

## EURAD-2 Core Group Communication on Progress, May 2023 (updated 24.05.23)

This communication note is to document information on the progress towards EURAD-2 partnership. This communication note is distributed to all partners of EURAD and PREDIS, and is public (on the projects' web pages). The previous communications can be found on both [EURAD](#) and [PREDIS](#) websites:

- October 2022 communication
- December 2022 communication
- Slides public webinar #1, January 2023
- Slides Focus Funnel, March 2023

This communication is prepared by the EURAD-2 Core Group, whose members provide recommendations to the Colleges. The Colleges remain the sole entities approving all decisions.

For clarity, the on-going EURAD programme (2019-2024) is referred as EURAD-1, to differentiate from the future EURAD-2 Programme (2024-2029).

### EURATOM Work Programme 2023-2025

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The European Commission published on March 17<sup>th</sup>, 2023 the [EURATOM Work Programme](#) for years 2023 to 2025.

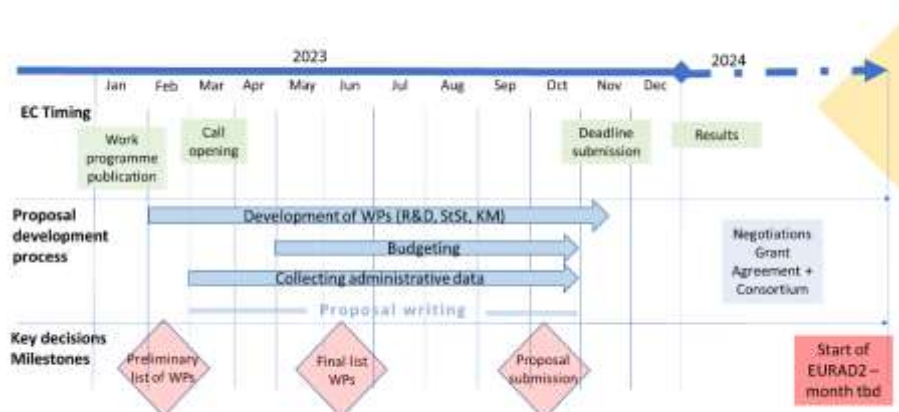
In this Work Programme, the EC has established a Grant to Beneficiaries for a co-funded European partnership on radioactive waste management. This partnership aims for the continuation and merge of the current ongoing [EURAD programme](#) and [PREDIS project](#).

The deadline for the submission of the EURAD-2 proposal is November 8<sup>th</sup>, 2023, and the target start date is anticipated as autumn 2024 with a 5-year programme.

### Schedule overview

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The figure below is a reminder of the general schedule for the preparation of the proposal, as presented in the January 2023 webinar and earlier Communications.



More detailed information on the steps and timing between the end of April 2023 and the proposal submission readiness at the end of October 2023 is available in the guidance for Work Package (WP) Preparation Teams (Appendix 2, specific to Template #2 on WP descriptions) and will be updated again in July 2023 for Template #3 guidance).

## **Participating to EURAD-2**

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### ❖ Mandated Actors

Organisations that can participate in EURAD-2 can be distinguished into two categories: **the Beneficiaries** (mandated by their national programme owners or governmental Ministries) and **the Affiliated Entities**.

To be considered as a Beneficiary, the organisation needs to provide a letter by its national Ministry specifying its role (Research Entity, Technical Safety Organisation or Waste Management Organisation). It is foreseen that for each Member States, only 1 of each type of organisation can be mandated. In the eventuality of more than one organisation (for example for the research entity), it will need to be duly justified and this will be assessed by the EC officer.

To facilitate this process, the Core Group has prepared a template for Requesting the Mandate that is available in appendix (Appendix 5) and has been shared with the actors listed in the EURATOM Work Programme.

### ❖ Other partners

Partners from EURATOM Members States, who are not mandated as Beneficiaries can still participate in the programme as Affiliated Entities (previously in EURAD-1 referred to as Linked Third Parties). They will have to provide a legal document justifying a link with one of the Mandated Actors. Further guidance will be established by the Core Group, once a first list of Mandated Actor is confirmed and is expected in summer 2023.

Any interested participants to EURAD-2 outside EURATOM community are Associated Partners, who are not eligible for EC funding but can collaborate with in-kind contributions. Specific guidance regarding Associated Partners to EURAD-2 is available in Appendix 3 and on the EURAD and PREDIS websites, describing conditions for participation.

## **EURAD-2 Focus Funnel**

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The EURAD-2 Core Group organised the EURAD-2 WP Focus Funnel (FF) in March 2023. The aim of this event was to provide an opportunity for the scientific community to get connected, advance the process of planning EURAD-2, share the latest progress about the preparation phase and mainly to discuss ideas of future Work Packages (WPs). The discussions and feedback from the FF also served to help the Colleges in refining the scope of the work packages.

A summary of the Focus Funnel event and of the different parallel sessions is available on both [EURAD](#) and [PREDIS](#) websites.

Following this event and taking into consideration the audience discussions and written feedback shared on post-its, the Core Group made a first recommendation of WPs grouping to the Colleges. The three EURAD Colleges were then asked to give their position on the grouping in general and to identify for each WP: the need to continue the development, the interest of the College and the

type of activity envisioned (R&D, Strategic Study). They also appointed key contact points to represent the College in the WP preparation.

Based on the Colleges' answers in late April, 19 WPs have been proposed for development of Template #2, which shall be completed by June 9<sup>th</sup>. Each WP has a WP Preparation Team consisting of three members appointed by the 3 Colleges, to work together to formulate the WP scope, objectives and targets., as well as a Core Group observer.

## Development of the Work Packages

The Core Group has developed a Template#2 for the submission of selected work package (WP) ideas after EURAD-2 Focus Funnel. The WP Template #2 is developed by the WP Preparation Team, soliciting input from the interested parties. This WP description Template #2 (available in the Appendix 1) must be sent from the WP Preparation Teams to the Core Group for a first general review by May 25<sup>th</sup>, 2023. **Proposals that are not submitted on time or that do not respect the template, cannot be considered for the preparation of EURAD-2.**

**After this first review, WP Preparation Teams will have until June 9<sup>th</sup>, 2023 to refine their proposals before it is sent to Core Group and Colleges for evaluation and feedback.**

The final selection of WPs that will be started in wave one at the initiation of EURAD-2 will be done in early July. At that point the Core Group will provide further guidance and a more detailed Template #3, to allow full development of the WP content (scope, role, partners and budget) , to be ready by October.

The Core Group has provided guidance for WP Preparation Teams, to help them in the development process and to ensure a certain consistency between the different WPs, as well as to state the boundary conditions and selections criteria for Templates #2.

## WP Preparation Teams

Each College, notwithstanding their interest in the proposal, has been asked to identify a contact person for the development of the work package. If institutes wish to be involved in one of the WP listed below, we invite you to contact the following representatives.

	Type of activity	WP Preparation Team			CG observer
		TSO	WMO	RE	
WP1 - Alternatives RWM Strategies	Strategic Study	<a href="mailto:Matija.simon@eimv.si">Matija.simon@eimv.si</a>	<a href="mailto:marja.vuorio@covra.nl">marja.vuorio@covra.nl</a>	<a href="mailto:Laure.PREVOT@egis-group.com">Laure.PREVOT@egis-group.com</a>	<a href="mailto:ingo.blechschiidt@nagra.ch">ingo.blechschiidt@nagra.ch</a>
WP2 - Sustainability	Strategic Study	<a href="mailto:hana.vojtechova@surso.cz">hana.vojtechova@surso.cz</a>	<a href="mailto:Gregor-Soenke.Schneider@bge.de">Gregor-Soenke.Schneider@bge.de</a>	<a href="mailto:abdoua@subatech.in2p3.fr">abdoua@subatech.in2p3.fr</a>	<a href="mailto:Erika.holt@vtt.fi">Erika.holt@vtt.fi</a>
WP3 - Waste Management for SMRs and future fuels	Strategic Study	<a href="mailto:Timothy.Schatz@vtt.fi">Timothy.Schatz@vtt.fi</a>	<a href="mailto:Virginie.wasselin@andra.fr">Virginie.wasselin@andra.fr</a>	<a href="mailto:david.garcia@amphos21.com">david.garcia@amphos21.com</a>	<a href="mailto:Nadja.Zeleznik@eimv.si">Nadja.Zeleznik@eimv.si</a>
WP5 - Waste Characterisation	R&D	<a href="mailto:b.janssen@nrg.eu">b.janssen@nrg.eu</a>	<a href="mailto:jlen@enresa.es">jlen@enresa.es</a>	<a href="mailto:eros.mossini@polimi.it">eros.mossini@polimi.it</a>	<a href="mailto:christophe.brugeman@sckcen.be">christophe.brugeman@sckcen.be</a>
WP6 - Treatment/Immobilisation	R&D	<a href="mailto:Maria.Oksa@vtt.fi">Maria.Oksa@vtt.fi</a>	<a href="mailto:jlen@enresa.es">jlen@enresa.es</a>	<a href="mailto:Helene.nonnet@cea.fr">Helene.nonnet@cea.fr</a>	<a href="mailto:christophe.brugeman@sckcen.be">christophe.brugeman@sckcen.be</a>
WP7 - Long term performance	R&D	<a href="mailto:Maria.Oksa@vtt.fi">Maria.Oksa@vtt.fi</a>	<a href="mailto:denise.ricard@andra.fr">denise.ricard@andra.fr</a>	<a href="mailto:Thierry.mennecart@sckcen.be">Thierry.mennecart@sckcen.be</a>	<a href="mailto:Astrid.Goebel@bge.de">Astrid.Goebel@bge.de</a>

WP8 - Graphite handling	R&D	<a href="mailto:mm_sapon@sstc.ua">mm_sapon@sstc.ua</a>	<a href="mailto:jlen@enresa.es">jlen@enresa.es</a>	<a href="mailto:eros.mossini@polimi.it">eros.mossini@polimi.it</a>	<a href="mailto:Erika.holt@vtt.fi">Erika.holt@vtt.fi</a>
WP9 - Spent fuel B	R&D	<a href="mailto:luisen.herranz@ciemat.es">luisen.herranz@ciemat.es</a>	<a href="mailto:olivia.roth@skb.se">olivia.roth@skb.se</a>	<a href="mailto:d.bosbach@fz-juelich.de">d.bosbach@fz-juelich.de</a>	<a href="mailto:lara.duro@amphos21.com">lara.duro@amphos21.com</a>
WP11 - Containers / Canisters	R&D	<a href="mailto:Janne.Pakarinen@vtt.fi">Janne.Pakarinen@vtt.fi</a>	<a href="mailto:aurelien.debelle@andra.fr">aurelien.debelle@andra.fr</a>	<a href="mailto:a.cherkouk@hzdr.de">a.cherkouk@hzdr.de</a> / <a href="mailto:holger.voelzke@bam.de">holger.voelzke@bam.de</a>	<a href="mailto:ingo.blechschmidt@nagra.ch">ingo.blechschmidt@nagra.ch</a>
WP12 - Bentonite / Buffers / Backfills	R&D	<a href="mailto:nadia.mokni@irsn.fr">nadia.mokni@irsn.fr</a> / <a href="mailto:christophe.debayle@irsn.fr">christophe.debayle@irsn.fr</a>	<a href="mailto:eric.simo@bge.de">eric.simo@bge.de</a>	<a href="mailto:xavier.pintado@mitta.fi">xavier.pintado@mitta.fi</a>	<a href="mailto:Erika.holt@vtt.fi">Erika.holt@vtt.fi</a>
WP13 - HLW Repository optimisation including closure	Strategic Study	<a href="mailto:valery.detilleux@belv.be">valery.detilleux@belv.be</a>	<a href="mailto:Philipp.herold@bge.de">Philipp.herold@bge.de</a>	<a href="mailto:svobodaj@fsv.cvut.cz">svobodaj@fsv.cvut.cz</a>	<a href="mailto:ingo.blechschmidt@nagra.ch">ingo.blechschmidt@nagra.ch</a>
WP14 - Climate change	Strategic Study	<a href="mailto:Veli-Matti.Pulkkanen@vtt.fi">Veli-Matti.Pulkkanen@vtt.fi</a>	<a href="mailto:frederic.ego@andra.fr">frederic.ego@andra.fr</a>	<a href="mailto:aina.bruno@amphos21.com">aina.bruno@amphos21.com</a>	<a href="mailto:Astrid.Goebel@bge.de">Astrid.Goebel@bge.de</a>
WP15 - Radionuclides	R&D	<a href="mailto:tiziana.missana@ciem.at.es">tiziana.missana@ciem.at.es</a>	<a href="mailto:jean-charles.robinet@andra.fr">jean-charles.robinet@andra.fr</a>	<a href="mailto:marcus.altmaier@kit.edu">marcus.altmaier@kit.edu</a>	<a href="mailto:Nadja.Zeleznik@eimv.si">Nadja.Zeleznik@eimv.si</a>
WP16 - LLW/ILW Disposal Optimisation	R&D	<a href="mailto:os_soloviov@sstc.ua">os_soloviov@sstc.ua</a>	<a href="mailto:pierre.henocq@andra.fr">pierre.henocq@andra.fr</a>	<a href="mailto:crina.bucur@nuclear.ro">crina.bucur@nuclear.ro</a>	<a href="mailto:lara.duro@amphos21.com">lara.duro@amphos21.com</a>
WP17 - Digital Twins	Strategic Study	<a href="mailto:baksay@tsenercon.hu">baksay@tsenercon.hu</a>	<a href="mailto:michael.koebberich@nagra.ch">michael.koebberich@nagra.ch</a>	<a href="mailto:reka.szoke@ife.no">reka.szoke@ife.no</a>	<a href="mailto:Erika.holt@vtt.fi">Erika.holt@vtt.fi</a>
WP18 - High-fidelity numerical simulations	R&D	<a href="mailto:baksay@tsenercon.hu">baksay@tsenercon.hu</a>	<a href="mailto:enga@enresa.es">enga@enresa.es</a>	<a href="mailto:sergey.churakov@psi.ch">sergey.churakov@psi.ch</a>	<a href="mailto:christophe.brugeman@sckcen.be">christophe.brugeman@sckcen.be</a>
WP19 - Criticality safety	R&D	<a href="mailto:Robert.Kilger@grs.de">Robert.Kilger@grs.de</a>	<a href="mailto:madalina.wittel@nagra.ch">madalina.wittel@nagra.ch</a>	<a href="mailto:tw@galson-sciences.co.uk">tw@galson-sciences.co.uk</a>	<a href="mailto:Astrid.Goebel@bge.de">Astrid.Goebel@bge.de</a>
WP20 - Thermodynamic database	Strategic Study	<a href="mailto:tiziana.missana@ciem.at.es">tiziana.missana@ciem.at.es</a>	<a href="mailto:s.brassinnes@nirond.be">s.brassinnes@nirond.be</a>	<a href="mailto:xavier.gaona@kit.edu">xavier.gaona@kit.edu</a>	<a href="mailto:lara.duro@amphos21.com">lara.duro@amphos21.com</a>
WP21 - Natural analogues	R&D	<a href="mailto:Alkiviadis.gourgiotis@irsn.fr">Alkiviadis.gourgiotis@irsn.fr</a>	<a href="mailto:Milena.Schoenhofer@bge.de">Milena.Schoenhofer@bge.de</a>	<a href="mailto:vanessa.montoya@sckcen.be">vanessa.montoya@sckcen.be</a> / <a href="mailto:koen.beerten@sckcen.be">koen.beerten@sckcen.be</a>	<a href="mailto:Nadja.Zeleznik@eimv.si">Nadja.Zeleznik@eimv.si</a>

## Next events

### Public webinar #2 – Towards EURAD-2

The second EURAD-2 information sharing public webinar will take place on the afternoon of July 11, 2023. The agenda for this event will be shared in June, but targets open sharing on the final list of WPs that will be funded at the start of EURAD-2 and providing a status update on the programme implementation plans. Registration is already available [here](#).

Additional on-line events are expected to be arranged during May-September that are WP-specific discussion groups to refine the proposal content. Information will be shared by the WP Preparation Teams, therefore any interested organisations should be in touch with the WP Preparation Teams, with the contacts as listed above.

## FAQ

A list of Frequently Asked Questions (FAQ) is regularly updated (based on questions received by the Core Group by emails) and available on both [EURAD](#) and [PREDIS](#) websites.

## Contact References

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As noted in every Core Group communication, further and regular communications towards the Consortia are planned, so as to keep all EURAD and PREDIS partners and the wider community of interest updated on the status and offer opportunities to give inputs and feedback for critical milestones. We encourage all partners and other new potential EURAD-2 future partners to express your feedback via these channels:

	EURAD-1 College Leadership	EURAD-2 Core Group Members
Coordinator		Louise Théodon (ANDRA – France), <a href="mailto:louise.theodon@andra.fr">louise.theodon@andra.fr</a>
Waste Management Organisations, WMO college - via IGD-TP	<a href="mailto:secretariat@igdtp.eu">secretariat@igdtp.eu</a> Johanna Hansen (General Secretary) <a href="mailto:Johanna.Hansen@Posiva.fi">Johanna.Hansen@Posiva.fi</a>	Ingo Blechschmidt (NAGRA – Switzerland), <a href="mailto:ingo.blechschmidt@nagra.ch">ingo.blechschmidt@nagra.ch</a> Astrid Göbel (BGE – Germany), <a href="mailto:Astrid.Goebel@bge.de">Astrid.Goebel@bge.de</a>
Research Entities, RE college - via EURAD-Science network; which also includes supply chains and companies	Christophe Bruggeman <a href="mailto:euradscience@sckcen.be">euradscience@sckcen.be</a>	Christophe Bruggeman (SCK CEN – Belgium), <a href="mailto:christophe.bruggeman@sckcen.be">christophe.bruggeman@sckcen.be</a> Lara Duro (AMPHOS 21 – Spain), <a href="mailto:lara.duro@amphos21.com">lara.duro@amphos21.com</a>
Technical Support Organizations, TSO college - via SITEX.Network; which also includes civil society and regulator views	Valéry Detilleux <a href="mailto:valery.detilleux@belv.be">valery.detilleux@belv.be</a>	Erika Holt (VTT – Finland), <a href="mailto:erika.holt@vtt.fi">erika.holt@vtt.fi</a> Nadja Železnik (EIMV – Slovenia), <a href="mailto:Nadja.Zeleznik@eimv.si">Nadja.Zeleznik@eimv.si</a>

# Appendix 1 – Template #2

## EURAD-2 WP description Template #2

Please see Instructions for Work Package Preparation Team, public document for guidance (available on EURAD and PREDIS websites)

*By submitting this proposal, you agree to the collection, storage and protection of your personal data submitted through this form. Information collected on this form is used solely for the purpose of preparing the EURAD-2 Programme. Information provided will only be accessible on a need-to-know basis. You can access your personal data, rectify it, request its deletion or exercise your right to limit the processing of your data at the following address [dpd@andra.fr](mailto:dpd@andra.fr).*

Short Acronym and full Title			
Type of activity	<input type="checkbox"/> R&D	<input type="checkbox"/> Strategic Study	Knowledge Management – covered by a separate committee and template
Budget estimation (total budget in M€, i.e ~ 1.5 M€)		Duration of the WP (in months)	
Links with EURAD SRA / Roadmap Themes (if multiple choices, indicate the primary link in bold – maximum 3)	<input type="checkbox"/> Programme Management (Theme 1) <input type="checkbox"/> Pre-disposal (Theme 2) <input type="checkbox"/> Engineered Barrier Systems (Theme 3) <input type="checkbox"/> Geoscience (Theme 4) <input type="checkbox"/> Disposal facility design and optimisation (Theme 5) <input type="checkbox"/> Siting and Licensing (Theme 6) <input type="checkbox"/> Safety Case (Theme 7)		
Links with EURAD SRA topics (if multiple choices, indicate the primary link in bold – maximum 3)	<i>Please indicate the corresponding Domains (number) and Description of R&amp;D, StSt or KM needs (second column of SRA)</i>  Example: <ul style="list-style-type: none"> <li>- 1.5.1 – Assess possible strategies for SMR</li> <li>- 3.1.1 – Optimisation, safety and risk assessment</li> </ul>		
SRA drivers (maximum 3)	<input type="checkbox"/> Implementation Safety	<input type="checkbox"/> Tailored Solutions	<input type="checkbox"/> Scientific Insight
	<input type="checkbox"/> Innovation for Optimisation	<input type="checkbox"/> Societal Engagement	<input type="checkbox"/> Knowledge Management
Objective (What) – 1 sentence			

<p>Justification: impact / innovation / added-value (Why) – bullet points or short paragraph <b>(maximum quarter of a page)</b></p>	
<p>List of planned tasks / subtasks with % of effort per task (5% increments) <b>(Maximum 10 bullets)</b></p>	<ul style="list-style-type: none"> <li>• Task 1: Management/coordination of the WP, max 10%</li> <li>• Task 2: Knowledge Management (incl. training materials development and State-of-the-Art for R&amp;D WPs, etc.), at least 10%</li> <li>• Task....., XX %</li> <li>•</li> </ul>
<p>List of expected outcomes linked to the identified SRA drivers <b>(Maximum 6 bullets)</b></p>	<ul style="list-style-type: none"> <li>•</li> </ul>
<p>Deliverables <b>(Maximum 6 – including the prescribed deliverables)</b></p>	<ul style="list-style-type: none"> <li>•</li> </ul>
<p>Critical input requirements &amp; identified risks</p>	<ul style="list-style-type: none"> <li>•</li> </ul>
<p>Major achievements expected by end of Year 2</p>	<ul style="list-style-type: none"> <li>•</li> </ul>

(Go/No Assessment) <sup>1</sup> <b>(Maximum 5 bullets)</b>	
(Optional - Explain what is out of the scope?)	
List of preliminary interested organisations as partners in the WP contributing effort; <b>% of effort (person months, by College)</b>	<p>Example:</p> <p>REs (50%): Abbreviation/Country, xxxx</p> <p>TSOs (25%):</p> <p>WMOs (25%):</p>
If applicable - links with previous projects / work packages	
WP Preparation Team (1 member per College) contact <b>(organisation + person, email)</b>	<p>RE:</p> <p>TSO :</p> <p>WMO :</p> <p>CG observer :</p>

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<sup>1</sup> EC budget being only allocated for the first 2 years, each work package progress will be reviewed at the end of Year 2, to assess its continuation based on the total budget that EURAD-2 will be granted.



# Appendix 2 – Guidance for WP Preparation Teams

EURAD-2 Partnership

Guidance for WP Preparation Teams

**Template #2 (April 2023), Public Document**

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## Role

The WP Preparation Teams (WPT) are in charge of developing the EURAD-2 work packages (WPs) that are carried over from Template #1 (ideas, February 2022) to Template #2 and then Template #3 (summer 2023). In this capacity, WPT members define the WP objectives, scope, budget, schedule, consortium partners and quality (KPIs, milestones, deliverables), based on instructions they will receive from the EURAD-2 Core Group and on the interests from the different Colleges.

WP Preparation Teams are **representatives of their College**, therefore they engage themselves to regularly communicate with their respective College during the process, as well as with the potential WP partners. Each member should commit and guarantee a high-level of engagement throughout the whole process. The WPT members are a voluntary role, not funded by the EC or the existing projects. The WPT has a role to play from May through November 2023, when the EURAD-2 partnership is submitted to the EC's.

The Core Group appointed a representative for each WP selected to produce a Template #2. The role of the Core Group representative is to act as an observer and reply to specific practical questions to assist the WPT. All Core Group members will look at all Templates, yet the role of the representative is not to aid in writing, evaluating or contributing to the work package.

## Development of the work packages

The development process of the work packages must be transparent, inclusive and balanced. In practical terms, this means that every organisation, whether or not they are already involved in EURAD-1 and/or PREDIS, whether they are Mandated actors, Affiliated Entities (earlier called Linked Third Parties) or Associated Partners (earlier called International Partners), have the possibility to participate in the development of these work packages.

Having a role in a WPT does not guarantee that these organisations will ultimately be included in the WP implementation proposal to be submitted to the European Commission. The WP Preparation Teams will have the responsibility to select the final consortium members and budgets, to be approved by the Colleges. Selection will be based on the selection criteria defined below.

To allow all the organisations that wish to participate or to communicate their interest, an information public notice will be made in May by the EURAD-2 Core Group on both EURAD and PREDIS websites and sent to participants of EURAD-2 webinar #1 and Focus Funnel. This will identify the members of the WPTs, for which interested parties can be in contact.

Submitting a Template #2 does not guarantee that the work package will be selected to be in the EURAD-2 final proposal. The Core Group will make a new screening of Template #2 descriptions in early July and will make a recommendation to the Colleges for their approval of the final WPs to carry forward as wave 1 of EURAD-2 funding. This schedule was already established in autumn 2022, and communicated earlier (see e.g. [January 2023 webinar slides](#) and [December 2022 CG Communication](#)). Further information on selection criteria and schedule are presented below.

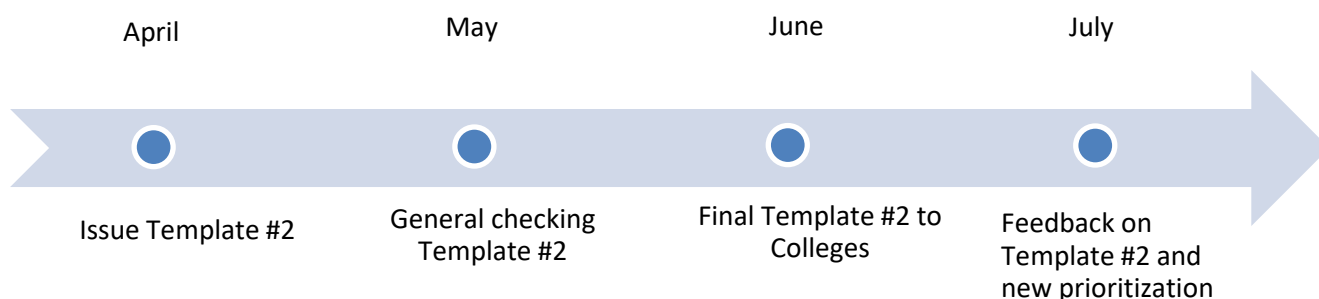
## ❖ Requirements

The development of all the work packages must be carried out in accordance with the following principles:

- Be in-line with and clearly linked to the EURAD [Vision](#), the [Roadmap](#) and the [updated Strategic Research and Knowledge Management Agenda](#);
- Clearly demonstrate European-added value;
- Be meaningful, focused and manageable;

- Have clear main and specific objectives, manageable tasks with input/output and a list of easily verifiable milestones/deliverables;
- Avoid disconnected, spread or repeated contributions: each contribution should bring complementarity and therefore added-value to the project;
- Clearly forecast how it will generate/consolidate knowledge over its duration;
- Bring together different categories of actors and address the needs of the different Member States, irrespective of the state of advancement in their national RWM programme.

#### ❖ Timeline



#### ❖ Timing and process for Template #2

The deadline for this Template #2 first draft being providing from each WP Preparation Team to the Core Group (CG), via the CG coordinator ([louise.theodon@andra.fr](mailto:louise.theodon@andra.fr)), is **25 May 2023**. To facilitate the process, the email subject line of email should state: “EURAD-2 WP Template #2 **Short title of the WP**”.

**Proposals that do not respect the Template and/or the deadline cannot be considered for the preparation of EURAD-2.**

EURAD-2 Core Group will provide to WP Preparation Teams general feedback on the Template #2 by 26 May 2023, in order for WP Preparation Teams to generate an updated improved version of the Template#2 that should be submitted to the Core Group by **09 June 2023**, following the same submission protocol as described above. The Core Group will make a recommendation to the College for the selection of WPs that go to the final stage (Template #3), to be decided in early July.

A new Template #3 and further instructions will be provided to the WP Preparation Teams in July, for the WPs that are selected by the Colleges for continuing to finalization. The WP Preparation Teams will then continue through summer 2023 to clearly define all aspects of the WP implementation, prior to the partnership proposal submission to the EC in early November.

Date	Description	Responsible
21/04/2023	Feedback due from Colleges on WP grouping after Focus Funnel	Colleges
21/04/2023	Definition of WP Preparation Teams (nominated organisations and persons)	Colleges
27/04/2023	Recommendation to Colleges, of WPs for development of Template #2 based on Colleges’ feedback	CG
03/05/2023	Issue of Template n°2, based on comments/review from Colleges	CG
05/05/2023	Approval of the list of WPs for Template #2	Colleges
05/05/2023	Information to WP Preparation Teams on selection for Template #2	CG

25/05/2023	First rough draft Template n°2 filled in (merging of ideas from Template 1 and Focus Funnel and College feedback), sent to CG	WP Preparation Teams
26/05/2023	Feedback from CG to WP Preparation Teams on Template n°2 (overall quality only – too much/not enough detail, missing items, ...)	CG
09/06/2023	Updated Template n°2 submitted to Core Group	WP Preparation Teams
09-13/06/2023	Screening by Core Group to provide recommendation to Colleges	CG
05/07/2023	Feedback from Colleges to CG on Template n°2 and prioritization	Colleges
11/07/2023	EURAD-2 public webinar #2 – communication of the final list of WPs for development of Template #3	CG

## Guidelines

The following guidelines aim to help the WP Preparation Teams to develop their work package:

### ❖ Scope

The completed WP Description Template#2 should be **5 pages max**, building on Template #1 proposals and envisioned merges between the ideas of the 3 Colleges (after the Focus Funnel event, Cyprus 16-17.3.2023 and College surveys of April 2023). Template #2 will be first submitted to the Core Group (CG) for a quick review and feedback, then again refined and resubmitted in June.

Scope and work programme should remain realistic and achievable within a maximum 5 years period:

- If the objectives are too ambitious and if the risks of exceeding the deadlines are too great, it is necessary to review them and amend the proposal accordingly.
- For 5 years duration WPs, a major achievement must be included before the end of Year 2 to assess if the WP implementation plan is according to plan and to allow assessing the continuation of the WP based on the total budget that will be granted to EURAD-2 within the EC's Work Programme 2026 and beyond.
- Scope should be set up from a top-down perspective of needs having synergy (and not bottom-up, as a list of non-coherent and non-consistent activities of different partners).

The content of the proposal should not disclose any sensitive or confidential information (patent pending, contract not signed, ...)

EURAD-2 will have two waves of work packages development, with WPs agreed in summer 2023 and another set agreed at approximately 2 years into the programme (summer/autumn 2026) based on future EC budget allocations. It is therefore encouraged to have this approach in mind of having some shorter concise actions that are just during the wave 1 period, especially for Strategic Studies that may lead to a future R&D proposal for the second wave.

### ❖ Budget

EURAD-2 programme is a co-funded partnership. This implies that every organisation intending to participate, agrees to provide co-funding to the action.

The Core Group recommends a maximum total budget per work package proposal (EC contribution + own co-funding, direct + indirect costs) of:

- 5 million € for a R&D work package, maximum duration 5 years

- 2 million € for a Strategic Study work package, maximum duration 5 years

WPs that have shorter durations and/or smaller budgets are highly encouraged.

To allow most of the work packages to continue to Template #3, the CG expects that the WP Preparation Teams should be realistic when providing budget estimation:

- Do not underestimate your budget – a small WP in terms of budget does not mean that this WP will automatically be selected for the next stage
- Do not overestimate your budget – the content of the WP must be focused and bring added-value

Since the WP must be manageable by a “small” WP Board and since the budget is limited, the WP should involve a “reasonable” number of participants. A “downsizing exercise” of the interested partners could thus be necessary. A good way to manage this is by:

- Identifying the partners who have key roles, bringing high-added value to make significant progress to address the targeted achievements (linked to the EURAD SRA)
- Asking each interested organisations how they could concretely contribute to the identified tasks and subtasks of the WP. They should demonstrate their qualification/excellence/experience in this topic. This input should be collected in a transparent way (e.g. with a dedicated template and stored somewhere).
- Participants in EURAD-2 work packages should be able to declare that they will provide the necessary co-funding (declaration of honor, ...)
- Evaluating where common facilities and benchmarking can be done, so partners are not duplicating efforts
- Ensuring no activity, material supply or sub-task is within the scope of only one partner (for risk avoidance).

Based on these inputs, define an optimal WP partner composition, allowing to fulfil the WP objectives by:

- finding how partners could combine their expertise in a complementary way to realise the defined WP (sub) Tasks;
- avoiding spreading the tasks/subtasks between too many contributors;
- avoiding unjustified duplication of efforts by different organisations.

#### ❖ **Homogenization of management and KM Tasks**

Task 1 for each WP should be “Management/Coordination of the WP”) and should include some person-month for the coordination of the WP by the WP coordinator and meetings. Task 1 should not represent more than 10 % of the total budget of the WP.

Task 2 for each WP should be “Knowledge Management (including State-of-the-Art for R&D WPs, training materials development, etc.) and should include some person-month for the development of KM materials. Task 2 should represent at least 10% of the total budget of the WP.

The exact content of Task 1 and Task 2 do not need to be described by the WP Preparation Team, as the instructions will come from the Core Group and Knowledge Management Committee at the time of Template #3. Thus the current Template #2 should focus only on the other tasks (technical issues).

#### ❖ **Deliverables and milestones**

The WP work plan, including the milestones and deliverables must be solid and achievable.

- Deliverables should focus on specific scientific/technical topics that are expected to have a sound impact. The scope of a deliverable should not be too narrow or too broad
- Deliverables should not be annual reports.
- Each RD&D WP needs to plan at least a SotA report 6 months after the launching of the WP and an update of the SotA at the end of the programme. The number of deliverables and milestones per WP is limited to ensure efficiency and a smooth management (e.g. 6 deliverables / 10 milestones max per WP).
- The Core Group plans that certain deliverables are prescribed per WP:
  - an outcome/impacts report to Member States and End Users for all WPs
  - a State-of-the-Art report (initial and final) for R&D WPs.

- a white or green paper for the Strategic Study WPs
  - Green paper (= position paper), published as a consensus view from the 3 Colleges that stimulate discussion on topics that are of interest for the European Union; they typically contain proposals that serve as the basis for a debate or consultation process.
  - White paper (=second wave WPs description), documents containing proposals for action in a specific area. In some cases, they follow on from a green paper published to launch a consultation process. For WPs targeting a second wave proposal (continuation), it is mandatory to have the final deliverable between Month 12 and Month 18, to be able to assess the need for continuation without jeopardizing the development of the second wave.

Please note that only the deliverable generic titles should be listed in this Template #2, while milestones (including interim memos, databases, etc.) will be asked only in the future Template #3, together with guidance.

## Evaluation

Templates #2 will be evaluated by the Core Group and then Colleges' leadership based on the following criteria:

### ❖ Eligibility

EURAD-2 work package description must clearly show the links to the SRA.

EURAD-2 work packages will have to be inclusive, they should benefit different Member States, regardless of their stages of advancement. To be considered eligible, they should be supported by participation of institutes from at least 5 different Member States.

EURAD-2 work packages target having involvement (support or contribution) by all 3 Colleges, but if there are not enough in such case then at least they need to have 2 Colleges committed to be involved in the WP.

### ❖ Prioritisation

**Inclusiveness:** EURAD-2 work packages must ensure that the different categories of actors (Colleges, countries with different stages of advancement, ...) are involved in the development and implementation of the work package.

**Complementary participation:** EURAD-2 work packages should be complementary to activities which will continue to be undertaken nationally or jointly outside of the auspices of EURAD-2. Therefore, the number of mandated actors committed to be involved in the work packages will be a prioritisation criteria.

**Added-value:** EURAD-2 work packages must provide real added-value (e.g. improved financial arrangements, stakeholder acceptance of outputs, more robust outputs, etc.). Administration costs of a WP should represent a small proportion versus money spent on the technical and scientific scope.

**Equitable financing:** Participants in EURAD-2 work packages should contribute what they can afford, or what they consider matches their interest in the work package.

**Tangible results:** EURAD-2 work packages' scope must be appropriately prioritised and focused on the objective to achieve tangible results within the 5-year EURAD-2 timeframe.

**Co-financing:** Participants in EURAD-2 work packages should be able to declare that they will provide the necessary co-funding (declaration of honor, ...)

### ❖ Balancing

**Positive participation:** EURAD-2 work packages must be carried out considerately and respectfully by all, maintaining relationships that respect diversity, different roles and boundaries, and respect the knowledge, insight, experience and expertise of others.

**Maintenance of independence:** Participants to EURAD-2 work packages must work together without prejudice to their own role in the national implementation process.

**Balanced programme:** EURAD-2 work packages should support programmes at all stages of advancement.

WP Preparation Teams are encouraged to pay attention to gender equality. Information on this matter will be collected in Template #3.

#### ❖ WP Preparation Teams checklist

Please note that items in bold are required, whereas other are suggested steps to help the WP Preparation Teams:

- **Contact the two other appointed members of the Team and set up a first meeting (invite the Core Group observer to this meeting)**
- Consider where to establish a common cloud-based file sharing platform for the preparation of the WP document (please note that Projectplace cannot be used as we have a restricted number of licenses that do not cover all interested parties to EURAD-2)
- Consider the background documents available on Projectplace (feedback from Focus Funnel, Templates #1, Colleges' feedback, ...). If a WP Team member does not have Projectplace access, email to the CG coordinator (louise.theodon@andra.fr)
- **Collect, document and regularly update a list of interested parties (use the list of interested parties in Template #1 and contact others you know might be interested)**
- **Reach out to the 3 Colleges, Template #2 must be a collective work that is eventually approved by the Colleges if it is to continue to Template #3 and EURAD-2 funding.**
- Consider hosting a webinar of interested parties to facilitate discussions on Template #2 draft content.
- **Submit a first draft of Template #2 to Core Group by May 25<sup>th</sup>, 2023 and a final by 9<sup>th</sup> June 2023.**

# Appendix 3 – Guidance for Associated Partners

EURAD-2 Partnership

Guidance for Associated Partners, version date 05.05.2023

Public Document – Core Group Communication

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The purpose of this document is to provide guidance on ways partners outside of the EURATOM Programme Member State participants can be involved with the EURAD-2 partnership being planned (submission of proposal November 2023, programme implementation autumn 2024-autumn 2029).

EURAD-2 partners (within Euratom) are distinguished into two categories: **the Beneficiaries** (mandated by their national programme owners or governmental Ministries) and **the Affiliated Entities**.

Beneficiaries and Affiliated Entities do not have the same rights, neither the same responsibilities nor duties. It is not possible to be at the same time a Beneficiary and an Affiliated Entities.

Apart from Beneficiaries and Affiliated Entities, other participants can be involved in the EURAD-2 action, such as Associated Partners, Third Parties providing in-kind contributions and subcontractors. **This document focuses on the Associated Partners guidance, which is the term for parties outside of EURATOM participants.**

## Definition of Associated Partners

Associated Partners (previously referred during EURAD-1 and PREDIS as *International Partners*) can perform action tasks in the EURAD-2 programme. They do it without receiving any EU funding. Therefore, they are not subject to financial checks, reviews or audits. They do not need a national level Mandate and cannot bring any Affiliated Entity. They do not have any voting rights in the General Assembly.

Associated Partners do not become party to the Grant Agreement, but they implement parts of the action and are thus often involved actively in the Consortium. They provide general documentation of their contribution to the work package leadership team (e.g. at the time of annual reporting) and can contribute to deliverable and milestones (co-authors).

The Consortium remains responsible towards the European Commission for the action tasks performed by the Associated Partner. Therefore, critical tasks or deliverables cannot rely only on an Associated Partner for fulfillment of the EC contract obligations.

It is also the Consortium's responsibilities to ensure that the following obligations are accepted by the Associated Partner, and these are likely to be formalized within a mutually signed document, during 2024 (further guidance will be provided by the Core Group or Coordinator at a later date):

- Record-keeping obligations (on the scientific and technical implementation)
- Technical reporting
- Avoiding conflicts of interest
- Maintaining confidentiality
- Promoting the action and give visibility to the EU funding
- Ethics

The full description of Associated Partners is defined by the European Commission, in Article 9 of the [AMGA](#).

❖ **Who can be considered as Associated Partner in EURAD-2?**

As of April 2023, partners from Switzerland, UK and Norway are considered as Associated Partners as they have not signed an association agreement with the Euratom programme. International partners (outside of Europe) are also considered as Associated Partners, for instance from the United States, Canada, Japan, etc..

❖ **How to get involved in EURAD-2 as Associated Partner?**

Any Associated Partner interested in participating to one or more EURAD-2 work packages, can contact directly the WP Preparation Teams to be involved in the preparation of the work package. It will then be the responsibility of the WP Preparation Teams to include the Associated Partner in the work package preparation discussions. The Associated Partners must still demonstrate their competences and commitment to the WP implementation tasks to be considered as contributors in the final programme plan.

The Core Group also recommends that interested Associated Partners include the appointed Core Group observer in the communications with the WP Preparation Teams, to facilitate the process.

*Table of WP Preparation Teams is included.*

For further general information, interested parties can contact the EURAD-2 Core Group and check the [FAQ](#) documentation where some questions are dedicated to the situation of Associated Partners (see for instance items A-3, C-10, D-4, D-17).



# Appendix 4 – Guidance for Knowledge Management Committee

EURAD-2 Partnership

Guidance for WP Knowledge Management Committee, version 4 May 2023

Public Document – Core Group Communication

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## Role

The Knowledge Management Committee (KMC) has been established, on the recommendation of the EURAD-2 Core Group, by the three Colleges.

The role of the KMC is to provide recommendations to the Core Group on how Knowledge Management should be established in EURAD-2 (priorities/ type of activities). The role of the KMC is not to make a review of EURAD-1 and/or PREDIS. It is anticipated that the same generic fundamentals of the established KM activities of EURAD-1 and PREDIS will be maintained, as well as supporting the foundation documents of EURAD-1 (Vision, Roadmap, SRA).

The nominated members of the KMC are representatives of their respective College. They do not represent the view of their institutes and/or country. The KMC is not a prefiguration of EURAD-2 KM WP leaders. The appointed members will not necessarily have a leadership role or any commitment in EURAD-2 implementation.

## Members

The appointed members representing each College are:

- For Research Entities: Gunnar Buckau (KIT-PTKA, Germany), supported by Alba Valls (Amphos21, Spain) and Niels Belmans (SCK CEN, Belgium)
- For Technical Safety Organisations: Jitka Miksova (SURO, Czech Republic)
- For Waste Management Organisations: Alexandru Tatomir (BGE, Germany), supported by Anders Sjöland (SKB, Sweden)

In addition to these members, Paul Carbol (JRC, Germany) will support the KMC based on his leadership experience in EURAD and PREDIS and act as a moderator.

Being part of the KMC means to be engaged to contribute actively and voluntarily (no EC funding) to build the programme and write of the proposal.

## Expectations

- By the end of June 2023, the KMC should produce a position paper on their recommendation to establish KM in EURAD-2 (main general ideas, processes, etc...). This position paper should answer the following questions:
  - o What are the priorities? (e.g. production of documents, sharing of facilities, trainings, mobilities of researchers, guidances)
  - o What should stay the same from EURAD-1 and PREDIS?
  - o What recommendations are there to change from EURAD-1 and PREDIS?

The results of this position paper will be presented by the KMC to the Core Group in early July and then during the public webinar #2 (July 11<sup>th</sup>). The slides for this presentation will be reviewed by the Core Group prior to this event.

- By end of September 2023, the KMC should produce a first version of its proposal to be integrate in the EURAD-2 submission proposal. This proposal should not exceed 5 pages. This will be reviewed by the Core Group and Colleges.

By end of October 2023, the KMC should produce the final version of its KM approach proposal, taking into account comments received, which the Core Group will then integrate to the final EC submission (to be approved by the Colleges).

## Guidelines

### ❖ Organisation

It is the responsibility of the KMC to establish and hold their own meetings. The KMC must produce minutes of each of its meetings. Those minutes will be forwarded to the Core Group coordinator in order to be added as Appendix to the Core Group minutes, for internal Colleges' information (not public).

The KMC will be invited to attend online, during 1 hour, the Core Group meeting planned on June 13<sup>th</sup>, to have a first exchange with the Core Group members. Additional meetings can be held upon request, and are envisioned in order to discuss feedback and/or finalize the proposal.

### ❖ Budget

The rough allocated budget for Knowledge Management in EURAD-2 is approximately of 7 million € for the 5 years duration of the partnership. This represents around 12 % of the total budget allocated by the EC.

Knowledge Management activities are foreseen to be funded at 100 % direct cost.

It is foreseen that each R&D and StSt WPs will have a KM task, likely as a percentage of the WP budget. The type of activities to be integrated to the KM task will be suggested by the KMC, reviewed and approved by the Core Group and Colleges.

### ❖ Interactions

The KMC should not solicit direct feedback from the College members but should inform the Core Group of any needed official feedback.

At this stage, the KMC should not have any interactions with the WP Preparation Teams. This kind of interaction is foreseen to take place later in summer 2023, once the final list of WPs is approved by the Colleges (early July 2023) and the first draft plan of the KMC is issued.

The KMC interactions with IAEA and NEA to discuss practicalities of KM implementation are also not necessary at this stage of the proposal, and will be handled in 2024.

### ❖ KMC suggested action plan

- Contact the other appointed members of the KMC and set up meeting(s) schedule
- Consider the background documents available on [Projectplace](#) under the dedicated workspace (KM proposals received by the Colleges)
- Provide a table of key KMC feedback/issues and make proposals how to address them in EURAD-2 implementation
- Prepare Position Paper to CG and draft slides for webinar #2 (by 30.6)
- Prepare first draft of KM plan for proposal (by 30.9), then finalize (by 31.10)

# Appendix 5 – Template for Requesting a Mandate

## European Partnership on radioactive waste management – EURAD-2

### Template for Requesting a Mandate

EURAD-2 Core-Group, April 2023

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The [EURATOM Work Programme 2023-2025](#) implementing indirect actions under the Euratom Research and Training Programme 2021–2025 contains a “Grant to identified beneficiaries” in the form of a co-funded European Partnership on radioactive waste management (RWM). To participate to the Grant for identified Beneficiaries, the participating Member States and Associated Countries “need to formally designate the mandated actors which will be able to participate as Beneficiaries to this Partnership”.

“Mandated actors include parties within the 3 Colleges: (i) waste management organisations tasked with managing and disposing of radioactive waste and represented by the Implementing Geological Disposal Technology Platform; (ii) technical safety organisations that carry out activities to provide the technical and scientific basis for supporting the decisions made by a national regulatory body and are represented by the Sustainable network for independent technical expertise on radioactive waste management (SITEX.Network); and (iii) nationally funded research entities involved in the R&D of radioactive waste management that established EURADSCIENCE during the European Joint Programme.”

As in EURAD-1, the recommendation from the Colleges is to have maximum one Mandated Actor per College per country (i.e 1 waste management organisation, 1 technical safety organisation , 1 research entity for one country). It is foreseen to have some exceptions to this recommendation considering the national context. Even if a Beneficiary had a mandate for EURAD-1, they need to have a new (renewed) mandate for EURAD-2. If a party does not know the Member State authority from which to seek the mandate, please be in contact with the Core Group coordinator.

A template for Requesting the Mandate has been draft by the EURAD-2 Core Group and is proposed on the next page. **The deadline to provide the mandates from the Member State authority (on letterhead, completed and signed) to the Core Group Coordinator is October 2<sup>nd</sup>, 2023.**

For further information about this mandate or the Partnership on RWM, you can contact the Core Group coordinator: [louise.theodon@andra.fr](mailto:louise.theodon@andra.fr)

Letterhead ministry

Louise Théodon  
Coordinator of EURAD-2 Core  
group  
ANDRA  
1/7 rue Jean Monnet  
92298 Châtenay-Malabry  
France

Location, Date

Ref : xxx

Subject: EURAD-2 mandate

We [full name of ministry], as Programme Owner in [country] certify that [name of the mandated organisation] is prepared to participate in the European partnership on the management of radioactive waste (EURAD-2).

Therefore, [name of the mandated organisation] has a mandate to participate as [Technical Safety Organisation, Waste Management Organisation, Research Entity\*] for [country] in the framework of the proposal that will be submitted, on 08 November 2023, in the Grant for identified Beneficiaries “Co-funded European Partnership on Radioactive Waste Management” (Euratom Research and Training Programme – Work Programme 2023-2025).

This mandate runs for 5 years, which is the whole duration of the partnership (2024-2029), and replaces any mandate previously granted for EURAD(-1) Programme.

Signature

Name and contact information

*\*Research Entity: nationally funded Research Entities working to different degrees on the challenges of radioactive waste management under the responsibility of Member States.*

*\*Technical Safety Organisation: organisations carrying out activities aimed at providing the technical and scientific basis for supporting the work and decisions made by a national regulatory body.*

*\*Waste Management Organisation: organisations having the ultimate responsibility for the implementation of geological disposal and for some other topics of radioactive waste management (waste characterization, treatment and packaging, interim storage, ...)*