

PRESENTATION OF ROUTES WP

Waste Management routes in Europe from cradle to grave

February 4th 2021 • SNETP Forum

- Elisa Leoni (IRSN, FR)



The project leading to this application has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement n° 847593.

ROUTES KEY FIGURES

2019

2024



ROUTES is one of the 13 WPs of the
JOINT PROJECT EURAD

<https://www.ejp-eurad.eu/>

ROUTES is a strategic study

35 Organisations
(WMO, TSO, RE)

21 Countries

Total budget: 1.7 M€
EC contribution: 1.2 M€

04/02/2021





ROUTES GENERAL OBJECTIVES

- ROUTES GOALS

- sharing experience and knowledge on **waste management routes** between interested organisations
- from different countries, with programmes at different stages of development, with different amounts and types of radioactive waste to manage
- **Identifying safety-relevant issues and their R&D needs** associated with the **waste management** routes (cradle to grave), including the management routes of legacy and historical waste, considering **interdependencies** between routes.
- comparing the different approaches to characterisation, treatment and conditioning and to long-term waste management routes, and **identify opportunities for collaboration**

ROUTES: TASKS BREAKDOWN AND METHODOLOGY

WHAT



HOW

Participants Inputs

Lessons Learnt
« What is working and what is not... »
Case Studies

Past and on-going EC Funded Projects in RWM



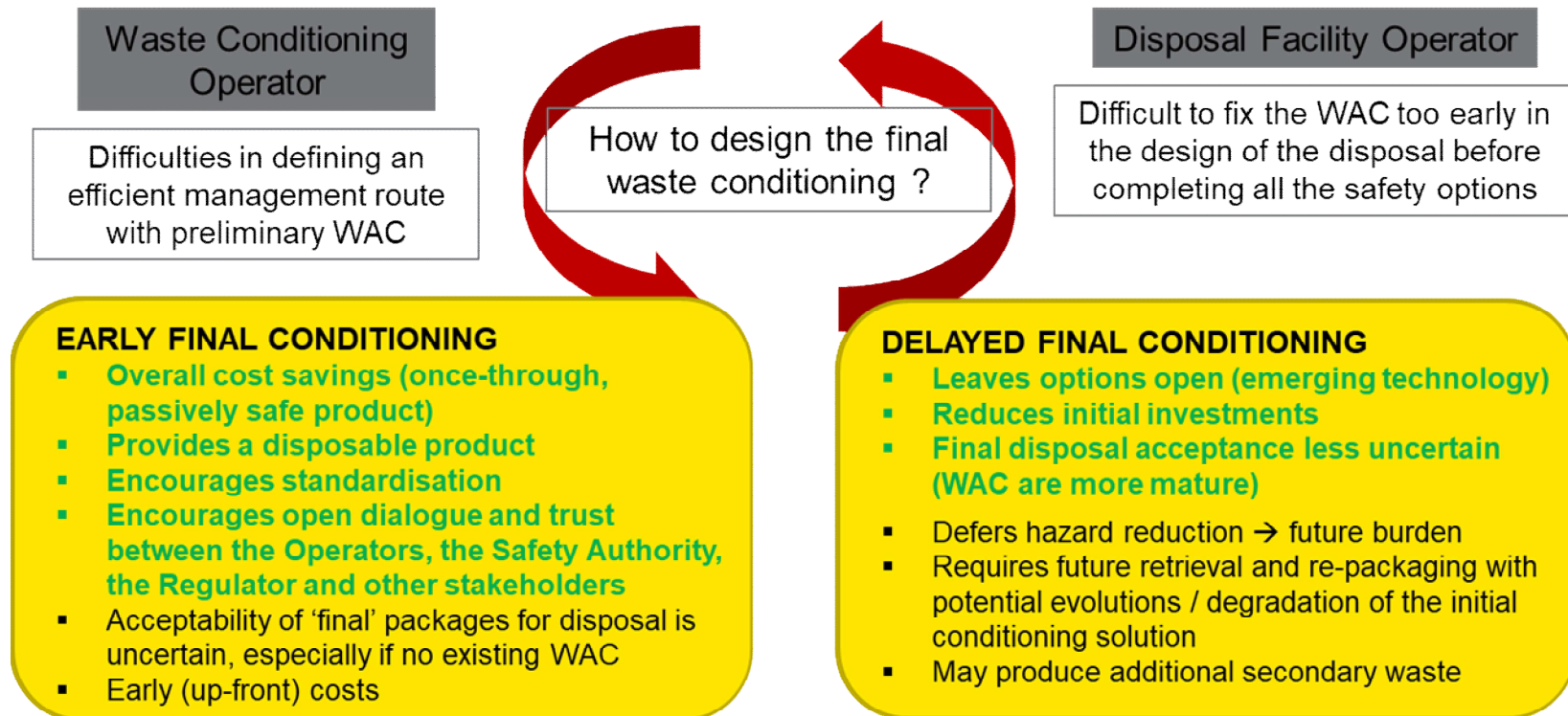
EC, IAEA and NEA Reports and Activities



EXAMPLES OF TOPICS ADRESSED IN ROUTES

- Inventory of **challenging waste**
- Sharing experience on waste management with/without **WAC** available
 - Challenging waste considered as challenging since no WAC exist
 - How challenging waste streams are managed in MS in the absence of WAC or very preliminary WAC ?

CASE STUDIES CENTRAL THEME = THE DILEMMA OF (FINAL) CONDITIONING



When to implement (final) conditioning in the absence of an established disposal route ?



EXAMPLES OF TOPICS ADRESSED IN ROUTES

- Inventory of **challenging waste**
- Sharing experience on waste management with/without **WAC** available
 - Challenging waste considered as challenging since no WAC exist
 - How are challenging waste streams managed in MS in the absence of WAC or very preliminary WAC ?
- How may waste management solutions available in Large inventory MS be tailored for **Small Inventory** ones?
- Which are the mechanisms and R&D needs for **sharing** solutions? Would mobile facilities help SIMS?
- Which are the Institutional mechanisms in place **to ensure public participation** and stakeholder representation in the nuclear waste management process ?



THANK YOU FOR YOUR ATTENTION !

elisa.leoni@irsn.fr

eu[[]rad[]]