

# CONTRIBUTION TO PLENARY IV: "RESEARCH AND INNOVATION SUPPORTING SAFETY, SECURITY AND SAFEGUARDS"

#### FISA-EURADWASTE 2025 & SNETP Forum, Thursday, May 15, 9:00-10:30

#### Jean-Christophe Gariel

Deputy-Director General, Autorité de Sûreté Nucléaire et de Radioprotection, France Coordinator of the European co-funded partnership PIANOFORTE on radiation protection research







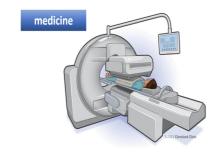
### Why PIANOFORTE is unique?

#### https://pianoforte-partnership.eu/

## Radiation protection research is multidisciplinary, cross-sectoral and leverages science to create impact

- Maintaining risk-proportionate high standards of radiation protection
- Encouraging industrial innovation
- Contributing to public health and environmental policies
- · Improving the quality of life and well-being of patients









- From 58 partners (June 2022) to 108 partners (Halfway)- After two open calls in 2023 and 2024, membership has nearly doubled.
- Total budget of €46M incl. €30M EC-granted More than 70% of the total budget for research with to date 17 ongoing research projects that represent a total budget of €25M, highlighting the effectiveness of Member States' co-funding in advancing radiation protection research
- Various mechanisms for E&T to nurture the pipeline of future radiation protection researchers and professionals – To date ca. 50 mobility grants, 15 training courses, 30 PhD and PstDoc
- Maintain and widen accessibility to research infrastructures and data repositories to give Member States equal opportunities to access high-quality research resources – internal calls with e.g. initiatives to facilitate access to various types of facilities, collaboration with OFFERR
- Maximise the impact of its research & innovation findings with inclusive stakeholder engagement spanning multiple levels (from local to international) and a wide range of stakeholders to translate research into policies & practices

  \*\*\*

  Co-funded by

the European Union

#### The foreseen impact of PIANOFORTE



Co-funded by

the European Union

#### WHY radiation protection research is essential for Europe

- Provides a science-based foundation that shapes policies, guides national regulations, and enables the safe use of ionising radiation while preserving the societal benefits of nuclear science and technology.
- Ensure rigorous health and environmental radiation risk assessment and management, safeguarding both people (individuals, public health, patients, workers) and the environment (ecosystems and natural resources), keeping pace with technological advancements and emerging threats.

#### WHAT PIANOFORTE is achieving for the benefit of EU Member States





Provision of knowledge and tools to support radiation safety of deployment of new technologies such as Small Modular Reactors
 (SMRs) – To date two projects to release science-based recommendations for Environmental Impact Assessments and Emergency
 Preparedness and Response strategies related to SMRs



Making the most of research for medical advances and innovations

Contribution to fundamental research on radiation-induced cancerogenesis and progress in personalised medicine including optimisation of the benefit-to-risk ratio in diagnostics and cancer therapies using ionising radiation – To date 12 projects are addressing cancer-related issues



Strengthening resilience under geopolitical tensions, climate-related disasters, and potential combined or unexpected threats

Supporting preparedness to face emerging threats in complex situations – To date 3 projects addressing radiation protection issues/during and after armed conflict

