



SHARE Gap Analysis and SRA

Project Status and Expectations (sept 2021)

PREDIS webinar

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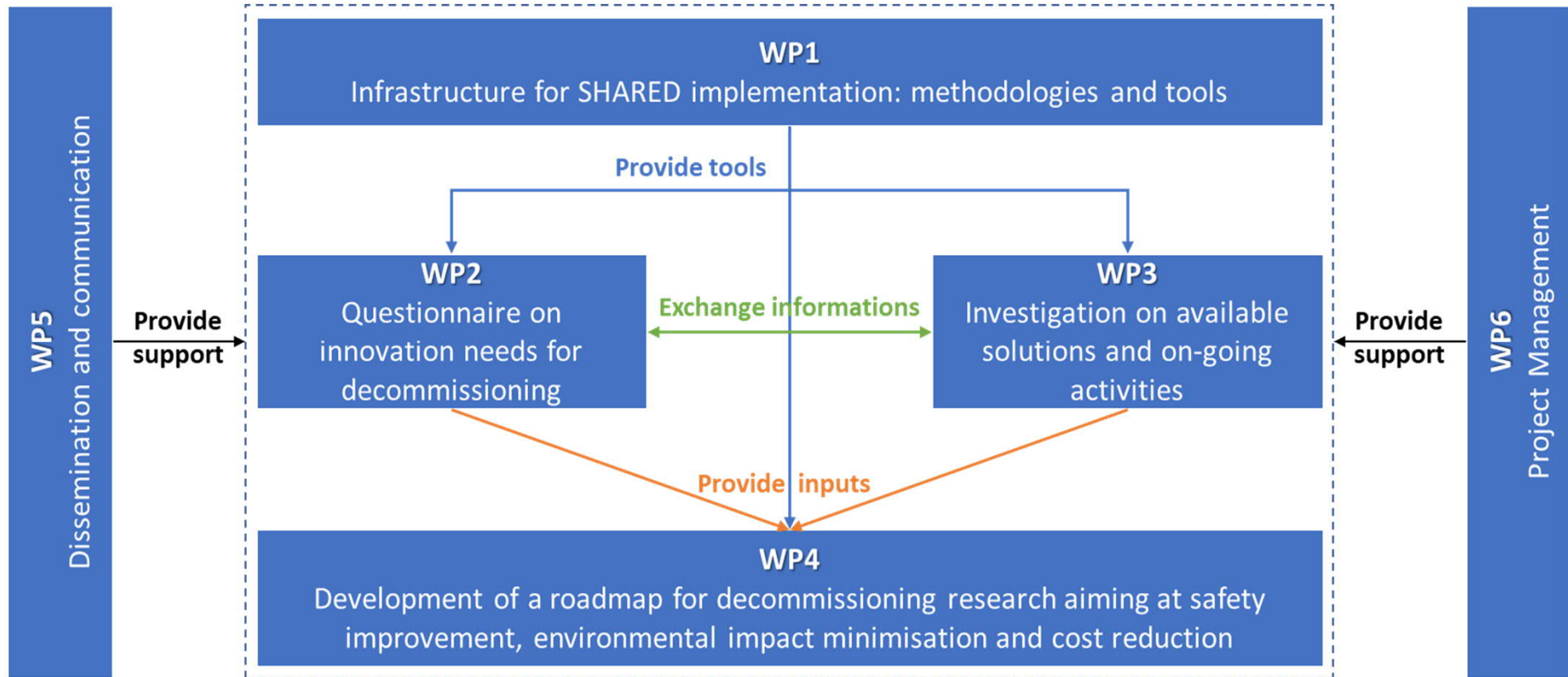
This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement n° 847626.



“Development of a roadmap for decommissioning research aiming at safety improvement, environmental impact minimization and cost reduction”

- The overall approach of the SHARE project is based on a consultation process considering the needs and points of view of different stakeholders involved in the decommissioning value chain across the world
- Stakeholders point of views, needs, issues, challenges, and opportunities were collected through survey questionnaire and (virtual) workshops to feed the gap analysis
- Performed gap analysis highlights gaps in technology/best practices and identified potential actions where further research developments and demonstration of innovative solutions could lead to cheaper, faster and safer future decommissioning options
- SRA defines and prioritizes technological and non-technological research topics. The roadmap organizes the topics identified in the SRA in such a way that those relevant for joint activities are addressed along an implementation timeline

Project Chart



Project Status

WP	Deliverables	Timing
1	Actor Inventory Methodologies for Evaluation Instruments for Implementation	2019-2020 (finalised)
2	Questionnaire Results' Analysis	2020-2021 (finalised)
3	Available Solutions Gap Analysis Methods for Collaboration	2020-2021 (finishing)
4	SRA Roadmap Instruments for Implementation	2021-2022 (on-going)
5	Dissemination	2019-2022
6	Project Management	2019-2022

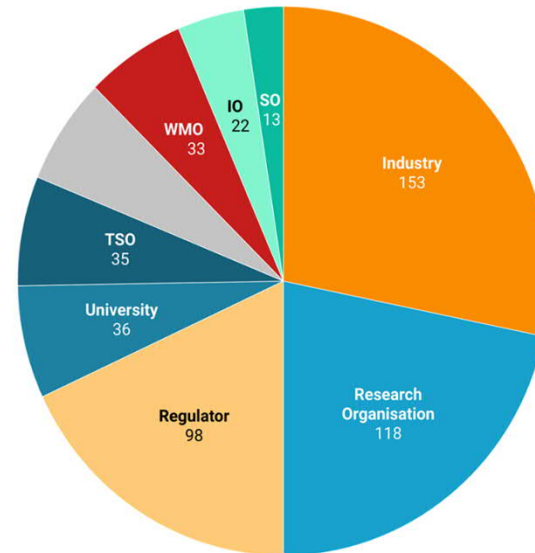
Foreseen project end date: March 2022

Community Involvement



[Target Population by Type of Stakeholder]

- Industry
- Research Organisation
- Regulator
- University
- TSO
- Consultancy
- WMO
- IO
- SO



@JRC



Community Involvement

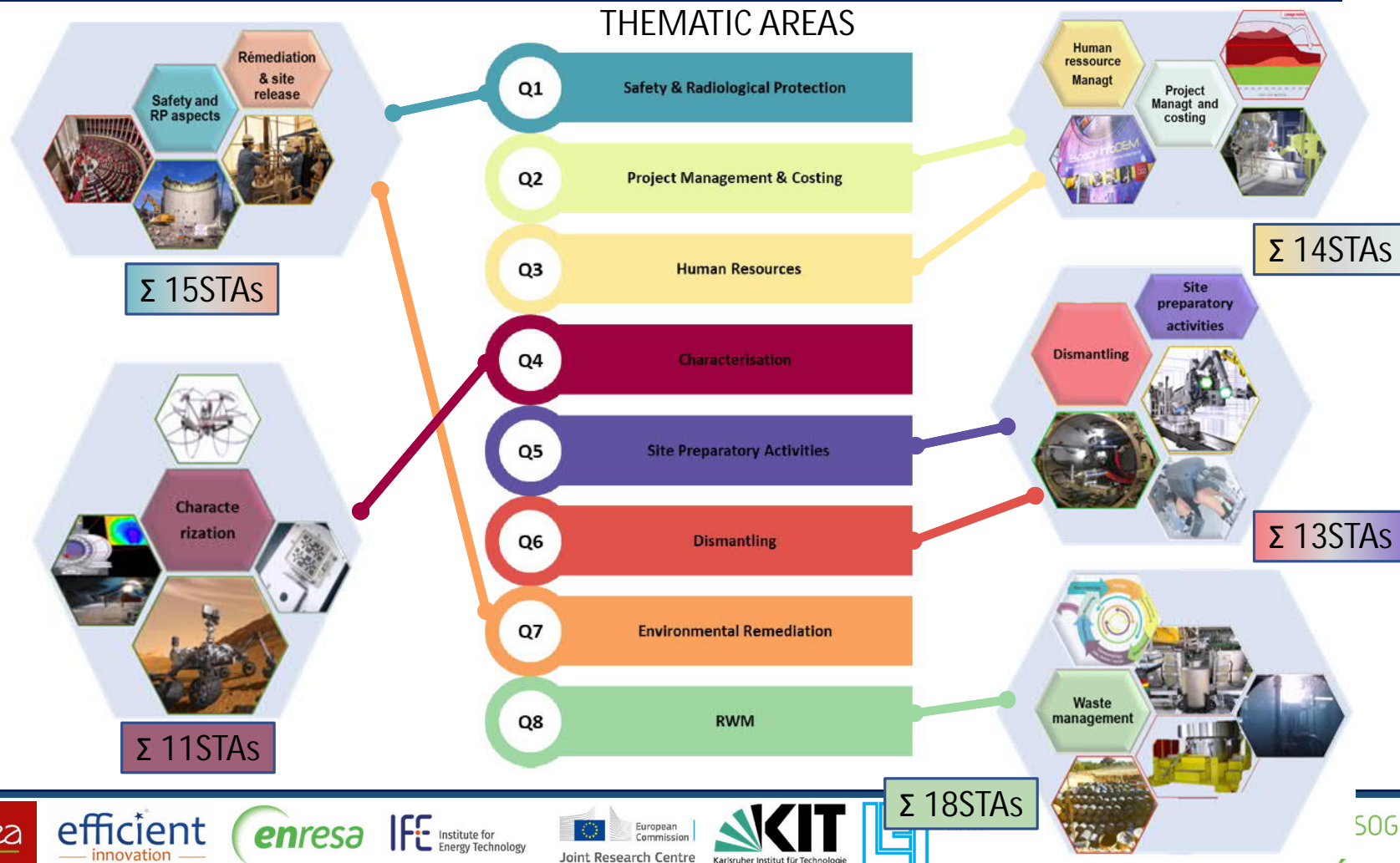


- Survey responses: 225
- Workshops
 - Identification of stakeholders' needs and challenges: +300
 - Consolidation of identified gaps and actions: +200
 - Presentation of SRA and roadmap
- Website
 - <https://share.h2020.eu>
- LinkedIn: +500
 - linkedin.share-h2020-project
 - linkedin/group SHARE Road map for Decommissioning



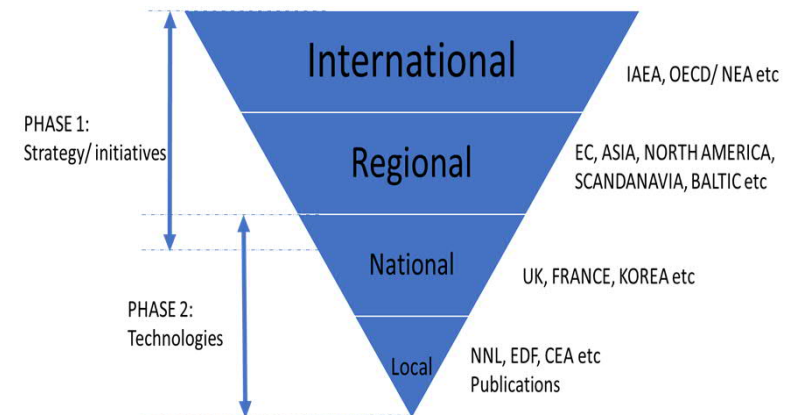
Survey

Organized set of predefined and open questions



Gap Analysis

- State-of-the-art and best practices
 - Extensive literature review
 - Workshop
- Stakeholders' needs
 - Survey
 - Workshops
- Gap Analysis
 - Identification of genuine needs and challenges
 - Proposal of actions to fill gaps
 - Regrouping of actions into action types



Gap Analysis Results

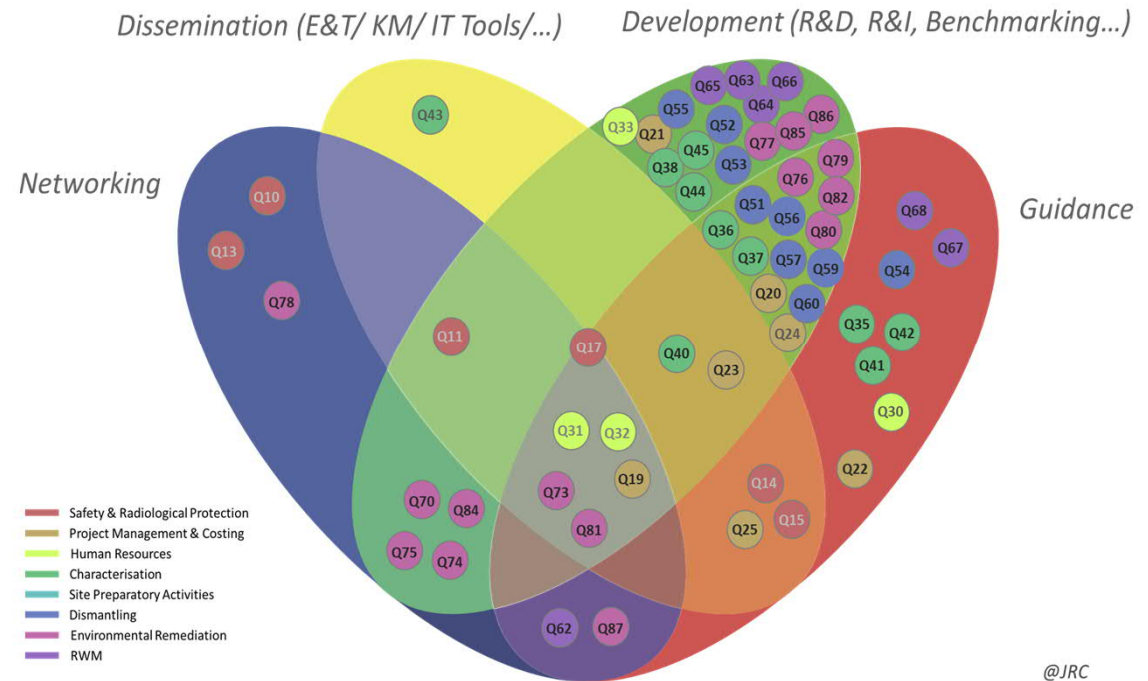
Extract

Needs or opportunities	Actions proposed	
Thematic Area Q8 'Radioactive waste management'		
Waste minimization opportunities	Actions to enhance	waste minimization and optimisation during dismantling operations
International harmonization on management of waste transportation, standardization and packaging	Actions to enhance harmonisation	of practices in packaging (transport, storage, disposal) management (metal, concrete, etc.) regarding clearance and acceptance criteria
Industrial implementation of emerging technologies for waste treatment	Actions to encourage use of new developments	to better manage waste flows from production to disposal (IT tools and other emerging technologies)
Simplify the handling of secondary waste from processing	Developments	to simplify the handling of secondary waste from decontamination, fusion or other processing for metallic waste
Management of small volumes of diverse wastes	State of the art and Guidance	on use of mobile devices for treatment of liquid effluents
Optimise packaging solution (from decom, transportation, storage to disposal)	Guidance and enhance harmonisation of practices	through coordination between waste producers and WMO's to provide on best strategy for packaging
Solutions for reconditioning of historical waste already conditioned	Benchmarking, Development and Guidance	on legacy/ historical waste management
Enhance recycling of released materials	Actions to enhance	recycling of metal (in and out of nuclear sector)
Public acceptance on recycled or clean waste from radioactive sites	Actions related to societal issues/dialogues	for acceptance of reuse of material

Gap Analysis Results

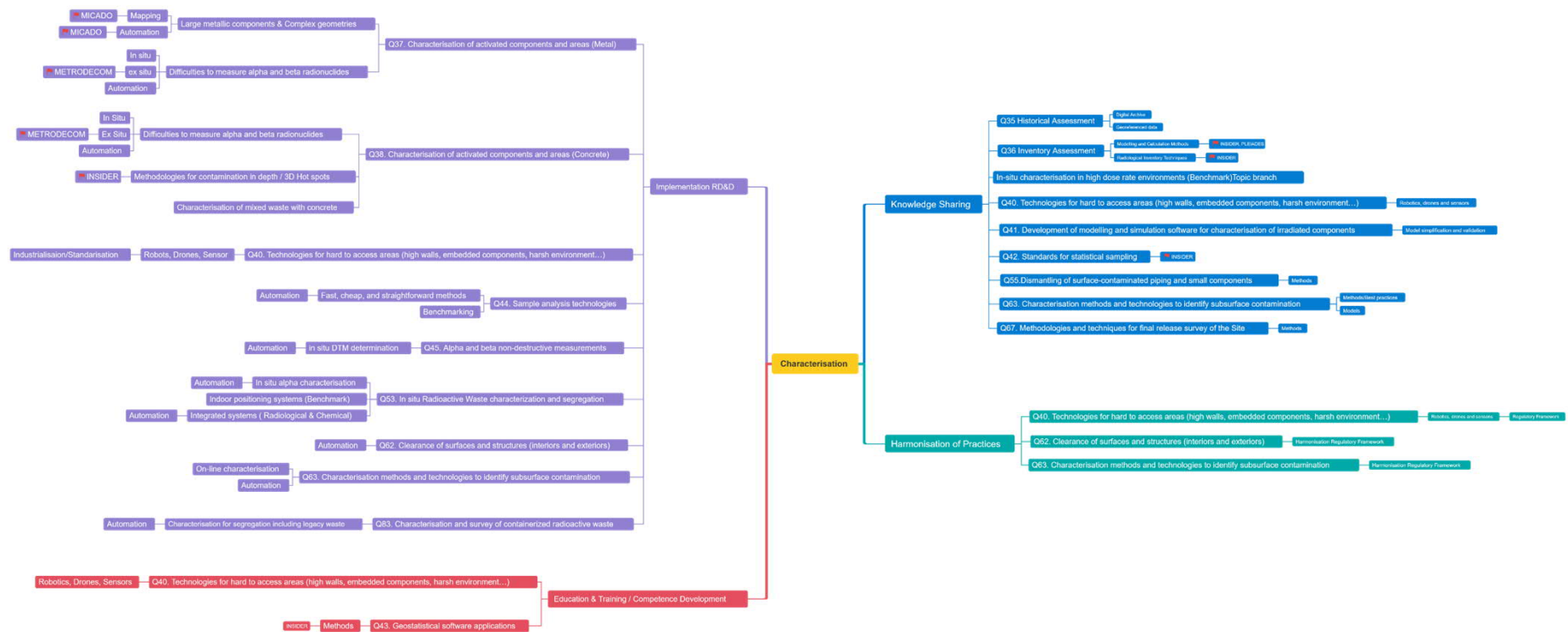
Evaluation

- Definition of action types
 - Technological
 - Non-Technological (terminology still being finetuned)
- Use as input for SRA
 - List of Key Topics (based on 8 thematic areas)
 - Use of (final) action types as subchapters within each Key Topic



Overall distribution of the 71 sub-thematic areas in 4 main types of actions (draft)

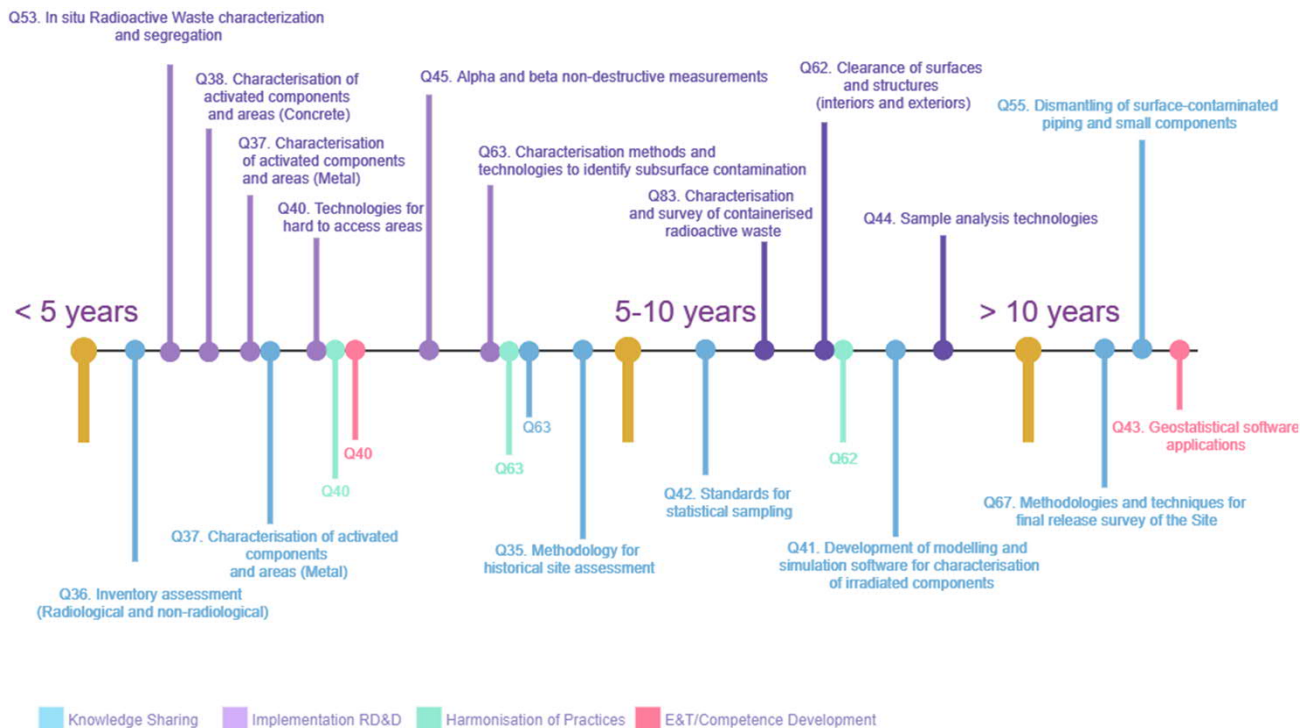
- Use of Mindmaps for organisation of gap analysis results



- Existing SRAs review
- Definition of SRA structure and lay-out:
 - Organisation of prioritised needs and associated actions
 - Main Level: based on Thematic Areas
 - Sub Level: based on Action Types
 - Description of on-going activities dealing with specific needs and challenges
- Compiling and writing of SRA chapters
- Review and harmonization

Roadmap

- Roadmap: SRA organized along timeline (next 10-15y)



Input exercise for roadmap based on thematic area characterization

Roundup



- SHARE = Stakeholders based analysis of research for decommissioning
- Survey & Gap Analysis
 - Public Reports
 - Presentations@DEM2021
- SRA & Roadmap
 - Ongoing
 - Looking for ways/instruments for implementation

