



# Gap Analyses and Strategic Research Agendas

EC views on needs for GA & SRA

PREDIS Webinar 1<sup>st</sup> September 2021

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# The Euratom R&I framework

- **Identifying needs and networks**

- Needs R&I nuclear skills from end-users industry to be communicated
- Stakeholders structured dialogue on inter-disciplinary needs and facilities
- Ensure continuity between short- and long-term Strategic Research Agendas, roadmaps and deployment strategies

- **Framework for ETKM and lifelong learning**

- Euratom treaty, EU Directives (Safety, Waste, BSS, CNS) an International safety requirement for MS
- EU/MS Energy and Climate policies, initiatives for growth and jobs (Erasmus+, MSCA, lifelong learning, Innovation Union)

- **Enabling any alignment of agendas**

- Link between national / EU H2020 / international (NEA, IAEA) research programme aims and objectives to increase synergies and consistency through targeted coordination actions where industry driven ETPs and/or Fora are being capitalised



# The Euratom R&I framework

- **Strategic implementation including infrastructures**
  - Effective implementation and exploiting the full potential of institutes, universities, industry and other research organisations as regards their infrastructures, human resources and overall competences
  - Common qualifications, mutual recognition, ECVET European Credit system for Vocational Education Training, EU MSc and PhD programmes, lifelong learning, mobility of trainees/trainers
- **Strategic programming, monitoring, evaluation and impacts**
  - EC / MS contribution, TALIs, in-cash / in-kind support towards programmes and infrastructures, H2020 funding instruments to provide catalytic and leveraging support which should aim at optimal coordination, cross-border operation and possible integration of national research actions of pan-European interest in the field of nuclear fission, safety and radioprotection



# Gap Analyses and SRA

- Gap analyses, Strategic Research Agendas and Roadmaps are important documents that ensure that the Euratom projects and programmes are in line with Euratom regulations and objectives
- A sound **Gap Analysis** will help identifying the R&I needs of the stakeholders / end-users
  - Relevance and legitimacy of the work plan
  - An appropriate allocation of the RD&D resources
- The **Strategic Research Agenda** describes how to address the identified gaps and needs
  - Hierarchized gaps and needs (e.g. urgency, importance)
  - Clear, reachable and quantifiable objectives
- The **Roadmap** focuses on the timeline and the implementation of the SRA
- **Monitoring, internal and external reviews** of the projects and programmes are important for the assessment and the update of the SRA/Roadmaps

# Capitalising all initiatives

- Under Euratom, **EC should promote and facilitate EU Nuclear safety R&D in MS, cooperation IAEA, NEA, GIF**
- **ETIPs** Technology Platforms are industry led to promote R&D and demonstration of EU fission technologies
- **EU fora** supporting nuclear policy, promoting stakeholders dialogue and safety improvements
- **ENEF** from 2007 and WG Transparency, risks and opportunities
- **ENSREG** from 2007, stress tests peer reviews
- **SNETP** composed of **NUGENIA**, **ESNII** and **NC2I** pillars
- **SET-Plan** Key action n.10 on nuclear fission and fusion
- **IGDTP** on geological disposal, and **EJP EURAD**
- **MELODI** with **NERIS-TP**, **EURADOS** and **Alliance**
- **ENEN** European Nuclear Education Network, **EHRO-N**
- **INCO** structured dialogue on R&D policy and priorities



# Other actions

- **Nuclear Innovation Prize (OA-03)** – to encourage European researchers to pursue excellence across a broad range of nuclear sciences and technologies.
- **MSCA Postdoctoral Fellowships in research fields covered by the Euratom Programme 2021-2025 (Other Action OA-06)** – contribution to development of nuclear competences in the EU by provision of MSCA fellowships in fission and fusion research
- **FISA2022 and EURADWASTE'22 Conference (OA-08)** – presentation and discussion of progress and key achievements of the latest Euratom projects
- **Other Actions: external expertise (OA-04), ex-post and interim evaluation (OA-05), contribution to GIF (OA-07), communication actions (OA-10), support for Ukraine NCP (OA-11).**

# Conferences' Proceedings FISA 2019 / EURADWASTE '19 ... available!



## FISA 2019 Proceedings

<https://op.europa.eu/en/publication-detail/-/publication/9cfc43f8-cbc7-11ea-adf7-01aa75ed71a1/language-en/format-PDF/source-140481060>



## EURADWASTE '19 Proceedings

<https://op.europa.eu/en/publication-detail/-/publication/fe1b968b-cbc8-11ea-adf7-01aa75ed71a1/language-en/format-PDF/source-140505052>

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edp open

EPJ N Nuclear Sciences & Technologies

## EPJ N Topical issues

- TOPICAL Edition
- AWARDS Selection

<https://www.epj-n.org/>

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Romanian Presidency of the Council of the EU in 2019 Conferences <http://fisa-euradwaste2019.nuclear.ro/>

FISA 2019 Presentations

<http://fisa-euradwaste2019.nuclear.ro/fisa/>

EURADWASTE '19 Presentations

<http://fisa-euradwaste2019.nuclear.ro/euradwaste/>



# Mark your calendar - FISA2022 / EURADWASTE'22



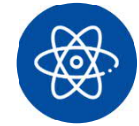
François de La Rochefoucauld's assertion that "everything happens in France" is as true now as it was 350 years ago – global culture, fashion, food and football all have a distinct French accent.

<https://www.consilium.europa.eu/en/council-eu/presidency-council-eu/>  
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Next  
2022 editions  
...(May/June, tbc)







# Nuclear Innovation Prize

- Encourage European researchers to pursue excellence across a broad range of nuclear sciences and technologies
- Two categories of the Prize:
  - Nuclear Innovation Prize in safety of reactor systems
  - Nuclear Innovation Prize in radioactive waste management

|                       |          |
|-----------------------|----------|
| 1 <sup>st</sup> Prize | 50 000 € |
| 2 <sup>nd</sup> Prize | 30 000 € |
| 3 <sup>rd</sup> Prize | 20 000 € |

- The prize will be awarded at the FISA2022 & EURADWASTE'22 conferences

# Apply to the Nuclear Innovation Prize

in two categories:

## Safety of reactor systems



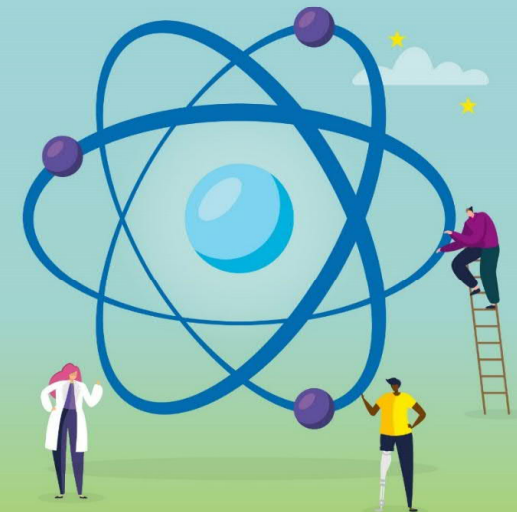
## Radioactive waste management



Application from 28 July until 20 October 2021



#NuclearInnovationPrize



# Thank you



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