

EURAD SCHOOL OF RADIOACTIVE WASTE MANAGEMENT

Niels Belmans (SCK CEN) & Michèle Coeck (SCK CEN)

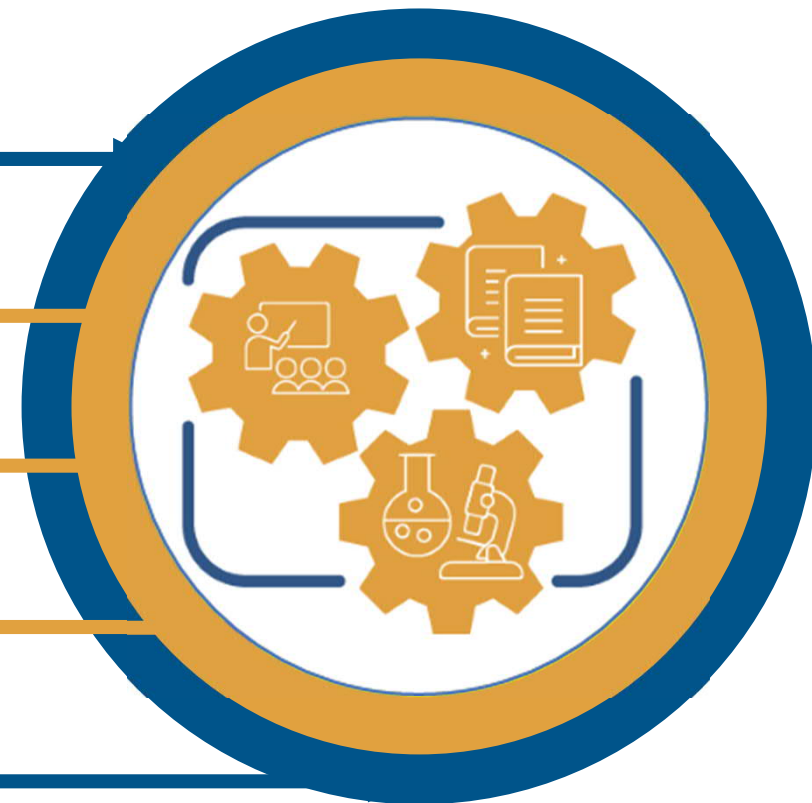
25 November 2021



The project leading to this application has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement n° 847593.

EURAD Knowledge Management & Networking Programme

- 1 Roadmap**
A common framework to structure knowledge
- 2 State of Knowledge**
What we know and why its important
- 3 Guidance**
Best practice and lessons learned
- 4 Training & Mobility**
Nuclear experience and know-how
- 5 Networking & Tools**
Connecting people to people, and people to content



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A common framework to structure knowledge

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EURAD Knowledge Management & Networking Programme

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→ “Enhance knowledge management and transfer” is one of EURAD’s main objectives

→ EURAD Knowledge Management & Networking Programme

EURAD Training and Mobility Work Package

Work Package Lead:



Partner organizations:





The EURAD School of Radioactive Waste Management

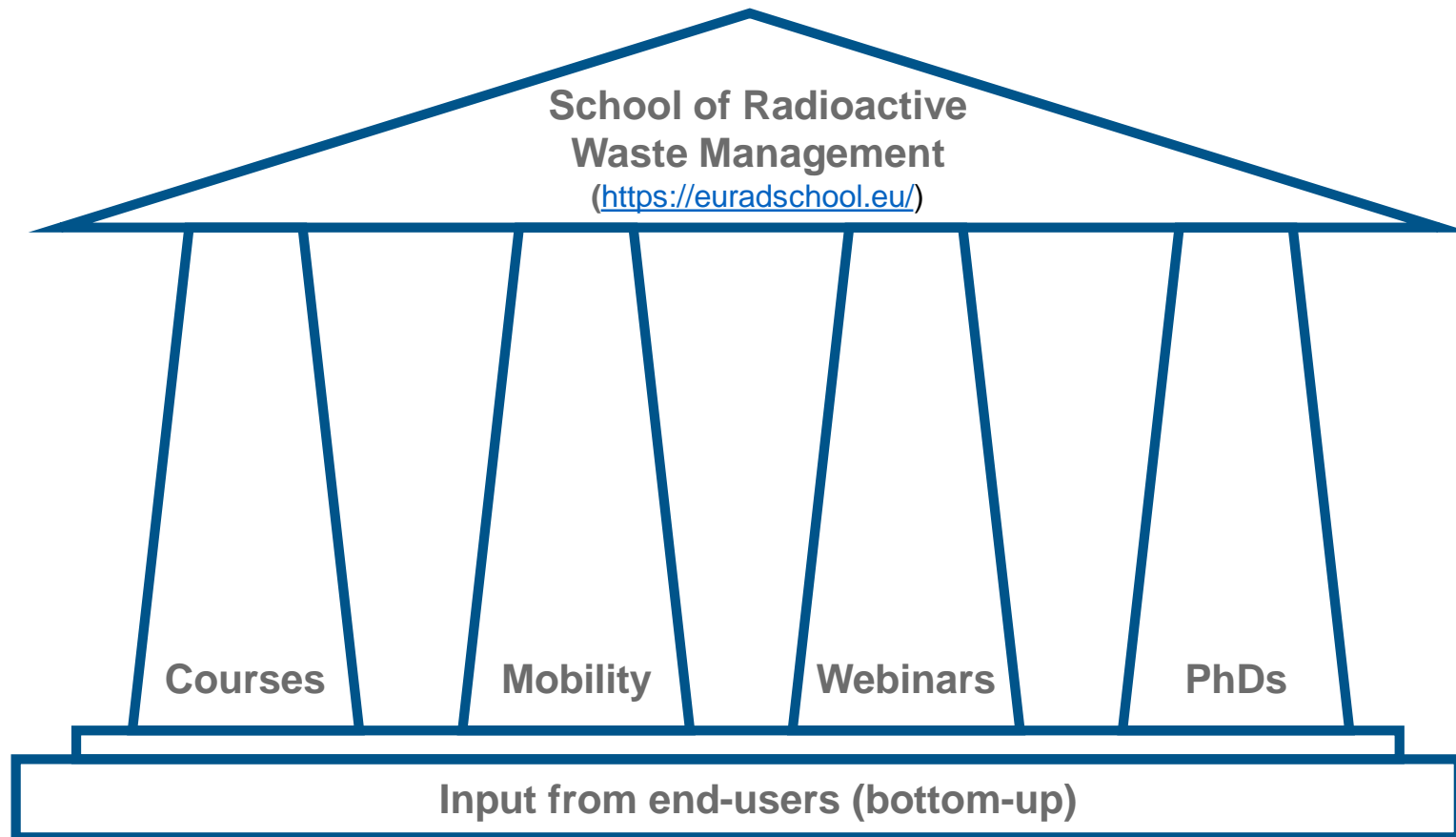
- **The School of Radioactive Waste Management (RWM) aims to assist end-users in:**
 - *“an integrated, systematic approach to identifying, **acquiring**, transforming, **developing**, **disseminating**, **using**, **sharing and preserving knowledge (and skills)**, relevant to achieving specified objectives”*



The EURAD School of Radioactive Waste Management

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- **To this end, the School supports competence (= knowledge, skills and attitudes) building**

The EURAD School of Radioactive Waste Management





EURAD School of RWM – Needs-driven training courses

- **Needs-driven**

- End-user feedback was gathered (March – May 2020): 80 respondents
- **Training needs** were identified (April 2021): 363 training needs, 262 of which were identified as difficult to find



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- Based on end-user needs and gap analysis
- In collaboration with RD&D and Strategic Studies WPs
- Provide access to nuclear experience and know-how of the EURAD subject matter experts



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- **Main goal: effective knowledge transfer and competence building towards end-users**



Eurad School of RWM – Needs-driven training courses

- **Implementation of training courses varies depending on the:**
 - Training needs
 - Target audience
 - Type of knowledge to be transferred (explicit vs implicit vs tacit)
 - Desired competences to be acquired
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- Based on IAEA’s Systematic Approach to Training
 - Analysis
 - Design
 - Development
 - Implementation
 - Evaluation



EURAD School of RWM – Mobility Programme

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- **EURAD partners can offer internships on the School website**



EURAD School of RWM – Webinars

- **The School organizes webinars on broad and specific topics by subject-matter experts, e.g.:**
 - Nuclear Knowledge Management
 - PREDIS
 - The US Nuclear Waste Management and Disposal Strategy
 - ...



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 - ...
- **Sharing knowledge with the entire EURAD community and beyond (e.g. IAEA, OECD-NEA, ...)**



EURAD School of RWM – Support the PhD community

- **The School wants to support the EURAD PhD community by providing:**
 - Information on available/upcoming courses
 - The possibility to perform mobility actions
 - An overview of all PhD research performed in EURAD (<https://euradschool.eu/overview-of-phds/>)
 - A list of events of interest for PhD students
 - A discussion forum (<https://forum.euradschool.eu/>)
- **The aim is to foster a community between the PhD students, researchers and the Training and Mobility work package**
 - ➔ **PhD students are the future key figures in radioactive waste management!**

How do we reach out to the School of RWM's end-users?

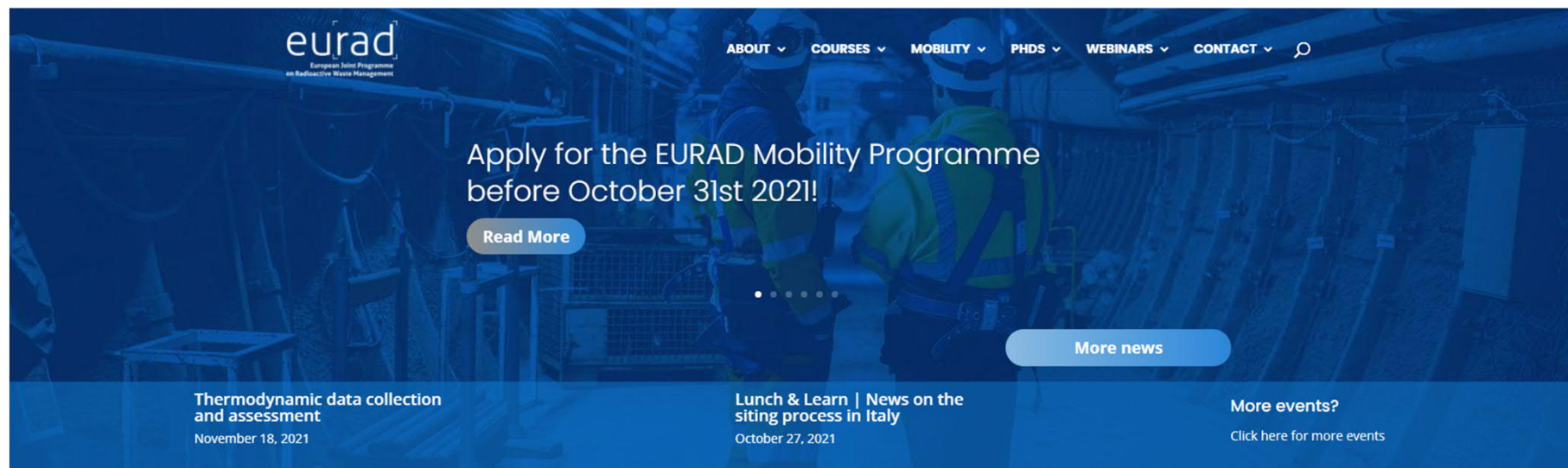


Date

Event

Website and discussion forum

Website was launched on December 21st 2020



EURAD Roadmap and the School of Radioactive Waste Management

The **EURAD Roadmap** is a representation of a generic radioactive waste management programme that shall enable users and programmes to 'click-in', and access existing knowledge and active work or future plans in EURAD and elsewhere. Therefore, activities of the School of Radioactive Waste Management will be linked to the Roadmap.



Website and discussion forum

Website was launched on December 21st 2020

Number of site visits as of November 2021:

- 1,596 new users
- 5,513 page views

Discussion forum was launched in June 2021



Website and discussion forum

The forum contains the following sub-forums:

- **EURAD School of Radioactive Waste Management**
 - Courses & Events
 - Mobility actions
 - PhD students
 - Publications
- **EURAD Roadmap**
 - Theme 1
 - ...
 - Theme 7
- **General**



EURAD School of RWM – Achievements – Training courses

Two training courses have been successfully organized:

- **‘Multiphysical couplings in geomechanics’**
 - January 22nd 2020 – January 24th 2020 (face-to-face)
 - 70 participants



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- **‘Introductory course to EURAD and Radioactive Waste Management’**
 - September 14th 2020 (online)
 - 260 participants
 - Recording of lectures is publically available and were viewed 537 times (as of September 2021)



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Three courses are currently planned:

- Uncertainty management
- EURAD Roadmap Domain Insights and State of Knowledge
- Safety case production and review



EURAD School of RWM – Achievements – Mobility Programme

- **Launched on April 8th 2020**
- **Guidelines, applications and evaluations via an online platform (Evalato)**
 - <https://pro.evalato.com/2185>
- **Numbers (as of October 2021)**
 - 12 applications (6 complete applications)
 - 4 mobility actions approved (2 still under review)
 - 2 mobility actions completed



Mobility Programme

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- **Beneficiaries are obliged to submit a mission report on their activities**
 - Mission report contains:
 - Agenda
 - Work performed
 - Techniques used
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 - Mission report contains:
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 - Work performed
 - Techniques used
 - Lessons learned
- **Mission reports are made available through School's website**
= sharing and distributing of knowledge

Webinars

- Webinars are open to all
- Recorded in order to preserve knowledge and facilitate dissemination (<https://www.youtube.com/playlist?list=PLahXOQn-bremN911IEn0w8yAzQyuUR3ky>)

The screenshot shows a YouTube playlist interface. The main video player on the left displays a video titled 'EU-PREDIS PROJECT OVERVIEW' with a duration of 52:17. Below the player, the playlist title 'EURAD | Lunch & Learn sessions' is visible, along with statistics: '11 video's • 340 weergaven • Laatst geüpdatet op 28 okt. 2021'. The playlist is sorted by 'SORTEREN'. The list of videos includes:

- Lunch & Learn | Synergies of EURAD with the PREDIS project addressing pre-disposal waste treatment (52:17)
- Lunch & Learn | News from the German Site Selection Procedure (1:02:40)
- Lunch & Learn | Celebrating 20 years of the IGSC (38:13)
- Lunch & Learn | Knowledge Management in Nuclear Organizations (53:23)
- Lunch & Learn | The IGD-TP: European WMOs coordinating international R&D activities (43:25)

Webinars

| Title | Date | # attendees | # views (YouTube)* |
|---|------------|-------------|--------------------|
| Synergies of EURAD with the PREDIS project addressing pre-disposal waste treatment; <i>Erika Holt (VTT)</i> | 28/10/2020 | 30 | 62 |
| News from the German Site Selection Procedure; <i>Astrid Göbel (BGE)</i> | 25/11/2020 | 19 | 77 |
| Celebrating 20 years of the IGSC; <i>Lucy Bailey (IGSC)</i> | 27/01/2021 | 45 | 34 |
| Knowledge Management in Nuclear Organizations; <i>Dinara Abbasova (HZDR)</i> | 24/02/2021 | 22 | 23 |
| The IGD-TP: European waste management organisations coordinating international R&D activities; <i>Irina Gaus (Nagra, IGD-TP)</i> | 31/03/2021 | 19 | 57 |
| The next-generation scientific research for the safe management of radwaste – EURADSCIENCE; <i>Christophe Bruggeman (SCK CEN)</i> | 28/04/2021 | 75 | 9 |
| Steps for Sharing (ERDO Association); <i>Ewoud Verhoef (ERDO)</i> | 26/05/2021 | 44 | 18 |
| The SITEX.Network; <i>D. Pelligrini (IRSN), F. Bernier (FANC), N. Zeleznik (NTW)</i> | 30/06/2021 | 53 | 16 |
| EC-JRC activities on RWM and decommissioning; <i>Manuel Martin-Ramos (EC-JRC)</i> | 29/09/2021 | 51 | 11 |
| US Nuclear Waste Management and Disposal Strategies; <i>Rodney Ewing (Stanford University and Spogli Institute)</i> | 06/10/2021 | 107 | 17 |
| News on the siting process in Italy | 27/10/2021 | 57 | 10 |

25/11/2021

PREDIS Knowledge Management webinar

* Up until November 15th 2021



Support PhD community

Two events were organized specifically aimed at the EURAD PhD Community:

- **EURAD PhD Event N°1**
 - September 15th 2020 (online)
 - 22 PhD students presented themselves and their work to the EURAD community
 - 65 EURAD experts attended this event
 - Recording was viewed 163 times (as of October 2021)



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- **PhD session during EURAD Annual Event N°1**
 - March 17th 2021
 - 6 PhD students presented the PhD work being done in each of the RD&D WPs
 - Presentations followed by short debate between PhD students and experts

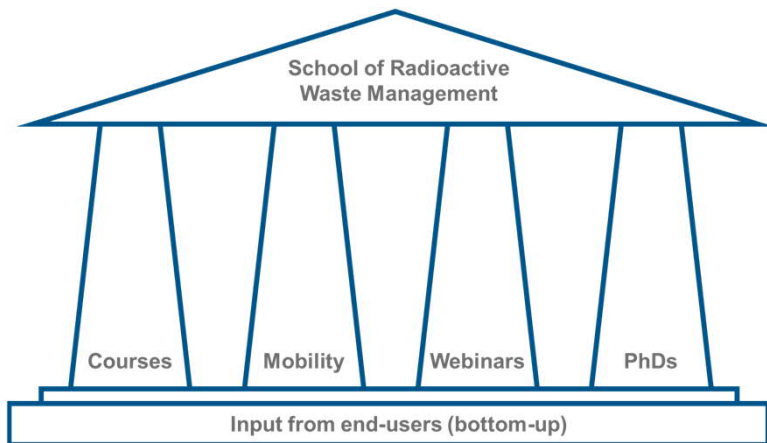


Increasing the visibility of the School's activities

To increase the visibility of the School's activities to our end-users, we participate to

- **EURAD Annual event**
- **International conferences**
- **Workshops on education & training and knowledge management**

Summary



- **School of RWM was successfully launched**
- **Trough its 4 pillars it is an integral part of EURAD's KM programme**
- **All initiatives are end-user needs-driven**
- **Outreach towards end-users and beyond through**
 - Website
 - Discussion forum
 - Mobility Programme mission reports
 - Webinars
 - Contribution to EURAD Annual event, conferences, workshops, webinars

QUESTIONS?

Niels Belmans (nbelmans@sckcen.be)



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