Mobility mission report

This work has been partially supported by the EURAD project that has received funding from H2020-EURATOM 1.2 under grant agreement ID 847593.

The information included in this mission report consists of personal data of applicants, and in the frame of GDPR we ask you place emphasis on its integrity: the personal data in this mission report cannot be used for purposes other than the evaluation and the management of EURAD Mobility Programme. For the avoidance of doubt, this information – out of its nature – is confidential information as mentioned in Article 10.1 of the EURAD Consortium Agreement Version [17/09/2019] with effective date of 1 June 2019 (although it might not be explicitly marked as such).

# *REport template Guidelines — Remove this entire section before submitting*

* *This template consists of “sections” (fixed headings) and “fields” (text boxes for custom information)*
* *All sections and fields are mandatory unless specified otherwise*
* *Appendix “A. Mission journal" should be prepared during the course of the mission*
* *All template guidelines shall be replaced with custom text or removed as specified*
* *The report shall be approved by the official mission mentors or supervisors before submission (use the signature block at the very end of the report template)*
* *The report shall be submitted in both editable (.doc) and portable (.pdf) file formats*
* *Both files shall use the code of the mission as the filename’s suffix, i.e. “Mission\_Report\_SXXXXX” : the word “Template” shall be replaced with the initial code assigned automatically to the application (letter “S” followed by 5 digits)*
* *The report shall be submitted via email to* *euradwp13@sckcen.be*

# Mission title

Replace this entire field with the title of the mobility mission (identical to the title in the mobility mission request) of maximum 25 words

# description

## Concerned organisations

Remove this entire field as well as every below organisation that do not apply and add lines to specify other relevant organisations as appropriate

* Research entities
* Technical support organisations
* Waste management organisations

## Concerned infrastructures or facilities

Remove this entire field as well as every below infrastructure or facility that do not apply and add lines to specify other relevant infrastructures or facilities as appropriate

* High-performance computing
* Underground research laboratory
* Environmental monitoring facilities
* Waste packages control facilities
* Other relevant infrastructure or facility to be specified

## Concerned phases

Remove this entire field as well as every below phase that do not apply

* Phase 0: Policy, framework and programme establishment
* Phase 1: Site evaluation and site selection
* Phase 2: Site characterisation
* Phase 3: Facility construction
* Phase 4: Facility operation and closure
* Phase 5: Post‐closure

## Themes and topics

Remove this entire field as well as every below theme and topic that do not apply

* Theme 1: Managing implementation and oversight of a radioactive waste management programme
	+ Programme planning
	+ Organisation
	+ Resources
* Theme 2: Radioactive waste characterisation, processing and storage (Pre‐disposal activities), and source term understanding for disposal
	+ Waste handling, characterisation, treatment and packaging
	+ Interim storage
	+ Transportation between facilities
	+ Radionuclide inventory and source term
	+ Waste acceptance criteria
* Theme 3: Engineered barrier system (EBS) properties, function and long-term performance
	+ Spent Fuel and high-level waste disposal canisters
	+ Containers for long-lived intermediate and low level wastes
	+ Clay‐based backfills, plugs and seals
	+ Cementitious‐based backfills, plugs and seals
	+ Salt backfills
	+ EBS system understanding
* Theme 4: Geoscience to understand rock properties, radionuclide transport and long-term geological evolution
	+ Long-term stability (uplift, erosion and tectonics)
	+ Perturbations (gas, temperature and chemistry)
	+ Aqueous pathways and radionuclide migration
* Theme 5: Geological disposal facility design and the practicalities of construction, operations and closure
	+ Facility and disposal system design
	+ Constructability, demonstration and verification testing
	+ Health and safety during transport, construction, operations and closure
	+ Monitoring and retrievability
* Theme 6: Siting and Licensing
	+ Site selection process
	+ Detailed site investigation
	+ Licensing
* Theme 7: Performance assessment, safety case development, and safety analyses
	+ Integration of safety-related information
	+ Performance assessment and system models
	+ Treatment of uncertainties

## Keywords

Replace this entire field with a list of maximum five additional keywords of your choice further specifying the mission contents and outcomes as appropriate. Separate the keywords with semi-colons. E.g.: activation calculations; evaluation of containment; radionuclide release mechanisms; radionuclide transport; redox phenomena.

# Executive summary

Replace this entire field with about 250-400 words summarising the R&D background, mission objectives, practices, techniques, methods, tools and systems implemented/studied and main results.

# Mission background

*This entire section shall be maximum two pages (remove this entire sentence).*

## R&D background

Replace this entire field with the description of the R&D background to the mission (identical to the description in the mobility application and mission request).

## Mission objectives

Replace this entire field with the description of the mission objectives (identical to the description in the mobility application and mission request).

## Mission request

Replace this entire field with the initial statement of the mission request.

## Mission composition

## Host organisation

Replace this entire field with the name of the organisation hosting the mission. E.g.: ANDRA.

## Host facility

Replace this entire field with the name of the facility at which the mission took place. E.g.: Meuse-Haute-Marne Underground Research Laboratory.

## Mission dates

Replace this entire field with the period during which the mission took place. E.g. : 15 September 2019 – 21 February 2020

# Major Practices, techniques, methods, tools or systems operated or studied

*Describe up to four of the most important practices, methods or tools you operated or studied during the mission, as applicable. This entire section shall be maximum two pages (remove this entire sentence).*

## Practice, technique, method, tool or system operated or studied during the mission

Replace this entire field with the name of the practice, technique, method, tool or system that is the object of this mission.

## Description

Replace this entire field with a description of the implementation of this practice, technique, method, tool or system at the host organisation.

## Usage

Replace this entire field with a description of your operation or study of this practice, technique, method, tool or system during the mission.

## Benefits

Replace this entire field with a description of the benefits for implementing this practice, technique, method, tool or system.

## Limitations

Replace this entire field with a description the limitations of this practice, technique, method, tool or system.

## Applicability

Replace this entire field with a description of how this practice, technique, method, tool or system could be implemented in or adjusted to your home context.

## Practice, technique, method, tool or system operated or studied during the mission

Replace this entire field with the name of the practice, technique, method, tool or system that is the object of this mission.

## Description

Replace this entire field with a description of the implementation of this practice, technique, method, tool or system at the host organisation.

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## Applicability

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# Mission findings and conclusions

*This entire section shall be maximum one page (remove this entire sentence).*

## Lessons learned and conclusions

Replace this entire field with a description of about 300 words of the lessons learned and conclusions of your mission.

## Relevant findings and conclusions for home organisation

This section is not mandatory but can be prepared with the mission supervisor or mentor from your home organisation. If applicable, replace this entire field with a description of about 200 words of findings and conclusions that are specifically relevant to your home organisation. If not applicable, remove the entire section.

## Relevant findings and conclusions for host organisation

This section is not mandatory but can be prepared with the mission supervisor or mentor from the host organisation. If applicable, replace this entire field with a description of about 200 words of findings and conclusions that are specifically relevant to the host organisation. If not applicable, remove the entire section.

## Relevant findings and conclusions for other organisations

This section is not mandatory but can be prepared with the experts from other organisations. If applicable, replace this entire field with a description of about 200 words of findings and conclusions that may be of particular relevance to other identified organisations or types thereof. If not applicable, remove the entire section.

# POTENTIALS for improvement or development

*This entire section shall be maximum one page (remove this entire sentence).*

## Generic potentials

This section is not mandatory. If applicable, replace this entire field with a description of about 150 words of generic potential improvements or developments you can suggest for the practices, techniques, methods, tools or systems operated or studied during the mission. If not applicable, remove the entire section.

## Potentials for home organisation

This section is not mandatory but can be prepared with the mission supervisor or mentor from your home organisation. If applicable, replace this entire field with a description of about 150 words of specific potential improvements and developments you can suggest for your home organisation. If not applicable, remove the entire section.

## Potentials for host organisation

This section is not mandatory but can be prepared with the mission supervisor or mentor from the host organisation. If applicable, replace this entire field with a description of about 150 words of specific potential improvements and developments you can suggest for the host organisation. If not applicable, remove the entire section.

# Appendices

## Mission journal

This section is mandatory. Replace this entire field with the description of the daily activities and work carried out during the mission (this should be prepared during the course of the mission and should not exceed 1 page).

## Mission bibliography

This section is not mandatory. If applicable, replace this entire field with an APA formatted list of the most relevant references to specific papers, reports etc. you identified when preparing the mission or during its course. If not applicable, remove the entire section.

# Mission Beneficiary

Replace this entire field with your First Name and LAST NAME

Replace this entire field with your professional or educational position

Replace this entire field with your entity (e.g. department) within your home organisation

Replace this entire field with the name of your home organisation and country

# Partner experts contributing to the mission

## Host organisation experts

* Replace this entire field with the names of the experts and their affiliation (position, department) from the host organisation who participated directly in overseeing or implementing the mission
* Add as many lines as appropriate

## Home organisation experts

* Replace this entire field with the names of the experts and their affiliation (position, department) from your home host organisation who participated directly in overseeing or implementing the mission
* Add as many lines as appropriate

## Other organisations experts

* Replace this entire field with the names and affiliations of the experts and their affiliation (position, department, organisation) from any other organisation who contributed directly to oversee or implement the mission
* Add as many lines as appropriate

# REport Approval

|  |  |  |  |
| --- | --- | --- | --- |
| Date | Beneficiary | Home mentor/supervisor | Host mentor/supervisor |
| Date of last signee | Name  | Name  | Name  |
| Visa | Visa  | Visa  |