

International cooperation on predisposal waste management – PREDIS project

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The “PREDIS: Predisposal Management of Radioactive Waste” project addresses innovation and break-through technologies for better handling of low-level and intermediate-level radioactive wastes

Overview

The PREDIS R&D project focuses on treatment and improved handling of waste, and digital solutions for improved safety and efficiency for:

- metallic materials
- liquid organic waste
- solid organic waste and
- cemented-waste packages.

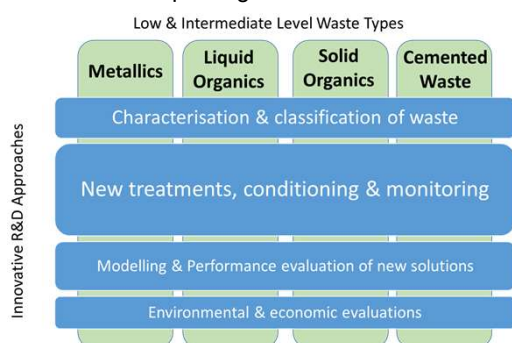


Figure 1. Project scope, addressing waste streams and approach (by WP1).

- 4-year Euratom project started in September 2020
- Budget is 23.7 M€, of which 14 M€ by the EC
- 47 consortium partners from 17 countries
- Additional 25 industrial partners engaged via the End User Group (EUG) to advise on needs and challenges



Figure 2. Mapped individual stakeholders and end users (by PREDIS WP2).

Knowledge Management (KM)

Sharing and easing access to information are important activities, closely linked with Knowledge Management of the EURAD programme. KM and dissemination achievements include:

- establishing predisposal Roadmap guidance documentation
- preparing of training program and implementing the mobility program
- interactive webinars with over 1000 participants in 2021.

Gap analysis of predisposal activities

A gap analysis was performed to identify predisposal technology gaps, their urgency and importance and the current technology readiness of potential solutions. The existing Strategic Research Agendas (SRAs) were reviewed, and discussions and surveys took place to assess scientific impacts and the technology gaps.



Figure 3. Waste type priority results from industry survey (WP2).

Strategic Research Agenda development

Development of the SRA is a crucial strategic activity. The Baseline SRA was published in August 2021:

- focuses on the consolidation of the existing European and worldwide SRAs
- describes the scientific and technical domains and needs of common interest in predisposal.

It was recognised that in addition to technical considerations, differing political, legislative and socio-economic arrangements need to be considered in the development of strategic research programme. The final predisposal SRA will be published in spring 2024.

Conclusions

- PREDIS project develops technological innovations for predisposal management with focus on metallic, organic and cemented waste, and digital solutions.
- Project has strong EU and international cooperation to accelerate useful technology development and avoid work duplication.
- The diverse End User Group ensures high impact of the project results.
- Please check <https://predis-h2020.eu/> for more information.