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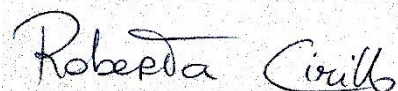

DELIVERABLE D6.5

Report on networking events

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Project information

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EXECUTIVE SUMMARY

This deliverable report contains the summary of the networking events that has been participated in during the project duration. The report also provides a summary over what participation and promotion that was carried out at the networking events attended in the project.

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1 INTRODUCTION

A-CINCH is an acronym standing for “Augmented Cooperation in education and training In Nuclear and radiochemistry”. CINCH is currently a continued series of projects aiming at promoting nuclear education, primarily targeting education in Europe. The CINCH projects and tasks has developed through the projects. The previous projects in the CINCH series were CINCH-I, CINCH-II and MEET-CINCH and today A-CINCH continues the task of producing and reaching out with high quality teaching material to the European education and nuclear communities.

The CINCH series has a tradition and history of developing online based material for education within the radiation sciences. A-CINCH continues this tradition but focus much more heavily on playful teaching through virtual laboratory exercises and gamification of the teaching material and learning goals.



Figure 1. A-CINCH approaches the teaching task through the self-interest and self-motivation of the young generation through playful and interactive teaching material.

A-CINCH has an objective of interacting with the broad non-scientific European community by development of teaching material and interaction with national education systems in Europe such as schools, universities and thus reach both teachers and students enrolled in educations on these various levels. Communication within A-CINCH has however not been limited to information directed at the perceived receivers of developed teaching material but also towards the scientific and industrial communities within the radiation science fields. This communication has largely been conducted through participation in various kinds of networking events such as international conferences and webinars for example. The networking and promoting activities engaged in during the project period is summarized within this report.

This report contains only publishable information relating to the project.

2 NETWORKING ACTIVITIES

Networking activities are essential to enhance outreach among the international nuclear community. Participation and communication at international conferences and congresses constitutes a foundation for communication within the nuclear society. Participation at such events does not only present an opportunity to communicate the work done within the CINCH consortium directly to students participating in the events but also to senior researchers and educators that can find utility for the developed teaching tools within their own teaching activities.

In order to be able to efficiently network and communicate there has to be something substantial to actually communicate. Therefore, the networking activities and organization within the A-CINCH project has not arranged as a completely separated entity within the project. Instead the strategy has been to try and allow the networking activities and project promotion walk hand in hand with the developmental work of the project tasks. By doing this the participating researchers themselves have been given increased opportunity to present the work tools developed during the project instead of invoking a linear communication plan where only appointed communicators spread information through more shallow summaries of the work performed. Figure 2 presents a schematic view of the project organization and how the contribution to networking distributes between the participants of the work tasks.

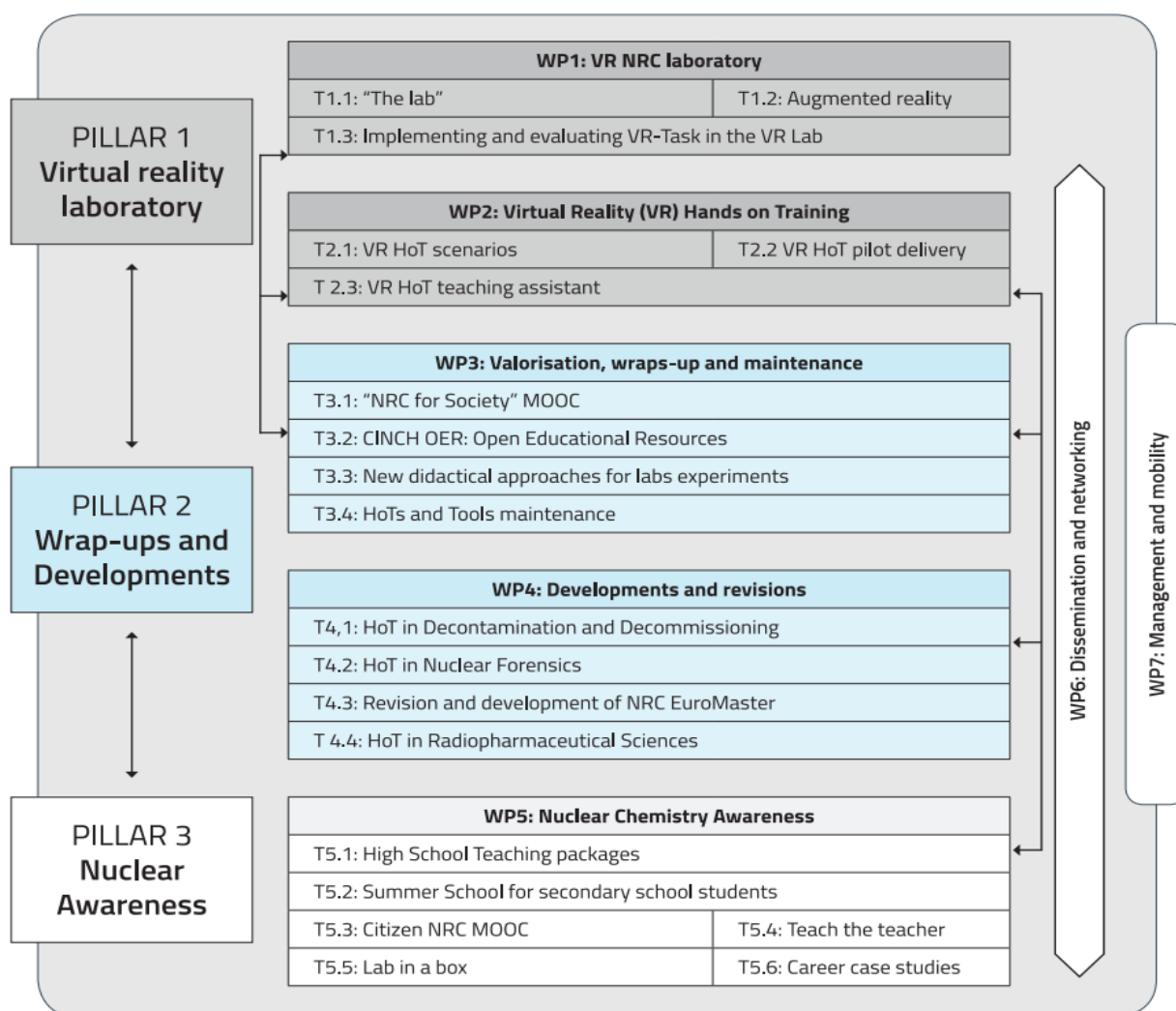


Figure 2. Schematic presentation of the work organization within A-CINCH. The dissemination and networking is designed to walk in pace with the development in the project.

In chapters 2.1 and 2.2 a comprehensive summary and explanation of all networking activities partaken in during the A-CINCH project is presented.

Due to the presence of a global pandemic, leading to various degrees of lock down throughout both Europe and the world, the ability for physical participation in networking events was reduced during parts of the project duration.

2.1 Networking activities summary

The comprehensive list of occasions where A-CINCH has been represented and/or presented is summarized in 4 tables below. The tables are categorized based on type of networking event.

Table 1. International conferences attended to present A-CINCH.

Presenting project partner	Presentation event and location	Presentation contribution
ENEN	30NENE Conference 2021, Bled, Slovenia	Participation in poster exhibition
ENEN	NESTet 2021 Conference, Brussels, Belgium	Oral presentation
ENEN	NUCLEAR 2022 Conference, Pitesti, Romania	Oral presentation
ENEN	FISA EURADWASTE 2022, Lyon, France	Oral presentation plus poster exhibition
ENEN	31NENE Conference 2022, Portorož, Slovenia	Oral presentation
POLIMI	RadChem 2022, Mariánské Lázně, Czech Republic	Two oral presentations given
CTU	RadChem 2022, Mariánské Lázně, Czech Republic	Oral presentation
NTU	14 th International Symposium on Nuclear and Environmental Radiochemical Analysis, York, United Kingdom	Participation in poster exhibition
POLIMI	ICARST 2022, Vienna, Austria	Oral presentation
UiO	ICARST 2022, Vienna, Austria	Oral presentation plus conference proceeding article
ENEN	ICOND 2022 Conference, Aachen, Germany	Oral presentation
CTU	3 rd International conference on Radioanalytical and Nuclear Chemistry, Budapest, Hungary	Two oral presentations given
ENEN	ANIMMA 2023 Conference, Lucca Italy	Oral presentation

Table 2. Annual meetings/symposiums and special events where A-CINCH was represented and/or presented.

Presenting project partner	Presentation event and location	Presentation contribution
CTU	73 rd Annual Congress of the Slovak and Czech Chemical Societies, High Tatras, Slovakia	Oral presentation
ENEN	World Nuclear Exhibition 2021, Paris, France	Oral presentation
ENEN	SNETP Euratom Coordinators Hub day (2023), Brussels, Belgium	Oral presentation
POLIMI	EMOOCs 2023: European MOOCs Stakeholders Summit, Potsdam, Germany	Conference proceeding published
CTU	Consultancy Meeting on Upgrading E-learning Modules on Decommissioning, Vienna Austria	Oral presentation
ENEN	ENYGF 2023 (career day event), Krakow Poland	Poster presentation
ENEN	ENEN 20 th Birthday event (2023)	Poster presentation
LUH	52nd annual meeting of Association for radiation protection of Germany and Swiss, Aachen, Germany	Oral presentation
LUH	IRPA2022 6 th European Congress on Radiation Protection, Budapest, Hungary	Oral presentation
LUH	54th annual meeting of Association for radiation protection of Germany and Swiss, Mondsee, Austria	Oral presentation

Table 3. Online events where A-CINCH was represented.

Presenting project partner	Presentation event	Presentation contribution
CTU + ENEN	ENEN Special Event 2021	Oral presentation
POLIMI	Miller online workshop on radiation chemistry	Oral presentation
CTU + ENEN	ENEN Special Event 2022	Oral presentation
ENEN	ENEN Webinar on supporting career paths in the nuclear field (2023)	Oral presentation

In addition to the representation of A-CINCH both at physical as well as online events article publications has been/are being performed to promote the project. The publications representing A-CINCH are:

- Proceeding article in relation to participation in NENE2021 conference in Bled Slovenia
- Negrin et al. A MOOC in Nuclear- and Radio-Chemistry: from the design to the feedback. *J. Radioanal. Nucl. Chem.*, 10.1007/s10967-022-08489-6
- Salina, O et al. Robolab: providing remote access to a physical radiochemistry laboratory for teaching and training, *Journal of Radioanalytical and Nuclear Chemistry*, <https://doi.org/10.1007/s10967-022-08589-3>
- Schuette et al. A teaching concept for school experiments on radioactivity using augmented reality methods. *Radiation Protection Dosimetry*, <https://doi.org/10.1093/rpd/ncad071>

2.2 Networking activity descriptions

Here follows a short summary of each networking activity partaken in and when possible, an estimate of how large the outreach was measured in number of people reached during the event. The event descriptions are presented in the same order as in tables 1-3.

Networking activities at international conferences:

NENE2021 Conference:

A-CINCH was presented and promoted at the poster session at the International Conference Nuclear Energy for New Europe September 6th-9th 2021. The conference focuses on gathering a wide range of the nuclear competence field such as research institutes, educational providers, commercial entities and regulatory bodies. 236 participants from 22 different countries were registered to the event and about 170 people was estimated to physically have partaken in the event (held as a hybrid conference due to COVID-19 restrictions). An article was also published in the conference proceedings. [NENE conference 2021 \(djs.si\)](https://www.djs.si)

NESTet 2021 Conference:

The NESTet 2021 conference was hosted as a hybrid event (again due to global pandemic). A-CINCH was presented and promoted at the physical event to an audience estimated to be about 100 persons. <https://enen.eu/index.php/2021/06/09/nestet-2021-conference/>

NUCLEAR 2022 Conference:

NUCLEAR 2022 was hosted in Pitesti Romania 18th-20th of May 2022. A-CINCH was presented during an oral presentation session and the A-CINCH poster was exposed. The talk was titled "Opportunity in Nuclear Education" The audience for the presentation was estimated to about 120-150 people. The audience was predominantly students and participated via online means. <https://nuclear.ro/conferinta/>

FISA EURADWASTE 2022:

The conference was held in between the 30th of May and the 3rd of June. The conference was visited by around 500-600 people and A-CINCH was promoted both at the poster session and as one part of Euratom activities among others in an oral presentation. https://research-and-innovation.ec.europa.eu/events/upcoming-events/fisa-2022-euradwaste-22-2022-05-30_en

31NENE Conference:

At the 31st NENE Conference in Portorož Slovenia A-CINCH was represented in an oral presentation. The event gathered 219 participants from 18 countries. <https://www.djs.si/nene2022/>

RadChem 2022:

A-CINCH was presented at RadChem 2022. Three oral presentations were given, the first being titled “A MOOC in Nuclear- and Radio-Chemistry: from the design to the feedback”, the second “Usage model design for better exploiting a MOOC in Nuclear- and Radio-Chemistry” <https://indico.fifi.cvut.cz/event/195/> , and the third “A-CINCH: Augmented Cooperation in Education and Training in Nuclear and Radiochemistry”.

14th International Symposium on Nuclear and Environmental Radiochemical Analysis:

The conference was held in York, UK, between the 12th to the 15th of September 2022. A-CINCH was presented and promoted at the poster session of the conference. <https://www.rsc.org/events/detail/46636/14th-international-symposium-on-nuclear-and-environmental-radiochemical-analysis-era14>

ICARST 2022:

The second international conference on applications of radiation science and technology was held in Vienna, Austria and A-CINCH was promoted and presented as an oral presentation titled “How a MOOC in Nuclear- and Radio-Chemistry can be a flexible and adaptable educational resource”

<https://www.iaea.org/events/icarst-2022>

ICARST 2022:

A second contribution was presented at ICARST 2022. A-CINCH was represented by both an oral presentation and by a conference proceeding paper. The paper was titled “RoboLab: providing remote access to a physical radiochemistry laboratory for teaching and training”.

[RoboLab: providing remote access to a physical radiochemistry laboratory for teaching and training | Journal of Radioanalytical and Nuclear Chemistry \(springer.com\)](#)

ICOND Conference:

A-CINCH was presented and promoted during the ICOND Conference 2022. The conference was visited by more than 460 participants and 51 companies. [WELCOME - ICOND INTERNATIONAL](#)

3rd International conference on Radioanalytical and Nuclear Chemistry:

A-CINCH was presented by an oral talks titled “CINCH HUB: Portal for Nuclear – and Radiochemistry Education and Awareness” and “A-CINCH project: Summary of the latest developments” at the 3rd International conference on Radioanalytical and Nuclear Chemistry. The conference was visited by more than 250 participants from 40 countries. <https://akcongress.com/jrnc-ranc/>

ANIMMA Conference:

An oral presentation titled “Challenges in ensuring excellence in nuclear education over multiple fields” promoting A-CINCH was presented. The audience consisted of both students, academia and

industry and was estimated to be about 400 people that attended the conference .
<https://animma.com/>

Networking activities at annual meetings/symposiums and special events:

73rd Annual Congress of the Slovak and Czech Chemical Societies:

A-CINCH was promoted by oral presentation at the 73rd annual congress of the Slovak and Czech Chemical Societies. The event gathered almost 400 participants.
<https://www.degruyter.com/document/doi/10.1515/ci-2022-0128/html>

World Nuclear Exhibition:

Presentation and promotion of A-CINCH at the day dedicated to the students. The event was attended by about 100 students, with about 60 attendees online and 40 physically present.

SNETP Euratom Coordinators Hub day:

ENEN presented its project portfolio of Euratom funded actions, including A-CINCH. The event gathered about 40 participants in person.

EMOOCs 2023: European MOOCs Stakeholders Summit:

Conference proceeding on A-CINCH activities published in association with the event.
<https://emoocs.hpi.de/>

Consultancy Meeting on Upgrading E-learning Modules on Decommissioning:

An oral presentation titled “A-CINCH: Augmented cooperation in education and training in nuclear and radiochemistry” was given, promoting the A-CINCH project.

ENYGF 2023 (career day event):

A-CINCH was presented by poster at this career day event. Approximately 300 people were estimated to visit the career day occasion.

ENEN 20th Birthday event:

A-CINCH was promoted by a poster presentation at the ENEN 20th Birthday event with approximately 150 attendees. <https://enen.eu/index.php/about-enen/community/20th-birthday-of-enen/>

52nd annual meeting of Association for radiation protection of Germany and Swiss

The 52nd annual meeting of Association for radiation protection of Germany and Swiss was held between the 13th and the 19th of September 2021 in Aachen, Germany. A-CINCH was presented by an oral presentation at the event.

IRPA2022

The 6th European Congress on Radiation Protection was held in Budapest, Hungary, between the 30th of May and the 3rd of June 2022. The event gathered nearly 450 attendees and the A-CINCH project was promoted at the event by an oral presentation.

54th annual meeting of Association for radiation protection of Germany and Swiss

The event was hosted at Mondsee, Austria, between the 18th and 22nd of September 2023. A-CINCH was promoted and presented by an oral presentation at the meeting.

Online events:

ENEN Special Event 2021:

Oral presentation promoting A-CINCH given at the ENEN special event 2021. [ENEN Special Event 2021 – European Nuclear Education Network](#)

Miller online workshop on radiation chemistry:

Oral presentation promoting A-CINCH given at the online workshop. <https://miller-workshop.sciencesconf.org/>

ENEN Special Event 2022:

The A-CINCH coordinator presented the A-CINCH project at the online ENEN special event 2022. <https://enen.eu/index.php/2022/02/18/enen-special-event-2022/>

ENEN Webinar on supporting career paths in the nuclear field:

Promotion of the A-CINCH project performed at the online webinar. It was estimated that about 100 people participated in the event. [PAST-STUDENTS and EXPERTS WEBINARS in NUCLEAR ENERGY – European Nuclear Education Network \(enen.eu\)](#)

3 CONCLUSIONS

Participation in several kinds of events and media have been utilized in order to present as well as represent the A-CINCH project and its goals and visions. The networking activities participated in have been regarded as an important pathway for spreading knowledge on the projects work and development within groups that are of importance for nuclear and radiation education, without themselves being primary recipients of developed project material in the way that end users such as students and teachers are. The networking activities partaken in during the project are deemed to have been successful and beneficial to the A-CINCH project.