Open Science and Repository of University of Nova Gorica



Slovene open science (OS) legislation

- <u>Uredba o izvajanju znanstvenoraziskovalnega dela v skla du z načeli odprte znanosti (Uradni list RS, štev. 59/23)</u>
- Zakon o znanstvenoraziskovalni in inovacijski dejavnosti (ZZrID, Uradni list RS, št. 186/21)
 (mainly articles 40., 41. and 42.)
- Zakon o dostopu do informacij javnega značaja (ZDIJZ, U radni list RS, št. 51/06)
 (mainly article 6.č)
- Resolucija o znanstvenoraziskovalni in inovacijski strateg iji Slovenije 2030 (ReZrIS30) (mainly goal 6)
- Akcijski načrt za odprto znanost (Vlada RS, št. dok. 63100 -1/2023/5 z dne 31. 5. 2023)

Slovene OS legislation highlights

- researchers should ensure open access to all peerreviewed scientific publications, research data and other research results (software, algorithms, protocols, models ...) co-financed by public resources to the extent of at least 50%;
- peer-reviewed scientific journals and scientific monographs published in Slovenia, financed by state resources, must ensure open access to their content;
- citizen science should be implemented in research cofinanced by public resources

Researchers' main activities

According to the terms of contracts signed with the funders, the authors should:

- •publish appropriate version of the article in trusted digital repository,
- •choose appropriate license (Creative Commons, Data license ...),
- •publish research data (follow the principle: "as open as possible, as closed as necessary")
- •prepare and regularly update research data management plan,
- •publish metadata,
- •publish data about projects and publication costs.

How to find an appropriate journal to publish in?

check the OA policy on the journal's website

- *Diamond OA journals no fees for authors, no fees for readers
- •Gold OA journals authors pay APC (Article Processing Charge), no fees for readers
- **Hybrid journals** publish two types of articles: 1. authors pay APC, no fees for readers; 2. authors pay no fees, subscription costs remain
- **Green journals** subscription costs for readers, authors can upload the appropriate version of the article in the repository (freely available to the public)

important: the publisher must allow the authors to save the final peer-reviewed version; the embargo must meet the funder's requirements

How to find an appropriate journal to publish in?

Open policy finder portal

- > Astroparticle physics
 - published version APC fee, CC BY
 - accepted version no fee, CC BY-NC-ND, embargo
- The Astrophysical Journal
 - published version no fee, CC BY 4.0

to cover APC fee authors can use vouchers or apply for refound to the ARIS tender "Javni razpis za povračilo stroškov znanstvenih objav v odprtem dostopu"

How to find an appropriate journal to publish in?

portal "Odprte objave"

- Funders policies and requirements
- Open publishing options
- Unfair publishing practices
- Choosing a journal to publish in
- Open science (UNG library webpage)

Creative Commons licenses

Types:

- •CCO Public Domain
- •CC BY Attribution articles
- *CC BY-SA Attribution-ShareAlike articles
- *CC BY-ND Attribution-NoDerivatives scientific monographs
- CC BY-NC Attribution-NonCommercial scient. monographs
- *CC BY-NC-SA Attribution-NonCommercial-ShareAlike
- •CC BY-NC-ND Attribution-NonCommercial-NoDerivatives scient. monographs

How to choose trusted digital repository?

- standards for determining trusted repositories (CoreTrustSeal, Nestor Seal DIN31644, ISO 16363)
- some databases:
 - <u>trusted repositories (ARIS list)</u>
 - re3data.org
 - FAIRsharing
 - OpenAIRE
- RUNG, Open Science Slovenia are on ARIS list

Important: link to the article in the repository or published article on publisher websites, personal websites, cloud storage services, Academia.edu, ResearchGate ... - do not meet the requirements of OS

Publishing research data

- domain-specific repositories (<u>CLARIN.SI</u>, <u>SIstory</u>, <u>Inspire-HEP</u> ...)
- institutional repositories (<u>RUNG</u>, <u>Open Science Slovenia</u>
 ...)
- general repositories (<u>Zenodo</u>, <u>Figshare</u> ...)
- <u>published contributions</u> can be submitted to different repositories
- <u>research data</u> is recommended to be stored in one repository; metadata and a link to published data also in the institutional repository

Quality research data

- Research Data Management Plan (RDMP)
- recommended formats (independent of software and computer platforms)
- the protection of personal data
- FAIR principles
 - Findable
 - Accessible
 - Interoperable
 - Reusable

Important: some data must remain closed (protection of intellectual property, sensitive personal data, security data ...); this must be explained in RDMP

Metadata

- describes research data in a way that it can be easily found, understood and used
- must be published open access (CC0 or CC BY)
- must be published in machine readable formats
- is a source of information about research even when the research data itself cannot be openly accessible
- among the best known metadata schemes is the Dublin Core Metadata Element Set consisting of 15 fields for describing digital objects

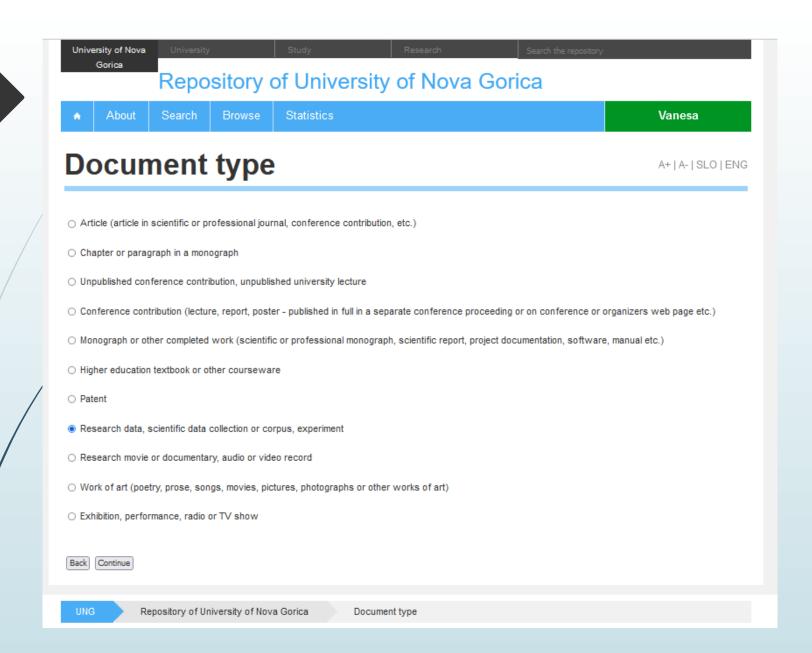
Data about projects and publication costs

- it is necessary to add the data about the projects and funders to the repository
- data about Article Processing Charge or other publication costs should also be disclosed

Repository of University of Nova Gorica (RUNG)

Short history

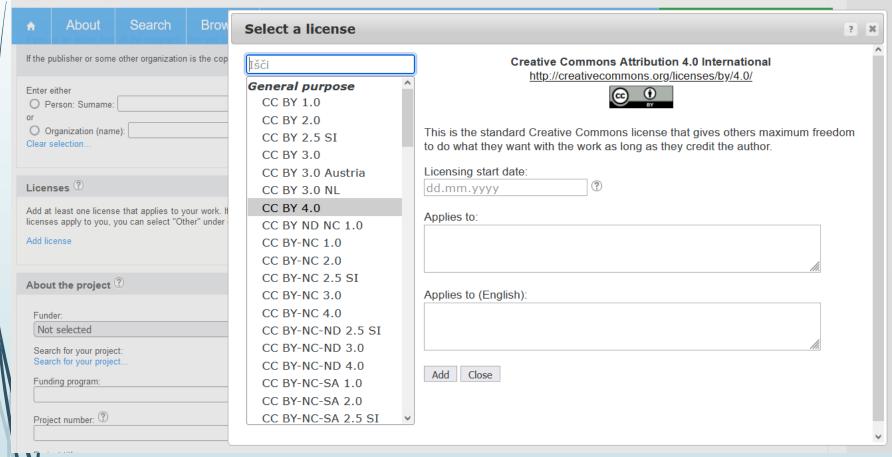
- 2013 four Slovenian universities launched a national Open Science Slovenia portal and repositories for open access to theses and scientific publications
- by the year 2022 two more repositories were built (Digital Repository of Research Organizations of Slovenia, Repository of colleges and higher education institutions)
- 2015 UNG students started publishing diploma, master, doctoral thesis in RUNG
- 2016 UNG employees started depositing works for the bibliography management in RUNG
- 2023 RUNG has been updated according to open science principles (the possibility of publishing research data, fields about projects, publishing costs ... were added)



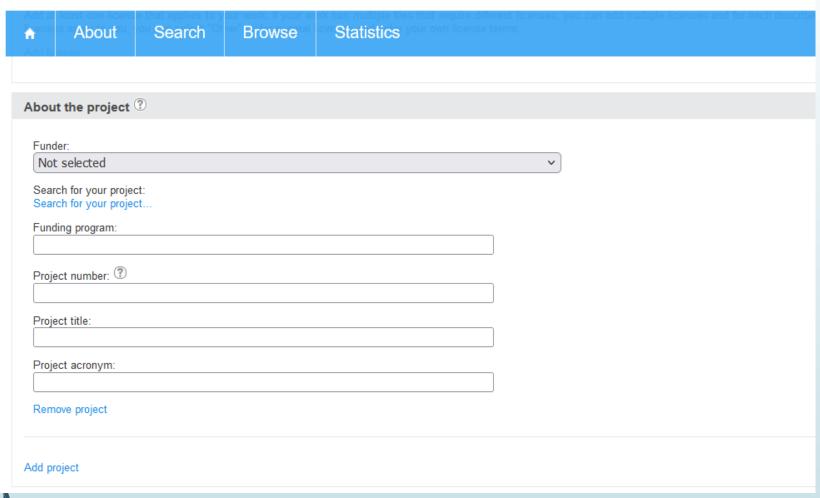
Some fields necessary for publishing in OA

- Access type:
- Immediate publication
- Delayed publication until (max. 3 years)
- Permanently restricted access to full-text, metadata available - author can choose "Allow access requests" (author will receive an email for access requests)
- Restricted access metadata and files are not publicly available, available only to authenticated users (administrators); nobody knows the research exists
- Licenses
- About the project
- Data collection methods
- Processing charges

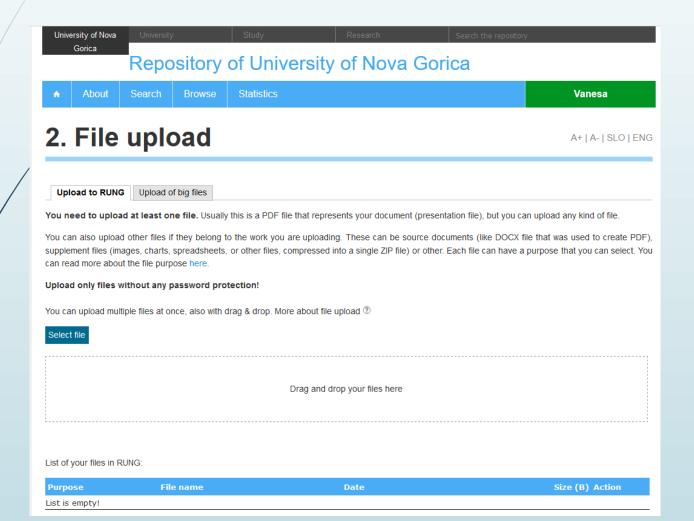
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File uploading to RUNG



File uploading to RUNG

- Upload to RUNG
 - for files up to 2 GB
 - files remain on UNG server
 - easy to reach the data
- Upload of big files
 - for files 2 GB or more and files that are intended to be processed on supercomputers
 - upload is done via iRODS system using iRODS commands
 - it takes some effort to retrieve the data

Thank you!

You are also welcome to attend a **lecture about Research data management** and **Open publishing** on **December 6th**. The data management lecture will be given by experts from Central Technical Library of the University of Ljubljana.

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