Students
Flavien Massi, Intelligentsia Consultants Sàrl, Luxembourg

24 AUGUST 2017 _____ Thursday

Open Science and Research Data Management: tips and tools to help you plan to get the most from your data
Sarah Jones, Digital Curation Center, UK
Iryna Kuchma, EIFL, Lithuania



Towards built-in practices



In cooperation with the University of Stavanger and European Consortium of Innovative Universities, focus on the development of transferable skills at the international PhD Summer School in 2017.



2nd international PhD Summer School: "Open Science and Research Data Management"

24 August 2017

PhD course “Research Data Management”

June 26, 2017: approval at the committee of the joint Doctoral Programme in Educational Science
October 2017: registration at Kaunas University of Technology
From 2018 – 2019 Moodle-based course was offered for PhD students as an elective (6 ECTS)
Since 2021 the course has been taught in its abridged version (1 ECTS) as an elective.

Topics:

1. Research Data.
2. Research Data Management Plan.
3. Research Data Management Guidelines, Standards and Tools.
4. Legal and Ethical Issues. Data Licensing and Data Citations.
5. Using and Sharing Data.
6. Data Repositories and Archives.
7. Open Science Initiatives.

5274D101 Mokslinių tyrimų duomenų valdymas Gintarė Tautkevičienė (LT)

Modulio programa

Modulio tikslai

Ugdi išsivystinti sąsają su mokslinių duomenų, informacijos kūrėjų ir naudotojų moksliniuose tyrimuose. Supažinti su mokslinių duomenų, informacijos kūrėjų ir naudotojų moksliniuose tyrimuose. Ugdė gebėjimus valdyti mokslinių tyrimų duomenis, užtikrinti jų saugumą, prieinamumą ir atkurti jų panaudojimą, parengti mokslinių tyrimų duomenų valdymo planą ir jį adaptuoti atitinkantiems mokslinių tyrimų reikalavimams. Supažinti su mokslinių duomenų naudojimo taisyklėmis ir etišku elgesiu. Supažinti su mokslinių duomenų saugojimo taisyklėmis ir etišku elgesiu. Supažinti su mokslinių duomenų saugojimo taisyklėmis ir etišku elgesiu.

Dalyvaujant doc. dr. Gintarė Tautkevičienė, dr. Inga Česnyškaitė, dr. Andrius Krūšinskas

➤ Viską išskleisti ➤ Viską sutraukti

1. 1 tema: Mokslinių tyrimų duomenys
2. 2 tema: Mokslinių tyrimų duomenų valdymo planas
3. 3 tema: Duomenų valdymo rekomendacijos, standartai ir įrankiai
4. 4 tema: Teisiniai ir etiniai klausimai, licencijavimas ir citavimas
5. 5 tema: Naudojimas ir dalijimasis mokslinio duomenimis
6. 6 tema: Duomenų talpyklos ir archyvai

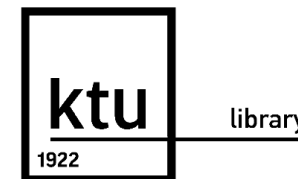
Conference *Focus on Open Science*

October 29, 2019



Workshop on *(23 Things for) RDM*

March 5, 2020



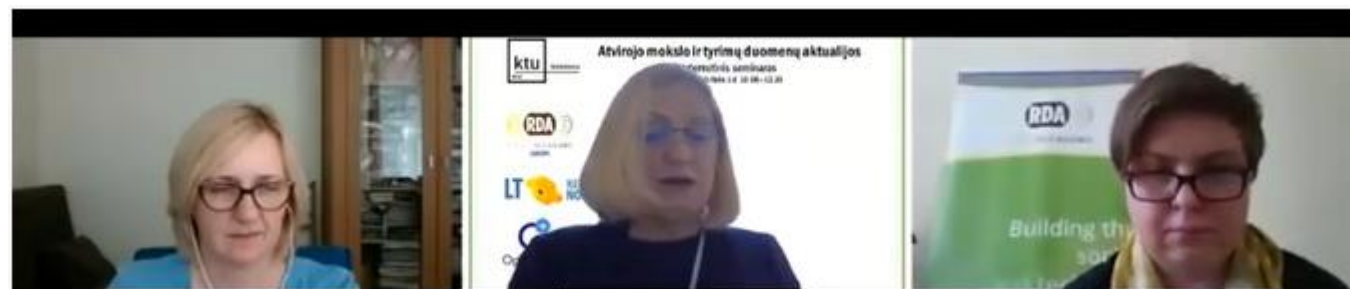
Workshop *Getting Stated with RDM Support*

October 30, 2019

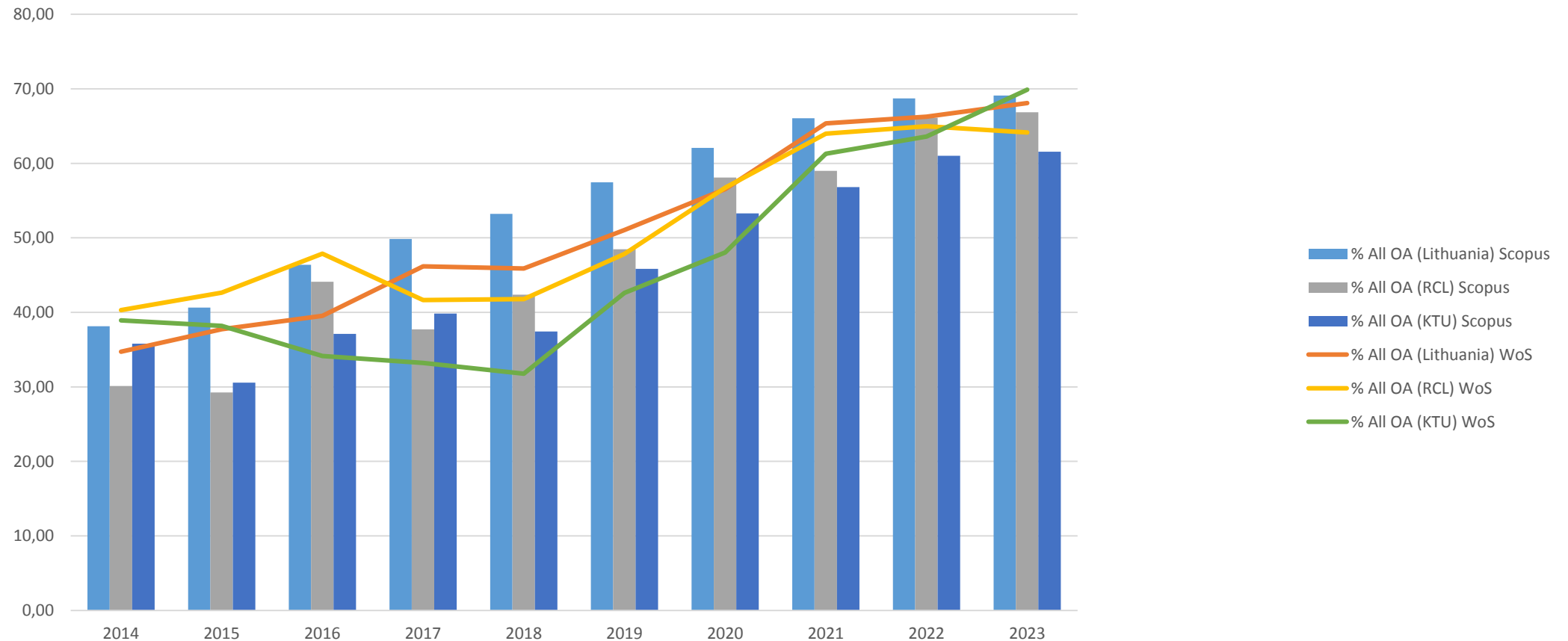


Workshop on Recent Developments in OS and FAIR

June 1, 2020



But how about the impact?



Total percentage of publications funded by Lithuanian institutions, Research Council of Lithuania, and Kaunas University of Technology in open access (2014-2023) (data from the Web of Science and Scopus)

Lessons learnt

To provide meaningful services for promoting open science at an academic library, we need to:

- know about global tendencies and seek to implement them on the national and institutional level
- develop clear procedures for implementation and monitoring of policies that should be mandates rather than recommendations
- raise awareness
- develop the competence of researchers and administrative staff
- seek support from stakeholders
- be proactive



Let's embark on this journey together!

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biblioteka.ktu.edu