

Open Science Support Centre at Charles University

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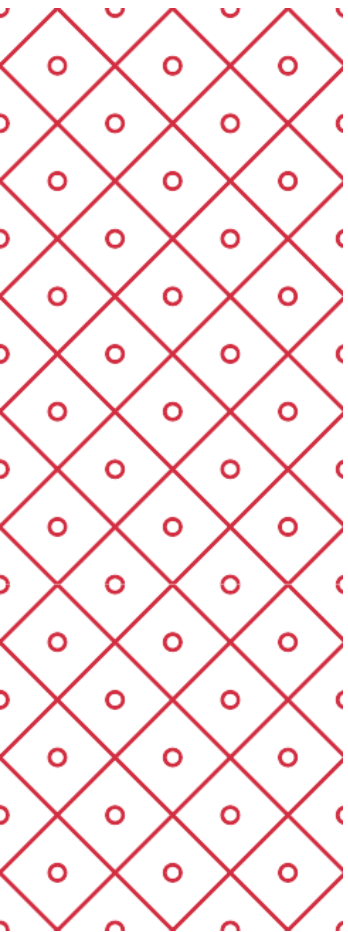
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Open Science Support Centre
Charles University

23 April 2024



Charles
University



Open Science in Czechia

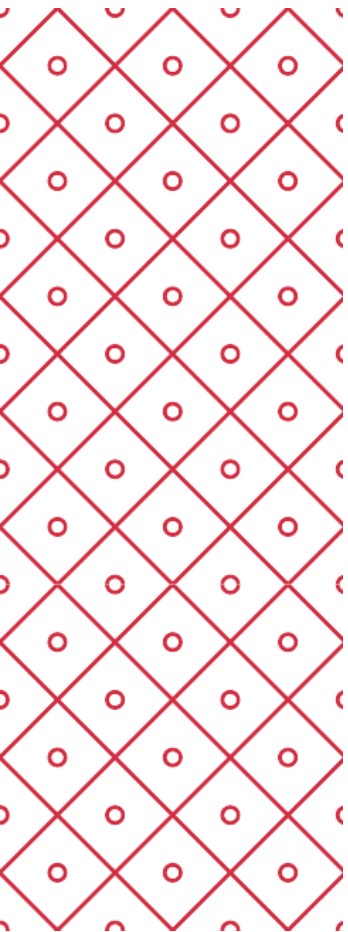


Open Science

- Adoption of open science policies on the national level is very slow
- National Strategy of Open Access to Scientific Information for 2017-2020
- Very limited view of open science
 - Open access → transformative agreements
 - Research data → infrastructure

! Competitive science in the European area !

Opportunity for institutions



Open Science at Charles University



Charles University

17 in **3**
faculties **in** **cities**

8,700+
employees

51,000+
students

889
study
programmes

Faculties

- Catholic Theological Faculty
- Protestant Theological Faculty
- Hussite Theological Faculty
- Faculty of Law
- First Faculty of Medicine
- Second Faculty of Medicine
- Third Faculty of Medicine
- Faculty of Medicine in Plzeň
- Faculty of Medicine in Hradec Králové
- Faculty of Pharmacy in Hradec Králové
- Faculty of Arts
- Faculty of Science
- Faculty of Mathematics and Physics
- Faculty of Education
- Faculty of Social Sciences
- Faculty of Physical Education and Sport
- Faculty of Humanities

Open Science at CUNI

- Berlin Declaration (2013)
- Joint Declaration of the Academic Senate of CU and the University Management on Open Access Policy at CU
- Karolinum press: [Open editorial policy](#) (2015)
- Open Science Support Centre (2020)
- [Strategic Plan for 2021-2025](#) (Part II. 10)

10. As a public institution, we will promote, as far as possible and in cooperation with other universities and research institutions, the openness of our science:

Open Science Support Centre

* 1 January 2020, CUNI Central Library



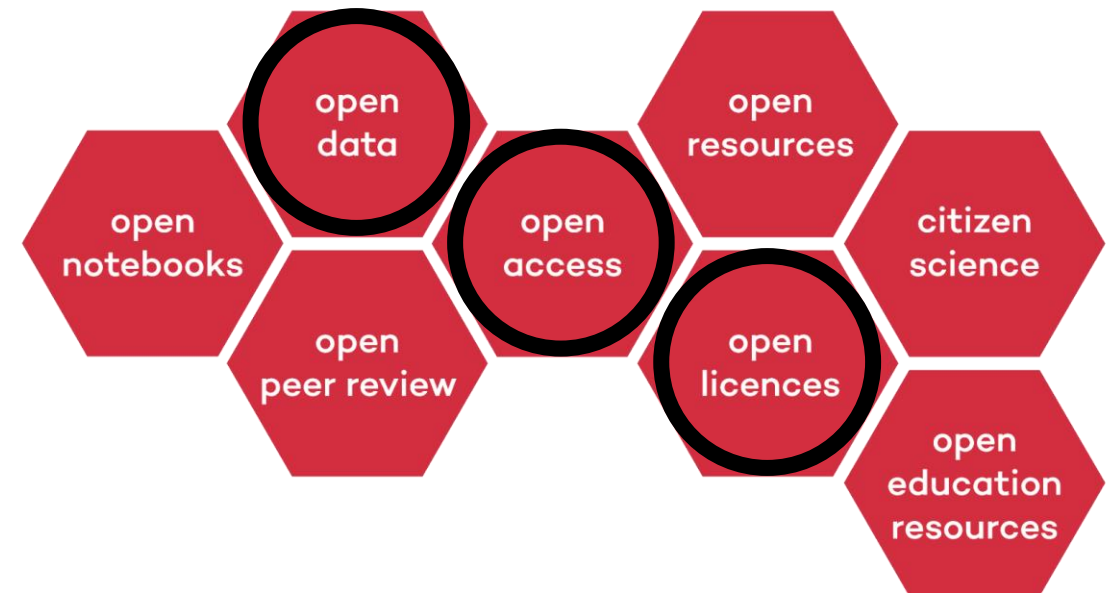
EUROPEAN UNION
European Structural and Investment Funds
Operational Programme Research,
Development and Education



MINISTRY OF EDUCATION,
YOUTH AND SPORTS

Sections (FTEs)

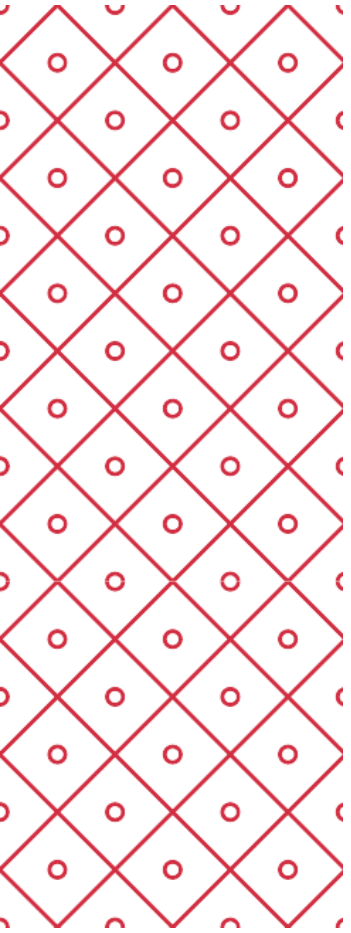
- Open access (1.2 → 2 👤)
- Research data (2.2 → 4 👤)
- Legal support (0 → 2 👤)





OSSC: Roles

1. Strategic development of open science at CUNI
2. (Direct) support for researchers



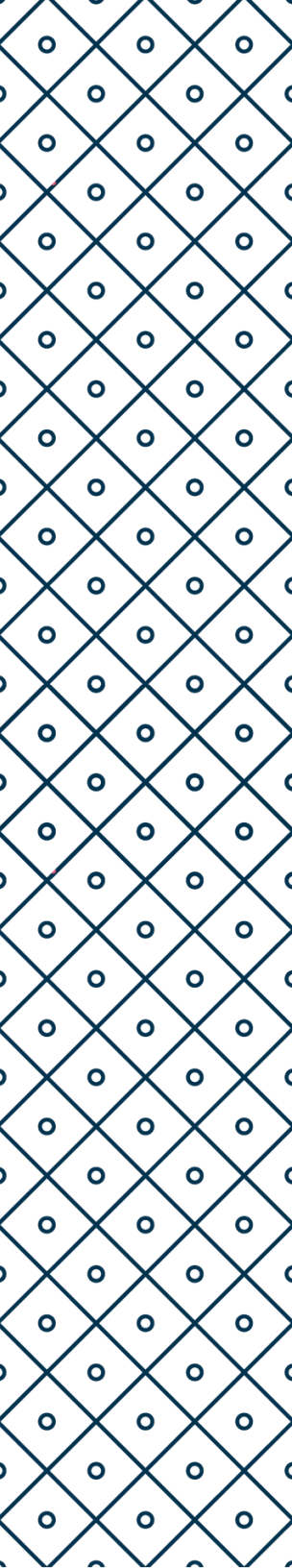
Strategic development



Strategic development

or, Indirect support for researchers

- Provide infrastructure
- Ensure functional direct support
- Institutional policies
- Raising awareness & educational activities
- Communication & collaboration with other departments
- Participation in national and international working groups



~~Open data~~ → FAIR & RDM

- Original plan
 - Analyse how researchers work with their data
 - Roadmap for implementing an institutional data repository



Questionnaire & interviews with researchers



- FAIR more important than open
- RDM important (otherwise garbage in, garbage out)



The University needs to do more than build a repository!

Research data management

- Research data repository
- Guidelines and training
- Enable direct support for researchers
 - **Data stewards** at faculties
- Implementing **Research data policy**
 - Basic principles
 - Responsibilities of the University and its researchers
 - Available support



Charles University Research Data Policy

1. Preamble

Charles University is committed to ensuring that its research is transparent, replicable and its research results are widely accessible and reusable, in line with the principle 'as open as possible, as closed as necessary'. The University strongly believes that such practice improves the quality of research and benefits not only the wider research community but individual researchers as well by fostering collaboration and increasing their impact. Making research results widely available will further highlight the excellence of the University's research and enable public engagement.

The University recognizes that research data are an integral part of the research process and that research data management is a key component of research quality and integrity. The aim is for the University researchers to produce research data that are managed in accordance with the FAIR principles.

2. Definitions

Research data: Research data can be characterised as any information that has been collected, observed, generated, or created to validate or reproduce research findings. Research data can take various forms, including but not limited to documents, spreadsheets, images, audio and video recordings, code, software, laboratory notebooks or samples, and may be digital as well as non-digital.

Metadata: Metadata provide information about other data. They may include, for example, information about who the author of the data is, or when and where the data were created.

FAIR principles: The FAIR principles describe how research data should be organised so they can be more Findable, Accessible, Interoperable and Reusable.

Data management plan (DMP): Data management plan (DMP) is a document that specifies what data will be created and how, and outlines the plans for sharing and preservation of the data, both during and after the research project. DMP should be updated regularly to reflect what actually happened with the data.

Repository: Repository is a digital online storage for storing and sharing the results of creative activities (e.g., publications or data).

Persistent identifier: Persistent identifier is a long-lasting reference to a unique entity. Persistent identifiers may be used, for example, for digital objects (e.g., DOI, handle), researchers (e.g., ORCID, ResearcherID), organisations (e.g., ROR) or other entities.

Open access

- Digital repository for publications
 - Methodological materials
 - Video tutorials and trainings
- Network of Faculty coordinators
- Open Access Publishing consultations
- Annual APC monitoring → OpenAPC
- Transformative agreements → Token allocation
- Developing open science policies (on institutional and national level)



Overview of open access publications of the CU authors

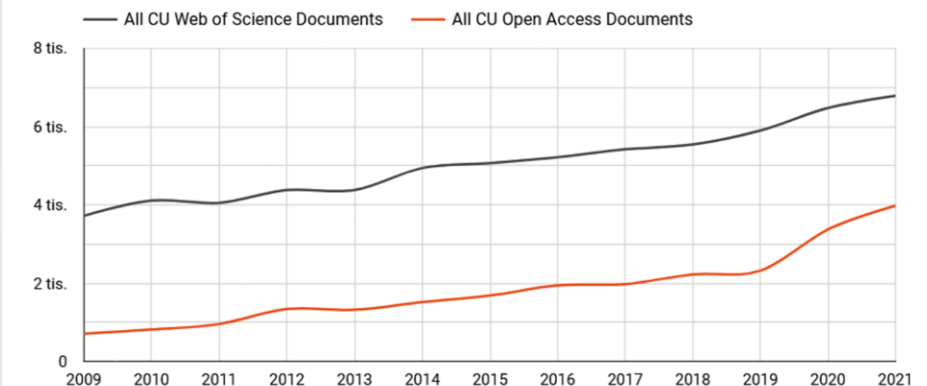
Data from InCites for "2009-2021" AND "Charles University Prague", last upd.: 2023-05-03

All CU Web of Science Documents

65 981

All CU Open Access Documents

24 150

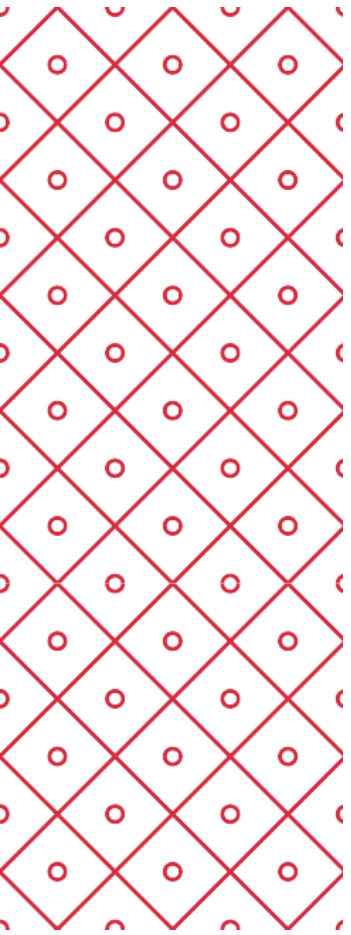




Communication

- International
 - Open science colleagues, working groups/alliances (4EU+, UNICA, IAU)
- National
 - Working groups (OS ALCU, EIR ALCU, CZARMA, EOSC CZ), libraries, data steward community, national centers (PID Centre, CzechELib)
- Institutional
 - IT department, Dpt of Research, Project support, Legal dpt.
- Researchers
 - Individual researchers, research infrastructures

The Library often initiates the discussion and offers support.



Support for researchers

Support for researchers

- [Website](#)
- Consultations
 - DMP support
 - Making publications available (APC, repository)
 - Research funders' requirements
 - Legal support (licensing, IPR)
- Training
 - Seminars
 - Online courses
- Mailing list

Open Access at CU – How to publish Open Access?
Dashboard / My courses / OAnaUKEn

Introduction

Welcome to the course Open Access at CU - How to publish Open Access?

By completing this course, you will gain **insight into the issue** of open publishing and basic information about the possibilities that the publishing model of open access offers you. You will be introduced to **useful tools and platforms** and you will find out who to turn to regarding open access at Charles University.

At the end of this course, you will know how to answer the following questions:

- What is open access?
- What does it mean to "publish open access"?
- What are the benefits of open access publishing?
- What is the difference between the green and the gold route to open access?
- What specific steps does an author need to take to publish in open access?
- What are the typical features of so-called predatory journals and publishers and how to avoid them?
- What does Charles University offer me as an author in the field of open publishing?

How does it work?

Each chapter introduces one topic of open access and offers basic **definitions** and **description**, supplemented by multimedia, **useful links** and an overview of **recommended literature**. At the end of each chapter, there is a short quiz to test your newly acquired knowledge. In order to be able to complete the quizzes, you need to enrol in the course (cogwheel in the top right corner > Enrol me in this course).

[Enrol me in this course](#)

Research Data Management
Dashboard / My courses / RDM_ENG


Introduction

Welcome to the Research Data Management course!

Data-based research is becoming more and more common across a wide range of scientific disciplines. With the growing importance of research data, there is also a growing need to manage data properly throughout the research process. In this course, we will introduce the **basic concepts of research data management** as well as some specific **tools** that can help you with data management.

During this course you will learn

- What are research data
- What is research data management
- What are the benefits of research data management
- What is a data management plan and how to create one
- Useful tips for collecting and processing research data
- What are open research data and how to share your data
- ...and a lot more!



How does it work?

Each chapter introduces one topic of research data management and offers basic **definitions** and **description**, supplemented by multimedia, **useful links** and an overview of **recommended literature**. At the end of each chapter, there is a short **quiz** to test your newly acquired knowledge. In order to be able to complete the quizzes, you need to enrol in the course (cogwheel in the top right corner > Enrol me in this course).

Discover open science with us!



Mgr. Marian Novotný, Ph.D.

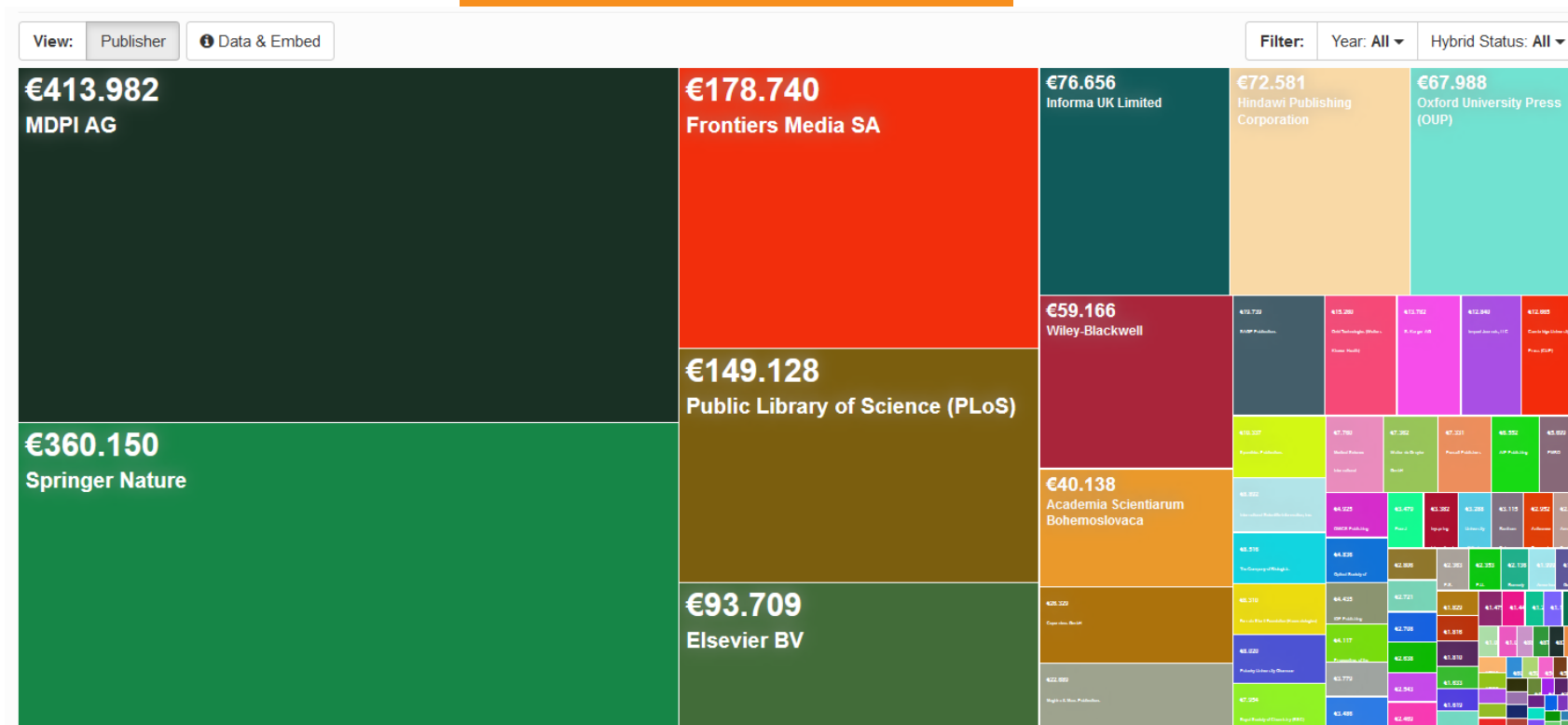
"Open science is a natural approach to doing science that is beneficial for data users, but especially for data producers."



Faculty of Science

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OPEN SCIENCE CHAMPIONS CUNI
» bit.ly/openchampionscuni



Thank you for your attention

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