

EUROPEAN JOINT PROGRAMME ON RADIOACTIVE WASTE MANAGEMENT

OVERVIEW



5 years
2019-2024



59,9 M€
55 % EC
contribution



115
partners

In accordance with the Waste Directive, EURAD is supporting the Member States in developing and **implementing their national RD&D programmes** for the safe long-term management of their **full range of radioactive waste** taking into account the **various stages of advancement of national programmes**.

Co-financed by the European Commission, EURAD was launched in 2019 for 5 years and gathers 115 organisations from across 23 European countries and 3 International partners. All parties involved are guided by a willingness to share and support a central long-term vision, a common roadmap for radioactive waste management and a shared strategic research agenda.

OBJECTIVES

EURAD aims to make a step change in European collaboration between advanced and early-stage programmes as well as between waste management organisations (WMOs) driving for a timely establishment of geological disposal solutions, regulatory technical safety organisations (TSOs) supporting independent regulatory review of geological disposal safety and nationally funded research entities (REs) striving to deliver scientific excellence to support disposal programme implementation.

EURAD focuses on scientific and technological R&D, closely aligned to implementation needs, safety considerations and an ambitious knowledge management programme.

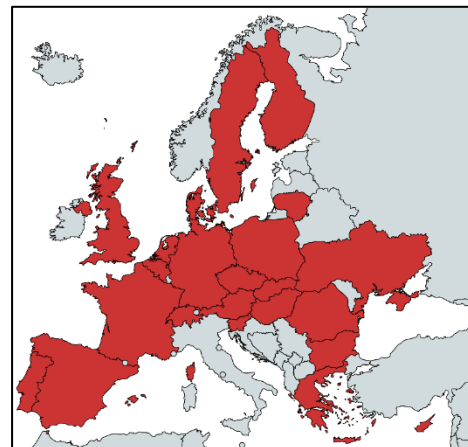


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CONSORTIUM

EURAD gathers 115 organizations across 24 countries, 51 have received a mandate by their Ministries, 61 are participating as Linked Third Parties to the Mandated Actors and 3 are International partners (Canada, Australia and Japan).

It also aims to meaningfully interact with civil society representatives, waste producers/owners, international organisations such as NEA and IAEA, and non-European partners, and as such has more than 100 end users registered representing 21 countries (including USA, South Korea and Japan).



DEPLOYMENT

EURAD's vision is deployed into a set of 17 work packages. 82 % of the budget is dedicated to science and networking on the following topics:

- Radioactive waste characterization, processing and storage
 - o SFC - Spent Fuel Characterization and Evolution Until Disposal
 - o ROUTES - Waste management routes in Europe from cradle to grave
- Engineered barrier systems properties and long-term performance
 - o ACED - Assessment of Chemical Evolution of ILW and HLW Disposal cells
 - o ConCorD - Container Corrosion under disposal conditions
 - o MAGIC - Chemo-mechanical aging of cementitious materials
- Geological disposal facility design and the practicalities of implementation
 - o MODATS - Monitoring equipment and data treatment for safe repository operation and staged closure
- Geoscience to understand rock properties, radionuclide transport and long-term geological evolution
 - o FUTURE - Fundamental understanding of radionuclide retention
 - o CORI - Cement-Organic-Radionuclide Interactions
 - o GAS - Mechanistic understanding of gas transport in clay materials
 - o HITEC - Influence of temperature on clay-based material behaviour
- Performance assessment, safety case development and safety analyses
 - o DONUT - Development and improvement Of Numerical methods and Tools for modelling coupled processes
 - o UMAN - Uncertainty Management multi-Actor Network

7% of the budget is dedicated to Knowledge Management:

- State-of-Knowledge: what we know and why it is important
- Guidance: best practice and lessons learned
- Training and Mobility: transfer of experience and know-how
- Roadmap: a common framework to structure knowledge
- Networking and tools: connecting people to people and people to content

6% of the budget is dedicated to Coordination, dissemination, and Programme Management Office.

MORE INFORMATION

Coordination: Andra (France) – secretariat@ejp-eurad.eu

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