



# ENEN2PLUS MOBILITÁSI PROGRAM

Csilla Pesznyak

# ENEN - European Nuclear Education Network Európai Nukleáris Oktatási Hálózat



- STÁTUS: ENEN nemzetközi non-profit szervezet 20 éves tapasztalattal.
- MISSIÓ: Új nukleáris tehetségek vonzása, a szakértelem megőrzése és továbbfejlesztése az oktatás és képzés, valamint a nukleáris technológiák biztonságos, versenyképes és fenntartható használatát támogató, kultúrák közötti és interdiszciplináris tevékenységek által.
- TAGSÁG: 89 tag 25 országból - 58 egyetem, 10 kutató központ, 9 cég/TSO és 15 nemzetközi szervezet (MoU).
- SZAKTERÜLETEK:
  - atomenergia, nukleáris technika, biztonság, biztosítékok, menedzsment,
  - radioaktív hulladékok kezelése és geológiai elhelyezése
  - sugárvédelem,
  - orvosi fizika,
  - radiokémia



# ENEN2plus – basic information

## Partners

- 1) 39 directly funded Partners
- 2) 51 partners in total, including International Organizations and extra EU Partners
- 3) Partners from: Europe, North America and Asia.

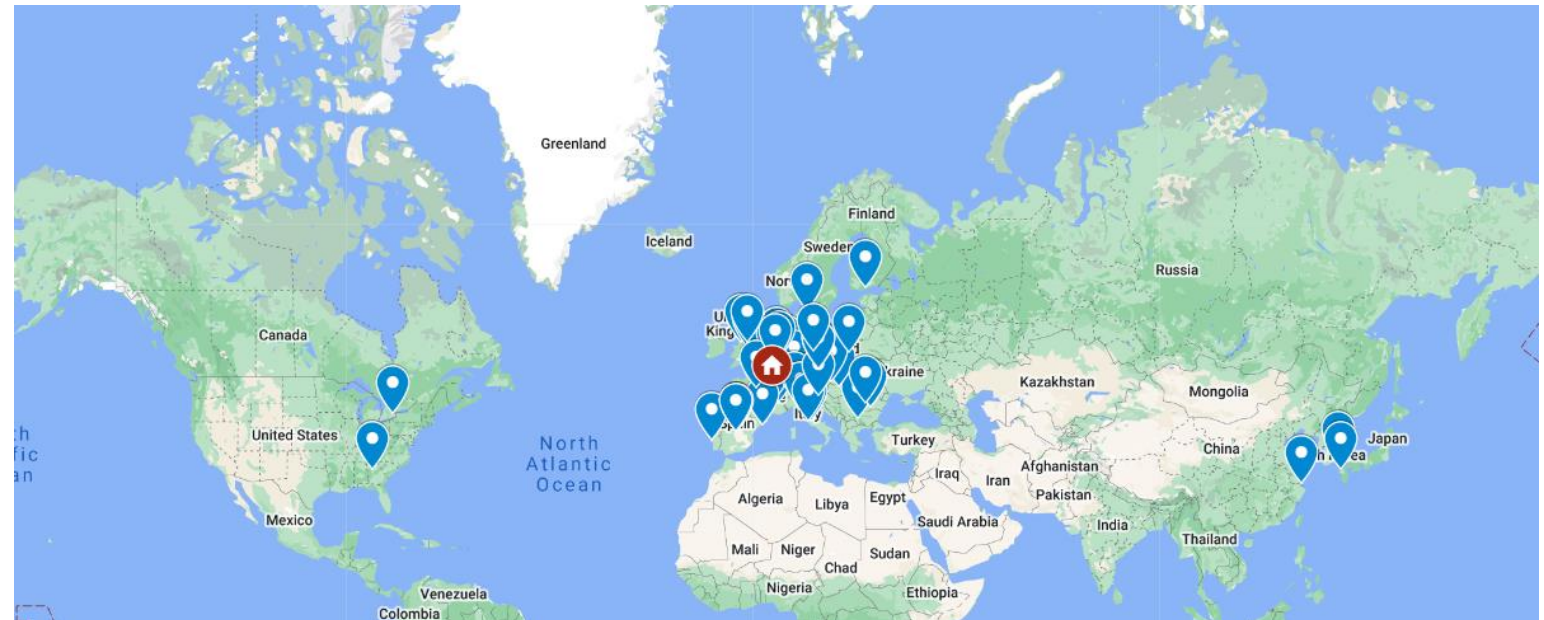
## Project structure

The project consists of eight (8) Work Packages (WP) including project and data management.

## Project budget

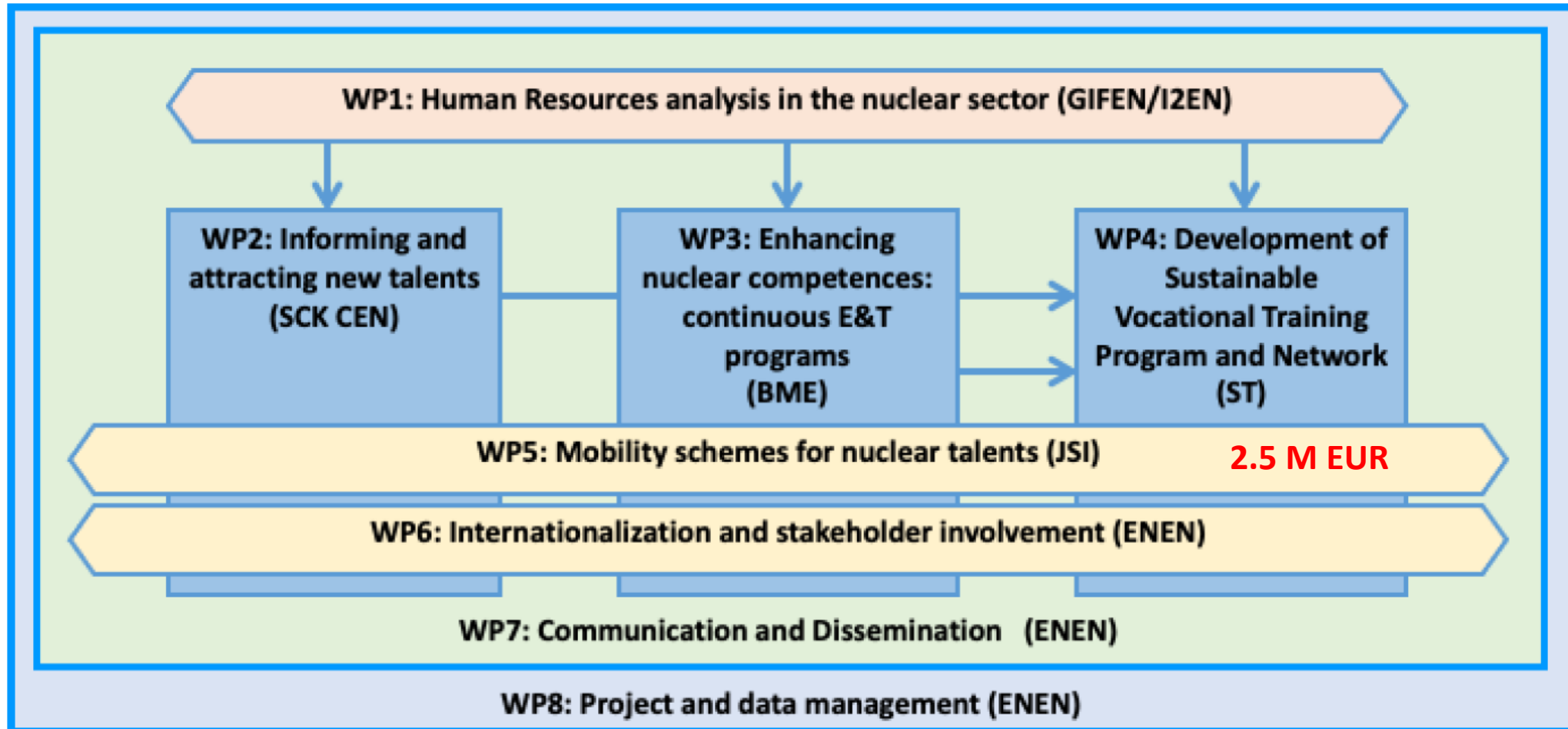
**Total estimated budget:** 7 156 423.75 EUR

**Maximum grant amount:** 6 819 707 EUR



Co-funded by the  
European Union

# ENEN2plus



## ENEN Activities: PhD Event & Prize

A PhD Verseny céljai:

- fórumot biztosítani a PhD hallgatók számára, hogy baráti, de versengő szellemben bemutassák kutatómunkájukat
- PhD hallgatók nukleáris területen végzett kutatómunkájának elősegítése
- hidat építeni a PhD hallgatók és a nukleáris területen dolgozó szakemberek között

Évente kerül megrendezésre az ENEN és a EC JRC szervezésében, és mindig valamilyen nemzetközi konferenciához kapcsolódik.

### 2023 EVENT

The Award Ceremony of the ENEN Prizes will be held during the ENYGF 2023 – European Nuclear Young Generation Forum 2023, organized by the ENS (European Nuclear Society) and the (PTN) Polish Nuclear Society, which will be held on 8-12 May 2023 in Krakow, Poland.





# ENEN2plus - III. EURÓPAI NUKLEÁRIS VERSENY KÖZÉPISKOLÁSOKNAK

**3rd EUROPEAN NUCLEAR  
COMPETITION FOR SECONDARY  
SCHOOLS**

*3-7 July 2023*

**Venue**  
**Budapest University of Technology and  
Economics, Budapest, Hungary**

**Competitors**  
Pupils currently enrolled in secondary schools in European  
States and their teachers.  
Each team consists of two pupils and one teacher.

**Task**  
Compose a 3-minute video related to nuclear science (e.g.  
nuclear energy, radiation protection, medical application,  
radioactive waste, etc.).

**Awards**  
A total amount of 7500 EUR will be granted at the  
competition.  
Nuclear science camp for finalists of the video  
competition.

**Registration**  
Registration and video upload via website  
<http://nuclearcompetition2023.enen.bme.hu>

**Video submission deadline  
17 April 2023**

**Nomination of 15 finalist teams  
10 May 2023**

**Contact**  
[nuclear.competition@reak.bme.hu](mailto:nuclear.competition@reak.bme.hu)



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# ENEN2plus - webinars

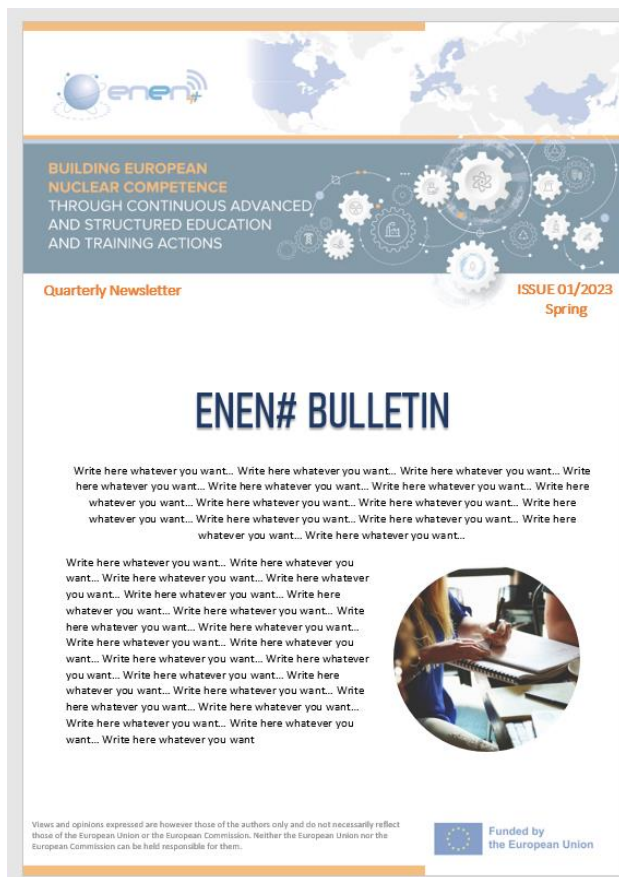
List of webinars for 2023:

<http://nucleare.ing.unipi.it/it/webinars/webinars-2022-2023>

Date (Friday)	Lecturer	Institution and Country	Starting time (Italy)	Webinar Title
10 February 2023	Gabriel PAVEL, Roberta CIRILLO	ENEN, Belgium	15:00	Supporting career paths in the nuclear fields
17 February 2023	Jadwiga NAJDER and Patricia SCHINDLER	ENS-YGN and Women in Nuclear	15:00	Climate science, solutions and action: nuclear technologies in support of UN Sustainable Development Goals
24 February 2023	Alessandro PETRUZZI	NINE, Italy	15:00	NINE R&D projects
<b>03 March 2023</b>		<b>GENERAL ASSEMBLY OF ENEN</b>		
10 March 2023	David NOVOG	McMaster University, Canada	15:00	The Silver Bullet Syndrome: Action and Inaction on Low Carbon Energy
17 March 2023	Daniel FREIS	JRC Karlsruhe, Germany	15:00	Radioisotope Power Systems for Exploratory Space Missions
24 March 2023	Juha POIKOLA	TVO, Finland	14:30	Olkiluoto 3 - The greatest single act for the climate in Finland
24 March 2023	Bogdan BUHAI	Framatome GmbH, Germany	16:00	SIMULATORS FOR VALIDATION AND OPERATOR TRAINING
31 March 2023	Mark ANDERSON	University of Wisconsin	15:00	TBD - (CHF and re-wetting on ATF cladding materials)
<b>07 April 2023</b>		<b>MERRY EASTER VACATIONS !</b>		

<b>07 April 2023</b>		<b>MERRY EASTER VACATIONS !</b>		
14 April 2023	Donato LIOCE	ITER ORGANIZATION	15:00	The ITER Tokamak Cooling Water System
21 April 2023	Sergio CIATTAGLIA	EUROFUSION	15:00	TBD
21 April 2023	Johanna HANSEN	Posiva, Finland	16:30	Spent Nuclear Fuel Management in Finland
28 April 2023	Mariano TARANTINO	ENEA - Italy	15:00	LFs Overview Worldwide
05 May 2023	Alice D'ONOFRIO	CZTN - Portugal	16:00	Radiopharmaceuticals: How to Exploit Radioactivity for Health Applications
12 May 2023	Armando NAVA	Canadian Nuclear Laboratories	15:00	TBD
19 May 2023	Carlo PARISI	Idaho National Laboratory - USA	15:00	TBD
26 May 2023	Titus TIELENS	NRG   Pallas	15:30	The PALLAS reactor for future medical isotope production and energy research
<b>02 June 2023</b>		<b>NATIONAL HOLIDAY IN ITALY</b>		
09 June 2023	Shuisheng HE	University of Sheffield - UK	15:00	TBD
16 June 2023	Mariano TARANTINO	ENEA - Italy	15:00	Space Nuclear Reactors: Status & Perspectives
23 June 2023	Govert de WITH	NRG PALLAS	15:00	Radiological impact of contaminated seawater near Fukushima
30 June 2023	Sergio ORLANDI	ITER ORGANIZATION	15:00	Lesson Learned on ITER Assembly and Installation
07 July 2023	Andrea ALFONSI	Ultra Safe Nuclear - USNC	15:00	USNC for space applications: From RTG to Nuclear propulsion systems
14 July 2023	Gianfranco CARUSO	Sapienza Università di Roma	14:00	Nuclear Desalination
21 July 2023			15:00	
28 July 2023	Luca ORIANI and Julie GORGEMANS	Westinghouse, USA	15:00	AP1000 Implementation, Operational Experience and Lessons learned

## ENEN2plus - WP3 – Bulletin



- Online tudományos/szakmai közlemények összeállítása, az egyes nukleáris szakmák és technológiai újdonságok bemutatása.
- Évente négy közleményt terveznek, az első közlemény áprilisban várható.
- Szeretettel várjuk az érdekes cikkeket, eseményeket, műsorokat, riportokat, interjúkat...

### Editorial board for online bulletin:

1. Walter Ambrosini – CIRTEN
2. Roberta Cirillo – ENEN
3. Csilla Pesznyak – BME
4. Chiara Telloli – ENEA
5. Jurgita Laurikaitiene – EFOMP
6. Stefan Cerba-STUBA
7. Enikő Koszta – BME - Technical editor



## ENEN2plus – nyári iskolák, továbbképzések, versenyek

	Partner	Topic	Year	Comments	
1	UPM	Summer School - nuclear engineering	2022	BSc in person	
2	BME				
3	UHEL	1 CHALMERS	Deterministic modelling of nuclear system	2023	blended
4	ENEA	2 IST			
5	NPI	3 SCK CEI	1 STUBA	BSc and MSc competitions and summer camps I.	2024
6	UNIVLEEDS	4 UNIVLEEDS	2 BME	BSc and MSc competitions and summer camps II.	2025
7	EFOMP	5 KIT	3 ENEN	PhD competition	2023
8	KIT		4 ENEN	PhD competition	2024
			5 ENEN	PhD competition	2025
			6 ENEN	PhD competition	2026

# ENEN2plus – MOBILITÁSI PROGRAM

<https://enen.eu/index.php/portfolio/enen2plus-project/>



Funded by the European Union



(Project Number: 101061677)

**DELIVERABLE D5.1**

**ENEN2plus (ENEN#) Mobility Manual**

Lead Beneficiary: JSI

Due date: 31/08/2021      Released on: 18/10/2022

<b>Authors:</b>	L. Cizelj (JSI), J. Starflinger (USTTUT), B Bazargan-Sabet (UL), M. Coeck (SCK-CEN), C. Pesznyak (BME), D. Visvikis (UB), T. Retegan Volmer (CHALMERS), F. Tuomisto (UH), G. L. Pavel (ENEN), A. Cagnac (EDF)	
<b>Approved by Lead Beneficiary</b>	<b>Reviewed by Work Package Leader</b>	<b>Approved by Coordinator</b>
Leon Cizelj, JSI	Leon Cizelj, JSI	Gabriel L. Pavel, ENEN

ENEN2plus – Deliverable 5.1  
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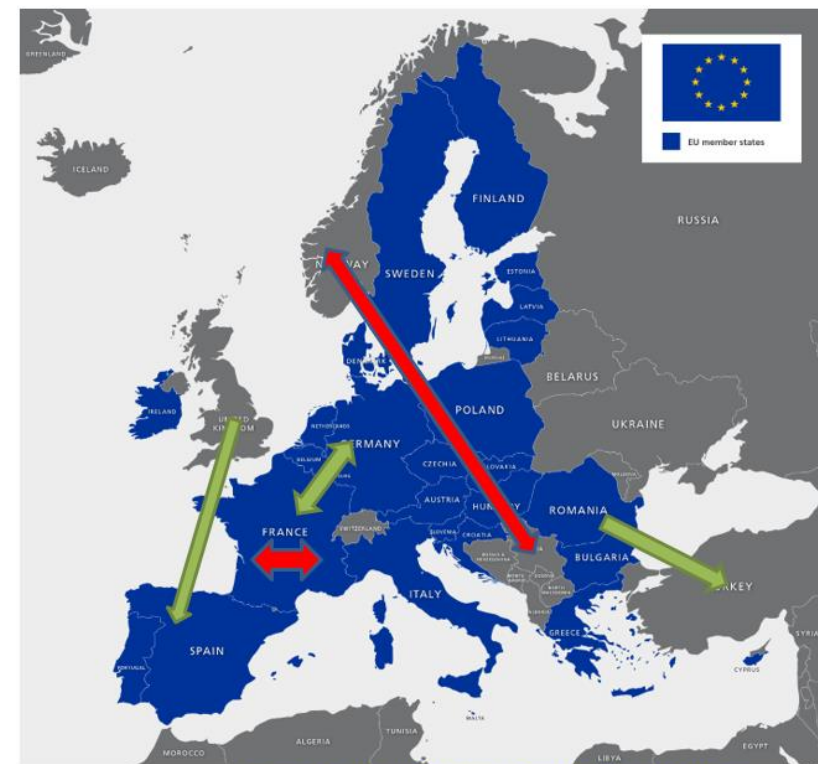
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# ENEN2plus – MOBILITÁSI PROGRAM

<https://enen.eu/index.php/portfolio/enen2plus-project/>

**Table 1 Groups of learners eligible to receive the ENEN# mobility grants**

Groups of mobility beneficiaries	Individual applications	Group applications
<b>High-school pupils</b>	No	Yes
<b>High-school teachers</b>	No	Yes
<b>B.Sc. students</b> (interested in pursuing a master education and/or a career in the nuclear fields)	Yes	Yes
<b>M.Sc. students in nuclear</b> interested in extracurricular experience and/or academic exchange such as the EMSNE certification by ENEN.	Yes	Yes
<b>Ph.D. students in nuclear</b> interested in academic and research exchange, access to research infrastructures and cooperation with Euratom research projects.	Yes	Yes <sup>3</sup>
<b>Post-docs in nuclear</b> interested in academic and research exchange, access to research infrastructures and cooperation with Euratom research projects.	Yes	Yes <sup>3</sup>
<b>Early career professionals</b> (up to 10 years of experience), interested in changing their careers to nuclear and/or building up their life-long learning on nuclear topics.	Yes	Yes <sup>3</sup>

**Table 3 Recommended mobility activities with recommended durations and participants**

Recommended activity	Recommended duration	Recommended participants
<b>Internships, On the job trainings</b>	1 - 6 months	All
<b>Study Exchange</b>	3 - 6 months	B.Sc., M.Sc. students
<b>Research Exchange</b>	3 - 18 months	M.Sc. and Ph.D. students, Post Docs
<b>Active participation in a research conference</b>	Up to 1 week	B.Sc, M.Sc and Ph.D students
<b>Training Course</b>	Up to 1 week 1 month or more for nuclearization <sup>5</sup> courses	All

**Table 7 Composition of the ENEN# Mobility Committee**

Nuclear topic	Committee Members
Nuclear engineering and safety	Prof. Leon Cizelj, Jožef Stefan Institute Prof. Joerg Starflinger, University of Stuttgart
Waste management and geological disposal	Prof. Behrooz Bazargan-Sabet, University of Loraine
Radiation protection	Dr. Michèle Coeck, SCK-CEN
Medical applications	Prof Csilla Pesznyak, BME Prof. Dimitris Visvikis, University of Brest
Radio chemistry	Prof. Theodora Retegan Vollmer, Chalmers
Nuclear materials	Prof. Filip Tuomisto, University of Helsinki
Other nuclear topics (i.e., safeguards)	Prof. Gabriel Lazaro Pavel, ENEN Ms. Albannie Cagnac, EDF



*Brüssel – 2023 Szeptember 21-22*

**20<sup>TH</sup> BIRTHDAY OF THE ENEN**



Köszönöm a megtisztelő figyelmet



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