



EURADWASTE '19

9th European Commission Conference on EURATOM Research and Training in Radioactive Waste Management

4-7 June 2019
Pitesti, Romania

Euratom Research & Training Programme in Radioactive Waste Management

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Overview status and Vision

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The basis

Article 4.1 of the Euratom Treaty

The EC is in charge of promoting and facilitating nuclear research activities in the MSs and to complement them through of a Community Research & Training programme

Article 6d of the Euratom Treaty

To encourage the implementation of the (national) research programmes the EC can:

- *bring financial support to research contracts,*
- *stimulate joint funding (from MSs, people, enterprises)*

Horizon 2020 Framework Programme

Rationale

Strengthen the research and innovation framework in the nuclear field and coordinate Member States' research efforts⁽¹⁾, to avoid duplication, retain critical mass and ensure that public funding is used in an optimal way

Objective for radioactive waste

Contribute to developing, safe, longer-term solutions for the management of ultimate nuclear waste:

- *Joint and/or coordinated research activities on remaining key aspects of geological disposal of spent fuel and long-lived radioactive waste and promote a common Union view on the main issues related to waste management from discharge of fuel to disposal,*
- *Other waste streams for which industrially mature processes do not exist*

1. The coordination will, however, not prevent Member States from having programmes to fulfil national needs.

R&D on Management and Disposal of Radioactive Waste and Decommissioning

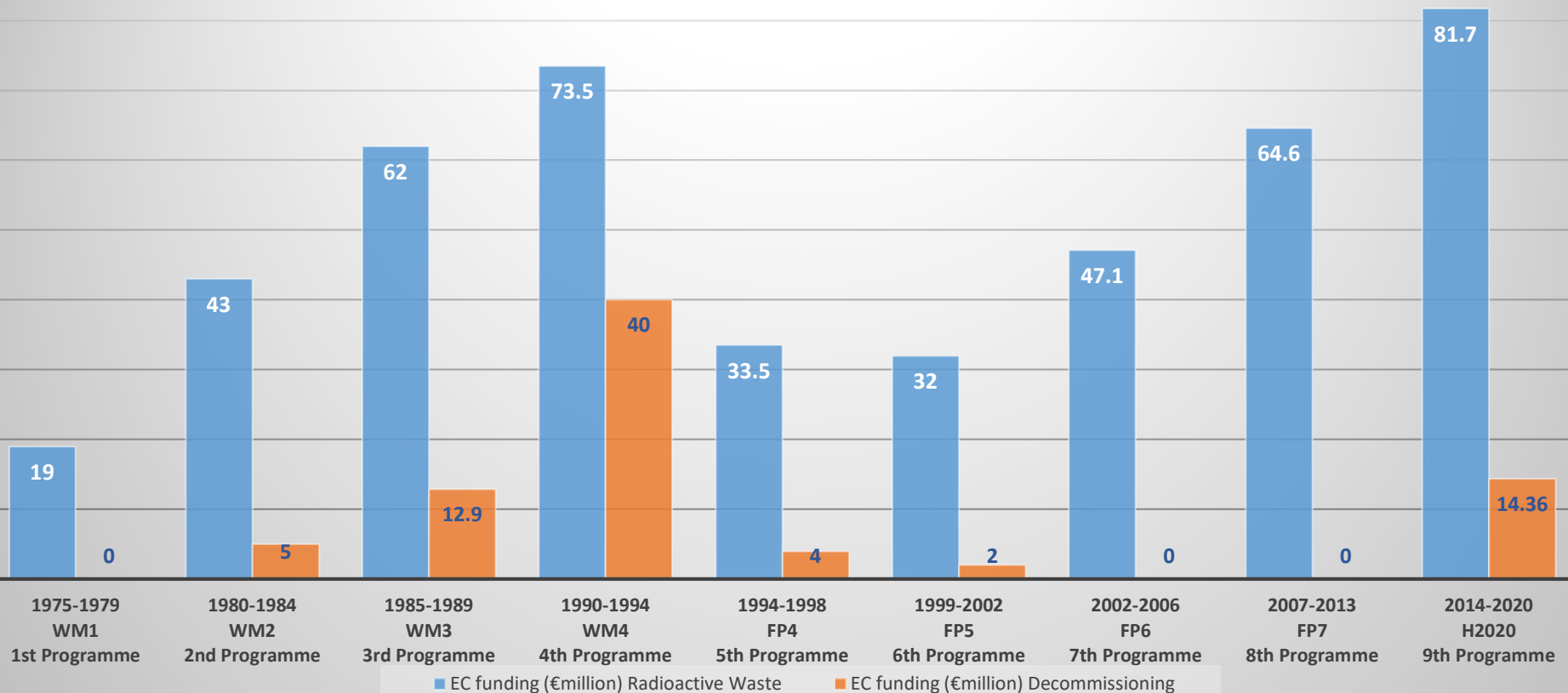
Low and Intermediate Level Waste

**Characterisation,
Treatment, Conditioning,
Quality control &
Disposal**

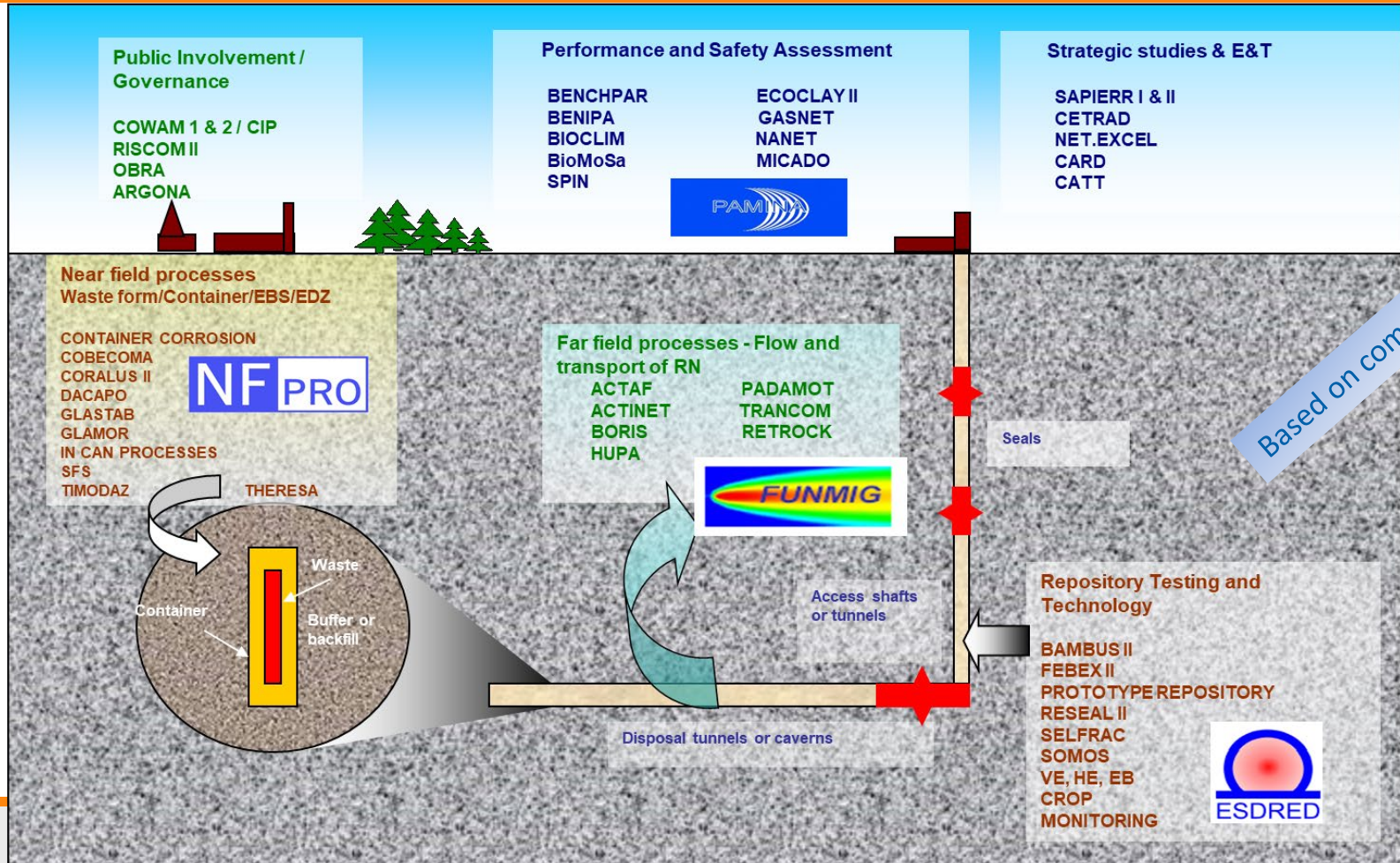
High Level and Long Lived Waste & Spent Fuel

**Treatment, P&T, Interim
storage & Disposal,**

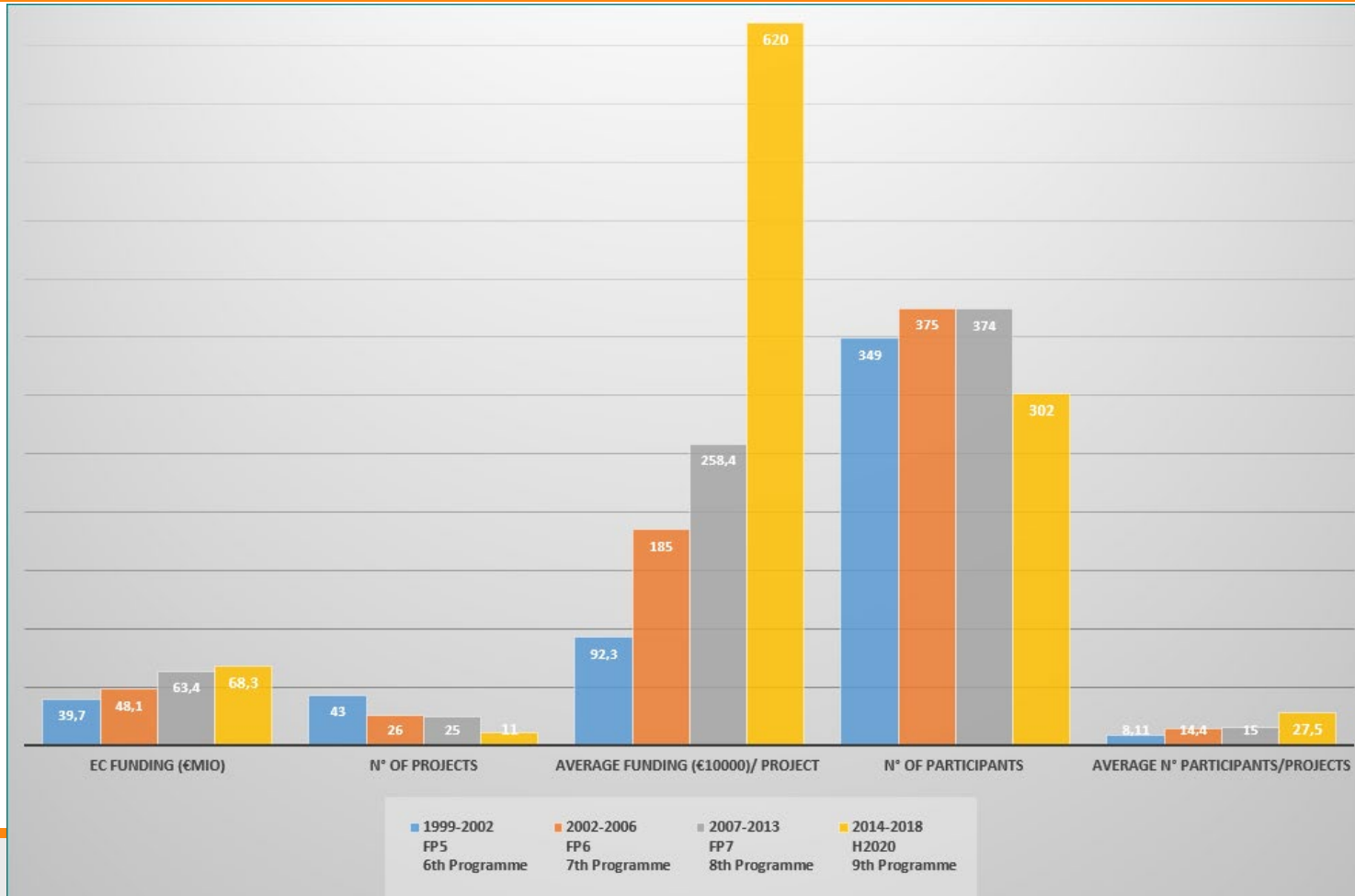
Budgets on Radioactive Waste Management and Decommissioning



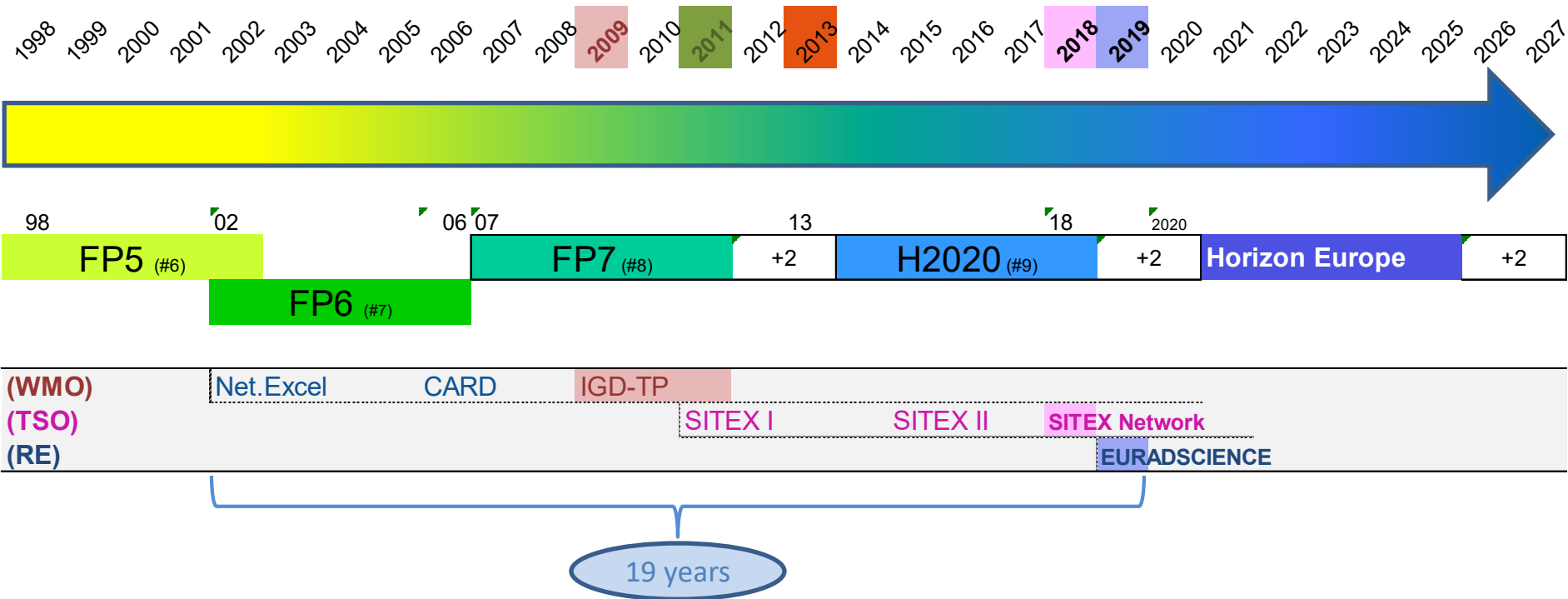
FP5-FP6 (1998-2006) activities on Geological Disposal

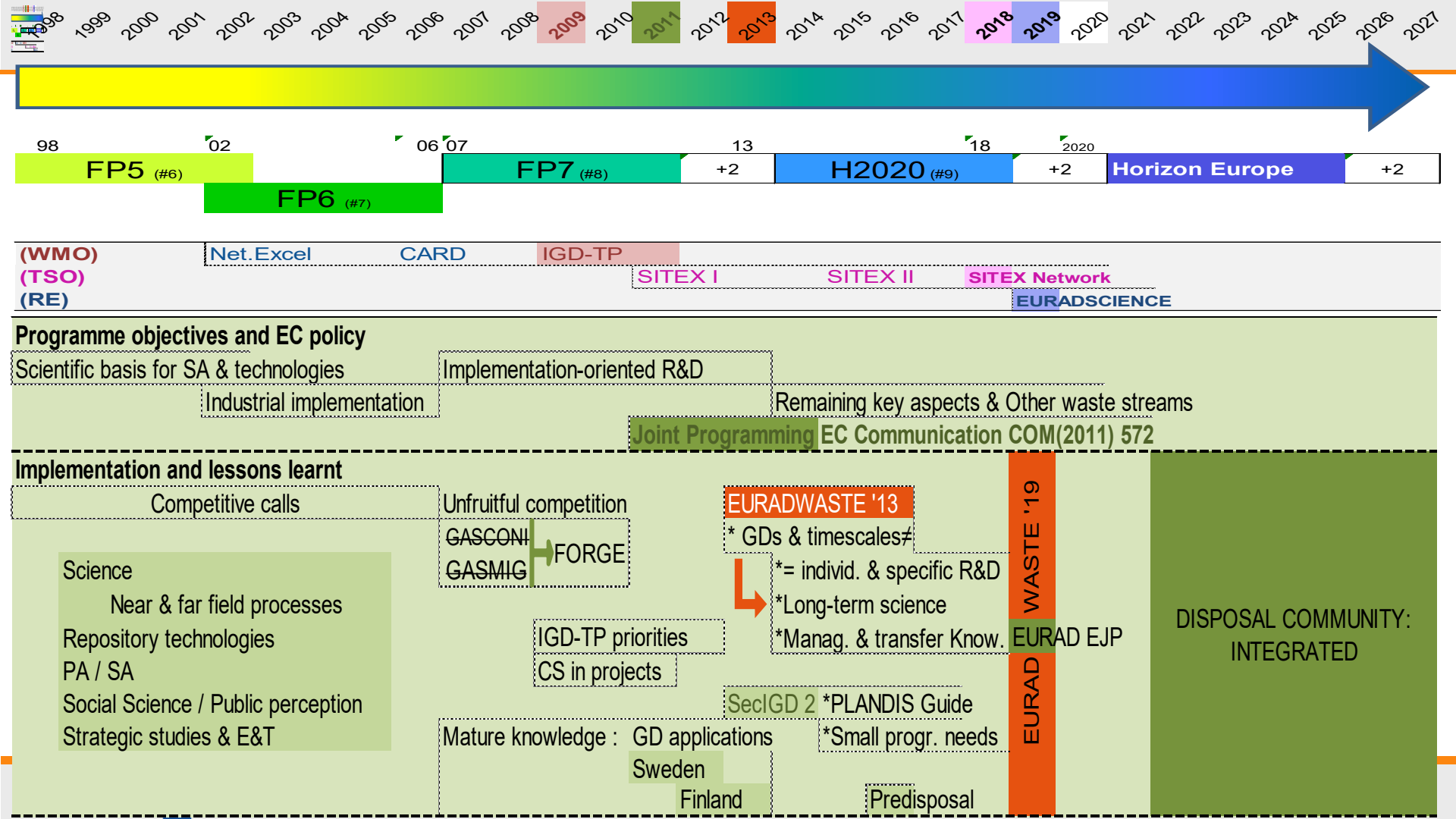


Gradual integration



Steps in integration / coordination at EU level





Strategy and questions at EU level

How to integrate waste producers with GD community

- * on open R&D (shared ownership)
- * competitive R&D compatible ?

Ensure long-term KM plan (SoA, R&D guide, Training)

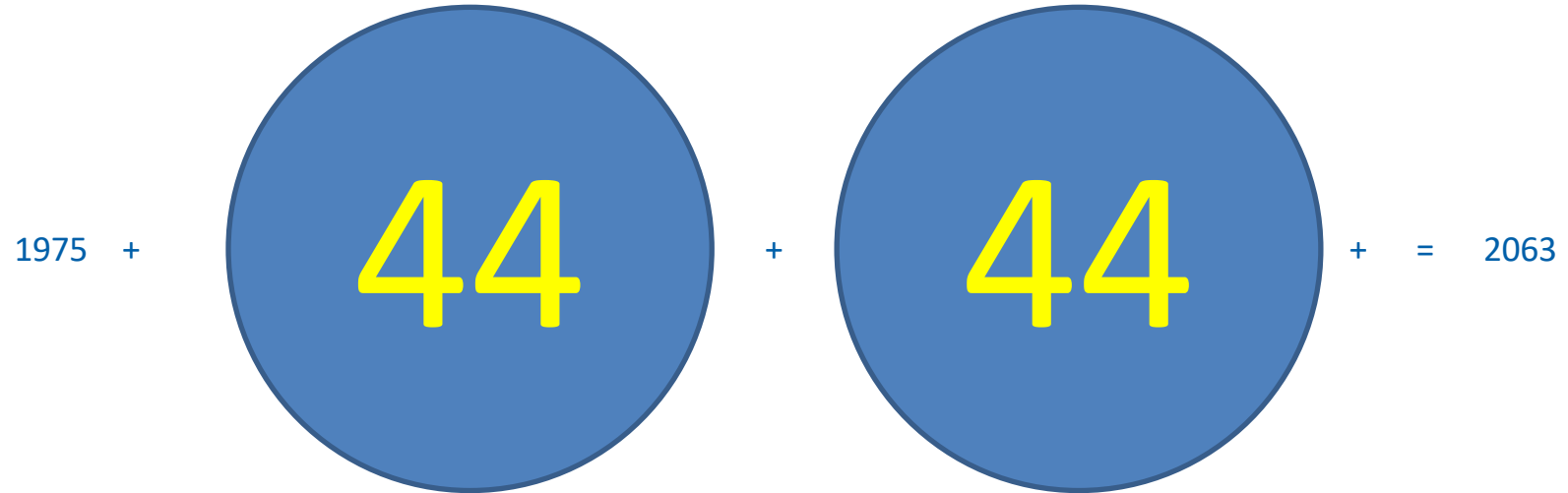
- * Organise effective synergy with IAEA on KM
- * How to involve academics not mandated actors

Which tasks for non-technical stakeholders

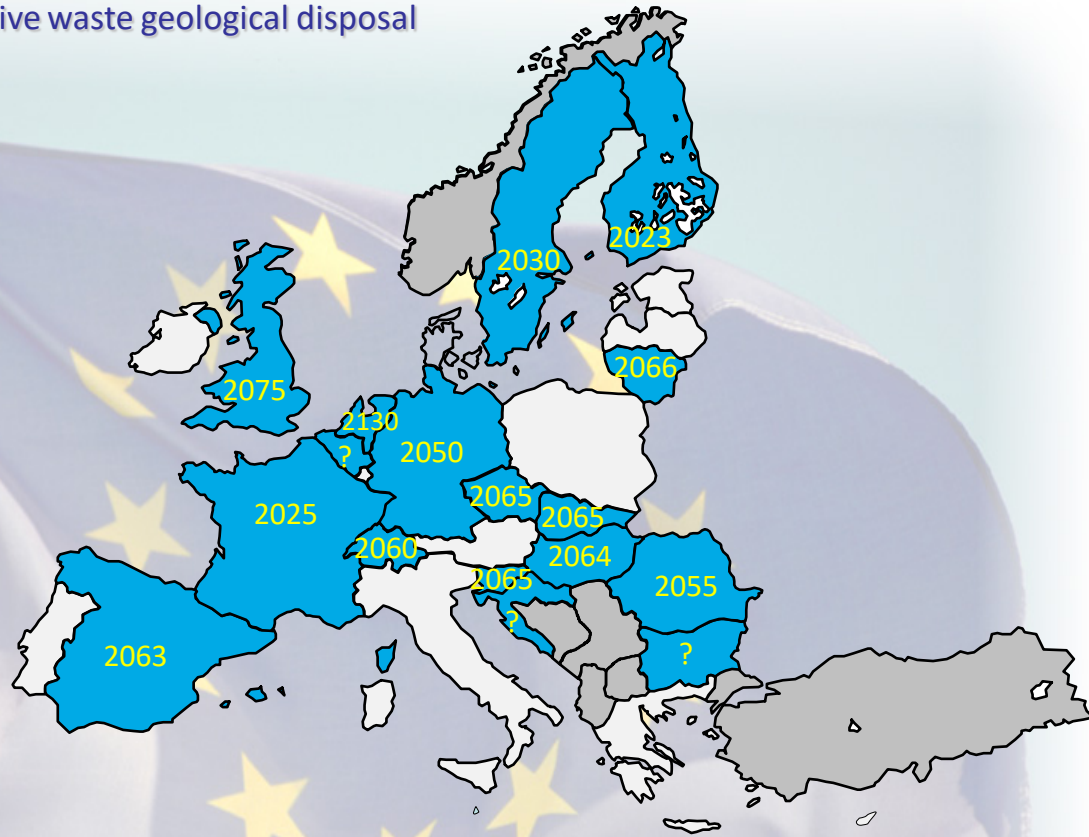
Conclusions

- “Raison d’être” of EURATOM is to help MSs develop solutions for the management of nuclear waste, jointly for possible common use,
- Together we can ensure synergies and effectiveness between all actors,
- Coordinated (non-competitive) R&D on open science for disposal in EJP seems more effective,
- Also cutting edge science, knowledge transfer between MSs and provisions of next generations of scientists (involving Academics “not mandated”) should be the best way for EURATOM R&T sustainability,
- Contribution of non-technical stakeholders in R&D & EJP need to be defined

EURATOM Programme



Dates for radioactive waste geological disposal





Thank you for your attention

