

# The EURAD Roadmap – A Roadmap for implementing radioactive waste management, leading to geological disposal

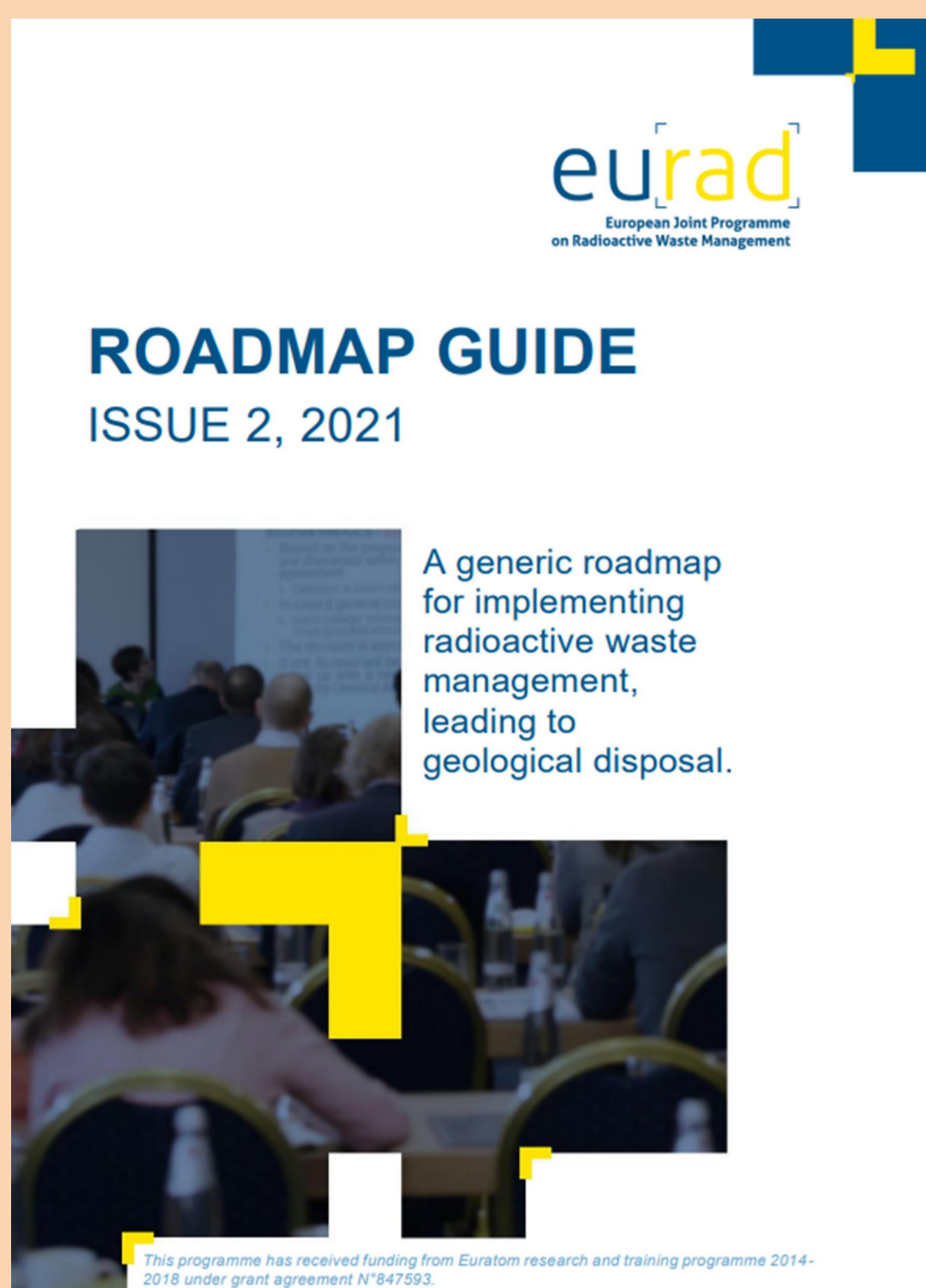


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## FRAMEWORK

A COMMON STRUCTURE TO ORGANISE OUR KNOWLEDGE



## Roadmap Goals Breakdown Structure

The European Joint Programme on Radioactive Waste Management (EURAD) has developed a roadmap for the implementation of radioactive waste management (RWM) leading to geological disposal, using the experiences of the advanced EU programmes. Because these programmes have developed over more than 40 years and have adopted different technical and strategic approaches to deep geological repository (DGR) development, the roadmap has been structured to capture largely generic best practice in its presentation of programme Phasing and Thematic goals breakdown structure:

- 5 Phases of Implementation: Initiation, Site Selection, Site Characterization, Construction, and Operations and Closure. For each phase the roadmap explains how activities and existing knowledge is used to fulfil generic safety and implementation goals common across RWM programmes.
- 7 Themes: Programme Management, Predisposal, Engineered Barrier Systems, Geoscience, Design and Optimisation, Siting and Licensing, and Safety Case. Each theme is also used to structure the EURAD Strategic Research Agenda (SRA) and is further elaborated into sub-themes and domains.

## Users of the Roadmap

The intention of the EURAD roadmap is to provide information and guidance to three primary user groups:

1. Organisations that are developing or updating their national RWM programmes with the objective of moving towards deep geological disposal of some of their wastes and requiring information on the steps involved;
2. Organisations with advanced RWM and DGR programmes that require an informative training tool for new staff and a means of propagating knowledge across the groups involved in diverse activities;
3. All organisations concerned with identifying potential future gaps in capabilities that could hinder implementation of their DGR programmes in decades to come.

## How to access the Roadmap

The EURAD website has an open access area dedicated to the Roadmap. Here you can find a guide and introduction video for the roadmap and access the 7 Theme Overview Documents. <https://www.ejp-eurad.eu/roadmap>

## SIGNPOSTING

CONNECTING PEOPLE TO PEOPLE AND PEOPLE TO KNOWLEDGE



## Theme Overview Documents

For each of the seven roadmap themes, a **Theme Overview** is available. This describes broadly the typical RWM activities and capability that is required to successfully achieve each of the roadmap goals, including how activities and programme capability evolves through different implementation phases in RWM.

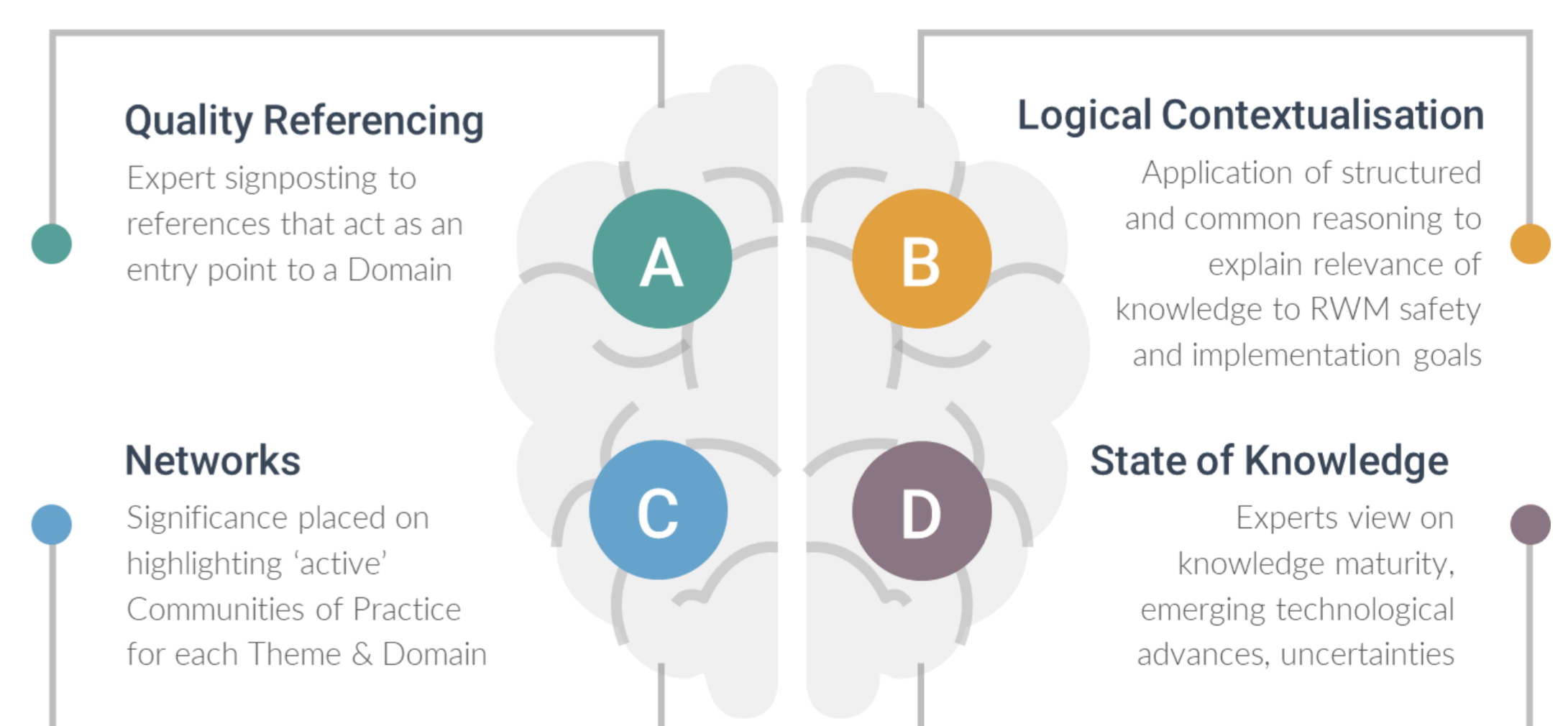


## Orienting RD&D and KM Priorities

The Roadmap allows one to identify gaps in knowledge and competencies needed individually by each of the Member States to take action accordingly. This gap analysis will also support the future orientation of joint activities and is used as an input by the three Colleges of EURAD to update the EURAD Strategic Research and Knowledge Management Agenda in 2022.

## Domain Insight Documents

The roadmap is currently being populated by short context documents called **Domain Insights**. Each will link existing and available knowledge (e.g., licence application documents, synthesis and state-of-the-art reports) to generic safety and implementation goals and provide a broad but not detailed overview of each domain. They will be living documents to capture new insights, documenting knowledge maturity, areas of uncertainty, and signposting to available guidance, training, or more detailed knowledge via networks or documents, including historic EC project reports.



We plan to populate the Roadmap and make it useable by the end of EURAD in 2024. If you are interested to support population of one of the 80+ domains or have feedback on our approach, please contact the EURAD Coordinator.

## GAP ANALYSIS

ORIENTING OUR FUTURE RESEARCH, KNOWLEDGE MANAGEMENT & NEEDED RWM CAPABILITIES



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