



# SNETP Forum 2022

## Technical Area 5:

### Waste minimisation and fuel cycle

**S. Ben Hadj Hassine**

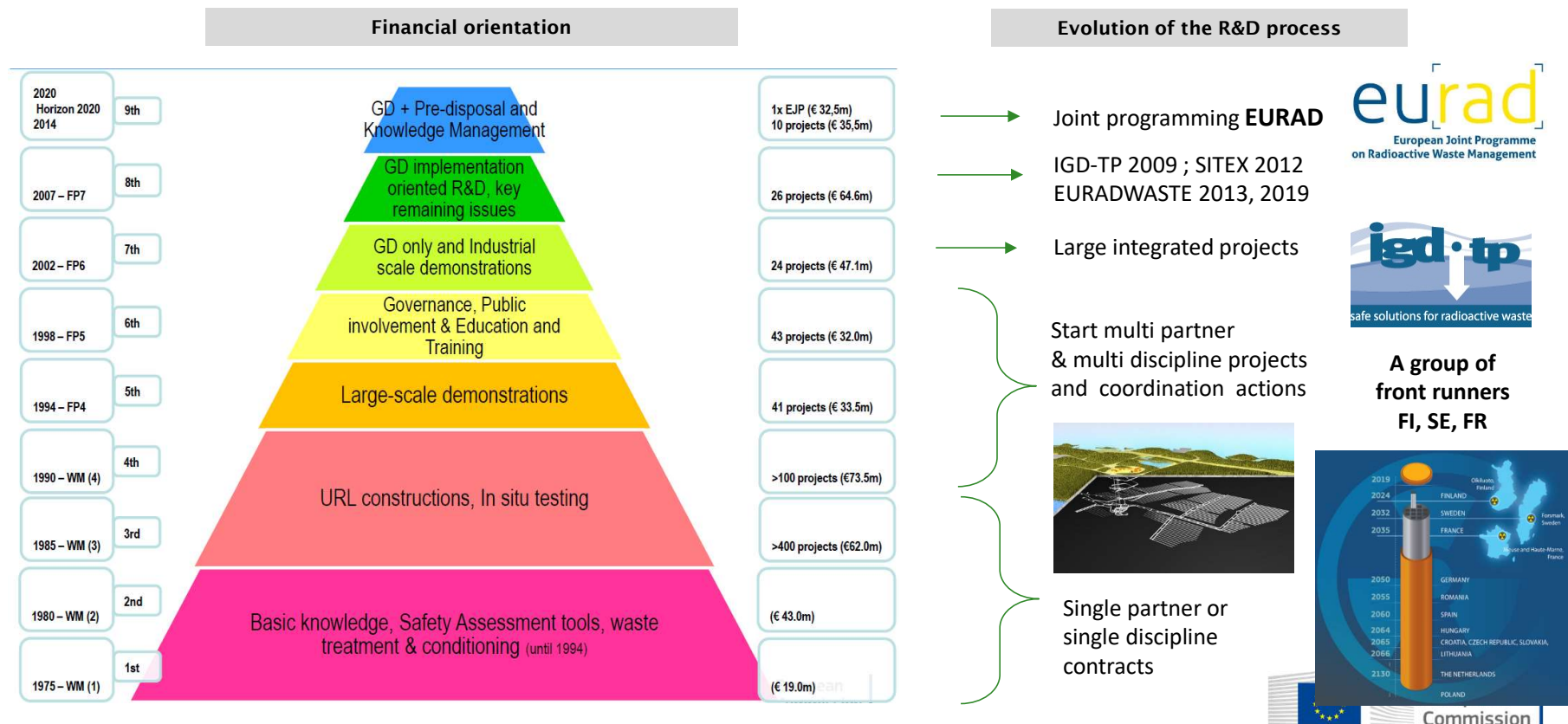
Fission Sector – Radioactive Waste Management & Decom.

European Commission – Directorate General for Research & Innovation

*2 June 2022*

# Waste Management and Geological Disposal

Strong effort of EC to support R&D on radwaste since more than 40 years and an evolution to federate all the actors, in an holistic view and including all types of radwaste



# H2020 Euratom programme on RWM

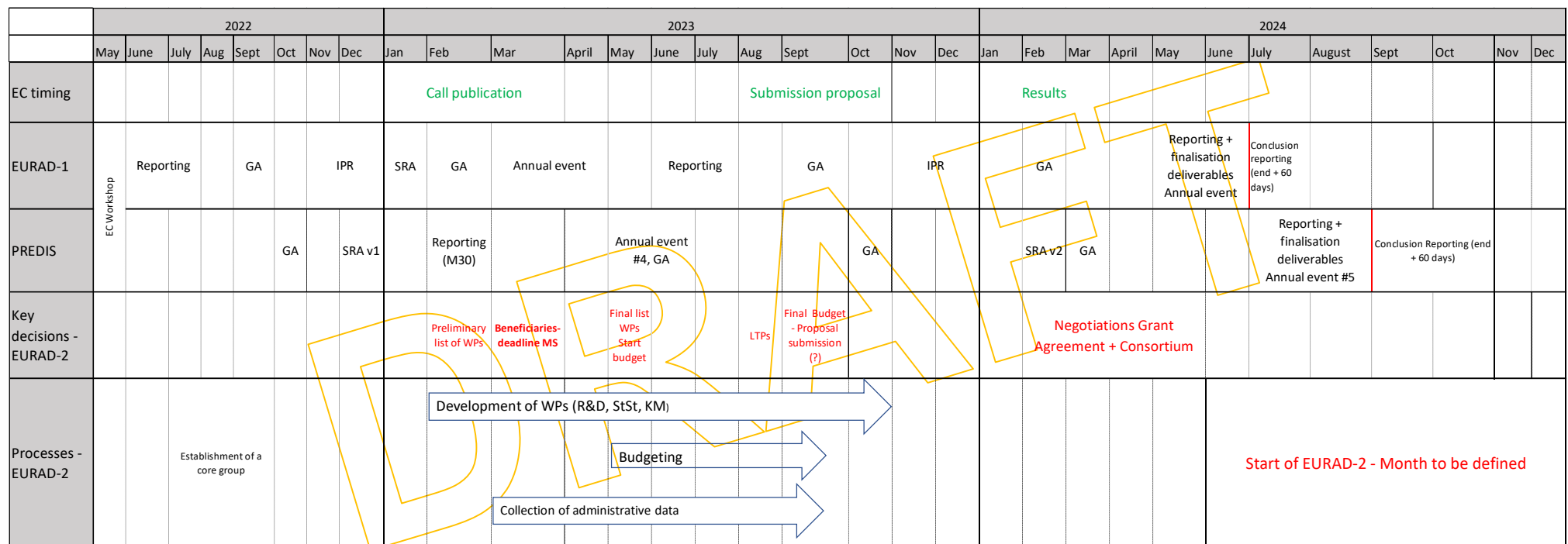
Horizon 2020 - Euratom (2014 - 2018)			Extension (2019-2020)
WP 2014 / 2015	WP 2016 / 2017	WP 2018	WP 2019 / 2020
Projects - started mid-2015	Projects - started mid-2017	Started mid-2019	Started mid-2020
<b>Geological Disposal (IGD-TP priorities)</b>	<b>GD - HLW/SF (IGD-TP priorities)</b>	<b>RWM</b>	
CEBAMA - Cement / rock & bentonite interactions	DISCO - Modern SF disso. & charact.	EURAD - European Joint Programme on Radioactive Waste Management	
Modern2020 - Repository monitoring strategy & tech.	Beacon - Bentonite Mech. Evolution		
MIND - Microbiology in repositories	<b>Predisposal - Other wastes</b>		<b>Predisposal</b>
<b>TSO support</b>	CHANCE - Charact. of conditioned waste		PREDIS - Predisposal management of radioactive waste
SITEX II - Structure TSO community for safety case reviews	THERAMIN - Thermal treatment for waste mini.		
<b>Preparatory phase for Joint Programme</b>	<b>Dismantling / Decommissioning (D&amp;D)</b>	<b>D&amp;D</b>	<b>D&amp;D</b>
JOPRAD - Prepare for European Joint Programme	INSIDER - Charact. for waste mini. in Decom. & Dism.	SHARE - R&D Roadmap	CLEAN-DEM Digital Robotics
<b>E&amp;T + Social Science &amp; Humanities</b>	<b>E&amp;T</b>	MICADO - Instrumentation for characterisation	INNO4GRAPH Graphite
ANNETTE - Euro Master & vocational E&T Prog. in Nuc. Science & Technology	MEET-CINCH - Radiochemistry teaching		LD-SAFE - Laser technologies
HoNEST - History of factors influencing successes and failures of nuc. energy developments	ENENplus - Post academic educ. & mobility scheme		PLEIADES Digital D&D planning software module platform

**Total EU budget H2020 in RMW: 99.5M€**

- Disposal (HLW/SF): 56.59 M€
- Predisposal: 21.88 M€
- Dismantling/decommissioning: 21.03M€
- E&T, Social sciences & Humanities: 10.66 M€

- The **2011/70/Euratom directive** on Radioactive Waste and Spent Fuel Management
- The main challenges/needs in R&I for RWM are related to the **decommissioning** operations, the **characterization** of the waste, the **predisposal** processes and ultimately the **disposal** of the waste
- Setting a collaborative framework between MS to promote **knowledge & best practices sharing**
- Promoting **multilateral collaborations** via other networks (e.g. IAEA, NEA)
- Involving **civil society** stakeholders in the process is crucial

# Towards a new partnership on RWM







# FISA 2022 & EURADWASTE '22

Monday 30 May 2022

Friday 3 June 2022

Hôtel de Région Auvergne-Rhône-Alpes, Lyon, France

**Co-organised by**



**Under the scope of**



**In collaboration with**



**In partnership with**



EUROPEAN NUCLEAR SOCIETY



# Thank you



© European Union 2020

Unless otherwise noted the reuse of this presentation is authorised under the [CC BY 4.0](https://creativecommons.org/licenses/by/4.0/) license. For any use or reproduction of elements that are not owned by the EU, permission may need to be sought directly from the respective right holders.

Slide xx: **element concerned**, source: **e.g. Fotolia.com**; Slide xx: **element concerned**, source: **e.g. iStock.com**

