

## EURAD-2 Focus Funnel, Cyprus

16-17 March 2023

### Detailed agenda

Thursday 16 March (all together, [Les Etoiles Hall](#))

- |                    |   |
|--------------------|---|
| <b>16.00-16.30</b> | <b>Welcoming coffee break</b>   |
| <b>16.30-16.40</b> | <b>Introduction and objectives of the meeting</b><br>Louise Théodon, Core Group Coordinator                             |
| <b>16.40-16.50</b> | <b>EC Introduction</b><br>Seifallah Ben-Hadj Hassine, European Commission   |
| <b>16.50-17.05</b> | <b>Knowledge Management work packages (WP)</b><br>Lara Duro, Core Group member representing RE College                  |
| <b>17.05-17.20</b> | <b>Detailed timeline for WP Preparation</b><br>Nadja Železnik, Core Group member representing TSO College               |
| <b>17.20-17.35</b> | <b>Process of WPs: from Colleges to Core Group bundling</b><br>Astrid Göbel, Core group member representing WMO College |
| <b>17.35-17.50</b> | <b>Suggested Synergy &amp; Grouping of WP ideas</b><br>Erika Holt, Core Group member representing TSO College           |
| <b>17.50-18.00</b> | <b>Process for Friday pitching sessions</b><br>Ingo Blechschmidt, Core Group member representing WMO College            |
| <b>18.00</b>       | <b>Socializing cocktail receptions</b>  |

Friday 17 March (5 parallel rooms, by Roadmap Themes)

**Welcoming and purpose, Moderator**

**Pitching and debating**, per WP: 15min pitching\* (5 min per College) + 15 min discussion (audience engagement)

- **Theme 1: Programme Management (Venus Conference Room)**

Moderator: Christophe Bruggeman

Time	WP number	Title	Speaker
09.30	WP 1.1	Alternative RWM STRAtegies – ASTRA	WMO – COVRA, The Netherlands
		Alternative RWM STRAtegies – ASTRA	TSO – EIMV, Slovenia
10.00	WP 1.2	Deep Borehole Disposal / Sealing - Increasing the TRL – DEEPBORE	RE – Galson, UK
10.30	WP 1.3	Sustainability aspects in radioactive waste management: Strategies for environmental, economical und social challenges	WMO – BGE, Germany / Andra, France

- **Theme 2: Pre-disposal (Minerva Conference Room)**

Moderator: Erika Holt

Time	WP number	Title	Speaker
09.30	WP 2.1	COnditioning of Radioactive wastes in INnovative mAtrices	TSO – CIEMAT, Spain
		New matrices for immobilization LLW-ILW	WMO – ENRESA, Spain / Andra, France
10.00	WP 2.2	Characterization of specific problematic waste streams	WMO – ENRESA, Spain
		PRe-dispOsal of Challenging wastE StreamS (PROCESS)	RE – Polimi, Italy
10.30	WP 2.3	Challenging geopolymers matrices for waste conditioning	RE – CEA, France
		Long-Term Performance of novel waste matrices	TSO – VTT, Finland

- **Theme 3: Engineered Barrier Systems (Les Etoiles Hall)**

Moderator: Lara Duro

Time	WP number	Title	Speaker
08.30	WP 3.1	Release safety relevant radionuclides from SNF under DGR conditions	WMO – SKB, Sweden
		Optimization of the understanding of SNF under disposal conditions: fast nuclides dissolution and SNF characterization	RE – Jülich, Germany
09.00	WP 3.2	Dissolution of waste forms under near-field conditions	RE – UJV, Czech Republic / SCK CEN, Belgium / CEA, France
09.30	WP 3.3	bEhaviouR of bituminouS radioacTive Waste under tHermal, radiological and Leaching conditions	TSO – IRSN, France
10.00	WP 3.4	Development of innovative solutions for HLW containers in geological disposal facilities	WMO – Andra, France / Posiva, Finland
		Surface processes influencing metallic components long-term performance	TSO – VTT, Finland
10.30	WP 3.5	Optimised buffer and backfill characterization	RE – BGS, UK / Geological Survey of Finland, Finland / University of Helsinki, Finland

- **Theme 4: Geosciences (Chloe Conference room)**

Moderator: Astrid Göbel

Time	WP number	Title	Speaker
09.30	WP 4.1	EVOCLIM: Impact of climate change on site evolution	WMO – Andra, France
		CLIMATE: Impact of climate change on radwaste facility safety	TSO – VTT, Finland
10.00	WP 4.2	Radionuclide mobility under perturbed conditions	RE – PSI, Switzerland / KIT, Germany
		Targeting key issues for Radionuclide migration- TRAMI	WMO – Andra, France / BGE, Germany
		Development of a generalized database of radionuclide retention/transport parameters for Safety Assessment. (RTP-DAT)	TSO – CIEMAT, Spain

10.30	WP 4.3	THMCG challenges (Coupled process capability development)	WMO – Andra, France
		Understanding dispersion and coupling across THMC properties in host rock formations	RE – BGS, UK

- **Theme 5: Disposal facility design and optimisation (Diana Conference room)**

Moderator: Ingo Blechschmidt

Time	WP number	Title	Speaker
09.30	WP 5.1	Durability of cementitious EBS materials	RE – RATEN, Romania / BGS, UK / SCK CEN, Belgium / CTU, Czech Republic / TU Delft, The Netherlands
10.00	WP 5.2	Behaviour of gallery support structures in clayey formations in perspective of the design optimisation of geological disposal systems	WMO – BGE, Germany
10.30	WP 5.3	Enabling Digital Twins - Repository Operation and Optimisation Platform of Integrated engineering design, performance assessment and geological models. (EDITOO)	WMO – Nagra, Switzerland
		Towards trusted digital twin powered holistic approach to safety cases	RE – PSI, Switzerland / BGRM, France / UFZ, Germany / IFE, Norway

**11.00-11.30 Coffee break & live feedback (post-it format)**

- **Theme 1: Programme Management (Venus Conference Room)**

Moderator: Christophe Bruggeman

Time	WP number	Title	Speaker
11.30	WP 1.4	Recycling of Radioactive Matters	RE – Subatech, France
12.00	WP 1.5	Waste Management for Small Modular Reactors (SMRs)	TSO – VTT, Finland
		Waste management of future fuel SMR/AMR/ATF	WMO – Andra, France
		Waste Management for Small Modular Reactors (SMRs)	RE – IFE, Norway
12.30	WP 1.6	Advanced and innovative spent fuel characterization	WMO – SKB, Sweden
		Advanced Spent Fuel Characterization (AdvSFC)	RE – BAM, Germany

		Innovative Characterization for Pre-disposal Spent Fuel Management	TSO – CIEMAT, Spain
--	--	--	---------------------

- **Theme 2: Pre-disposal (Minerva Conference Room)**

Moderator: Erika Holt

Time	WP number	Title	Speaker
11.30	WP 2.4	Sustainable cementitious materials for waste management (SMARTENT)	RE – CEA, France
12.00	WP 2.5	Characterization issues LILW	TSO – NRG, The Netherlands
12.30	WP 2.6	Managing challenging wastes from both technical and socio-technical perspectives	RE – Galson, UK

- **Theme 3: Engineered Barrier Systems (Les Etoiles Hall)**

Moderator: Lara Duro

Time	WP number	Title	Speaker
11.30	WP 3.6	Development of new composites and forms of buffer&backfill material (characterization and THMC modelling)	RE – EK CER, Hungary / CTU, Czech Republic
12.00	WP 3.7	Long-term evolution of DGR material interfaces driven by microbial and chemical factors	RE – CTU, Czech Republic / TUL, Czech Republic / ZAG, Slovenia
12.30	WP 3.8	High temperature concept of DGR (EBS performance, DGR optimization) - e.g., over 100 °C at container	RE – CTU, Czech Republic
13.00	WP 3.9	COnditions for cLOsURe	TSO – IRSN, France
		Backfill and closure optimisation and role in safety case	WMO – POSIVA, Finland
13.30	WP 3.10	Performance of Engineered Barriers - Long-term Evaluation Scenario	TSO – CIEMAT, Spain

- **Theme 5: Disposal facility design and optimisation (Diana Conference room)**

Moderator: Ingo Blechschmidt

Time	WP number	Title	Speaker
11.30	WP 5.4	High fidelity numerical simulations of strongly coupled processes for repository systems and design optimisation with physical models and machine learning	RE – PSI, Switzerland

		High fidelity numerical simulations of strongly coupled processes for repository systems and design optimisation with physical models and machine learning	WMO – ENRESA, Spain
12.00	WP 5.5	Monitoring reliability and decision making	WMO – Andra, France
		Automated Sensor-based Tool for Real-time and Remote Monitoring the durability of critical RMW materials and elements. (A-STORRM)	TSO – CSIC, Spain
12.30	WP 5.6	Repository layout & operation	TSO – Bel V, Belgium
13.00	WP 5.7	Optimization of surface disposal and design of repository (LILW)	WMO – Andra, France / ONDRAF, Belgium / ENRESA, Spain

- **Theme 7: Safety Case (Chloe Conference room)**

Moderator: Astrid Göbel

Time	WP number	Title	Speaker
11.30	WP 7.1	Criticality Safety for Final Disposal	WMO – NAGRA, Switzerland
12.00	WP 7.2	Development and Improvement of Quality Assured Thermodynamic Understanding for use in Nuclear Waste Disposal Safety Case (DITUSC)	RE – KIT, Germany
12.30	WP 7.3	Natural analogues and long-term evolution: upscaling towards relevant space and time scales	RE – SCK CEN, Belgium
		Natural analogues: understanding long-term evolution and supporting performance and safety assessments	WMO – BGE, Germany / NAGRA, Switzerland

**14.00** Adjourn, including wrap up to give additional live feedback (paper format)