One Year of the SPOZNAJ Project

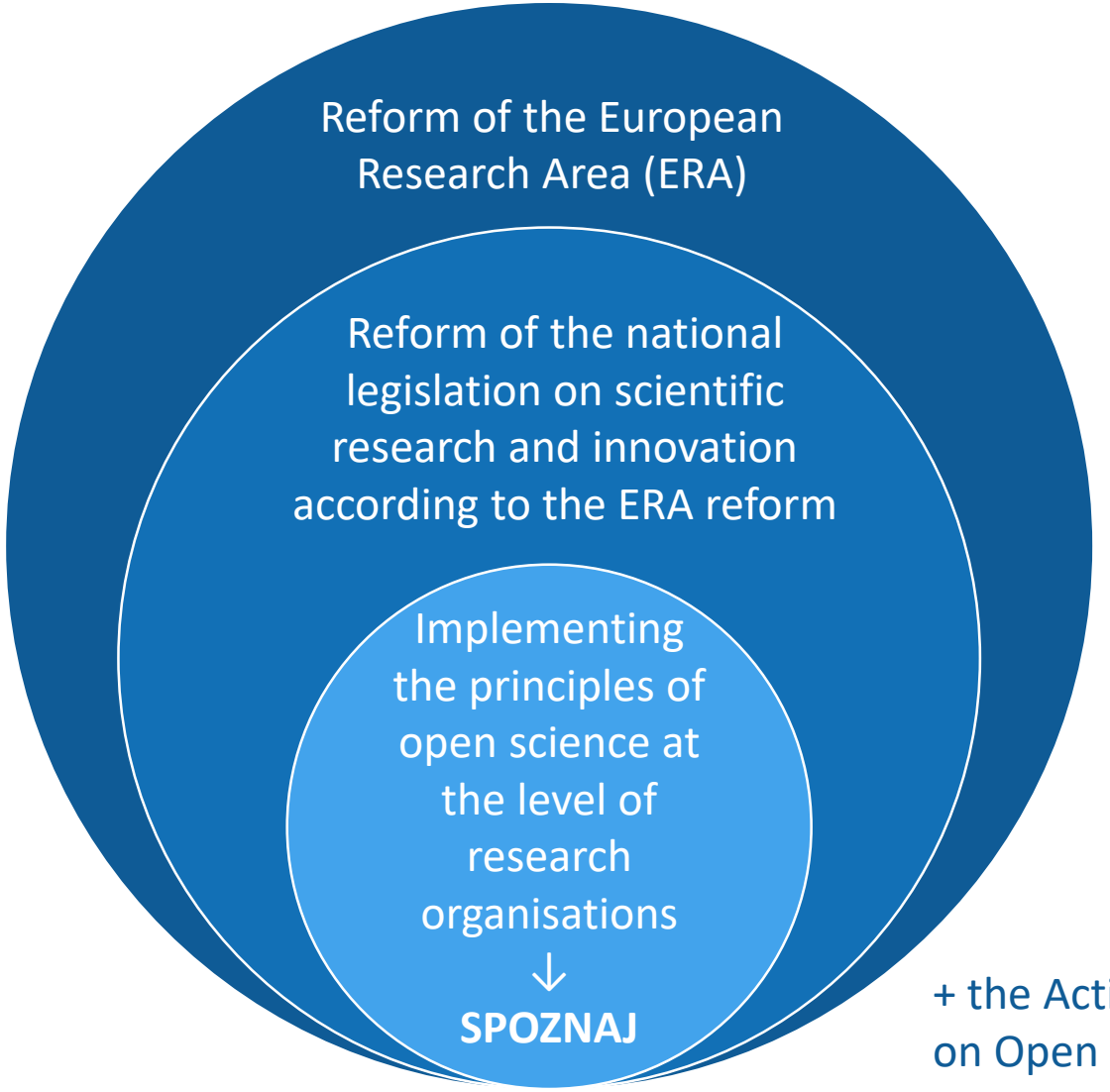
CTK, Ljubljana, 13 November 2024

dr. Tea Romih
Central Technical Library at the University of Ljubljana
ORCiD: 0000-0003-2092-4844

CC BY

Financira Evropska unija NextGenerationEU
NOO NAČRT ZA OKREVANJE IN ODPORNOST
REPUBLIKA SLOVENIJA MINISTRSTVO ZA VISOKO ŠOLSTVO ZNANOST ON INOVACIJE
SPOZNAJ
PODPORA PRI UVAJANJU NAČEL ODPRTE ZNANOSTI V SLOVENIJI

Three Levels of Open Science Implementation in Slovenia



+ the Action Plan on Open Science

Basic Information

Project duration:

1 May 2023 - 30 June 2026

Total funding:

EUR 4.031.728,66

- NOO: EUR 3 999 994,81
- VAT: EUR 31 733,85

Consortium partners: 20 Slovenian public research organisations and CTK

The SPOZNAJ project is co-funded by the Republic of Slovenia, the Ministry of Higher Education, Science and Innovation, and the European Union – NextGenerationEU through the national Recovery and Resilience Plan.

REPUBLIKA SLOVENIJA
MINISTRSTVO ZA VISOKO ŠOLSTVO, ZNANOST IN INOVACIJE

NAČRT ZA OKREVANJE IN ODPORNOST

Financira Evropska unija
NextGenerationEU

Partners

No.	Partner		
1	**Central Technical Library at the University of Ljubljana, coordinator**		
2	University of Ljubljana	12	National Institute of Chemistry
3	University of Maribor	13	Agricultural Institute of Slovenia
4	University of Primorska	14	National Institute of Biology
5	Faculty of Information Studies Novo mesto	15	Educational Research Institute
6	Geological Survey of Slovenia	16	Rudolfovo - Science and Technology Centre Novo mesto
7	Slovenian Forestry Institute	17	Urban Planning Institute of the Republic of Slovenia
8	"Jožef Stefan" Institute	18	Slovenian National Building and Civil Engineering Institute
9	Institute for Hydraulic Research, Ljubljana	19	Research Centre of the Slovenian Academy of Sciences and Arts
10	Institute for Ethnic Studies	20	Science and Research Centre Koper
11	Institute of Contemporary History	21	Science and Innovation Centre Pomurje

Did not join: Institute for Economic Research, Institute of Metals and Technology, Institute of Mathematics, Physics and Mechanics

Project Team

SPOZNAJ
PODPORA PRI UVAJANJU NAČEL ODPRTE ZNANOSTI V SLOVENIJI

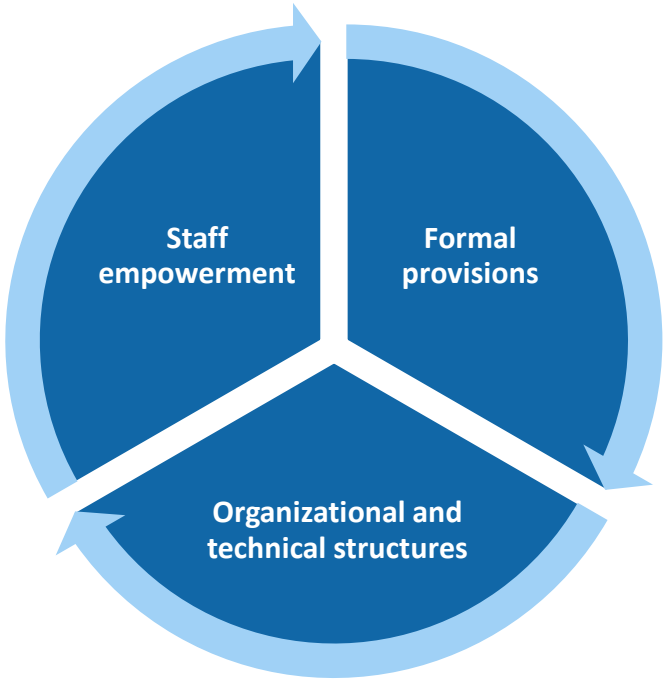
Followers

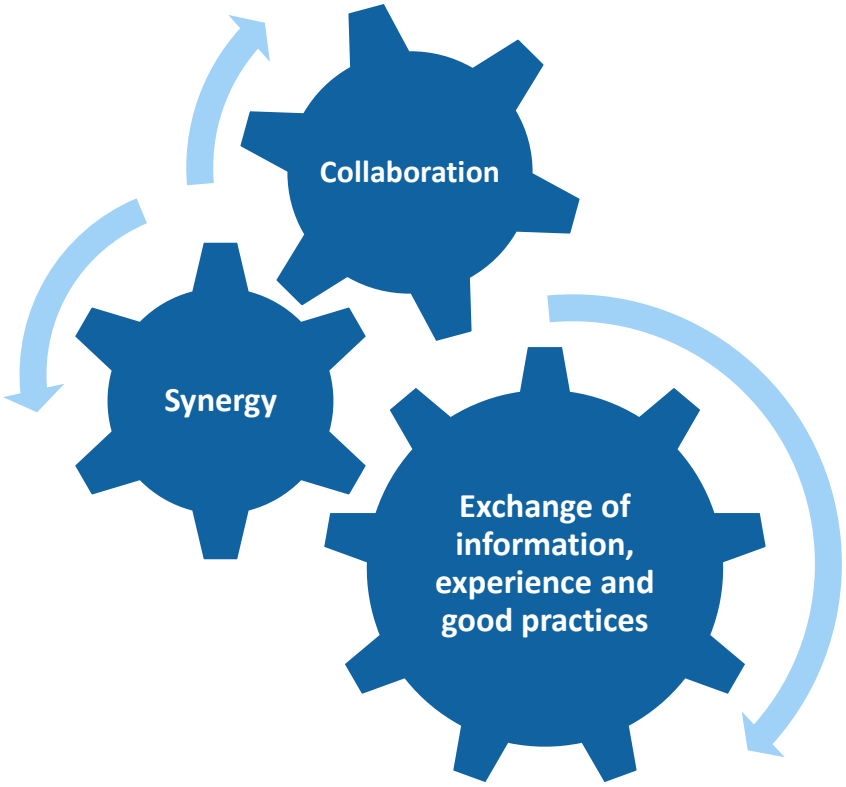
273 Slovenians and 7 foreigners in total

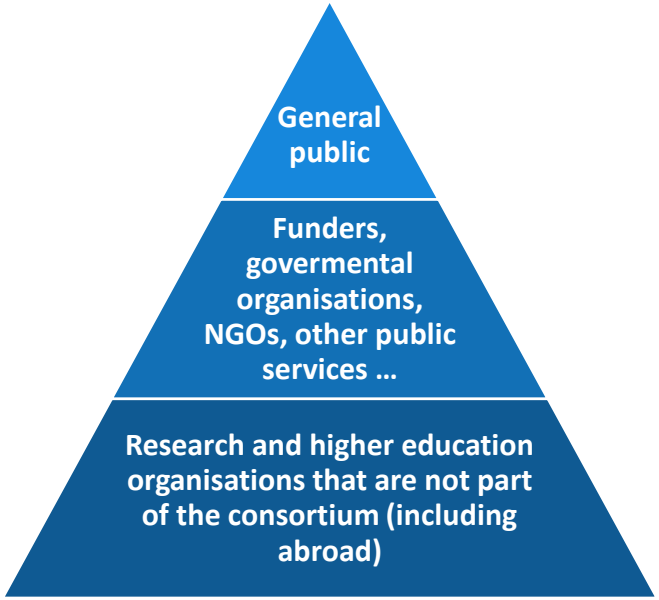
- Ministry of Higher Education, Science and Innovation (MVZI)
- Slovenian Research and Innovation Agency (ARIS)
- Academic and Research Network of Slovenia (ARNES)
- Institute of Information Science (IZUM)
- National and University Library (NUK)
- Central Judicial Library (CPK)
- Archives of the Republic of Slovenia (Arhiv RS)
- National Museum of Slovenia (NMS)
- National Education Institute Slovenia (ZRSŠ)
- National Institute of Public Health (NIJZ)
- National Laboratory of Health, Environment and Food (NZLOH)
- Institute of Oncology Ljubljana (Onko-I)
- University Clinic of Respiratory and Allergic Diseases Golnik (Klinika Golnik)
- University of Nova Gorica (UNG)
- University of Novo mesto (UNM)
- New University (Nova univerza)
- Alma Mater Europaea
- School of Advanced Social Studies (FUDŠ)
- Faculty of Organisation Studies Novo mesto (FOŠ)
- International School for Social and Business Studies Celje (MFDPŠ)
- Faculty of Polymer Technology Slovenj Gradec (FTPO)
- Faculty of Design (FD)
- Slovenian Institute of Hop Research and Brewing (IHPS)
- Institute for Development and Strategic Analysis (IRSA)
- Institute for Research, Development and Strategies of Society, Culture and Environment (IRRIS)
- Slovene Research Institute, Trieste (SLORI)
- Open Data and Intellectual Property Institute (ODIPI)

and others … including the University of Tokyo, TU Delft, 2 Ukrainian universities, NWO & EIFL ☺

Project's Purpose







At the level of the consortium partners

At the level of the consortium

Outside the consortium

Goals

Education and awareness	Personnel and infrastructure	Formal provisions	Implementation of the adjustments	Evaluation of the adjustements
• Website, newsletter • PR activities • General lectures for the consortium partners and the general public • Printed and online handbook • Specialized training for data stewards	• Recruitment of new support staff • Organisational changes • Inter-institutional support group • Institutional records of research and data • Local servers • Digital resources and tools	• Rules on sharing research results according to the FAIR principles • Rules on publishing in open access • Rules on research data management • Rules on the involvement of citizens in research work • Rules on research assessment practices	• Plans for adjustements • Adopted and supplemented legal acts • Infrastructure adjustments • Establishing support structures • Staff empowerment	• Development of the methodology for evaluating the success of adjustments • Evaluation of project results regarding content, time and finances • Comparison between the partners

Work Packages

WP 1 (CTK): Consortium management and coordination

WP 2 (CTK): Raising awareness, promotion and communication of the consortium's activities

WP 3 (CTK): Conducting trainings on open science practices and on sharing research according to FAIR principles

WP 4 (CTK & UKM): Preparation and implementation of dedicated trainings for operation according to the principles of open science

- WP 4.1 Defining profiles of support professionals and creating a catalogue of competencies
- WP 4.2 Creation of the data professionals training program and creation of handbooks
- WP 4.3 Implementation of the data professionals training
- WP 4.4 Establishment of a group of supporting experts/coordinators to support the project partners' staff and other interested parties in training and implementation of open science

WP 5 (ADP UL): Preparation and distribution of an open science handbook with an emphasis on research data management

WP 6 (NIB & UKM): Comprehensive adaptation of open science operations and evaluation of results of consortium partners

- WP 6.1 Analysis of business/organisational models of support structures to open science from the perspective of the needs of individual consortium partners and preparation of recommendations
- WP 6.2 Open science adaptation plan and pilot introduction of major adjustments
- WP 6.3 Preparation of internal organisational and other regulations, documents, policies
- WP 6.4 Implementation of adjustments
- WP 6.5 Evaluation of adjustments

Done So Far

WP 1

- Established the consortium
- Shared document storage and communication tools
- Up-to-date records
- Regular meetings (consortium and thematic)
- 1st review meeting
- Successful 1st & 2nd semi-annual reporting

WP 2

- Website
- Newsletter
- PR activities
- Video archive
- Direct contacts with interested stakeholders
- 1st and 2nd national event
- In progress: permanent archiving of consortium materials in DiRROS

WP 3

- **>40 project presentations** to cons. partners' staff and external stakeholders
- **22 expert presentations** for the general audience (archived on Arnes Video), with SI and EN subtitles

WP 4

- Catalogue of competences for data experts
- **Programme** of specialised training for data experts **finished,** lecturer s **recruited**

The training began on 23 September

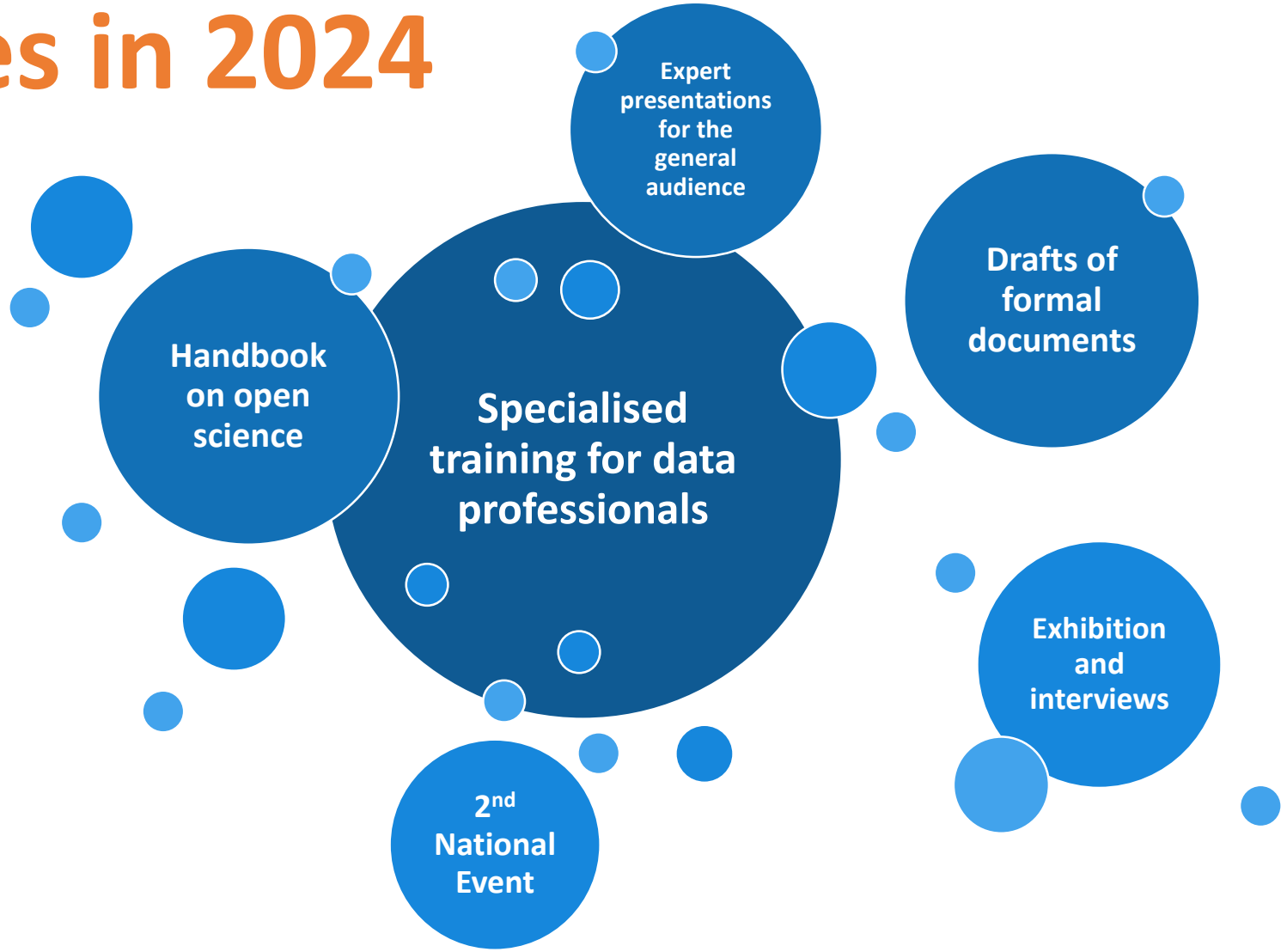
WP 5

- Printed user handbook on open science in **published in digital form**, physical copies currently **in print**

WP 6

- All consortium partners prepared an **analysis of the situation at their institutions**
- In progress: **drafts of formal documents**

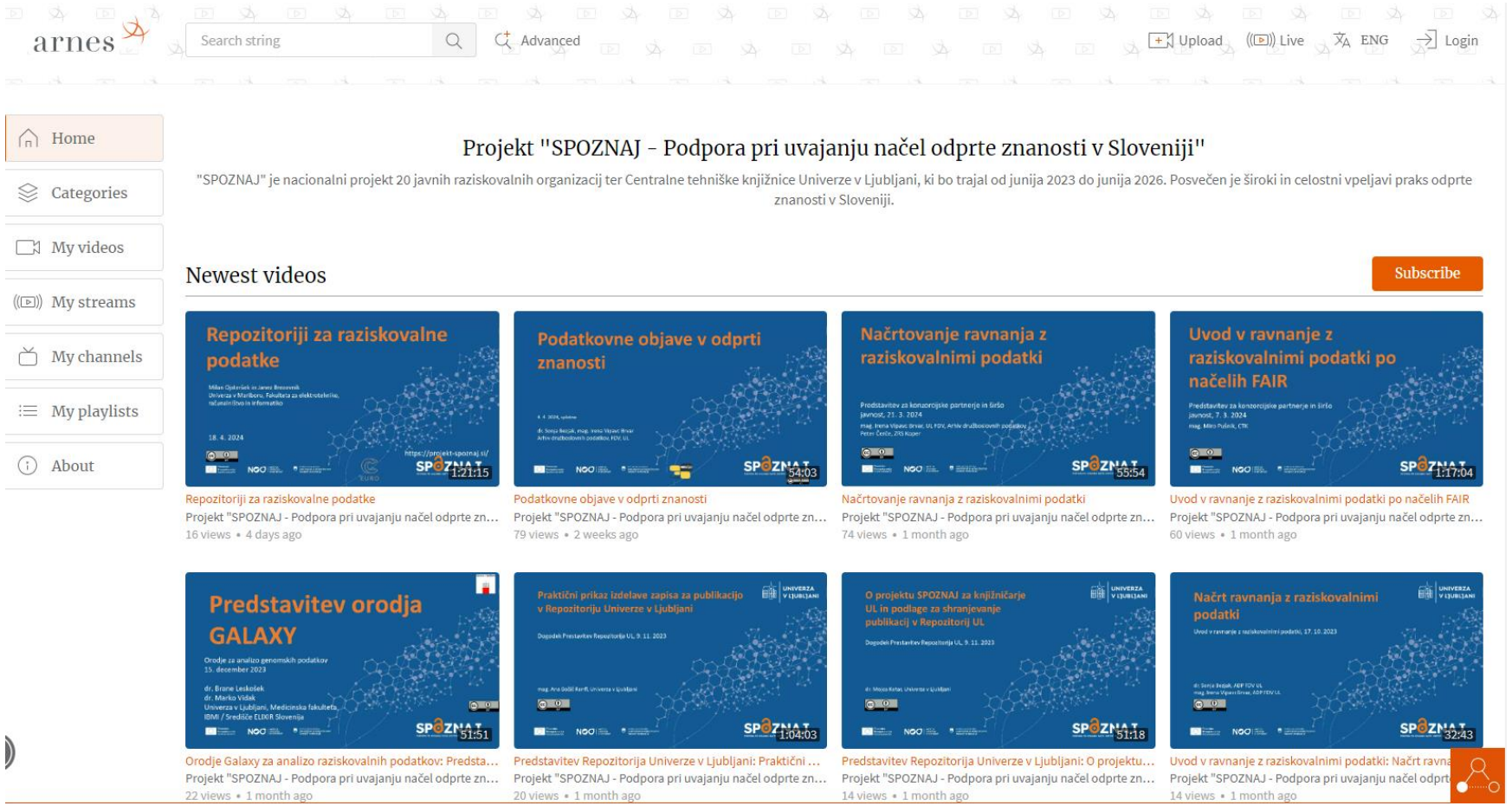
Priorities in 2024



Expert presentations for the general audience

1. **Open science in the European Research Area** (23 June 2023)
2. **Open science in the European Research Area, iterative** (7 September 2023)
3. **National open science legislation** (14 September 2023)
4. **Slovenian Open Science Community** (21 September 2023)
5. **Possibilities and advantages of open publishing for the Slovenian academic community** (28 September 2023)
6. **Open Research Europe, a platform for open publication**s (12 October 2023)
7. **Untrustworthy publishing practices** (19 October 2023)
8. **Fundamental principles of the operation of the cOAlition S** (19 October 2023)
9. **ARNES' services in support of open science** (19 November 2023)
10. **National open science infrastructure** (7 December 2023)
11. **European Open Science Cloud (EOSC)** (11 January 2024)
12. **How to use a supercomputer?** (25 January 2024)
13. **Introduction of the research assesment system at the University of Ljubljana** (1 February 2024)
14. **Introduction to research data management according to the FAIR principles** (7 March 2024)
15. **Planning research data management** (21 March 2024)
16. **Data publications in open science** (4 April 2024)
17. **Repositories for research data** (18 April 2024)
18. **eGeologija – Spatial data infrastructure of the Geological Survey of Slovenia** (16 May 2024)
19. **The GeoNetwork platform for multidisciplinary karst (meta)data** (30 May 2024)

ARNES Video Archive



Handbook on open science (TOC)

1. The development of the concept of open science and its fundamental principles
2. Provisions on open science in Slovenia
3. The life cycle of research in open science
4. Documenting research results
5. Compliance of research results with the FAIR principles
6. National open science infrastructure
7. Open licences
8. Research results in open science
9. Open peer review
10. Citizen science

Authors:

- dr. Sonja Bezjak (Social Science Data Archives)
- Peter Čerče (Science and Research Centre Koper)
- Ana Fidler (Central Technical Library)
- dr. Mojca Kotar (University of Ljubljana)
- mag. Dunja Legat (University Library Maribor)
- dr. Brane Leskošek (University of Ljubljana, ELIXIR-SI)
- mag. Miro Pušnik (Central Technical Library)
- mag. Irena Vipavc Brvar (Social Science Data Archives)
- dr. Anže Županič (National Institute of Biology)

https://zalozba.upr.si/spoznaj-fair-prirocnik-o-odprti-znanosti-v-sloveniji/

Data Professionals Training Programme

- Fundamentals of open science
- Formal basis of data curation and data stewardship
- Organisation of training courses for researchers
- Ethics, integrity and legal aspects of open science
- Open science infrastructure
- The life cycle of research data
- Planning research data management
- Specific research data management topics for particular scientific fields
- Tools for working with data
- Workshops

Estimated 72 hours (four blocks of four days/six hours each).

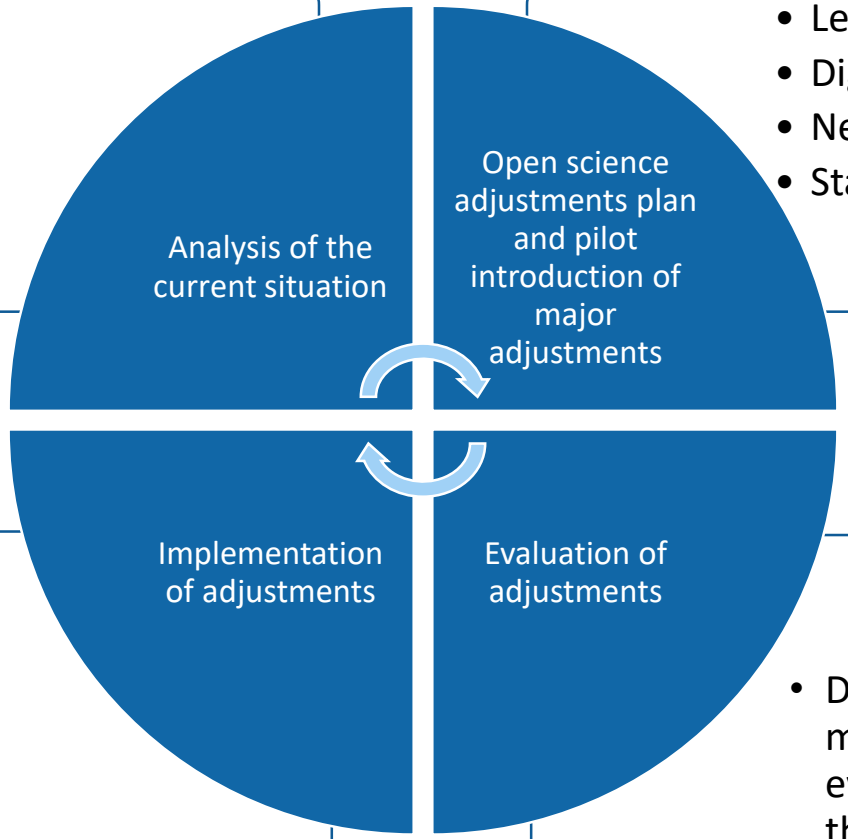
Lecturers from within the consortium and from elsewhere, including from abroad.

Currently **around 30 participants** from the consortium partners and **around 90 participants** from outside the consortium (for the first series only!).

Due to high interest, we will have to **repeat the training at least once** (presumably in the spring of 2025).

Institutional Adjustments

- Self-evaluation



- Legal acts
- Digital infrastructure
- New occupational roles
- Staff empowerment

- Legal acts adopted
- Infrastructure adjustments finalised
- Supporting structures established

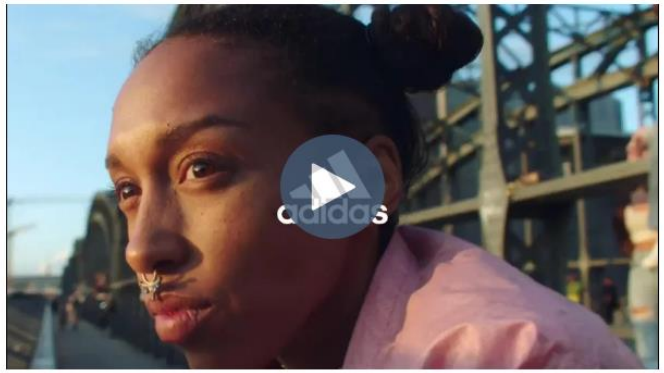
- Development of a methodology for evaluating the success of the adjustments

Exhibition: Featuring Slovenian Trendsetters

>|o VOLUMENTAL

Products Customers Company Policy Contact **Book a demo**

Share



Insights Fuels Development

An all-women team of designers and product developers worked closely with the adidas running community and testers to create the new model. **As part of their research and development efforts,** the team tapped into women-specific footwear insights using the study that was based on 1.2 million foot scans, conducted and analyzed by footwear and technology researchers Jurca, Žabkar & Džerosk in 2019. The highly informative study was led by **Ales Jurca, VP of Research at Volumental**, the worldwide leader in 3D foot scanning technology.

Search over **452** data sets, services and maps, ...

Išči...

GeoZS Geološki zavod Slovenije

Browse resources

Article 268 · Dataset 138 · Service 30 · Report 12 · Map 4

Browse by field

Hydrogeology · Geochemistry · Geothermics · Geophysics · Mineral resour... · Engineering g... · Regional geol... · Geohazard

eGeologija

eGeologija web portal is designed to improve the availability and accessibility of geological data. It enables the public to access the geological data in one place through the use of modern e-services.

The main purposes of the web portal **eGeologija** are inventory and collection of datasets in the field of geology (data catalog) and their availability through different browsers and web services.

How to cite.

Map viewers

Basic geological map of Slovenia 1:100.000 *Map viewers*

Borehole map viewer *Map viewers*

Rudarska knjiga *Map viewers*

2nd National Event

- **Venue:** ZRS Koper
- **Date:** 10 October 2024
- **Underlying theme:** research data
- Speakers:
  - **mag. Aleš Veršič** (certified data steward)
  - **dr. Liz Guzman Ramirez** (TU Eindhoven)
  - **dr. Liise Lehtsalu** (Research Data Alliance)
  - **dr. Till Kreutzer** (iRights.Law)
  - Introductory speech: **prof. dr. Rado Pišot**, director of the ZRS Koper
  - Introductory speech: **prof. dr. Boštjan Golob**, rector of the University of Nova Gorica
  - Introductory speech: **dr. Jerneja Jug Jerše**, Head of the Representation of the European Commission in Slovenia
  - Introductory speech: **dr. Tomaž Boh**, Ministry of Higher Education, Science and Innovation
  - Introductory speech: **Mojca Štruc**, Ministry of Digital Transformation

Simultaneous interpreting!

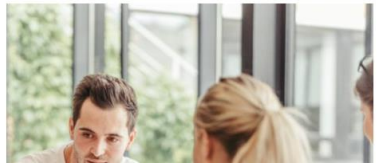
More Information

Project website:
https://projekt-spoznaj.si

Newsletter subscription (in English):
http://eepurl.com/iuwA5c

Video archive:
https://video.arnes.si/en/?channel=9lcqz6j71lg7

E-mail:
noo.spoznaj@ctk.uni-lj.si



O PROJEKTU

Namen projekta je uvesti načela odprte znanosti v znanstvenoraziskovalno delo

SPOZNAJ

PODPORA PRI UVAJANJU NAČEL ODPRTE ZNANOSTI V SLOVENIJI

Centralna tehniška knjižnica Univerze v Ljubljani
Central Technical Library at the University of Ljubljana
Trg republike 3, SI-1000 Ljubljana
Slovenija / *Slovenia*

Thank you for your attention!