



Milestone 23: Updated list of infrastructures

Work Package 2 Knowledge Management



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Executive Summary

This milestone report describes work conducted under Sub-task 3.2 of EURAD-2 Work Package (WP) 2 Knowledge Management (KM), to produce an updated list of available Radioactive Waste Management (RWM) infrastructures. The updated list builds upon work undertaken in 2020, in support of the EURAD Mobility Programme, which was established to facilitate exchange of knowledge and skills amongst Radioactive Waste Management professionals, students and researchers. Output from this work area during EURAD-1 included a list of research infrastructures available to support the Mobility Programme with respect to the scientific and technological learning targets of the EURAD community.

The infrastructure list produced during EURAD-1 has been reviewed, and existing entries have been updated where appropriate to ensure accuracy and completeness, drawing on information provided from EURAD-2 partners and end users. New entries have been added to capture additional facilities including, but not limited to, facilities available to support mobility actions. In support of ongoing mobility actions organised under Sub-task 4 of WP2 KM, the updated list has also captured information on where there is potential for an infrastructure to support mobility actions and what types of collaborations could be facilitated. The updated list documented in this milestone report will shortly be reflected on the EURAD School of RWM website.

The updated list will be used in future work under Sub-task 3.2 to undertake an analysis of available infrastructures. This will involve identifying facility needs to support national programme delivery (now and in the future) and considering the availability of facilities to meet these needs. Outcomes of this work will be reported in EURAD-2 Deliverable D2.3 *“Report on recommendations for the long-term maintenance of critical infrastructures for RWM at the European level”*.

Keywords

Collaboration, Facility, Infrastructure, Knowledge Management, Mobility, Survey, Training

List of acronyms and abbreviations

ARAO	Agency for Radioactive Waste Management (<i>Slovenia</i>)
BAM	Federal Institute for Materials Research and Testing (Bundesanstalt für Materialforschung und -prüfung) (<i>Germany</i>)
BGE	Federal Company for Radioactive Waste Disposal (Bundesgesellschaft für Endlagerung) (<i>Germany</i>)
BGR	Federal Institute for Geosciences and Natural Resources (<i>Germany</i>)
CEA	Alternative Energies and Atomic Energy Commission (<i>France</i>)
CIEMAT	Centre for Energy, Environmental and Technological Research (<i>Spain</i>)
COVRA	The Central Organisation for Radioactive Waste (<i>The Netherlands</i>)
DEKOM	Dansk Decommissionering (<i>Denmark</i>)
ENEA	National Agency for New Technologies, Energy and Sustainable Economic Development (<i>Italy</i>)
EURAD-1	European Joint Programme on Radioactive Waste Management (2019-2024)
EURAD-2	European Partnership on Radioactive Waste Management (2024-2029)
EURIDICE	European Underground Research Infrastructure for Disposal of nuclear waste in Clay Environment
ASNR	Authority for Nuclear Safety and Radiation (<i>France</i>)
GSL	Galson Sciences Limited (<i>United Kingdom</i>)
HPC	High Performance Computing
JRC	Joint Research Centre (<i>European Commission</i>)
JSI	The Jožef Stefan Institute (<i>Slovenia</i>)
KIT-INE	Karlsruhe Institute of Technology, Institute for Nuclear Waste Disposal (<i>Germany</i>)
KM	Knowledge Management

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LILW	Low-Level and Intermediate-Level waste
PSI	Paul Scherrer Institute (<i>Switzerland</i>)
RATEN	Institute for Nuclear Research (<i>Romania</i>)
RE	Research Entity
RWM	Radioactive Waste Management
SCK-CEN	Belgian Nuclear Research Centre (<i>Belgium</i>)
SNETP	The Sustainable Nuclear Energy Technology Platform
SRA	Strategic Research and Knowledge Management Agenda
SSTC NRS	State Scientific and Technical Center for Nuclear and Radiation Safety (<i>Ukraine</i>)
SURAO	Radioactive Waste Repository Authority (<i>Czechia</i>)
SÚRO	Czech National Radiation Protection Institute (<i>Czechia</i>)
TNO	Netherlands Organisation for Applied Scientific Research (<i>The Netherlands</i>)
TSO	Technical Safety/Support Organisations
VTT	Technical Research Centre of Finland (<i>Finland</i>)
WMO	Waste Management Organisation
WP	Work Package

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1. Introduction

1.1 Context

The goals of Work Package (WP) 2 on Knowledge Management¹ (KM) within EURAD-2 are to continue, and build upon, the KM programme established during EURAD-1, and for KM activities to become self-sustaining in the next 10 to 20 years. EURAD-2 KM activities support the transfer of Radioactive Waste Management (RWM) knowledge between organisations and generations, by establishing an inclusive, collaborative framework linked to the EURAD Roadmap [1]. WP2 KM activities are divided into four tasks:

- **Knowledge capture (WP2 Task 2):** production of KM documentation following the priorities set within the EURAD Strategic Research and Knowledge Management Agenda (SRA).
- **Knowledge application & know-how development (WP2 Task 3):** providing guidance on best practices and available technologies, through the production and signposting of documentation reporting successful practices for RWM (sub-task 3.1), as well as through the analysis of available RWM infrastructures within Member States (sub-task 3.2).
- **Competence building (WP2 Task 4):** closing generational competence gaps between members of the EURAD-2 Community, advanced and less advanced Member States, and sharing knowledge with the new generation of experts in the field of RWM, through the School of Radioactive Waste Management. This includes the provision of training, a mobility programme and mentoring & networking opportunities.
- **KM programme tools and methods (WP2 Task 5):** further building on KM platform specifications developed in EURAD-1, implementing effective data management approaches; developing methodologies to keep knowledge available over the long term, managing access to lost knowledge, and testing new and innovative tools and methods.

1.2 Sub-task 3.2

Sub-task 3.2 is focussed on European infrastructures for Radioactive Waste Management. This includes, for example, Research Entities (REs), laboratories, computing clusters, facilities for treatment, storage and/or disposal of radioactive waste, and training facilities. The overall goal of this sub-task is to initiate a reflection and possible initiative to maintain on the long term the most critical infrastructures (typically present now within more advanced and/or larger national programmes) for RWM on a European-level, by allowing them to be shared between different national programmes, but also by examining possible ways to maintain and develop them at the state-of-the-art. The emphasis is on critical infrastructures underpinning radioactive waste management activities, thereby complementing other available catalogues of facilities (such as the catalogue produced by the OFFERR project [2] which focuses on nuclear research facilities).

There are two parts to the task objectives:

- Firstly, to maintain a list of available infrastructures, identifying where there is potential to host mobility actions over the course of EURAD-2.
- Secondly, to use this list to facilitate a mapping exercise of available infrastructures, considering RWM infrastructure requirements across the EU and the extent to which these are expected to be met based on existing and currently planned facilities.

This milestone report describes work undertaken in 2025 to address the first part of these objectives: the list of currently available infrastructures.

¹ Knowledge Management describes a sustainable, collaborative framework for managing and sharing knowledge related to Radioactive Waste Management (RWM) and geological disposal.

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Sub-task 3.2 builds upon work undertaken in 2020, in support of the EURAD Mobility Programme, which was established to support exchange of knowledge and skills amongst Radioactive Waste Management professionals, students and researchers [3]. Output from this work area during EURAD-1 included a list of research infrastructures available to support the Mobility Programme with respect to the scientific and technological learning targets of the EURAD community [4]. Inputs to the EURAD infrastructures list were obtained via a survey organised in 2020 by EURAD-1 WP13 on Training & Mobility.

Work has been undertaken under sub-task 3.2 to update the existing list of infrastructures, to ensure that entries remain accurate and as complete as possible. An effort was also dedicated to adding information on additional facilities, recognising both the time elapsed since the original survey was conducted, and the accession of new organisations as EURAD-2 partners, end users and stakeholders.

Whilst updating the list, consideration was given to other existing European databases concerning infrastructures. In particular, the catalogue produced by the OFFERR project [2] under the auspices of The Sustainable Nuclear Energy Technology Platform (SNETP). Consideration of the OFFERR catalogue found that many parts of it are not relevant to EURAD-2, being focused on e.g. operating nuclear facilities, rather than radioactive waste management, and some sections that are relevant (e.g., the nuclear waste section) are not very extensive. This highlighted the need to update the EURAD list as a complementary source of information.

The updated list includes entries capturing available RWM infrastructures including, but not limited to, those available to support EURAD-2 mobility actions. The updated list will shortly be reflected on the EURAD School of RWM website. Information on entries in the updated list has been obtained by means of a survey developed on the EUSurvey platform [5]. The approach to the survey is discussed in Section 2, and the responses received are presented in Section 3. Conclusions and further work are indicated in Section 4.

EURAD-2 partners involved in sub-task 3.2 include Galson Sciences Ltd. (GSL), Amphos 21, Karlsruhe Institute of Technology Institute for Nuclear Waste Disposal (KIT-INE), the Belgian Nuclear Research Centre (SCK-CEN), and the German Federal Company for Radioactive Waste Disposal (Bundesgesellschaft für Endlagerung, BGE). Danish Decommissioning (DEKOM) also played a role in the initiation of the task and remains an interested party.

2. Approach to update list of RWM infrastructures

2.1 Existing EURAD infrastructure list

The existing EURAD infrastructure list is available on the EURAD School website: <https://euradschool.eu/infrastructures/> [4]. It was developed in 2020 with inputs obtained via a survey organised by EURAD(-1) WP13 on Training & Mobility. The survey gathered information from EURAD partners and end users with the primary aim of capturing infrastructures available to support the mobility programme [3]. Therefore, it is not comprehensive in its coverage of currently available infrastructures and facilities.

The existing list has 63 entries and is presented with a search function and contact form. A screenshot showing a portion of the list is presented in *Figure 2-1*. The list is in the form of a table, with six columns capturing for each entry the following information:

- **Infrastructure name** – each infrastructure name is presented as a hyperlink to a short description of the infrastructure. In some instances, this description also includes a link to the relevant website or contact email address.
- **Host organisation** – some host organisations have multiple entries covering different infrastructures.
- **Type of infrastructure** – such as a research laboratory or storage facility.
- **Contact person** – in some instances a name or contact email address is supplied.
- **Type of organisation** – this is either a Research Entity (RE), Waste Management Organisation (WMO) or Technical Safety/Support Organisations (TSO).
- **Country** – the country in which the infrastructure is located.

Infrastructure	Host organization	Type of infrastructure	Contact person	Type of organization	Country
Waste Management Plant	Nuclear Engineering Siebersdorf GmbH	Research laboratory	office@nes.at	Waste Management Organization	Austria
HADES Underground Research Laboratory	EURIDICE	Underground laboratory	Jan Rypens and Xian Ling Li	Research Entity	Belgium
Laboratories for Waste and Disposal research	SCK CEN	Targeted Medium term Infrastructure (TAMI)	Christophe Bruggeman	Research Entity	Belgium
Mobile Group	SURO	Research laboratory	Published when available	Technical Support Organization	Czech Republic
Radon Laboratory	SURO	Research laboratory	Published when available	Technical Support Organization	Czech Republic
Laboratory of Radiochemistry	SURO	Research laboratory	Published when available	Technical Support Organization	Czech Republic
Radiochemical Laboratories (CTU)	Czech Technical University	Research laboratory	Jan Kozempel	Research Entity	Czech Republic
Training Reactor VR-1	Czech Technical University	Research reactor	cooperation@reactor-VR1.cz	Research Entity	Czech Republic
Josef Underground Laboratory	Czech Technical University	Underground laboratory	Dana Pacovska	Research Entity	Czech Republic
The Bukov Underground Research Facility	SURAO	Underground laboratory	Jan Smutek	Waste Management Organization	Czech Republic
Computing, cluster and software lab (Charon)	TUL	Modelling/simulations	Jan Březina	Research Entity	Czech Republic

Figure 2-1: A portion of the existing EURAD infrastructure list [4].

2.2 Review of existing EURAD infrastructure list

Initial work to update the list of available RWM infrastructures involved reviewing the existing list on the EURAD School of RWM website [4]. Review of the existing list was undertaken to:

- Identify where entries appear incomplete or have missing information.
- Consider the column headings and whether there is a need to capture other information via additional column headings.
- Check that all existing entries on the list are partners of EURAD-2.
- Identify countries with EURAD-2 partners / end users that have limited or no entries on the list.

It was found that a notable omission for many entries on the list was an individual named point of contact, including an email address, associated with the infrastructure. This information is important to meet the task objectives, as it will provide a point of contact for those interested in pursuing a potential mobility action involving a specific infrastructure to make enquiries, as well as being useful for exploring aspects such as the operational scope and anticipated operating timescale of the facility. Therefore, the updated list aims to include this. It was also noted that it would be beneficial to capture information on whether an infrastructure is available to support mobility actions and what types of activities this could include.

All existing entries on the list were found to be partners of EURAD-2. Therefore, any information request sent to EURAD-2 contacts will encompass all existing entries, with no need identified to issue a request for review more widely than this. Some countries were identified to be missing from the existing list; however, for this first update conducted during EURAD-2, no attempt was made to target specific countries; instead, the same request for information was made to all EURAD-2 partner, end user and stakeholder organisations.

2.3 2025 infrastructure survey

The request for information required to update the list of RWM infrastructures was made to the EURAD-2 community of partners, end-users and stakeholders via a survey. The objectives of the survey were for participants to review, confirm and update existing entries on the EURAD School list [4], add any new RWM infrastructures not covered by the existing list (not limited to those available to support mobility actions), and to ensure a point of contact is provided for enquiries. Another aim of the survey was to provide countries and organisations without infrastructures detailed in the existing list another opportunity to be included, and to enable identification of organisations which do not have infrastructures to contribute.

The survey, displayed in 5, was developed and hosted on the EUSurvey platform [5], the preferred tool for conducting surveys within EURAD-2. The survey included the following:

- Firstly, information about the respondent and their organisation. Individual respondent contact details were included for traceability and possible further queries. A request for the type of organisation, for example, WMO, RE or TSO, was included for consistency with the existing list, as well as the country to support the future mapping exercise.
- Next, the respondent was asked whether their organisation is already included in the existing EURAD School list (**Question 1**) and subsequently:
 - If yes, whether they would like to make any updates to existing entries or add new entries (**Question 2**).
 - If no, whether they would like to propose a new entry or entries (**Question 3**).
- A table was included to capture updates to existing entries and/or to provide new entries. The purpose of the table was to ensure respondents provide contact details for each individual infrastructure (not solely the respondent contact details provided earlier in the survey), to document the type of infrastructure and whether it is available for EURAD-2 mobility actions.
- Final questions gave respondents the opportunity to detail what their organisation could potentially offer in support of mobility actions (**Question 4**) and to provide further description of

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potential collaborations (**Question 5**). These questions were included primarily to support future work to undertake a mapping exercise considering the available infrastructures.

3. Responses

3.1 Updated list of infrastructures

Responses to the survey were requested via email, including reminder emails, and follow-up contacts / clarifications were made where necessary. Responses were also encouraged through face-to-face interactions such as during the EURAD-2 first annual event in Bologna, September 2025.

The existing list included 63 infrastructures from 29 organisations [4]. Responses to the survey were received from 39 organisations and identified 36 new infrastructures (which were not included in the existing list [4]) as well as updates to 12 existing entries. Various existing entries were also confirmed to remain up to date, requiring no changes.

Survey responses have been collated and, together with additional information obtained from contact with individual respondents where required and the existing EURAD School list, used to produce the updated list of infrastructures. The updated list is shown in *Table 3-1*. Note that contact details for each organisation and infrastructure have been redacted here; please contact EURAD management should these be required. The updated list will shortly be published on the EURAD School website where it will additionally include a description of each infrastructure and further information supplied in some cases concerning the possibility for mobility actions. At all times, the list presented on the EURAD School website should be regarded as the primary point of reference for EURAD infrastructures information, recognising that this milestone presents data at a 'snapshot' in time, and that further updates are anticipated over the course of the programme.

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Table 3-1 : Updated list of infrastructures. Entries highlighted in orange are new infrastructures that were not included in the existing list compiled in 2020 [4]. Entries highlighted in green were included in the existing list but have undergone some updates. Entries with no colour were included in the existing list and have not had any updates. Note that contact details for each organisation and infrastructure have been redacted here; please contact EURAD management should these be required.

Number	Infrastructure	Host organisation	Organisation type	Infrastructure type	Possibility for mobility actions	Country
1	Waste management Plant	Nuclear Engineering Seibersdorf GmbH	Waste Management Organisation	Research laboratory	Yes	Austria
2	Laboratories for Waste and Disposal research	Belgian Nuclear Research Centre	Research Institute	Targeted Medium term Infrastructure (TAMI)	No Response	Belgium
3	HADES Underground Research Laboratory	European Underground Research Infrastructure for Disposal of nuclear waste in Clay Environment (EURIDICE)	Research Entity	Underground laboratory	Yes	Belgium
4	"Laboratory for simulation modelling of processes in nuclear power plants" at the Department of Thermal and Nuclear Power Engineering	Technical University of Sofia	Research Entity	Education and Research Laboratory	No	Bulgaria
5	"Radiation protection laboratory" at the Department of Thermal and Nuclear Power Engineering	Technical University of Sofia	Research Entity	Education and Research Laboratory	No	Bulgaria
6	"Nuclear Energy Demonstration Laboratory" at the Department of Thermal and Nuclear Power Engineering	Technical University of Sofia	Research Entity	Education and Research Laboratory	No	Bulgaria
7	Mobile Group	Czech National Radiation Protection Institute (SÚRO)	Technical Safety Organisation	Research laboratory	Yes	Czech Republic

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Number	Infrastructure	Host organisation	Organisation type	Infrastructure type	Possibility for mobility actions	Country
8	Radon Laboratory	Czech National Radiation Protection Institute (SÚRO)	Technical Safety Organisation	Research laboratory	Yes	Czech Republic
9	Laboratory of Radiochemistry	Czech National Radiation Protection Institute (SÚRO)	Technical Safety Organisation	Research laboratory	Yes	Czech Republic
10	ÚJV - Disposal Processes and Safety Laboratory	ÚJV Řež, a. s.	Research Entity	Research laboratory	Yes	Czech Republic
11	ÚJV - Central Analytical Laboratory	ÚJV Řež, a. s.	Research Entity	Analytical and radioanalytical laboratory	Yes	Czech Republic
12	ÚJV - Waste Management Centre	ÚJV Řež, a. s.	Research Entity	Waste treatment facility	Yes	Czech Republic
13	Fuel Cycle Chemistry Laboratory	ÚJV Řež, a. s.	Research Entity	Research laboratory	No Response	Czech Republic
14	Josef Underground Laboratory	Czech Technical University in Prague	Research Entity	Underground Laboratory	Yes	Czech Republic
15	Radiochemical Laboratories (CTU)	Czech Technical University in Prague	Research Entity	Research laboratory	No Response	Czech Republic
16	Training Reactor VR-1	Czech Technical University in Prague	Research Entity	Research reactor	No Response	Czech Republic
17	The Bukov Underground Research Facility	Czech Radioactive Waste Repository Authority (SURAO)	Waste Management Organisation	Underground laboratory	Yes	Czech Republic
18	Computing, cluster and software lab (Charon)	Technical University of Liberec	Research Entity	Modelling/simulations	No Response	Czech Republic

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Number	Infrastructure	Host organisation	Organisation type	Infrastructure type	Possibility for mobility actions	Country
19	Low Level Waste and Intermediate Level Waste Storage Facilities	Danish Decommissioning (DEKOM)	Waste Management Organisation	Storage facility	Yes	Denmark
20	Chemistry and Environmental Laboratory (Bioruukki)	Technical Research Centre of Finland (VTT)	Technical Safety Organisation	Research laboratory	Yes	Finland
21	Robotics and Remote Handling Laboratory	Technical Research Centre of Finland (VTT)	Technical Safety Organisation	Research laboratory	No Response	Finland
22	Monitoring/Metrology Laboratory (MIKES)	Technical Research Centre of Finland (VTT)	Technical Safety Organisation	Research laboratory	Yes	Finland
23	Senior Development (Micronova) laboratories	Technical Research Centre of Finland (VTT)	Technical Safety Organisation	Research laboratory	Yes	Finland
24	Materials and Structural Research Laboratory	Technical Research Centre of Finland (VTT)	Technical Safety Organisation	Research laboratory	Yes	Finland
25	Centre for Nuclear Safety (CNS)	Technical Research Centre of Finland (VTT)	Technical Safety Organisation	Research laboratory	Yes	Finland
26	X-ray tomography laboratory	University of Jyväskylä	Research Entity	Research laboratory	Yes	Finland
27	Olkiluoto Low-Level and Intermediate-Level waste (LILW) disposal site	Teollisuuden Voima Oyj	Waste Management Organisation	LILW disposal site	No	Finland
28	Espoo research laboratory	Geological Survey of Finland GTK	Research Entity	Research laboratory	Yes	Finland
29	Paris-Saclay Research Center	The French Alternative Energies and Atomic Energy Commission (CEA)	Research Entity	Research laboratories	No Response	France

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Number	Infrastructure	Host organisation	Organisation type	Infrastructure type	Possibility for mobility actions	Country
30	Marcoule Research Center	The French Alternative Energies and Atomic Energy Commission (CEA)	Research Entity	Research laboratories	Open for Discussion	France
31	Cadarache Research Center	The French Alternative Energies and Atomic Energy Commission (CEA)	Research Entity	Research laboratories	Open for Discussion	France
32	INSTN	The French Alternative Energies and Atomic Energy Commission (CEA)	Research Entity	Training institution	Yes	France
33	Meuse & Haute Marne Centre (CMHM)	Andra	Waste Management Organisation	Underground laboratory	Yes	France
34	Industrial facility for grouping, sorting and very-low level waste (VLLW) disposal (CIRES)	Andra	Waste Management Organisation	Disposal site	Yes	France
35	Aube disposal facility (CSA)	Andra	Waste Management Organisation	Disposal site	Yes	France
36	Manche Disposal Facility	Andra	Waste Management Organisation	Disposal site	Yes	France
37	Underground Research Laboratory (URL) in Tournemire (France)	French Authority for Nuclear Safety and Radiation (ASNR)	Technical Safety Organisation	Underground Research Laboratory	Yes	France
38	LUTECE laboratory in Fontenay-aux-Roses (France)	French Authority for Nuclear Safety and Radiation (ASNR)	Technical Safety Organisation	Research laboratory	Yes	France
39	CONTACAD in Cadarache (France)	French Authority for Nuclear Safety and Radiation (ASNR)	Technical Safety Organisation	Research laboratory	Yes	France

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Number	Infrastructure	Host organisation	Organisation type	Infrastructure type	Possibility for mobility actions	Country
40	Geoscientific research center	German Federal Institute for Geosciences and Natural Resources (BGR)	Research Institute	Research laboratories	Yes	Germany
41	Development, test and validation laboratory	Bundesanstalt für Materialforschung und -prüfung (BAM)	Research Entity	Research laboratory	Yes	Germany
42	Drop and fire test facilities	Bundesanstalt für Materialforschung und -prüfung (BAM)	Research Entity	Research and testing facilities	Yes	Germany
43	Long-term test facility	Bundesanstalt für Materialforschung und -prüfung (BAM)	Research Entity	Research laboratory	Yes	Germany
44	Institute of Resource Ecology - Hot Cell Testing Facilities	Helmholtz-Zentrum Dresden-Rossendorf	Research Entity	Research laboratory	No Response	Germany
45	Institute of Resource Ecology	Helmholtz-Zentrum Dresden-Rossendorf	Research Entity	Research laboratory	No Response	Germany
46	Rossendorf Beamline	Helmholtz-Zentrum Dresden-Rossendorf	Research Entity	Research laboratory	No Response	Germany
47	User facilities at the Ion Beam Centre	Helmholtz-Zentrum Dresden-Rossendorf	Research Entity	Research laboratory	No Response	Germany
48	Dresden High Magnetic Field Laboratory	Helmholtz-Zentrum Dresden-Rossendorf	Research Entity	Research laboratory	No Response	Germany
49	High-power laser-particle acceleration	Helmholtz-Zentrum Dresden-Rossendorf	Research Entity	Research laboratory	No Response	Germany
50	ELBE Centre for High-Power Radiation Sources	Helmholtz-Zentrum Dresden-Rossendorf	Research Entity	Research laboratory	No Response	Germany

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Number	Infrastructure	Host organisation	Organisation type	Infrastructure type	Possibility for mobility actions	Country
51	KIT-INE Beamline & ACT Laboratory	Karlsruhe Institute of Technology	Research Entity	Research laboratory	Yes	Germany
52	KIT-INE radiochemistry Laboratory	Karlsruhe Institute of Technology	Research Entity	Research laboratory	Yes	Germany
53	KIT-INE analytics and spectroscopy Laboratory	Karlsruhe Institute of Technology	Research Entity	Research laboratory	Yes	Germany
54	The Minor Actinide Laboratory	JRC Karlsruhe	Research Entity	Research laboratory	No Response	Germany
55	Properties of Actinide Materials under Extreme Conditions (PAMEC)	JRC Karlsruhe	Research Entity	Research laboratory	No Response	Germany
56	Fuels and Materials Research Laboratory	JRC Karlsruhe	Research Entity	Research laboratory	No Response	Germany
57	Hot Cell Laboratory	JRC Karlsruhe	Research Entity	Research laboratory	No Response	Germany
58	ISOTOPTECH Isotope Laboratory	ISOTOPTECH ZRT.	Technical Safety Organisation	Research and Service Laboratory	Yes	Hungary
59	Budapest Neutron Centre	Centre for Energy Research	Research Entity	Research reactor	No Response	Hungary
60	ENEA Radiological Characterization and Radioactive Waste Management Laboratory	Italian National Agency for New Technologies, Energy and Sustainable Economic Development (ENEA)	Research Entity	Research laboratory	No	Italy
61	NUCLECO plants for characterization and waste management	Italian National Agency for New Technologies, Energy and Sustainable Economic Development (ENEA)	Research Entity	Research laboratory, waste treatment facility, waste storage facility.	No	Italy
62	Nuclear Engineering Laboratory	Lithuanian Energy Institute	Research Entity	Modelling/simulation	Yes	Lithuania

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Number	Infrastructure	Host organisation	Organisation type	Infrastructure type	Possibility for mobility actions	Country
63	ZUOP Otowck	Zakład Unieszkodliwiania Odpadów Promieniotwórczych	Waste Management Organisation	Waste treatment facility	No	Poland
64	Krajowe Składowisko Odpadów Promieniotwórczych (KSOP Różan)	Zakład Unieszkodliwiania Odpadów Promieniotwórczych	Waste Management Organisation	Disposal site	No	Poland
65	Radioactive Waste Treatment and Conditioning Plant	Institute for Nuclear Research (RATEN)	Research Entity	Research laboratory	Yes	Romania
66	The Post-Irradiation Examination Laboratory (PIEL)	Institute for Nuclear Research (RATEN)	Research Entity	Research laboratory	No Response	Romania
67	Dual Core TRIGA Research Reactor (14MW-SSR, ACPR)	Institute for Nuclear Research (RATEN)	Research Entity	Research reactor	No Response	Romania
68	Jazbec and Borst disposal sites	Agency for Radioactive Waste Management (ARAO)	Waste Management Organisation	Disposal site	No Response	Slovenia
69	Central Storage Facility for radioactive waste (CSF)	Agency for Radioactive Waste Management (ARAO)	Waste Management Organisation	Storage facility	No Response	Slovenia
70	Hot Cell Facility	The Jožef Stefan Institute (JSI)	Technical Safety Organisation	Research laboratory	Yes	Slovenia
71	Research Reactor TRIGA Mark II	The Jožef Stefan Institute (JSI)	Technical Safety Organisation	Research reactor	No	Slovenia
72	Santa Maria de Garona Dismantling and Closure Project	Enresa	Waste Management Organisation	Research reactor	Yes	Spain
73	Vandellós I NPP	Enresa	Waste Management Organisation	Research reactor	Yes	Spain

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Number	Infrastructure	Host organisation	Organisation type	Infrastructure type	Possibility for mobility actions	Country
74	José Cabrera Nuclear Power Plant	Enresa	Waste Management Organisation	Research reactor	Yes	Spain
75	El Cabril - Disposal facility for VLLW and LILW	Enresa	Waste Management Organisation	Storage facility	Yes	Spain
76	Interdepartmental Investigation Service (SIDI)	Universidad Autonoma de Madrid	Research Entity	Research laboratory	No Response	Spain
77	Long-Lived Radionuclide Separation Laboratory	The Centre for Energy, Environmental and Technological Research (CIEMAT)	Technical Safety Organisation	Research laboratory	No Response	Spain
78	R&D Laboratories of Characterization, Treatment and Conditioning of VLLW and L&ILW	The Centre for Energy, Environmental and Technological Research (CIEMAT)	Technical Safety Organisation	Research laboratory	No Response	Spain
79	Physical Chemistry of Actinides and Fission Products Laboratories	The Centre for Energy, Environmental and Technological Research (CIEMAT)	Technical Safety Organisation	Research laboratory	Yes	Spain
80	FEDEX Mock-up	The Centre for Energy, Environmental and Technological Research (CIEMAT)	Technical Safety Organisation	Mock-up	Yes	Spain
81	Nuclear Chemistry	Chalmers University	Research Entity	Research Laboratory and Nuclear Facility	Yes	Sweden
82	SKB's Canister Laboratory	Swedish Nuclear Fuel and Waste Management Company	Waste Management Organisation	Development centre for encapsulation technology	Open for Discussion	Sweden

EURAD-2 Milestone 23 – Updated list of infrastructures

Number	Infrastructure	Host organisation	Organisation type	Infrastructure type	Possibility for mobility actions	Country
83	High Performance Computing cluster Ubelix	University of Bern, Switzerland	Research Entity	High Performance Computing (HPC) facility	Yes	Switzerland
84	Advective Displacement Laboratory	University of Bern, Switzerland	Research Entity	Research laboratory	Yes	Switzerland
85	Zwilag	Zwilag Zwischenlager Würenlingen AG	Waste Management Organisation	Waste Management Organisation	Yes	Switzerland
86	Hotlab	Paul Scherrer Institute (PSI)	Research Entity	Research laboratory	No Response	Switzerland
87	Grimsel Test Site	Nagra	Waste Management Organisation	Underground laboratory	Yes	Switzerland
88	Geoscience and Engineering Laboratory	Delft University of Technology	Research Entity	Research laboratory	Yes	The Netherlands
89	Well Technology for Deep Borehole disposal.	The Netherlands Organisation for Applied Scientific Research (TNO)	Research Entity	Test facilities	Yes	The Netherlands
90	Geochemical Lab/UU	Faculty of Geosciences, Utrecht University	Research Organisation	Research laboratory	Yes	The Netherlands
91	High Pressure/Temperature lab	Faculty of Geosciences, Utrecht University	Research Organisation	Research laboratory	Yes	The Netherlands
92	Multiscale Porous Media Lab	Faculty of Geosciences, Utrecht University	Research Organisation	Research laboratory	Yes	The Netherlands
93	Laboratory for Materials Ageing in LWR Environments	The Joint Research Centre in Petten (JRC)	Research Entity	Research laboratory	No Response	The Netherlands
94	COVRA's Surface Storage Facilities	The Central Organisation for Radioactive Waste (COVRA)	Waste Management Organisation	Storage facility	No Response	The Netherlands

EURAD-2 Milestone 23 – Updated list of infrastructures

Number	Infrastructure	Host organisation	Organisation type	Infrastructure type	Possibility for mobility actions	Country
95	BGS Hydrothermal Laboratory	British Geological Survey	National Geological Survey	Research Laboratory	Open for Discussion	UK
96	BGS Hydrates and Ices Laboratory	British Geological Survey	National Geological Survey	Research Laboratory	Open for Discussion	UK
97	State Scientific and Technical Center for Nuclear and Radiation Safety	State Scientific and Technical Center for Nuclear and Radiation Safety (SSTC NRS)	Technical Safety Organisation	Research laboratory	Yes	Ukraine
98	Geomicrobiology laboratory	British Geological Survey	Research Entity	Research Laboratory	Yes	United Kingdom
99	LLWR Site	LLW Repository Ltd	Waste Management Organisation	Storage facility	No Response	United Kingdom

4. Conclusions and future work

This milestone report describes work undertaken in sub-task 3.2 of WP2 to update the list of available RWM infrastructures. The revised list will be available on the EURAD School of RWM website where it will additionally include a description of each infrastructure and further information concerning the possibility for mobility actions. This is intended to facilitate exchanges between those looking to pursue mobility actions linked to particular infrastructures, and those open to hosting or supporting such activities.

The updated list was compiled based on information obtained from:

- The existing EURAD School list produced during EURAD-1 in support of the EURAD mobility programme [4].
- A request made via a survey to the EURAD-2 community of partners, end-users and stakeholders [5].
- Contact with individual survey respondents where required.

The updated list includes 36 new infrastructures that were not on the existing list [4], as well as updates to 12 existing entries.

Future work in Sub-task 3.2 to be progressed in 2026 will explore RWM infrastructure and facility needs in support of national programme delivery and will involve mapping of available capabilities and facilities against needs, now and in the future. This will be informed by the list of infrastructures reported on in this document. Potential further work may also include a liaison with related initiatives on infrastructures and shared facilities (such as the OFFERR catalogue [2]) and discussion of synergies.

It is anticipated that the list will be updated further over the course of EURAD-2; the frequency and scope of updates to the list will be informed through discussions of infrastructure needs during the mapping work.

5. References

- [1] EURAD, *Roadmap Guide*, Issue 2, 2021. <https://www.epj-n.org/articles/epjn/pdf/2022/01/epjn220038.pdf>
- [2] OFFERR, *European User Facility Network, Catalogue of Facilities*, February 2025. Available at: <https://snetp.eu/offerr-brochure/>
- [3] EURAD, *Deliverable 13.7, Specification of the content, material and learning outcomes of mobility training*, Work Package 13, European Joint Programme on Radioactive Waste Management, 18 November 2022.
- [4] EURAD, *Overview of infrastructures available at EURAD partner organizations*, <https://euradschool.eu/infrastructures/>.
- [5] EUSurvey, <https://ec.europa.eu/eusurvey/home/welcome>, 16 July 2025.

Appendix A. Infrastructure Survey

A copy of the survey circulated to EURAD-2 partners, end users and stakeholders to gather information to update the list of available infrastructures is provided below. Note that questions beginning “If yes” or “If no” only appear to the respondent where relevant. Similarly, the table to provide updates (below Question 3) only appears if respondents have indicated they would like to provide updates or add new entries.

The survey hyperlink is <https://ec.europa.eu/eusurvey/runner/EURAD-2InfrastructureTask>.

EURAD-2 Infrastructure Task

Fields marked with * are mandatory. ✕

As part of EURAD-2 Knowledge Management (KM) activities, a [list of European research infrastructures](#) relevant to radioactive waste management is being updated.

The updated list will aim to include inputs from all available radioactive waste management infrastructures, not limited to those available to support mobility actions. This will facilitate an analysis of gaps in existing infrastructures to be performed, as well as enabling wider opportunities for future mobility actions to be explored across the community. Updates are being coordinated within the EURAD-2 KM WP, under Subtask 3.2.

To ensure the updated list is accurate and comprehensive, we are seeking input from organisations across Europe and invite you to complete the following short survey.

This includes:

- Confirming and updating existing entries.
- Adding new radioactive waste management infrastructures. Please include all infrastructures, not limited to those available to support mobility actions.
- Wherever possible, providing a point of contact (email address).

The survey will remain open until **15th September 2025**. After this date, responses will be consolidated and a revised infrastructure list will be produced.

Please do not hesitate to contact us if you have any questions or need assistance completing the survey.

Thank you in advance for your inputs.
Emily Swain-Phipps, on behalf of Subtask 3.2 team
eksp@galson-sciences.co.uk

* Name

* Email ?

* Organisation

* Organisation type ?

* Country

* 1) Is your organisation already listed on the [EURAD School list of Infrastructures](#)?

Yes
 No

* 2) If yes, would you like to make any updates to existing entries or add new entries?

Yes
 No - Existing entries are complete and do not require any updates

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* 3) If no, would you like to propose (a) new infrastructure entry(ies) for your organisation?

- Yes
- No, I do not wish to add any new infrastructure entries to the list

Please provide details of your infrastructure(s).

The information provided below will form the basis of entries on the updated EURAD infrastructures list.

- Please focus on infrastructures of relevance to radioactive waste management
- If your organisation has multiple infrastructures please fill in the details in separate rows
- Please ensure that a point of contact is provided
- Please indicate if the infrastructure has availability for mobility actions and provide any relevant information

	Infrastructure <i>(e.g. Grimsel Test Site)</i>	Infrastructure Type <i>(e.g. research laboratory, URL, waste treatment facility, waste storage facility, disposal site)</i>	Short Description	Contact Person	Contact Email	Is this infrastructure available for EURAD-2 mobility actions? <i>(Indicate Yes/No and provide any relevant details)</i>
1	/	/	/	/	/	/
2	/	/	/	/	/	/
3	/	/	/	/	/	/
4	/	/	/	/	/	/
5	/	/	/	/	/	/
6	/	/	/	/	/	/
7	/	/	/	/	/	/
8	/	/	/	/	/	/
9	/	/	/	/	/	/
10	/	/	/	/	/	/
11	/	/	/	/	/	/
12	/	/	/	/	/	/

* 4) What types of collaboration could your organisation potentially offer in support of mobility activities?

- Sharing of technical expertise
- Participation in working groups
- Access to data or facilities
- Joint research initiatives
- Training programmes or knowledge transfer activities
- Other activities

5) Please briefly describe any areas where your organisation is open to collaboration.

Do you wish to provide any additional information ?