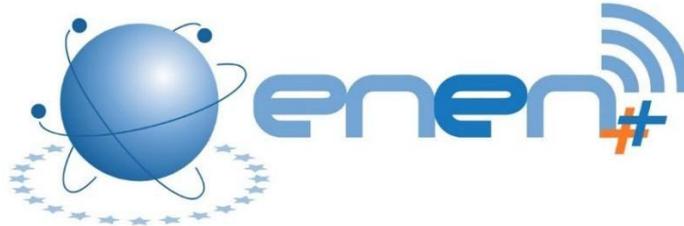




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DELIVERABLE D2.5

Report on the organization of the nuclear competitions

Lead Beneficiary: BME

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Authors:	Csilla Pesznyak (BME), Gabor Stelczer (BME), Barbara Ferrucci (ENEA), Jakob Luyten (SCK CEN)	
Approved by Lead Beneficiary	Reviewed by Work Package Leader	Approved by Coordinator
Csilla Pesznyak 	Jakob Luyten Signed by: <small>1787B1475D534C0...</small>	Pavel Gabriel

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EXECUTIVE SUMMARY

The ENEN2plus project, funded by the European Union, aims to strengthen and sustain nuclear education, training, and knowledge management across Europe. Deliverable D2.4 presents a comprehensive overview of the project's initiatives for the nuclear competition for secondary schools, which are designed to promote interest, excellence, and public engagement in nuclear science among the secondary school pupils and their teachers and parents.

To attract younger audiences, ENEN2plus organized video competitions in conjunction with nuclear science camps in Hungary (2023) and Italy (2025). These competitions engaged secondary school teams to creatively showcase nuclear applications through short videos. The finalists were invited to attend international science camps, where they presented their work. Across both years, nearly 200 submissions were received from over 20 countries, reflecting broad European and international interest.

The aim of all four European nuclear competition for secondary schools was to provide pupils with information about nuclear science and professions. Taking part in a nuclear competition is important for secondary school pupils because it exposes them to scientific and technological fields shaping the future. By exploring topics such as nuclear energy, radiation protection, medical applications, waste management and nuclear safety, students develop critical thinking, problem-solving skills, and a deeper understanding of how nuclear science and technology affects society. These competitions also encourage teamwork, creativity, and innovation, while helping students discover potential career paths. In addition, engaging with real-world challenges builds scientific literacy and empowers young generation to make informed decisions about global issues such as energy security, sustainability, medical applications and technological development.

Overall, the ENEN2plus nuclear competitions for secondary schools have demonstrated a robust and inclusive approach to advancing nuclear literacy and enhancing public engagement. By prioritizing visibility, impact, and resource efficiency, the project has made a substantive contribution to the long-term sustainability of nuclear education and to the cultivation of Europe's future nuclear workforce.

TABLE OF CONTENT

EXECUTIVE SUMMARY	3
1. INTRODUCTION	5
2. ENEN2PLUS NUCLEAR COMPETITIONS FOR SECONDARY SCHOOLS	6
2.1 VIDEO COMPETITION FOR NUCLEAR SCIENCE CAMP 2023, HUNGARY	6
2.2 VIDEO COMPETITION FOR NUCLEAR SCIENCE CAMP 2025, ITALY	15
3. SUMMARY	23
4. CONCLUSION	24
5. ANNEXES	25
5.1 ANNEX I FLYER 3 RD EUROPEAN NUCLEAR COMPETITION FOR SECONDARY SCHOOLS.....	25
5.2 ANNEX II FLYER 4 TH EUROPEAN NUCLEAR COMPETITION FOR SECONDARY SCHOOLS.....	26
5.3 ANNEX III EVALUATION SHEET VIDEO COMPETITION 2025.....	27
5.4 ANNEX IV EVALUATION SHEET VIDEO COMPETITION 2025 – PART 2	28
5.5 ANNEX V RECOMMENDED CONSENT LETTER FOR CHILDREN TRAVELLING ABROAD	30
REFERENCES.....	31

1. INTRODUCTION

This project deliverable presents the development and implementation of the renewed secondary-school video competition in the field of nuclear science, building directly on the outcomes and lessons learned from the previous project ENENplus. The earlier initiative provided valuable insights into student engagement, effective communication formats, and the importance of connecting scientific content with creative expression. These results serve as a foundation for refining the competition's structure, strengthening its educational impact, and enhancing its appeal to a wider group of secondary school pupils.

The current project ENEN2plus aims to promote interest in nuclear science by encouraging secondary school pupils to work collaboratively in teams to produce short, innovative video presentations on selected nuclear-related topics. By combining scientific accuracy with creativity, the competition not only supports the development of subject-specific knowledge, but also fosters essential skills such as teamwork, problem-solving, and digital media literacy. To further motivate participants, the project includes a financial prize for the highest-ranking teams, acknowledging outstanding achievement and encouraging high-quality work.

An important component of the event is the three-day science camp that follows the competition. This event offers participants the opportunity to deepen their understanding of nuclear science through interactive lectures, laboratory demonstrations, technical visits, and discussions with experts in the field. The science camp also creates a collaborative learning environment in which pupils can meet peers with similar interests and explore potential academic and career pathways in nuclear-related disciplines.

By integrating the experience gained from the previous project with the new elements introduced in this cycle, the current initiative seeks to further enhance the visibility of nuclear science among young learners and to inspire the next generation of professionals in the field. The following sections provide a detailed overview of the competition's design, implementation, and achieved outcomes.

2. ENEN2PLUS NUCLEAR COMPETITIONS FOR SECONDARY SCHOOLS

2.1 Video competition for nuclear science camp 2023, Hungary

A first initiative for pupils and their teachers within the ENEN2plus project was the video competition linked with the 3rd nuclear science camp. The flyer is available as ANNEX I Flyer 3rd European Nuclear Competition for Secondary Schools.

The task for the student-teacher teams was the same as in the 2019 first edition [1,2,3] namely to create a 3-minute video introducing a self-selected nuclear application and to provide a cover letter explaining their work process; a team consisting of two secondary school pupils and one teacher. Suggestions for projects include but are not limited to:

- Energy production
- Radioactive waste management and geological disposal
- Radiation protection
- History of nuclear science
- Jobs in nuclear
- Create a story about nuclear
- History of nuclear science and technology
- Future of nuclear technology
- Radiation for health
- Nuclear in daily life
- Space research
- Food preservation

The competition rules as cited on the competition website, were as followed:

- (a) A video of minimum 3 minutes and maximum 4 minutes introducing a nuclear application.
- (b) Preferably in English or when in another language it must have English subtitles.
- (c) Free of copyrighted materials such as music, images and video clips that may violate or infringe upon the copyright of any other person or organization. It is the responsibility of the participants and not of the ENEN to ensure that all contents used in the project is free from copyright.
- (d) By submitting the competition material, participants agree to assign to the ENEN the copyright to publish the video or digital media presentation on the ENEN website, social media and other platforms and certify that no other rights have been granted which could conflict with the right hereby given to the ENEN.

The finalist teams which were selected, based on the arithmetic ranking of the scores by the jury members, were invited in person to the nuclear science camp where they had to present their video and the making-of process with a short presentation. This event was organised from 3-7 July, 2023.

The group pictures of all teams can be found in Figure 1 and Figure 2.

Since the pupils participating in the competition are minors, it is very important that their parents support their participation and their teachers take responsibility for them; for this purpose, we have used a special form, which can be found in Annex V.



Figure 1: Group picture of all teams during the technical visit in the National Institute of Oncology, Budapest.

The jury consisted of the experts from the ENEN2plus project partners:

- Csilla Pesznyák (BME), Roberta Cirillo and Gabriel Pavel (ENEN), Lois Tovey (UnivLeeds), Emilia Janisz (ENS), Chantho Creze (Westinghouse), Leon Cizelj (JSI), Walter Ambrosini, Gianfranco Caruso and Mario Mariani (CIRTEN), Dimitris Visvikis (EFOMP), Jakob Luyten (SCK CEN), Dario Cruz (Fusenet) and Jenő Dicse (SkillDict).

More details about the members of the jury can be found in the website:

[Jury – ENEN Nuclear Competition 2023](#)

In total, 50 submissions were received from 12 European countries; the 16 finalist teams from Belgium (1), Bulgaria (3), the Czech Republic (1), Spain (1) Croatia (3), Hungary (1), Italy (2) Portugal (1), Romania (2) and Ukraine (1) attended the nuclear science camp.

The best 16 videos are available on YouTube:

<https://www.youtube.com/watch?v=hKHZlpy4EAE>.

More information on the competition and the organization of the nuclear science camps is available on <https://nuclearcompetition2023.enen.bme.hu/>.



Figure 2: Teams before the competition in the auditory of the Budapest University of Technology and Economics.

Program of the event

The event lasted for five days. After the opening ceremony, renowned experts in the nuclear science and technology gave short lectures on various nuclear related topics. The event program can be found in the table below.

Monday	Activity	Room F29
14:30-15:30	Registration	
15:30-17:30	Opening Ceremony	
15:30-15:50	Gabriel Pavel	ENEN2plus
15:50-16:10	Szabolcs Czifrus	BME, Institute of Nuclear Techniques
16:10-16:30	Tibor Major	National Institute of Oncology
16:30-16:50	Leon Cizelj	European Nuclear Society
16:50-17:10	Dario Cruz	FUSENET
17:10-17:30	Csilla Pesznyak	Practical Information
18:00-20:00	Welcome dinner	Ibis Styles Budapest City Hotel

Tuesday	Nuclear Competition	Room F29
09:00 – 09:15	Team1	Tokamak - IT
09:15 – 09:30	Team2	Radi(n)ation - BG
09:30 – 09:45	Team3	Gemius - CR
09:45 – 10:00	Team4	Energizer - UA
10:00 – 10:15	Team5	Green Friends - RO
10:15 – 10:30	Team6	Fuse Power - ES
10:30 – 11:00	Coffee Break	
11:00 – 11:15	Team7	Atomic - BG
11:15 – 11:30	Team8	Unclear physicists - CR
11:30 – 11:45	Team9	Nuclear Citizen - CR
11:45 – 12:00	Team10	The Legacy of Wilson - BE
12:00 – 12:15	Team11	Alpha-ntastic Duo - IT
12:15 – 12:30	Team12	Big Uranium - HU
12:30 – 13:30	Lunch Break	
13:30 – 13:45	Team13	Radiana - BG
13:45 – 14:00	Team14	AstroMars - RO
14:00 – 14:15	Team15	Linking Panda - CZ
14:15 – 14:30	Team16	Students from Lisbon - PT
Carrier Event		
14:30 – 14:35	Emilia Janisz	Welcome
14:35 – 15:15	Carrier Event I. part	YGN
15:15 – 15:30	Coffee Break	
15:30 – 17:00	Carrier Event II. part	YGN
19:30 – 21:30	Social event	

Wednesday	Nuclear Camp	Room H604
09:00 – 09:45	Walter Ambrosini	Nuclear Energy for the Cleaner Planet
09:45 – 10:30	Gianfranco Caruso	Nuclear Energy for Space Exploration
10:30 – 11:00	Coffee Break	
11:00 – 11:45	Leon Cizelj	Benefits and risks of nuclear energy
11:45 – 12:30	Chantho Creze	Decommissioning
12:30 – 13:30	Lunch Break	
13:30 – 14:00	Máté Szieberth	Introduction to the Training Reactor visit"
14:00 – 17:00	Szabolcs Czifrus (G1, G2, G3)	Reactor simulator
	Maté Szieberth (G2, G3, G1) Ákos Sudár	Training reactor visit (≥16 years old) CT technology (<16 years old)
	Károly Bodor, Attila Gulyás, Zsolt Csatlóczy (G3, G1, G2)	Presentation of a virtual radioactive source system

Thursday	Nuclear Camp	Room H406
09:00 – 09:45	Gergő Pokol	Nuclear fusion: The energy source of the future
09:45 – 10:30	Gabriel Pavel	Nuclear engineering for CANDU type reactors
10:30 – 11:00	Coffee Break	
11:00 – 11:45	Dimitris Visvikis	Artificial Intelligence and Nuclear Medicine
11:45 – 12:30	Gabor Stelczer	Radiation therapy
12:30 – 13:30	Lunch Break	
13:30 – 14:30	Travelling to National Institute of Oncology	
14:30 – 14:40	Dr. Zoltán Takácsi-Nagy	Deputy of General Director of NIO
14:40 – 17:00	Gábor Stelczer (Ga, Gb, Gc, Gd)	Linear accelerators
	Domonkos Szegedi (Gb, Gc, Gd, Ga)	Dosimetry equipment
	Zsuzsa Kocsis (Gc, Gd, Ga, Gb)	Radiobiology
	Ádám Gáldi (Gd, Ga, Gb, Gc)	Radiation Treatment Planning

Friday	Nuclear Camp	Room F29
09:00 – 09:30	Roberta Cirillo	Round Table – pupils
09:30 – 10:00	Roberta Cirillo	Round Table – teachers
10:00 – 10:30	Coffee Break	
10:30 – 11:00	Csilla Pesznyak	Workshop for Teachers
11:00 – 12:00	Award ceremony	
12:00 – 13:00	Lunch Break	

The jury only decided on the three identical awards (€1500 per team with €500 per team member) and the most artistic work, since the most popular video (€1200 for team) was selected by the public based on the number of their YouTube likes. Everyone had an equal chance to collect these, as the videos were posted at the same time and voting was possible for the same period of time.

The laureates of best video award were team 'FusePower' from Spain, team 'Astromars' from Romania and the team 'Alpha-ntastic Duo' from Italy. The most popular video was from team

'Lighting panda' from the Czech Republic. Team 'Energizer' from Ukraine was awarded with the most artistic video (€1200 for team). Two special awards were given by SkillDict and the Hungarian Society for Medical Physics. These awards were respectively handed over by Jenő Dicse and Csilla Pesznyák to team 'Green friends' from Romania and team 'Geminus' from Croatia. The medal and the diploma for the winners can be seen in figure 3 and 4. The participants also received a certificate. Figures 5-7 show snapshots of the event.

The video about the competition and science camp can be found under the next link:

<https://www.youtube.com/watch?v=hKHZlpy4EAE&t=195s>



Figure 3: Medal for the winners, 2023, Budapest



Figure 4: Diploma for the winners, 2023, Budapest

Reviews from participants

“ENEN 2023 Nuclear physics. I never thought I would ever engage in that topic. Yet here I am. And I think it was one of the best decisions in my life. I didn't know what to expect; I was excited, but also nervous. All emotions merged into one, happiness. The journey began. After numerous take offs and landings, we finally arrived in Budapest. The program started the next day. Introductory lectures and presentations. I particularly enjoyed talking with different professors and experts. The second day made me much more nervous. Delivering a presentation in a full auditorium haunted me. I spent the whole night practicing my speech until I perfected it. After the presentations were done, everything became easier. Dinner on the Danube and meeting new people will definitely remain as one of the best memories. The presentations and lectures I witnessed were undoubtedly of high quality. Of course, I enjoyed some more than others. I learned a lot of new things, and I am genuinely happy about it. I have to highlight the visit to the National Institute of Oncology. I saw how the machines for treating tumours and other malignant diseases worked on patients. Numerous laboratories and equipment. That day was particularly interesting to me. Along with the engaging and well-organized program, we had to find time to explore beautiful Budapest. Everything came to an end very quickly. The hardest part was saying goodbye. Spending several days with people who share the same interests and goals was wonderful. Moreover, the days filled with various activities passed quickly. Everyone could find something that interested them. I hope such competitions will continue so that other children can have this experience too. I definitely won't easily forget it, and I hope for a reunion in the not-so-distant future.” - **Karla Iva Vuletić**



Figure 5: Laboratory work in the National Institute of Oncology

“Dear people of ENEN,

It was a great pleasure to participate in this event and travel to Budapest. It was my first time in Budapest and overall, the first time participating in such event. The hotel was really nice and comfortable with a great location as we were close to the sights. The first day was exciting, a completely different atmosphere and surrounding; new people from all across Europe that share the same interest as me and the staff teaching us a lot about nuclear physics. On the following day, we were presenting ourselves and our video which was for me the most challenging part, I had to practice how to present and it was quite stressful, but I got to know the other participants better and learn from their videos as well. The best part of that day was the dinner on the boat, which was a really fun event where I got to see Budapest and hang out with my friends...Wednesday was a busy day, we had a couple of presentations from which I learnt a lot about nuclear reactors and how they work as well as the importance of nuclear energy. I also got to meet some people and chat with them a bit during the breaks. Thursday

was the busiest day for me; we had some lectures about the medical uses of nuclear physics and how it is used for treating diseases. And on Friday, there was a discussion about the whole program, its good parts and some suggestions on what to change next time, the awards were given out and at the end we said goodbye to our new friends we made and then we left Budapest the next day. Overall, the whole experience was amazing and unique, I walked a lot every day and got to see Budapest, taste the food, buy souvenirs and see all the sights. I got to meet new people and had a lot of fun with them, though in my opinion there wasn't quite enough time to hang out with them. Nonetheless, I'm looking forward to competing in 2 years again and having fun again as this time."

Ivan Marušić



Figure 6: Social evening on the Danube in Budapest.

“ENEN 2023 It all began when I decided to make a video about nuclear energy, for a competition set to take place in Budapest. Wanting to test my skills and try something new, I decided to try to be in one of the 15 finalist teams. Unexpectedly, my wish came true. During the 6 days I spent in the Hungarian capital, I made many new friends and memories. Communicating with other like-minded peers from all around Europe was definitely one of the things I liked the most. I enjoyed many activities and lectures during my stay. I found the ones about nuclear future and sustainable energy very interesting, but my favourite ones were about the usage of nuclear energy in the medical field. I loved our visit to the National institute of Oncology and visiting various facilities on the campus. The competition itself was obviously the most stressful part, but I think that everyone was relieved after the first day, since the competition took place that day. Renowned experts in the field seemed to be really interested in sharing their knowledge with us. Their lectures helped me on my way to finding my passion for a specific area of study. The competition in Budapest is an unforgettable experience for me that I think of more than just an academic success. It was a great opportunity to meet new friends, learn a lot of new things about nuclear physics, and being one step closer to uncovering who I want to be and what I want to do in the future.”

- Pjero Vuletić



Figure 7: Laboratory work in the Training reactor, BME

Once we arrived at the airport, Csilla was waiting for us, and we were very excited to meet her because we had been exchanging emails with her, and we were looking forward to meeting her at the airport. The first team we met was TEAM Tokamak from Italy. We didn't speak much as all of us were tired and wanted to go to the hotel to sleep. However, we had to wait for several other members of the jury to gather and go together to the hotel. This was amusing because initially, we didn't realise they were part of our jury, and the following day at the event, we recognized them and were somewhat shocked because we didn't know them. Once we arrived at the hotel, our main priority was to get some rest.

Monday morning was really productive as we were preparing our presentation for Tuesday. When we finished, we went for a walk and crossed the Danube for the first time (the first of many times). On the other side of the river, we saw the university for the first time and luckily stumbled upon the Lágymányosi ELTE Campus, where we found a marvellous exposition. One of the things that surprised us throughout the trip (and there were several) was that instead of numerous Zebra Crossings (as we are used to in our country), they were replaced by underground tunnels connecting various points of the street. Later, we returned to the hotel for lunch with other teams, and after that, we all went together to the university for the opening ceremony. There, we received several speeches from collaborating organisations. From my point of view, the one I liked the most was the speech given by the Institute of Nuclear Techniques, as it explained what they do at the Institute and showcased the degrees they offer. Once the ceremony ended, we went on our first walk exploring Budapest in more depth. We started walking after dinner and strolled along the shore of the Danube, where we discovered many interesting things such as the Monument in memory of the Jews killed during WWII, the parliament with its marvellous and breathtaking sunset, several churches and government ministries, as well as the stunning city lights that left us truly impressed.

The following day, Tuesday, was the big day - our presentation and those of our teammates. At the beginning, none of us were nervous, but as the 4th group was presenting, we started to feel anxious because we were the 6th group. Then, it was our turn. We went out there and gave it our best. Luckily, after our speech, we had a coffee break, which allowed us to relax a bit and talk with our colleagues. We were also fortunate because when the next team was about to present their project, the projector broke, and they had to bring in another one. After the presentations, the afternoon began with speeches from young people working in the nuclear sector. We were pleasantly surprised to find two Spanish individuals, Paco and Leticia, and immediately during the coffee break, we went to meet and talk with them. Later on, we had the wonderful opportunity to talk with several professors and ask them questions. This activity was amazing, and I really enjoyed it because we could interact closely with the professors. To end the day in an incredible way, we had a boat trip and dinner along the Danube. The views of the parliament, the castle, and other monuments were absolutely breathtaking with all the lighting. Once the boat trip finished, we walked back to our hotel, exploring the streets of Budapest to discover more features of the city.

Wednesday was a day full of very interesting lectures that we really enjoyed. The first one was given by Prof. Ambrosini, who talked about the use of nuclear energy for our planet, mentioning several points such as the production of electricity, green taxonomy, and green energy in Europe, among others. Next, Prof. Gianfranco gave an intriguing lecture about nuclear propulsion for the space sector, discussing topics like nuclear propulsion for rockets and nuclear energy as a potential source on celestial bodies like the moon or Mars. After the coffee break, Prof. Leon talked about the risks and benefits of nuclear energy in a very innovative way. Instead

of following the traditional presentation format (introduction, body, conclusion), he started with a series of questions and answered them one by one throughout the presentation, giving us the opportunity to answer them differently as well. The last lecture of the morning was by Chanto Creze, discussing decommissioning and emphasising the importance of properly handling the decommissioning of nuclear power plants for our future. In the afternoon, we had an exciting visit to the BME training reactor, where we learned how it worked and got to see a real reactor. This was an unforgettable experience. We also had the opportunity to practise on a nuclear fission power plant simulator, learning how it operated. Additionally, we measured radiation levels near the university gardens, where we could observe the work of radiation professionals. When the university activities finished, we went to the thermal swimming pools in Varosliget Park, where we had an amazing and unforgettable time. Then, we returned to the hotel, walking through the streets of Budapest.

Thursday was also a very nice day. We started with a lecture closely related to the topic of our video, "Nuclear Fusion: The Energy Source of the Future," given by Gergő Pokol. This lecture allowed us to deepen our knowledge about fusion and how it works. After that, we had another interesting lecture by Gabriel Pavel about CANDU type reactors. Honestly, this was one of the lectures I liked the most because I didn't have prior knowledge about these types of reactors. I learned a lot, and what made it even more engaging was Gabriel's innovative technique of using a pen given to us at the beginning of the campus to explain how the reactor worked. Following that, we had two lectures on Nuclear Medicine and its physical applications. While it was interesting, as this field doesn't particularly interest me, I didn't take advantage of it as much as I did with other lectures. However, I truly enjoyed the visit to the National Institute of Oncology (NIO), where they showed us the machines they used, such as the CyberKnife, and the radiobiology laboratory. After the visit, we went to see Buda Castle, which was near our location, as well as the Fisherman's Bastion and the Citadel of Budapest. All these trips to historical monuments were incredible.

And now, we come to the end—the last day, Friday. Making the most of the time available, we woke up early, checked out, and had breakfast. Before the activities began on this final day, we visited the Budapest Central Market. The first activity was a roundtable, where we provided feedback and opinions to the organisers of the event to help them improve for the future. After this, Prof. Leon and Dario Cruz (Fusenet) delivered the final speeches of the campus, and the Awards Ceremony commenced. This day will stay with us forever. Several prizes were given to participants, and once the ceremony ended, it was time to say goodbye to everyone and return home.



Figure 8. Raúl Magallón Ramón writer of the detailed student's report

2.2 Video competition for nuclear science camp 2025, Italy

The 4th European Nuclear Competition and Science Camp was organized in the framework of the ENEN2plus project. The organization of this event was under the responsibility of ENEA within task 2.4. The competition took place in Bologna, Italy, from 14 to 18 July 2025.

The competition was for secondary school students. Participation was open to teams of three people, two students and one teacher. The task consisted of creating a 3–4 minute video on a nuclear application of their choice. A maximum of 15 finalist teams (45 people) were selected and invited to attend the event in person to compete for the cash prizes awarded to the three best videos.

The flyer used to disseminate the event is presented in ANNEX II Flyer 4th European Nuclear Competition for Secondary Schools.

The task for the student-teacher teams was the same as in the 2019 first edition [1,2,3] namely to create a 3-minute video introducing a self-selected nuclear application and to provide a cover letter explaining their work process.

The official website for the 4th European Nuclear Competition and Science Camp for Secondary School Students (secondarieschoolcomp2025.enen.bme.hu) was created by the Budapest University of Technology and Economics, and went online from January 2025.

The website included:

- A draft program of the event
- Videos from previous competitions
- Informational materials on various nuclear-related topics
- The competition rules
- The names and curricula of the jury members
- Logistical information about the venue and event dates
- Details about the monetary prizes for participants

In addition, the **registration form** was made available on the website, allowing teams to sign up by:

- Entering their team information
- Providing consent for data processing
- Submitting a link to their video and a cover letter explaining their motivation and describing the video

The registration deadline was March 31, 2025.

In the meantime, a Jury of ten people was appointed to evaluate the videos and create a ranking in order to select the 15 best videos — and therefore the 15 teams — that would be invited to attend the competition in person.

The members of the jury were as follows:

- Walter Ambrosini, Elena Macerata and Gianfranco Caruso (CIRTEN); Gabriel Pavel (ENEN); Minodora Apostol and Mirela Nitoi (RATEN); Lois Tovey (University of Leeds); Mattia Baldoni (ENS); Jakob Luyten (SCK CEN); Chiara Telloli from (ENEA)

The 132 applications originated from 17 different countries. After an initial evaluation by the jury using a standardized sheet (ANNEX III), 42 videos were shortlisted for a second review, leading to the selection of 15 finalist teams. These finalists attended the nuclear science camp

held in Bologna, Italy, from July 14–18, 2025, organized by ENEA, where they presented their videos to the jury and peers for final evaluation.

Finalist Teams

Based on the above evaluation criteria a final ranking was established giving the list of the top 15 videos as reported below (Table 1).

Table 1: Finalist in the 4th Nuclear Competition and Science Camp, Bologna, Italy

School Name	TEAM Name	City	Country	Topic of the video
PPMG "Akad. Ivan Tsenov"	Nuclear Detectives	Vratsa	Bulgaria	Nuclear forensics
Liceul Teoretic "Mihail Kogălniceanu" Vaslui	Nuclear Everyday	Vaslui	Romania	Nuclear applications in Art
Secondary Grammar School of the Reformed Church Gödöllő	Fission Fighters	Gödöllő	Hungary	Nuclear science education
PPMG "Akad. Ivan Tsenov"	QuantumCrop	Vratsa	Bulgaria	Nuclear applications in agriculture
National College "Gheorghe Lazăr" Sibiu	Nuclear PETs	Sibiu	Romania	Nuclear applications in medicine
~Alexandru Ioan Cuza~National Military Colleg	Nucleomanians	Constanta	Romania	Nuclear energy and sustainability
Escola Secundária Francisco Fernandes Lopes	Fusionauts	Olhão	Portugal	Nuclear power technologies
St. St. Cyril and Methodius Secondary School	ECOINOVATORS	Kozloduy	Bulgaria	Decommissioning
Ahmet Yüksel Özemre Science and Art Center	Chamber of Secrets	Istanbul	Turkey	SMR
Gimnazija „Slobodan Škerović"	SUPERNOVAS	Podgorica	Montenegro	Nuclear energy and sustainability
Ängelholms Gymnasieskola	Prometheus 2	Ängelholm	Sweden	Nuclear power technologies
School of Physics and Technology	Karazin	Kharkiv	Ukraine	Nuclear Applications in Medecine
Niğde Science High School	Fusion Mythbusters	Niğde	Turkey	Nuclear power technologies
Trondheim International School (THIS)	Toftrao Fission	Trondheim	Norway	Nuclear power technologies
Benenden School	Neutron Dust	Cranbrook	United Kingdom	Neutron stars

The 15 teams are from Turkey (2), Bulgaria (3), Hungary (1), Portugal (1), Montenegro (1), Ukraine (1), United Kingdom (1), Romania (3), Sweden (1) and Norway (1). These 15 teams were invited to participate in person in the nuclear science camp where they showed their video to the jury and their peers. The jury evaluated the presentations with the evaluation sheet presented in the ANNEX III. The nuclear science camp was organised from July 14 – 18, 2025 in Bologna, Italy by ENEA. A group photo with the finalist teams and part of the jury is presented in Figure .



Figure 9: The group picture of the finalist teams

Program of the event

The event was organised to be engaging and not overly demanding, avoiding an excessive number of theoretical lectures and instead focusing on interactive sessions. Therefore, the presentations were centred on the research activities carried out by the project partners and their objectives, giving students the opportunity to ask questions and gain an insight into the world of nuclear research. Thanks to this, the students actively participated in all sessions of the program demonstrating great curiosity and interest. Also the teachers have been involved asking them to provide a presentation about their school and the nuclear program in their country of origin and the related issues.

The agenda of the 5-day event was the following:

14 July	
13:00-14:30	Lunch
15:30-16:00	<ul style="list-style-type: none"> • Registration • Distribution of the welcome kit
16:00-16:45	Opening the event (B. Ferrucci- ENEA)
16:45-17:15	Coffee Break
17:15-17:30	ENEN 2plus Project - objective and challenges (C. Boix - ENEN)
17:30-18:00	Random draw for the next day's video presentation order Recap of how the day after will be organized and the rules (B: Ferrucci - ENEA) Closing remarks (B. Ferrucci- ENEA)

15 July

09:00-09:15	<ul style="list-style-type: none"> • Roll Call (B. Ferrucci- ENEA) • Group Photo
	COMPETITION
09:15-10:30	Chairperson: J. Luyten (SCK CEN) 1° team 2° team 3° team 4° team
10:30-11:00	Coffee Break
11:00-12:15	Chairperson: C. Boix (ENEN) 5° team 6° team 7° team 8° team
12:15-13:30	Lunch break
13:30-14:45	Chairperson: D. Cruz (FuseNet) 9° team 10° team 11° team 12° team
14:45-15:15	Coffee Break
15:15-16:15	Chairperson: G. Caruso (CIRTEN) 13° team 14° team 15° team
16:15-16:30	Closing remarks and details for attending the guided visit (B. Ferrucci-ENEA)
16:30 – 17:00	Walk to Piazza Maggiore
17:00-19:30	Classic Guided Tour with a Focus on Scientific Bologna

16 July

09:00-09:15	<ul style="list-style-type: none"> • Roll call • Presentation of the agenda of the Day (B. Ferrucci-ENEA)
09:15-10:30	Chairperson: E. Macerata (CIRTEN) Teachers' presentations (5 min each)
10:30	Award ceremony & Coffee Break
11:15-13:00	Social game (J. Luyten – SCK CEN)
13:00-14:30	Lunch break
14:30-15:45	Career event – 10-15 min: presentations- Chairperson B: Ferrucci-ENEA - ENEA: C.Telloli; F. Buonocore; - RATEN: M. Apostol
15:45-16:00	Coffee Break
16:00-17:30	Career event – 10-15 min: presentations- Chairperson B. Ferrucci-ENEA - SCK CEN: J. Luyten - ENS: M. Baldoni - CIRTEN: G. Caruso, E. Macerata - ENEN: C. Boix - FUSENET: D. Cruz
17:30	Closing remarks (B. Ferrucci-ENEA)

17 July

07:30-08:45	Bus trip from Europa Hotel (Bologna) to ENEA-Brasimone RC
09:00	Welcome at the Villa – 15 minutes
09:15	Presentation of fission activities (A. Bellomo - ENEA)
09:40	Presentation of newcleo activities (A. Di Ronco- newcleo)
10:10	Coffee Break
10:30	Transfer to PEC (on foot)
10:45	Visit to PEC AREA
11:45	Visit to RSA
12:45	Return to the Villa (on foot)
13:00	Lunch Break
14:30-17:10	Cross YGN Workshop – Chairperson: M: Baldoni (ENS) <ul style="list-style-type: none"> • AIMP Giovani (EFOMP): E. Cantoni and F. Punzetti • Fusenet – J. Tufnail • ENS-YGN – A. Di Ronco • AIRP Giovani (IRPA): G. Stendardo, F. Chiarelli, A. Cirillo, G. Della Peruta
17:30-18:30	Bus trip from ENEA-Brasimone RC to Europa Hotel (Bologna)

18 July

09:30-09:45	<ul style="list-style-type: none"> • Roll call • Recap for the departure of the teams to the Bologna airport (B. Ferrucci- ENEA)
09:45 -10:15	Round table - Gender Balance within the Nuclear Field Introductory presentation (S. Sarra)
10:15-10:45	“Meet Radiomon, a rad mobile game where you casually learn nuclear physics” – F. Nouchy (Radiomon)
10:45-11:20	Award of participation certificates - Photos
11:20	Closing speech and acknowledgements (B. Ferrucci)
11:30	Light Lunch

Winner Teams

During the second day, all participating teams had 15 minutes to present their work and introduce their schools, explaining how they created their videos and what challenges they encountered. Based on each 5-minute presentation, the 5-minute Q&A session, and the video itself, the jury assigned a score to each team.

Based on these scores, the three winning teams were the following: “Nuclear detectives” – Bulgaria; “Nuclear PETs” – Romania; “Quantum Crop” – Bulgaria.

The three best videos, according to the jury, were awarded €1500 per team (€500 per team member). The three winning teams are presented in Figure below.



Figure 10: Overview of the winning teams with Quantum Crop (left), Nuclear Detectives (middle) and Nuclear PETs (right)

Social event and visit to the Brasimone Research Center

On 15 July, as a social event, the 15 teams were invited to a guided tour of scientific Bologna. During the visit, all the students and teachers had the opportunity to spend time together and explore the city’s main monuments, which illustrate key moments in its scientific history and past achievements.



Figure 2: Final photo of the visit to the scientific Bologna (Piazza del Nettuno)

On 17 July, as scheduled, there was a visit to the Brasimone research centre (about one hour from Bologna by bus), which included both a tour of the facility and its laboratories, and a career event organized by ENS, AIRP, AINP, and FuseNET. Before the tour, researchers from ENEA and Newcleo presented the centre’s activities as well as its past and future projects. Thanks to the high speakers’ preparation and the active participation of the students, the career event proved to be a great success



Figure 3: Group photo in front of the PEC reactor building at Brasimone RC

More information on the competition and the organization of the nuclear science camps is available on <https://secondaryschoolcomp2025.enen.bme.hu>

Reviews from participants

The 4th European Nuclear Competition and Science Camp gathered a total of 45 participants from 15 different countries, including students and teachers.

The overall perception of the event was very positive, as demonstrated by some spontaneous messages of appreciation received after the conclusion of the activities as reported below, and by the fact that, after the event ended, all the participating teams came in person to thank the organizers and to congratulate them on the excellent success of the event, highlighting that it was a very constructive and meaningful experience for the students. Participants highlighted in particular:

- the organization and smooth logistics, ensuring a stress-free experience from arrival to departure.
- High scientific quality of the programme, with inspiring talks, interactive sessions and hands-on experiences such as the visit to ENEA Brasimone Research Centre.
- Warm hospitality and inclusive atmosphere, which helped create a strong sense of community and collaboration among teams from different cultural backgrounds.
- Empowering impact on students, who reported feeling more motivated to pursue scientific and engineering careers, especially in the nuclear field.

No complaints or negative feedback were reported. On the contrary, all attendees expressed willingness to participate again or collaborate in future editions, confirming that the event had a strong educational, motivational and networking value.

Email from the father of one of the students.

Hi Barbara,

Thank you for a well-organized and well-led event with many great topics and excellent speakers. I especially appreciated your contribution on the importance of girls/women receiving higher education and entering leadership roles. In Norway, I get the impression that

ENEN2plus – Deliverable 2.6
Page 22 / 31

girls tend to have higher grades than boys and that more girls pursue higher education. Women have also become well represented in corporate leadership. At the company I work for, TINE, there are more female than male executives in top management, and we have legislated gender quotas for boards in large companies. We're grateful that I had the opportunity to participate and support Olav during the event - it made for a memorable and positive experience for him.
Kind regards, *Knut Magne*

Email from the teacher of the Ecoinnovators team.

Dear Barbara,

I would also like to thank you on behalf of myself and my students for the excellent organization of the event in Bologna. It was an incredible experience for us, and everything was prepared with great care and professionalism. We wish you a joyful and relaxing summer! We would be happy to collaborate again in the future!

Warm regards, Tatyana

Email from the students of the Neutron Dust team.

Dear Barbara,

I hope you are well.

I want to thank you, ENEA and ENEN team for hosting such an incredible science camp for this year's nuclear competition in Bologna! It was truly an amazing experience and a wonderful opportunity for Nicole and me to be part of. We learnt so much from the inspiring talks, the engaging discussions, and of course, the memorable visit to the Brasimone Research Centre. The insights we gained will certainly stay with us and shape our future aspirations! The event was so well organised, and your hospitality made it even more special! We're already missing the energy and team spirit we felt during our time there. Also, your music choices throughout the event were perfect! We really liked the tension and suspense the Beethoven symphony built before the competition! It fit the atmosphere so well! Thank you again for making this such a meaningful experience. We hope to stay connected and we're so looking forward to future opportunities!

Best wishes, Melanie and Nicole

Email from the teachers of Nuclear Detectives and Quantum Crop team.

Dear Barbara,

I am Ani Pavlova, the mentor of the Quantum Crop Team from Bulgaria, one of the winning teams at the 4th Nuclear Competition in Bologna. I am also writing on behalf of my colleague Pepa Pavlova, the mentor of the other winning team from Bulgaria – Nuclear Detectives. We are extremely thankful to you and your colleagues for the interesting and useful experience, perfect organization and warm attitude.

Building on our previous successful collaboration, we look forward to working together again and achieving even greater results within our Erasmus project.

Kind regards, Ani Pavlova, English teacher; Pepa Pavlova, Physics teacher

3. SUMMARY

The first two competitions were organized under the ENENplus project, and the work was continued in the framework of the ENEN2plus project. The second competition could only be organized online due to the Covid-19 pandemic, but the other 3 competitions were held in person. The competitions were organized in Budapest in 2019 and 2023, and in Bologna in 2025. The number of participating teams and the number of countries can be found in the figure 11. The figure shows an increase in both the number of participating teams as the numbers of countries these teams are originating from. This could illustrate the the growing awareness of the competition and the expanding network in which the call is being disseminated.

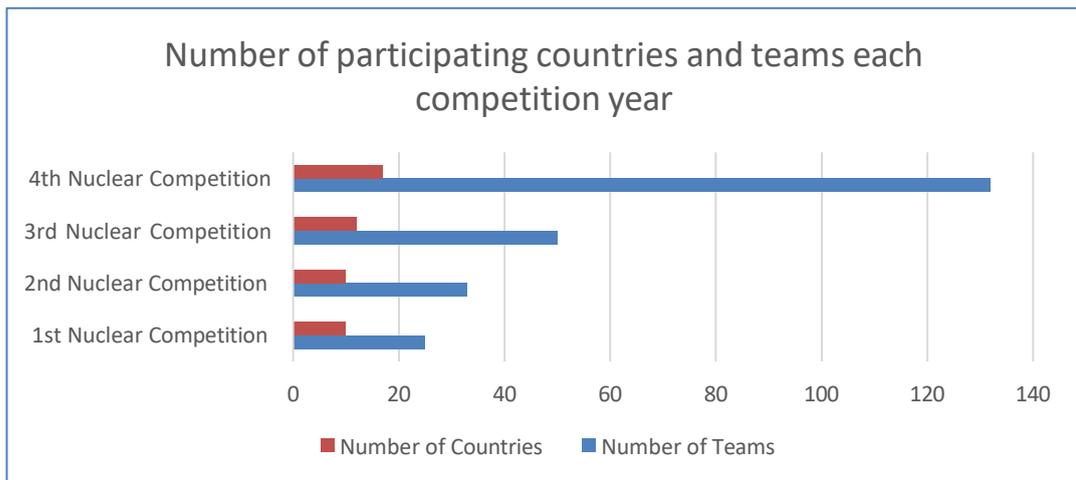


Figure 11: The number of countries and teams in each competition.

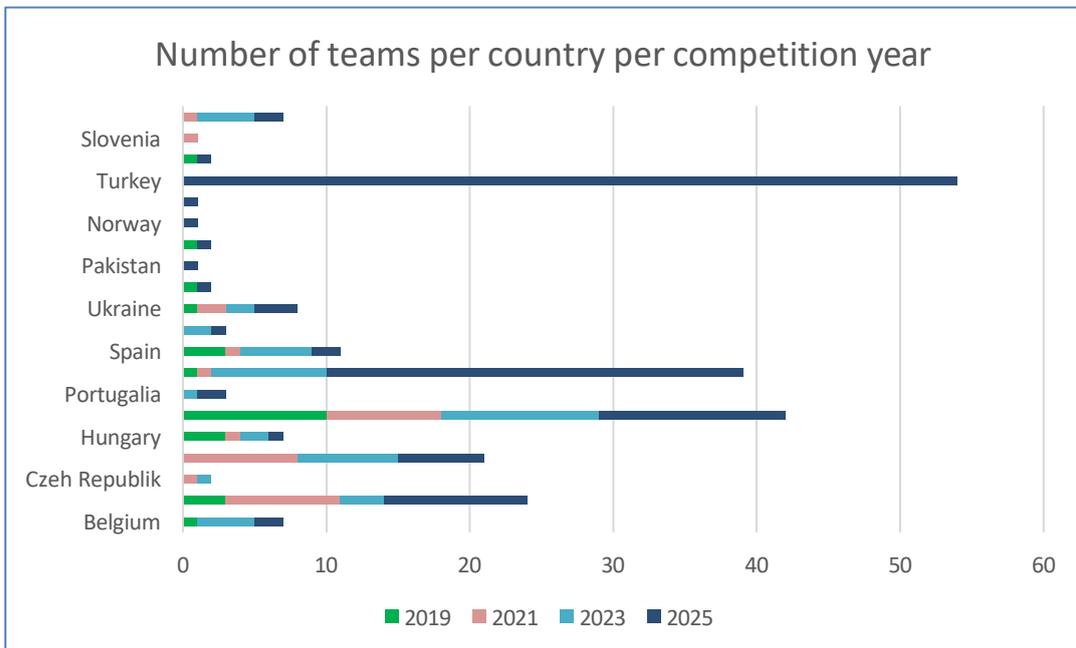


Figure 12: The number of teams from the different countries in each competition from 2019 to 2025.

Based on the statistical evaluation presented in Figure 12, it can be stated that between 2019 and 2025 ENEN could reach 20 countries, 240 teams.

4. CONCLUSION

Ensuring stable and long-term funding for nuclear competitions and related educational initiatives - such as the secondary-school nuclear video contest - is a strategic investment in the future of the field. Increasing the nuclear awareness even among people at young age is essential to ensure a better understanding from the general public of the benefits nuclear brings to the society. In the same time, it helps people better assess the risks associated with the ionizing radiation.

These friendly competitions have the role to create a network among youngsters, develop their competitive approach and in the same time accumulate knowledge on the topic. From the analysis of the statistical data of the events, it can be concluded that as a result of ENEN's activities, the number of its initial participants increased sixfold.

The young participants proved to be very inventive and very passionate about the nuclear topic that sometimes is not enough addressed in schools across Europe.

Predictable financial support is essential for nurturing a sustainable nuclear workforce, strengthening safety culture, and promoting scientific innovation and research. It also enables stable institutional and international collaboration, increases student participation through reliable and well-planned programming, and contributes to greater public awareness and trust in nuclear technologies.

Only through the continuous implementation and long-term commitment to such initiatives can their quality, impact, and continuity be ensured, thereby safeguarding and advancing national and international nuclear competencies for the next generation.

5. ANNEXES

5.1 ANNEX I Flyer 3rd European Nuclear Competition for Secondary Schools

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>

New deadline
**Video submission deadline
3 May 2023**
**Nomination of 15 finalist teams
10 May 2023**

Contact
nuclear.competition@reak.bme.hu

 **enen+**

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opinions expressed are however those of the author(s) only
and do not necessarily reflect those of the European Union.
Neither the European Union nor the granting authority can be
held responsible for them.

5.2 ANNEX II Flyer 4th European Nuclear Competition for Secondary Schools



4th EUROPEAN NUCLEAR COMPETITION FOR SECONDARY SCHOOLS

Bologna, Italy – 14-18 July 2025



Participants

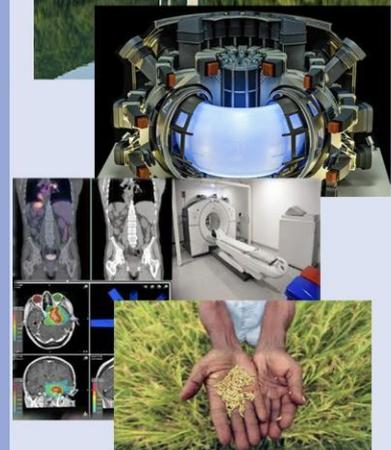
Pupils enrolled in secondary schools in European States. Each Team consists of **two pupils and one teacher**.

How to participate

Form a team of with a classmate and a teacher. Create a 3 minutes video (maximum 4 minutes) introducing a specific nuclear application (e.g. energy, radiation protection, medicine, radioactive waste, etc.). Register for the competition and upload the video and clear motivation and description of the video through the website by March 31, 2025.

Awards

Significant cash prizes will be granted at the competition.
In-person participation in the nuclear science camp for 15 finalist teams of the video competition.



Video submission deadline: 31 March 2025
Nomination of 15 finalist teams: 15 April 2025

Contact

nuclear.competition@enea.it



Views and opinions expressed are however those of the authors only and do not necessarily reflect those of the European Union or the European Commission. Neither the European Union nor the European Commission can be held responsible for them.

5.3 ANNEX III Evaluation sheet video competition 2025

Quality of the video	Max 10 points (20%)	Maximum score 50
Scientific contents	Max 15 points (30%)	
Creativity	Max 10 points (20%)	
Cover letter	Max 5 Points (10%)	
Evaluator opinion	Max 10 Points (20%)	
		Team Name
		insert team name
		Topic of the video
		insert the topic
Cover letter [Score range: from 1 to 5]		Your vote
Quality of the cover letter		0,00
Technical Quality of the video		Your vote
Audio quality: clear voice, balanced sound, no distracting noise [score range of each Criteria: from 1 to 3]		0,00
Video quality: sharp images, good framing and lighting [score range of each Criteria: from 1 to 3]		0,00
[Team Name] - [School name] - [authors names] -[Competition name] - [end credits and/or sources] The video includes all or at least 4 of the above information (score 4)		0,00
Scientific contents		Your vote
Scientific accuracy	[Score range: low=1; acceptable=2; good=3]	0,00
Clarity in Explaining Scientific Concepts	[Score range: low=1; acceptable=2; good=3]	0,00
Examples, explanations, and visuals, editing, and visual layout to support clear communication	[Score range: low=1; acceptable=2; good=3]	0,00
Relevance to the chosen Topic	[Score range: not aligned=1; slightly aligned=2; highly aligned=3]	0,00
Logical Structure	[Score range: low=1; acceptable=2; good=3]	0,00
Creativity and team collaboration		Your vote
The video simply presents the topic in a general way, using only external sources. Characteristics: No or few original contribution Standard language and style Structure similar to a summary or school presentation	Score range 1-3	0,00
The video presents an original approach and engaging structure based on a personal project and/or a creative script; or the video integrates external sources with some personal reflections and/or connections to a project developed by the authors. Characteristics: Some original or personal input/authors' point of view; and/or Links to specific experiences or activities; and/or well-structured storytelling and personal style; and/or Creative use of images, music, animations, or acting	Score range 4-7	
Teamwork and Collaboration: how clearly the video shows collaboration within the team, with equal involvement and shared tasks [Score range: limited collaboration = 1; moderate collaboration = 2; strong collaboration = 3]		0,00
Personal Evaluator Opinion (score range: 6-10)		Your vote
Thinking about how the video made you feel, on a scale from 6 to 10, where 6 means you felt no enthusiasm and 10 means you felt highly engaged, what score would you give it?		0,00
		Total Score
		0,00

5.4 ANNEX IV Evaluation sheet video competition 2025 – part 2

**4th European Nuclear Competition
Evaluation Sheet**

Team Name:		
	Name	Surname
Pupil 1		
Pupil 2		
Teacher		
Jury member		

Topic of the video:		
Presentation		
	Score (/10)	Notes
Clarity and Structure (20%)		Helping in case of Tie
Audience Engagement (20%)		
Team Introduction and Roles (10%)		
Explanation of Process (20%)		
Creativity of Presentation (20%)		
Video		
Overall, how much did you enjoy the video? (10%)		

4th European Nuclear Competition Evaluation Criteria

Presentation	
Criteria Description	
Clarity and Structure (20%)	How clearly the content is presented, including logical flow, appropriate vocabulary, and speech fluency.
Audience Engagement (20%)	Use of voice, eye contact, body language, and enthusiasm to keep the audience interested.
Team Introduction and Roles (10%)	How well the team presents themselves and explains each member’s role in the project.
Explanation of Process (20%)	How the team explains their workflow: idea development, research, production steps, and challenges.
Creativity of Presentation (20%)	How active did the team use creative element in their presentation. Did the presentation contain original or memorable elements?

	1-3	4-6	7-10
Clarity and Structure (20%)	Unclear or confusing; poor organization; hesitant or rushed delivery.	Mostly clear and organized; minor hesitations; generally understandable.	Very clear, well-structured, fluent, and easy to follow throughout.
Audience Engagement (20%)	Little to no engagement; monotone or reading from notes.	Moderate engagement; some eye contact and variation in tone.	Highly engaging; confident delivery with strong connection to audience.
Team Introduction and Roles (10%)	Roles are unclear or unevenly presented; weak sense of collaboration.	Team roles are mentioned; some collaboration is visible.	Roles are clearly explained; team shows strong cooperation and shared ownership.
Explanation of Process (20%)	Vague or incomplete explanation; lacks detail or reflection.	Reasonably detailed process with some insight into team work.	Well-explained and insightful; shows reflection, creativity, and problem-solving.
Creativity of Presentation (20%)	The presentation consisted out of text overloaded slides. No original or memorable elements were added.	The presentation consisted out of slides with text and pictures. Limited original or memorable elements were added.	The presentation contains pictures and other features supporting the talk of the students. Several original or memorable elements were added.

Video	
Criteria Description	
Overall, how much did you enjoy the video? (10%)	This criterion evaluates the general impression and emotional impact of the video on the viewer. It takes into account how enjoyable, engaging, and memorable the video was as a whole, beyond its technical or scientific aspects. It reflects how well the video holds your attention, creates your interest, and leaves you a positive overall impression.

1-3	4-6	7-10
		

5.5 ANNEX V Recommended Consent Letter for Children Travelling Abroad

Recommended Consent Letter for Children Travelling Abroad

The following sample consent letter, provided by Foreign Affairs, Trade and Development Canada, can be modified to meet your specific needs. For instructions and an interactive form you can use to create a customized letter, visit travel.gc.ca/letter.

To whom it may concern:	
I / We	Full name(s) of parent(s)
Address:	street address, city
	country
Telephone and email:	telephone email
I am / are the parent(s), legal guardian(s) or other authorized person(s) or organization with custody rights, access rights or parental authority over the following pupil:	
Information about travelling pupil	
Name:	pupil's full name
Date and place of birth:	dd/mm/yyyy city, country
Number and date of issue of passport/ID card:	number dd/mm/yyyy
Issuing authority of passport/ID card:	country where passport was issued
Information about accompanying teacher/parent	
This pupil has my / our consent to travel with	
Name:	Full name of accompanying teacher
Number and date of issue of passport/ID card:	number dd/mm/yyyy
Issuing authority of passport/ID card:	country where passport was issued
Contact information during trip	
I / We give our consent for this pupil to travel to:	
Destination(s):	Budapest, Hungary
Travel dates:	name of destination country/countries 30th June 2019-05th July 2019
to stay with /at (if applicable)	date of departure to date of return
at the following address(es)	name of person with whom the pupil will be staying /university and accommodation Museum, c/o P., Budapest H-1111
	street address(es), city/cities
	Hungary
Telephone and email	province(s)/state(s), country (countries) +36 1 482 2822 Nuclearcompetition@neek.bme.hu
General Data Protection Regulation (EU 2016/679)	
By signing this document I / We give our consent for ENEN to use the pupil's given personal details and images (including any audio-visual motion picture and still photographs) within the frames of and for the purposes of the European Nuclear Competition for Secondary School Pupils and the summer school in accordance with the EU General Data Protection Regulation (EU 2016/679).	
Signature(s) of parent(s)	Signature of teacher
Full name(s) of parent(s)	Full name of teacher
signature(s) of parent(s)	signature of teacher
dd/mm/yyyy	dd/mm/yyyy city, country

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