



JOPRAD

rationale, objectives and outcomes

Final Workshop 16/11/2017

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This project has received funding from the Euratom research and training programme 2014-2018 under grant agreement n° 653951



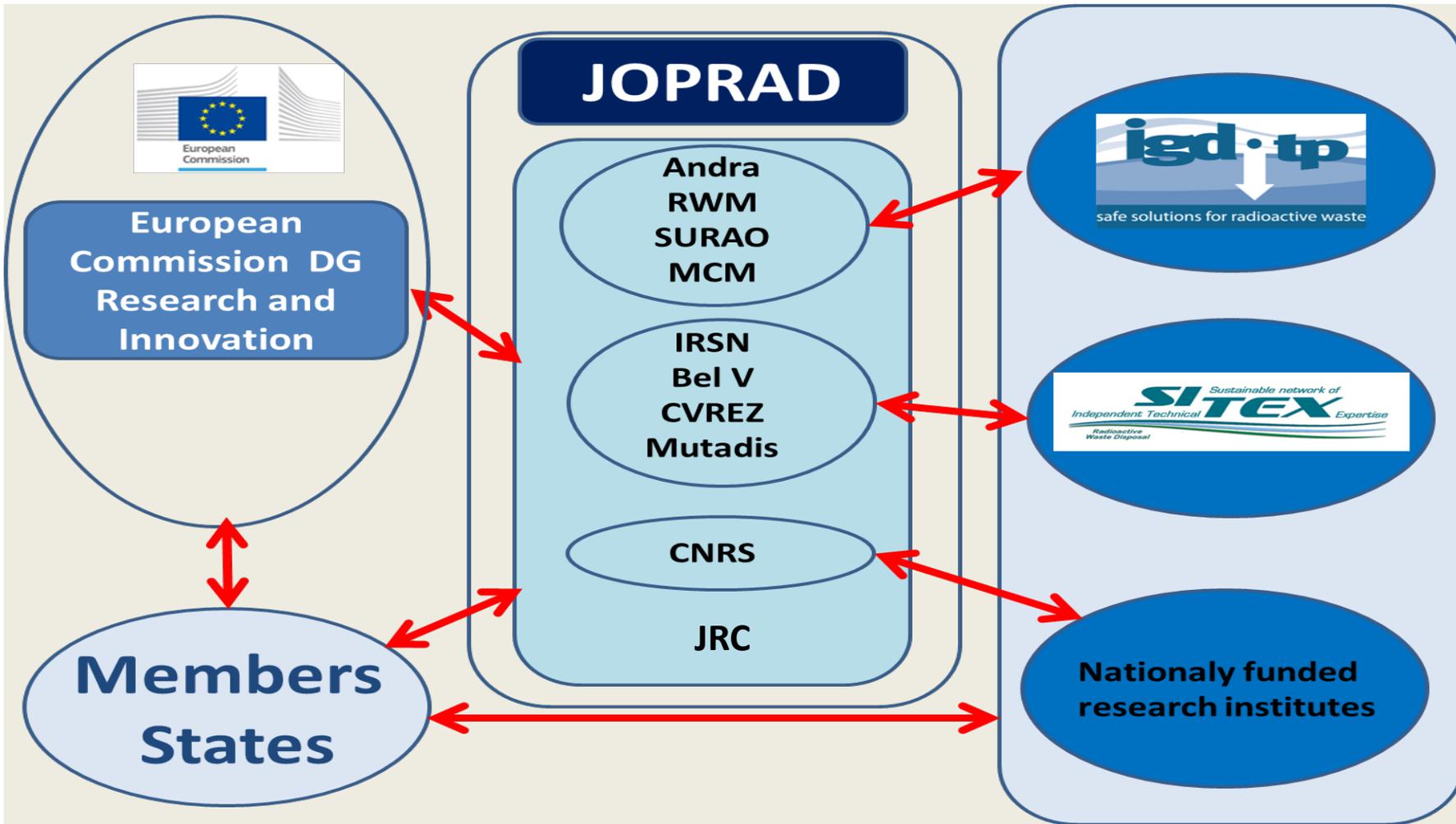
HORIZON 2020 WP14-15

- Scope: *The aim of **joint programming** is to develop synergies and increase coordination of national research programmes in the field of management of spent fuel and radioactive waste*
- *At the beginning of the project the benefits were seen as follow:*
 - ✓ **For EU** : to foster the implementation of the “Waste Directive” through enhanced cooperation and coordination of national research programmes at EU level
 - ✓ **For Member States** : to organize at national level the research on RW and implement their national research programmes with mandated research actors
 - ✓ **For research actors:** to carry out R&D activities implemented within national research programmes where synergy at the European level is identified

The JOPRAD Project - scope

- The aspects of R&D activities brought together concern radioactive waste management and disposal of spent fuel and other high activity long lived radioactive waste
 - ✓ It includes waste management aspects linked with their disposal and accompanying key activities : Education and Training, as well as Knowledge Management
 - ✓ R&D is carried out by WMOs, TSOs and research entities
 - Linked with waste producer's organisations

Participants of the project



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The Joprad Project – Key tasks

- To contact the Member States
 - ✓ Informing on the Joint Programming objectives and the JOPRAD project
- To write a “Programme Document”
 - ✓ Covering the key issues of the R&D in radioactive waste management
 - ✓ Addressing “horizontal activities”
- To carry out a study aiming at establishing conditions and modalities of the implementation of a JP
 - ✓ Legal scheme
 - ✓ Means of involvement of the “Civil Society Organisations”

Contacting Member States

- Methodology: target the Euratom Fission committee delegates and actors involved in EU project
- Response obtained from 23 countries
 - ✓ evaluate the potential interest of Member States and
 - ✓ identify key research actors in the domain
- Additional information obtained through research organisations
 - ✓ **Potentially 21 countries interested in a JP**

Contacting potential mandated actors

- Research actors in the domain covered by the JOPRAD project were identified in most of the EU countries and contacted
- Research organisation from 17 countries actively participated to at least one JOPRAD technical working group for establishing the programme
- Regional Meeting in Bucharest, Feb 3-4 2016
 - ✓ To inform, engage and involve New Member States with „Less Advanced Programmes“ (MLAPs) in the process of Joint Programming (JP) and its preparation within the JOPRAD project.
- Mid term-workshop in Prague, September 7-8 2016
 - ✓ Feasibility and interest in a JP confirmed by EC and participants

Establishing the Programme

- Five Working Groups in Parallel prepared the « Programme Document »
- Methodology
 - ✓ Three approaches have been developed leading to research priorities deriving from SRAs: IGD-TP (2009), SITEX SRA (2016) and RE JOPRAD Group
 - ✓ Specific Approach for Horizontal activities (Training)
 - ✓ Specific approach for involvement of CS
- Five documents were produced during the first year of the project
 - ✓ The work on the « Programme Document » was engaged 6 months ahead of the Mid-Term Workshop
 - ✓ The « Vision for the Joint Programming » was presented at the Mid Term Workshop

Vision for Joint Programming

“A step change in European collaboration towards safe radioactive waste disposal through a credible and sustained science and technology programme fostering mutual understanding and trust”

- Plurality of actors for elaborating a work programme
- Independency is warranted (interpretation, use of results at national level)
- Passive safety as safe management of radioactive waste

Benefits/Added Value of a Joint programming (1)

- For all participants of a Joint programming
 - ✓ Build a shared vision on research priorities recognizing as well specific national issues
 - ✓ Provide an accessible knowledge base
 - ✓ Improve education and training
 - ✓ Improve communication with the public

- For Research Actors
 - ✓ Get access to credible, verifiable, up-to-date scientific understanding shared by large scientific community
 - ✓ Make better use of knowledge acquired by advanced programmes
 - ✓ Get access to experimental facilities, not available in small Member States

Benefits/Added Value of a Joint programming (2)

- For National Regulatory Authorities
 - ✓ Implement a transparent collaborative research framework that reinforces TSO's capacities whilst not compromising their independence
 - ✓ Ensuring that regulatory expectations are clearly interpreted and understood
 - ✓ Improved decision making process with a view to improving the quality of the safety case review

- For Civil Society
 - ✓ Improve the decision making process in compliance with Aarhus and Espoo convention
 - ✓ Allow CSOs to involve themselves in and participate to the decision making process
 - ✓ Improve general public information and understanding



Towards implementation

- Choice of the most suitable EC instrument
 - ✓ Feed-back from nuclear field: NUGENIA, NUGENIA+, DOREMI, MELODI, OPERRA, CONCERT, EUROFUSION

- Programme Co-fund at EU level
 - ✓ European Joint Programme (EJP)
 - ✓ European Research Area NETwork (ERA-NET)

- JOPRAD focussed on the EJP scheme with internal activities

Elements for establishing the RWMD – EJP1



Achievements

- JOPRAD Project succeeded in attracting R&D organisation from most of the EU countries
 - ✓ All the community has been involved
 - However only 3 ministries attended the Mid Term Workshop
- JOPRAD has prepared a document “programme” shared by all actors and countries that will be the roadmap for the next decade
 - ✓ R&D, horizontal activities and networking
 - See Ray Kowe’s presentation
- JOPRAD has demonstrated that the EJP legal scheme is adapted and could be used
 - ✓ Some aspects of governance to be finalized
 - See Marie Garcia’s presentation

- To all the organisations contributing and participating in the working groups
 - To all the national authorities that responded to our questionnaires
 - To ICN-RATEN, RWM and SURAO for organizing the main events of the project
 - To all the participants to the events
 - To the JOPRAD Team and ...
- ✓ To EC for its support all along the course of the project

Thank You !

The Joint Programming



TSOs

WMOs

Research Entities

JRC

European Commission

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