Preparation of activities to be included in EJP1

M. Garcia and S. Schumacher (Core Group)
EURATOM Call WP2018 - published

27/10/2017  Official publication of EURATOM WP2018 Call on the EC portal

NFRP-2018-6: European Joint Research Programme in the management and disposal of radioactive waste

- **Type of action:** EJP COFUND (60 months)
- **Available EC budget:** 26-32,5M€
- **EC funding rate:** 55% of total eligible costs

Published: 27/10/2017
Submission deadline: 27 September 2018
Joint research Programme in RWMD

JP R&D Actors
- WMOs
- TSOs
- Research Entities (incl. R&D department of Waste Producers)
- Civil Society

Define
- Carrying out
- cofund

Close Interaction with
- Collaborative RD&D
  - Networking
  - Knowledge Management
  - Civil Society engagement

Vision
SRA
Governance mechanisms
Roadmap

EJP1 2019-2024

Cofund through Grant Agreement

EJP2 2024 - 2029

From EU Members States and Associated countries With advanced, less advanced or small programme

Is deployed Through 5-year implementation phases

Close Interaction with Collaborative RD&D Networking Knowledge Management Civil Society engagement

Waste Producers End User Group

IAEA NEA IAEA NEA
General overview of EJP activities

Integration at Programme Level
(PMO and governing bodies)

Collaborative RD&D

Knowledge Management

Networking

Knowledge sharing with CS

Horizontal activities
Governance of the EJP1 proposal development phase

EJP1 proposal development

- RD&D WPs
- Networking WPs
- KM WPs
- KSI
- Admin & Finance + Redaction

Evaluation, and, if accepted, grant preparation
Grant preparation

EJP1 implementation

- RD&D WPs – Wave 1
- RD&D WPs – Wave 2
- Networking WPs
- KM WPs
- KSI
- PMO

May 2019

EURATOM Call
Closure

27 Sept. 2018
Governance during the proposal development of EJP1 proposal until its submission in Sept. 18
**EJP1 governance**
that will officially be effective when EJP1 will officially launched (after signature of the Grant Agreement)

Governance during the proposal development of EJP1 proposal until its submission in Sept. 18
Since January 2017, a **Core Group** acts as a catalyser and facilitator in the development of the EJP1 proposal

- Until today it has mainly facilitated the preparation work necessary to launch the development of RDD, Networking and KM activities and to inform Member-States about participation rules
- Now EC call has been officially published, and actors progressively being mandated, the proposal preparation work will also focus on the governance of EJP1.

EJP1 proposal development has to be done collectively (transparency and inclusiveness principles)

- Coordinator of the Core Group:
  - Marie Garcia (Andra)
- 2 WMO representatives
  - Monica Hammarström, SKB, SE
  - Stéphan Schumacher, Andra, FR
- 2 TSO representatives
  - Valéry Detilleux Bel V, BE
  - Elisabeth Salat, IRSN, FR
- 2 RE representatives
  - Bernd Grambow, CNRS, FR
  - Gunnar Buckau, JRC, EU
- 1 representative for small/early stage programmes
  - Jitka Miksova, CVREZ, CZ (TSO)
- 1 CSO representative
  - Gilles Hériard-Dubreuil, Mutadis, FR
Development of the WPs for the first implementation phase of the Joint Programme (EJP1)
Main requirements for WPs

WPs must:

- be in line with the **EJP Vision** and with the **Strategic Research Agenda**;
- bring **European-added value**;
- be primarily built on the **scientific content** and guided by **excellence** (beyond the state-of-the-art), **implementation needs** and **safety concerns**;
- avoid disconnected, spread or repeated **contributions**: each contribution should bring complementarity and therefore added-value to the project;
- be **meaningful, focused** and **manageable**;
- have **clear main and specific objectives**, manageable tasks with associated input/output and a list of easy verifiable milestones/deliverables;
- clearly forecast how it will **generate/consolidate knowledge**;
- ensure **interconnections** with any other concerned RD&D projects, Networking or Knowledge Management activities within the EJP;
- 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.
General overview of EJP1 proposal

Integration at Programme Level
(PMO and governing bodies)

Collaborative RD&D

CORI
RN
SF charac.
Modelling
Temperature
Chem. evo.
Gas migration

Knowledge Management

SoK
Guidance
Training
Dissemination

Networks

routes
Uncertainties

Knowledge sharing with CS

Horizontal activities
General overview of EJP1 proposal

Collaborative RD&D

CORI  RN  SF charac.  Modelling  Temperature  Chem. evo.  Gas migration

Integration at Programme Level (PMO and governing bodies)

Knowledge Management

SoK  Guidance  Training  Dissemination

Networking

routes  Uncertainties

Knowledge sharing with CS

Horizontal activities
How were set up the RDD WPs (1st wave)

Based on JOPRAD Programme Document

Taking into account ongoing EC projects

Taking into account prioritisation exercise with IGD-TP and SITEX in March 2017

Preliminary list of WPs integrated by the Core Group

Link with the topics of the JOPRAD Programme Document
Constitution of RDD WPs (1st wave)

7 RDD WPs

1. Modelling of process couplings and numerical tools applied to PA
   2.1.3 Uncertainty Treatment
   2.3.1 Performance Assessment Tools
   2.3.3 Long-range Transport Models
   2.3.4 Multi-scale Reactive Transport Models
   2.3.5 Upscaling in Performance Assessment
   2.2.4 Up-scaling THMC Models
   2.3.6 Heterogeneity

Medium level of common interest
High level of common interest
Constitution of RDD WPs (1st wave)

7 RDD WPs

1. Modelling of process couplings and numerical tools applied to PA

2. Assessment of chemical evolution of ILW and HLW disposal cell
   1.1.4 Radionuclide Release from Wasteforms other than Spent Fuel
   1.1.5 Geopolymers
   1.2.2 Waste Package Interfaces
   1.4.1 Bentonite and Other Clay Based Components
   1.4.5 Metallic & Cementitious Chemical Perturbations
   1.4.7 HLW/ILW Near-field Evolution
   2.2.1 THMC Evolution

Medium level of common interest
High level of common interest
Constitution of RDD WPs (1st wave)

7 RDD WPs

1. Modelling of process couplings and numerical tools applied to PA
2. Assessment of chemical evolution of ILW and HLW disposal cell
3. Mechanistic understanding of gas migration (mainly in clay-based materials)
   - 1.4.2 Microbial Influence on Gas Generation
   - 1.5.1 Gas Migration though the Excavated Disturbed Zone/EBS and Far-Field
   - 1.6.11 Transport of Volatile Radionuclides ; 1.5.3 Gas Transient

Medium level of common interest
High level of common interest
Constitution of RDD WPs (1st wave)

7 RDD WPs

1. Modelling of process couplings and numerical tools applied to PA
2. Assessment of chemical evolution of ILW and HLW disposal cell
3. Mechanistic understanding of gas migration (mainly in clay-based materials)
4. Influence of temperature on clay-based material behaviour
   1.4.1 Bentonite and Other Clay Based Components
   2.2.1 THMC evolution

Medium level of common interest
High level of common interest
Constitution of RDD WPs (1st wave)

7 RDD WPs

1. Modelling of process couplings and numerical tools applied to PA
2. Assessment of chemical evolution of ILW and HLW disposal cell
3. Mechanistic understanding of gas migration (mainly in clay-based materials)
4. Influence of temperature on clay-based material behaviour
5. Cement-Organics-Radionuclide-Interactions
   1.6.2 Sorption, Site Competition, Speciation and Transport
   1.6.4 Transport of Strongly Sorbing Radionuclides
   1.6.6 Organic-Radionuclide Migration
   1.6.10 Ligand-Influenced Transport Modelling

Medium level of common interest
High level of common interest
Constitution of RDD WPs (1st wave)

7 RDD WPs

1. Modelling of process couplings and numerical tools applied to PA
2. Assessment of chemical evolution of ILW and HLW disposal cell
3. Mechanistic understanding of gas migration (mainly in clay-based materials)
4. Influence of temperature on clay-based material behaviour
5. Cement-Organics-Radionuclide-Interactions
6. Fundamental understanding of radionuclide mobility
   1.6.1 Chemical Thermodynamics
   1.6.2 Sorption, Site Competition, Speciation & Transport
   1.6.3 Incorporation of Radionuclides in Solid Phases
   1.6.4 Transport of Strongly Sorbing Radionuclides
   1.6.5 Effects of microbial perturbations on radionuclide migration
   1.6.8 Colloids influence on radionuclide migration
   1.6.9 Redox Influence on Radionuclide Migration
   1.6.10 Ligand-Influenced Transport Modelling

Medium level of common interest
High level of common interest
Constitution of RDD WPs (1st wave)

7 RDD WPs

1. Modelling of process couplings and numerical tools applied to PA
2. Assessment of chemical evolution of ILW and HLW disposal cell
3. Mechanistic understanding of gas migration (mainly in clay-based materials)
4. Influence of temperature on clay-based material behaviour
5. Cement-Organics-Radionuclide-Interactions
6. Fundamental understanding of radionuclide mobility
7. Spent Fuel characterization and evolution until disposal

- 1.1.10 Spent Fuel Release Processes
- 1.1.2 Non-Destructive Assay Techniques
- 1.3.2 Impact of extended storage on waste packages
- 2.4.5 Interim Storage Facility Safety

Medium level of common interest
High level of common interest
RDD WPs - 1st meetings

- A **Call for Interest** was then issued in April 2017 to collect interest/potential contributions by the different actors
  - The 7 WPs received high level of interest
- 7 Working Groups were established in June 2017
- First meetings were held in September, objectives:
  - Gather all potential contributors
  - Remind the objectives of the EJP, including **rules for participation** (as Beneficiary or LTP)
  - Start **outlining of the WP**
  - Establish the **Coordination Team for the WP development**
    - 1 WP Leader and **2 sub-coordinators** (repr. WMO, TSO, RE)
    - Facilitate and coordinate the development of the WP proposal
    - Make sure that the WP meets the recommendations
    - Regularly report to and exchange with the Core Group in order to ensure interactions with other EJP1 activities
  - Identify **next steps** for the WPs’ development
## RDD WPs – coordination teams (as of today)

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<th>Work packages under development</th>
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<td>C. Martin</td>
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<td>M. Altmaier</td>
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<td><strong>Fundamental understanding of radionuclide mobility</strong></td>
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<td>D. Bosbach</td>
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<td>P. Jansson</td>
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<td>J. Cobos</td>
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General overview of EJP1 proposal

Integration at Programme Level
(PMO and governing bodies)

Collaborative RD&D

- CORI
- RN
- SF charac.
- Modelling
- Temperature
- Chem. evo.
- Gas migration

Knowledge Management

- SoK
- Guidance
- Training
- Dissemination

Networking

- routes
- Uncertainties

Knowledge sharing with CS

Horizontal activities
The Networking WP on **Uncertainty** has been suggested by TSOs and has received interest from WMOs, REs and CSOs, therefore it has been included in the first wave.

The networking WP on **Management Routes** has been added following JOPRAD Prog. Doc. Workshop (London) to meet expectations from small / early stage programmes.
2 Networking WPs

1. Understanding of uncertainty, risk and safety
   - 1.1.1 Inventory Uncertainty
   - 1.7.2 Geological Uncertainties
   - 2.1.3 Uncertainty Treatment
   - 3.1 Site Uncertainty Treatment

Socio-political confidence building themes:
   - Safety culture
   - Uncertainty, Epistemology and Social Trust
   - Socio-technical hybridization & aggregating a diversity of people, stakeholder engagement

+ All high priority subdomains addressing uncertainties, e.g.:
   - 1.1.4 Radionuclide Release from Wasteforms other than Spent Fuel
   - 1.3.2 Impacts of Extended Storage on Waste Packages
   - 1.5.1 Gas Migration through the Excavated Disturbed Zone/EBS and Far-Field
   - 1.6.1 Chemical Thermodynamics
   - 1.6.9 Redox influence on Radionuclide Migration
   - 1.6.10 Ligand-Influenced Transport Modelling

Medium level of common interest
High level of common interest
Constitution of Networking WPs (1st wave)

2 Networking WPs

1. Understanding of uncertainty, risk and safety
   - 1.1.1 Inventory uncertainty
   - 1.1.2 Waste Characterisation Techniques
   - 1.1.3 Non-mature and Problematic Waste Conditioning
   - 1.1.4 Radionuclide Release from Wasteforms other than Spent Fuel
   - 1.1.5 Geopolymers
   - 1.1.7 Chemotoxic species
   - 1.1.8 Novel radioactive waste treatment techniques
   - 1.2.1 Damages and Re-working packages
   - 1.2.2 Waste Package Interfaces
   - 1.2.3 alternative HLW/spent-fuel container material development
   - 1.3.2 Impacts of Extended Storage on Waste Packages
   - 2.1.6 Waste Acceptance Criteria
   - 2.4.5 Interim Storage Facility Safety
   - 3.5 Inventory Collation & Forecasting
Networking WPs - 1st meetings

- A **Call for Interest** was then issued in April 2017 to collect interest/potential contributions by the different actors
  - The 2 WPs received high level of interest

- 2 Working Groups were established in June 2017

- First meetings were in September, objectives:
  - Gather all potential contributors
  - Remind the objectives of the EJP, including **rules for participation** (as Beneficiary or LTP)
  - Start **outlining of the WP**
  - Establish the **Coordination Team for the WP development**
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<tbody>
<tr>
<td><strong>Waste management routes in Europe from cradle to grave</strong></td>
<td>V. Wasselin</td>
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<td>C. Johansson</td>
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<td>A. Savidou</td>
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<td><strong>Understanding of uncertainty, risk and safety</strong></td>
<td>F. Lemy</td>
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<td>A.Goebel</td>
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<td>A. Constantin</td>
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General overview of EJP1 proposal

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Collaborative RD&D

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- Gas migration

Knowledge Management

- SoK
- Guidance
- Training
- Dissemination

Networking

- routes
- Uncertainties

Knowledge sharing with CS

Horizontal activities
The EURATOM WP2018 Call clearly states:

- development of *State-of-the-art documentation* (e.g. text books),
- *guidance documents for planning and implementing research*,
- *training courses*
- *hands-on-training via mobility measures*
- represent the EJP in areas of competence in *international events and forums*
Joint Programme objectives for Knowledge Management (based on JOPRAD D3.6 and D4.4 « Programme Document »)

- Make sure that public knowledge generated over past, ongoing and future RD&D is preserved and made accessible.
- Make sure that MS with national programmes at early-stage of implementation can take advantage of existing knowledge from MS with advanced national programmes.
- Ensure that the necessary expertise and skills are maintained through generations of experts by providing training and mobility for researchers.
- Disseminate and demonstrate progress, results and added-value of the European Joint Programme to a wide audience.
The following 4 WPs have been established directly deriving from EC EURATOM Call WP2018

A Call for Interest has been issued in Oct. by the Core Group in order to identify JP Actors that would be interested in developing these WPs

Organisations had until November 3rd to communicate their willingness to contribute to the development of KM WP(s), and if so to provide the contact detail of the competent person(s) from their organisation.

The kick-off meeting will be held on November 17th, in Prague, CZ.
Knowledge generated under EJP R&D and Networking
Knowledge from former/ongoing EC projects (FP6, FP7, H2020)
Public WMO & TSO reports
Science Base
Policy Documents
International org. docs (IAEA, NEA, …)

Knowledge to be extracted

Develop S/T SoK Documents
KM WP1

Develop Guidance Documents
KM WP2

Disseminate
KM WP4

Deliver Training / Mobility
KM WP3

Web-based Knowledge Handbook

Collaborative RD&D

Networking

Contribute

IKMS

End-Users

EJP1 Organisations

WMOs, TSOs, REs, Waste Producers, CSOs from EU and beyond IGD-TP, SITEX, ENEN, NUGENIA, IAEA
Decision-makers (Programme Owners, EC)
Scientific community at large (experts, young researchers)
General overview of EJP1 proposal

Collaborative RD&D

Integration at Programme Level (PMO and governing bodies)

Knowledge sharing with CS

Network routing

Uncertainties

Knowledge Management

- SoK
- Guidance
- Training
- Dissemination

Horizontal activities

- CORI
- RN
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- Modelling
- Temperature
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- Gas migration

Dissemination

Training

Guidance

Uncertainties

Modelling
Knowledge sharing with CS

- **RD&D Knowledge Sharing and Interpretation**: interactions between scientists and Civil Society Experts will enable Civil Society representatives to access, interpret and evaluate the results of the EJP, to express their expectations and bring their views, and, as final result it will improve the general understanding on issues related to RWMD.

- **Participation of Civil Society Experts in Networking activities**. This involves interactions with WMOs, TSOs and Research Entities where Civil Society representatives will bring their views and expectations.

- Use experience of SITEX, SITEX II, BEACON, Modern2020
Internal review exercise
Internal reviews of WP

- **Internal review/screening exercise n° 1:**
  - **Launch:** 15 December 2017 - **Deadline:** early February 2018

<table>
<thead>
<tr>
<th>Objectives</th>
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</table>
| Check that scientific/technical content is guided by: | ▶ Mandated WMOs (coordinated by IGD-TP)  
  - Implementers view  
  - Mandated TSOs (coordinated by SITEX Network)  
  - Safety view  
  - Mandated REs (Coordinated by tbd)  
  - Scientific value |
|  - Scientific excellence  
  - Implementation needs  
  - Safety concerns | |

*Outcomes of the screening exercise (common statement from each group) to be sent to their Core Group representatives*

- Check that WPs are in line with SRA and overall JP Vision and governing principles  
  - Core Group

- Check that interactions between WPs are well taken into account in each WP  
  - Core Group + WP Leaders
Internal evaluations - timeline

<table>
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<tr>
<th>Dec.</th>
<th>Jan. 18</th>
<th>Feb.</th>
<th>March</th>
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WP development

1st budget estim.
15/12/2017

16 Dec. – early February Internal evaluation#1
• Excellence
• Impact on implementation
• Impact on safety
• Check internal eligibility criteria

Mid-Feb: Core Group meeting
Compile & send feedback from evaluation to CTs

WP detailed budget
6/03/2018

WP detailed budget
29/04/2018

Early June: Core Group meeting
Compile & send feedback from evaluation to CTs

30 April – 23 May, Internal Evaluation #2
• Check that comments from Internal Evaluation #1 were taken into account

If the internal review highlights insufficient level of maturity of WP(s) that could weaken the overall EJP1 proposal, Core Group will make proposal to Mandated Actors for approval (improve the WP, or withdrawal from EJP1 proposal file).

If there are internal budget constraints, some budget adjustments would be necessary, Core Group will make suggestions of budget adjustments to CTs.

If there are internal budget constraints and/or imbalance are anticipated, Core Group will make suggestions of budget adjustments to CTs.
Consultation by other Actors

- In parallel of the internal Review exercise by EJP1 Mandated Actors, the WP descriptions shall also be sent to programme owners, regulatory bodies, CSOs and Waste Producers for advising comments on the impacts of the WPs
Next steps
EJP1 – participants

- Confirmation by Programme Owners (Ministries) of Mandated Actors/Beneficiaries by the end of 2017
- For the organisations not mandated as Beneficiary, confirmation for being able to participate as Linked Third Parties (with explanation of the preexisting legal links) – first quarter 2018

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**EJP COFUND – Grant Agreement model**

The EU Framework Programme for Research and Innovation

**HORIZON 2020**

**H2020 Programme**

Multi-Beneficiary Model Grant Agreement

European Joint Programme (EJP) Cofund

(H2020 EJP Cofund — Multi)

Version 5.0
30 October 2017


**Horizon 2020 Rules for Participation**

Programme integration and Collection of administrative data (including Programme Owner/manager declaration, contractual link for Linked Third Parties)

Consortium Agreement

Final Writing of proposal

Submission to EC

EJP proposal

EURATOM EC call WP2018

Publication closure

Deadline for Member-States to mandate Beneficiaries

EJP1 General Meeting n°1 18/10/2017, Antony (FR)

EJP1 General Meeting n°2

EJP1 General Meeting n°3

Internal review 1

Internal review 2

WP descrip. #2

WP descrip. #2

RD&D WPs

Networking WPs

KM WPs

KSI

Governance, Budget

RD&D WPs

Networking WPs

KM WPs

KSI

Governance, Budget

Consortium Agreement

Final Writing of proposal

Submission to EC

EJP proposal
Next steps

RDD / Networking WPs

- Continue interactions within and development of each WP, plan further meetings
- An update of the WP description is requested by the Core Group by December 15th, including
  - More detailed tasks (incl. Contributors and estimated man-months)
  - Foreseen deliverables
  - Links with other RDD / Networking WPs
  - Links with Knowledge Management WPs
  - Links with Knowledge Sharing with Civil Society
- The internal review/screening exercise n°1 will be done on the basis of these WPs’ descriptions (January 2018)
- Further development and refinement of the WPs (integration of comments of the 1st review exercise)
Next steps

Knowledge Management
- Kick off meeting for KM Work Packages
  - 17th November, Prague, CZ

Governance scheme
- The Governance scheme and mechanisms will be developed by Beneficiaries (Mandated Actors), work will be facilitated by the Core Group
  - Early 2018

General EJP1 preparation meeting n°2
- First quarter 2018 (to be announced soon)
Thank you for your attention

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