

REPORT

TRAINING: DATA MANAGEMENT AND OPEN SCIENCE IN THE HORIZON EUROPE PROGRAM

University of Novi Sad, Faculty of Technology Novi Sad (TFNS) Novi Sad, Serbia

February 17 and 21, 2023

Training “Data Management and Open Science in the Horizon Europe Program” was organized within TwiNSol-CECs project (101059867) as a two-day event in Serbian on February 17 and February 21, 2023, at the Faculty of Technology Novi Sad, University of Novi Sad, Serbia. The Training was organized through theoretical and practical sessions held by experts with significant experience in the EU-funded projects:

- Prof. Dr. Vesna Mandić, Full Professor at the Faculty of Engineering at the University of Kragujevac, who has over 30 years of experience in the education sector and 17 years of experience in writing and implementing EU-funded projects, being the coordinator of 16 international projects and a partner in 3 EU projects from various EU programs (FP6 EUREKA IPA SEE, ERASMUS+, TEMPUS, etc.), and
- Gordana Vlahović, MSc, Head of International Affairs at the University of Novi Sad, Faculty of Sciences since 2007, and National Contact Point for Horizon Europe ERC and Marie Skłodowska Curie Actions (previously in H2020 and FP7)

As the number of participants was limited with the available premises for practical lessons, there were 29 participants during the first day and 33 during the second day, who all signed the attendance lists. Participants were members of the TwiNSol-CECs team (14 participants), employees of the Faculty of Technology in Novi Sad, who are not members of the TwiNSol-CECs team (13 participants), but also guests from other institutions belonging to the University of Novi Sad: Faculty of Sciences (3 participants), University of Novi Sad (1 participant), EUTA Training Academy (1 participant) and Institute of Field and Vegetable Crops, National Institute of the Republic of Serbia, Novi Sad (1 participant). Prior the signing of Attendance list, participants were informed that by signing the list the permission and consent to TwiNSol-CECs team for the use of the photo(s) made during the Training is granted, but they were also informed that it is possible to tick the option that their photos should not be used.

The start of the Training was on Friday, February 17, at 10:00 am in the Faculty of Technology's Meeting Hall at the Deanery. On the first day, Training lasted from 10 am to 3 pm, and on the second day (February 21) Training lasted from 10 am to 4 pm.

Training participants had the opportunity to gain theoretical knowledge about:

- ❖ What are the basic principles and practices of Open Science
- ❖ Differences compared to Horizon 2020 (2014-2020)
- ❖ How to address Open Science in the Horizon Europe project proposal
- ❖ What are the contractual obligations and requirements regarding Open Science and Data Management
- ❖ How to respond to requests to fulfill the FAIR principle
- ❖ How to ensure the necessary open access to scientific publications
- ❖ How to meet the requirements for research data management and open access
- ❖ What are the criteria for sourcing reliable repositories for research data
- ❖ How to write a Data Management Plan (DMP) and what are the differences compared to H2020

Also, the following practical exercises were conducted:

- ❖ Selection of one of the offered repositories and initial familiarization with the possibilities
- ❖ Verification of the FAIR principles of the selected repository
- ❖ Checking the OA status of the selected journal
- ❖ FAIRification process of research data

Training Program and Agenda are given in Annex I of the Report.

At the end of the Training, the participants had the opportunity to rate the lecturers, point out what they liked the most and what they didn't like, as well as what topics they would like to hear more about. The questionnaire and the gathered data are presented in Annex II of the Report.

Selected photos took during the Workshop sessions were available in Annex III of the Report.

Annex I

Program and Agenda of Training on DATA MANAGEMENT AND OPEN SCIENCE IN HORIZON EUROPE PROGRAMME

Day I, February 17 2023

Trainer: Prof. Dr. Vesna Mandić

10:00 – 10:45 Principles of Open Science in HE

- Open Science (OS) - a new approach to the scientific process based on open cooperative work with tools and spread in science
- Research Data Management (RDM) - the emphasis in the HE program is shifting from open data to managed research data
- Basic principles of OS in HE - open access to scientific publications, management of research data, additional OS practices (validation of scientific publications and emergency situations)
- How to address OS in the HE project proposal

11:00 – 12:00 Contractual obligations and requirements for OS and RDM (Grant Agreement – Art

- Data Management Plan (DMP) in accordance with FAIR
- Requirements for the storage of e-research data
- Persistent identifiers (PIDs)
- Licensing conditions
- Validation requests
- Metadata requests

12:00 p.m. -12:30 p.m. Lunch Break

12:30 -13:15 Practical exercise 1 - Choosing one of the offered repositories

13:15 – 14:15 FAIR principles (Findability, Accessibility, Interoperability and 'ity')

- What are research outputs?
- Interpreted FAIR principles
- How to meet the requirements for fulfilling the FAIR principle
- Examples

14:15 – 15:00 Practical exercise 2 - Checking the FAIR principle of the selected repository

Day II, February 21

10:00 – 11:00 Horizon Europe 2021-27

Trainer: Gordana Vlahović, MSc

- Presentation of the Horizon Europe program
- Overview of open and announced calls for 2023

11:00 - 12:00 Open access to scientific publications

Trainer: Prof. Dr. Vesna Mandić

- Publication of scientific publications (machine-readable electronic copy)
- Depositing publications in reliable repositories
- Licenses and tools for open access to deposited publications
- Examples of non-commercial trusted repositories and open access tools

12:00 – 12:30 Practical exercise 3 - Checking the OA status of the selected journal

12:30 – 13:00 Break

13:00 – 14:00 Research Data Management

Trainer: Prof. Dr. Vesna Mandić

- Principles of RDM
- Metadata and standards
- Criteria for choosing reliable repositories for storing and sharing research data
- Long-term storage of data
- Necessary resources for sustainably managed data in accordance with FAIR principles

14:00 – 14:45 Practical exercise 4 – FAIRification process of research data

14:45 – 15:45 Research data management plan (Data Management Plan)

Trainer: Prof. Dr. Vesna Mandić

- Data description, collection and reuse of existing data
- Methodology for collecting new research data, organization and quality control
- Data storage and preservation during the research cycle (project)
- Compliance with contractual and ethical requirements, codes, intellectual property rights, etc.
- Conditions of disclosure and sharing of data, long-term storage
- Checking compatibility with FAIR requirements
- Examples of DMPs

Annex II

Questionnaire on the Training organization

ANKETNI UPUTNIK ZA POLAZNIKE TRENINGA ZA UPRAVLJANJE ISTRAŽIVAČKIM PODACIMA I
OTVORENU NAUKU NA HORIZON PROJEKTIMA, ODRŽAN 17 I 21. FEBRUARA 2023. GODINE

Red. br.	Karakteristike treninga	Ocene				
		1	2	3	4	5
	Molim Vas ocenite ukupan kvalitet predavača davanjem ocena od 1-5 (ocena 1 - loše, 2 - zadovoljavajuće, 3 - dobro, 4 - vrlo dobro i ocena 5 - odlično)					
1.	Gordana Vlahović					
2.	Prof. Vesna Mandić					

Molim Vas da kratko odgovorite na sledeća pitanja i prokomentarišete održan trening

Da li je trening bio koristan i da li možete da primenite stečena znanja?	
Šta Vam se dopalo na treningu?	
Šta Vam se nije dopalo na treningu?	
Koje druge teme biste želeli da čujete?	
Da li imate predloge i sugestije za unapređenje kvaliteta treninga?	

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Assessment of the completed questionnaires

Total of 22 participants have completed the questionnaires after the Training. Questionnaires included evaluation of both lectures and introduced topics. All of the participants rated the lecturers with the highest marks (5/5) and rated the Training as very useful and applicable. They particularly liked the fact that they received a large amount of the latest information on Horizon Europe



programme and obligatory elements within the financed projects, and gained practical experience that they will be able to apply in their future work. Practical aspect of the Training was especially welcomed by the participants according to the completed questionnaires. However, there were several other topics which participants found interesting but were not the subject of corresponding Training, such as: preparation and calculation of a specific Horizon project budget as well practical exercises for Project proposal preparation (specifically targeting excellence and novelty of the application). Participants were interested in both Twinning Widening calls and MSCA calls. Concerning the project implementation topics, Training participants would like to know more about writing different reports, Communication and Dissemination Plan.

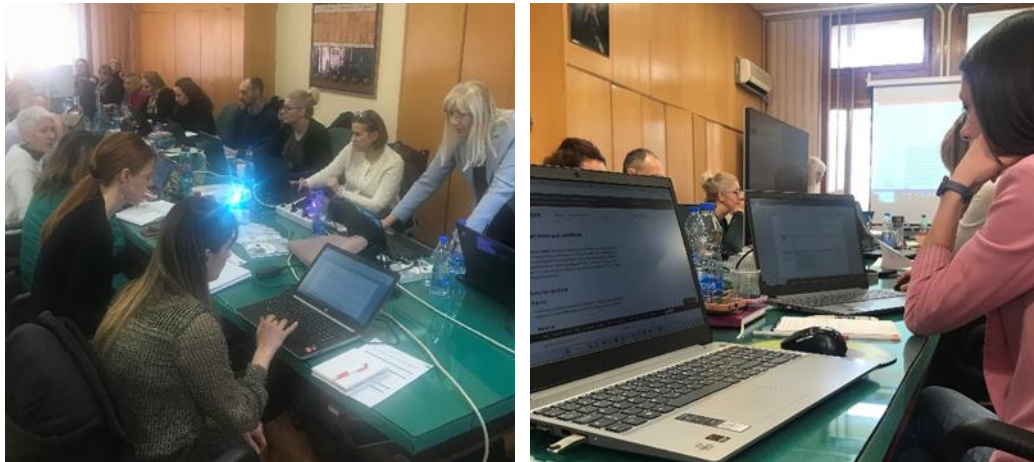
Annex III
Selected photos during the Training on Data Management and Open Science in Horizon Europe Programme



Prof. Dr. Nataša Đurišić Mladenović welcomes participants and lecturers



Lecture of prof. Dr. Vesna Mandić on the first day of Training



Practical exercises during the Training



Lecture of Gordana Vlahović (left) and Prof. Dr. Vesna Mandić (right) on the second day of Training



Coffee/refreshment break during the Training

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