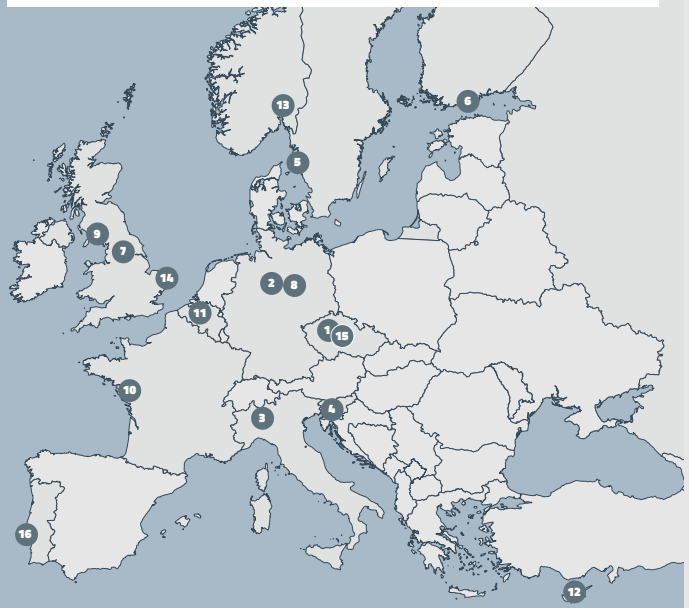
List of partners

1 Coordinator: Czech Technical University in Prague (CTU), Czech Republic
2 Gottfried Wilhelm Leibniz University Hannover (LUH), Germany
3 Politecnico di Milano (Polimi), Italy
4 Institut Jozef Stefan (JSI), Slovenia
5 Chalmers Tekniska Hoegskola Ab (Chalmers), Sweden
6 Helsingin Yliopisto (UH), Finland
7 University of Leeds (UNIVLEEDS), United Kingdom
8 Otto-von-Guericke University Magdeburg (OVGU), Germany
9 National Nuclear Laboratory Limited (NNL), United Kingdom
10 Institut Mines-Telecom (IMT), France
11 European Nuclear Education Network (ENEN), Belgium
12 University of Cyprus (UCY), Cyprus
13 Universitetet i Oslo (UiO), Norway
14 The Secretary of State for Environment, Food and Rural Affairs (CEFAS), United Kingdom
15 Evalion s.r.o. (Evalion), Czech Republic
16 Instituto Superior Tecnico (IST), Portugal



Project linked with European Network on Nuclear and Radiochemistry Education and Training, *www.nrc-network.org*

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www.cinch-project.eu

Augmented cooperation in education and training in nuclear and radiochemistry

AUGMENTED CINCH

Expertise in nuclear and radiochemistry (NRC) is of strategic relevance to the whole nuclear energy sector, and in parallel it ranges from life sciences – e.g. nuclear medicine and radiology - through dating in geology and archaeology to (nuclear) forensics and safeguards, radiation protection, and radioecology. The A-CINCH project primarily addresses the young generation's loss of interest for nuclear knowledge by focusing on secondary education, using a "Learn through Play" concept to engage with students and teachers.

Aims and objectives

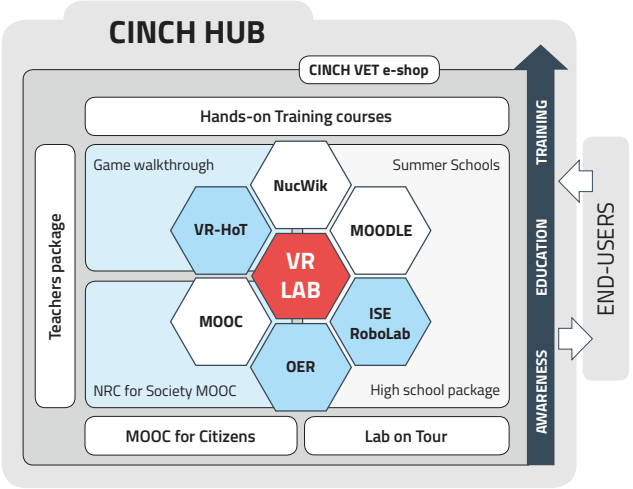
The overall objective of the project is to set up the **CINCH Hub platform**. The platform incorporates all previous CINCH results and completes it with newly developed courses and tools. It also implements a highly innovative Virtual Laboratory and wraps it all up into a user-friendly and easy-to-navigate single page interface. Utilizing a well balanced mix of e-learning and traditional teaching methods in nuclear and radiochemistry education aims to increase the number of students and trainees in the field. To address the new target groups directly and efficiently attract the attention of secondary school students, new didactical tools, suitable for today's youth, are used.

CINCH tools and techniques

CINCH teaching tools and advanced educational techniques

- state-of the art **3D VR NRC laboratory** (VR-LAB)
- **Massive Open Online Courses** (MOOCs)
- **CINCH MOODLE** e-learning platform for Nuclear Chemistry
- **RoboLab** remote operated robotic experiments
- **Interactive Screen Experiments** (ISE)
- **NucWik database** of teaching materials
- **Flipped Classroom concept** providing improved interaction between teachers and students
- **Hands-on-training courses** (HoT) in "real" radiochemistry laboratories across Europe
- **CINCH VET e-shop** offering, presenting and organising all types of NRC courses
- High School Teaching Package, Summer Schools for high school students, Teach the Teacher package, Lab on Tour toolkit

will be wrapped-up in the CINCH Hub – a user-friendly and easy-to-navigate single point of access.



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October 2020 – September 2023

Contact

Czech Technical University in Prague (www.cvut.cz)
Mojmír Němec, mojmir.nemec@fjfi.cvut.cz