



# SAFER2028 – What is New?

SUVI KARVONEN 9.6.2022

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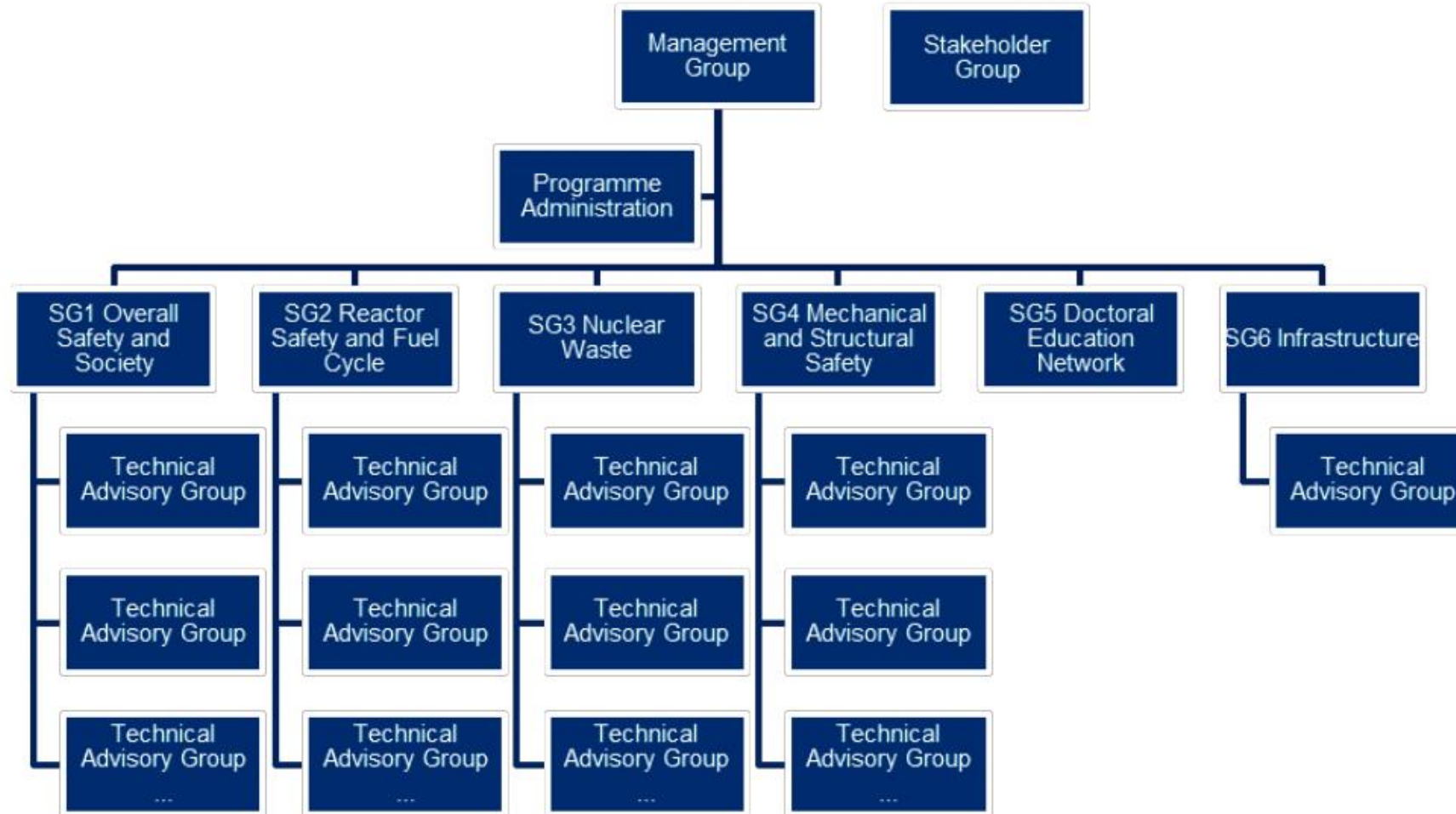
## SAFER > SAFIR + KYT

- SAFIR and KYT had "grey areas"(e.g. interim storage of fuel, waste treatment) – SAFER includes all nuclear safety related research
  - Radiological research is a separate matter still
- Synergy from SAFIR and KYT communities merging – what can we learn from each other, what can we do together?
  - Material sciences - Corrosion and aging phenomena
  - SMR concept ideas
  - ...

## Research organisations' role in the programme

- SAFIR has 3 main research organisations – VTT, LUT, Aalto
- KYT has a more diverse pool –also Helsinki, Jyväskylä, Tampere & Turku Universities, UEF, GTK, ...
- In SAFER2028, research organisations are not part of the Management Group but have their voice in
  - Projects
  - Technical Advisory Groups
  - **Stakeholder Group**

# Programme organisation



## Note on Nuclear Waste Research in SAFER2028

- Mainly in SG3 but included in all of the SG's
  - Overall Safety and Society
    - Media analyses, residents' views
    - Memory preservation
    - Overall safety, scenario methodology
  - Reactor Safety and Fuel Cycle
    - Interim storage of spent fuel, damaged fuel, encapsulation, reprocessing,...
  - Mechanical and Structural Safety of NPP's
    - Links in seismic hazard analysis, material sciences (aging, corrosion,...)
- Objective to achieve synergy, not silos!

## Doctoral Education Network - DENSE

- 4 year -projects to support a PhD student working on their doctoral thesis
- Networking activities
- More details in next presentation

## New in SAFER2028 - Programme for 2023-2028

- Older research programmes had a 4 year duration -> SAFER goes on for 6 years, or (3+3 years), with a midterm evaluation
- Standard project length to be decided – 3 years?
  - Please read the Call instructions!
  - Excellence projects still exist and can potentially exceed the 3 year limit
  - DENSE projects for 4 years
  - Shorter projects are also very welcome!
- Midterm evaluation + midterm seminar in early 2026
  - Project participation required



## Project types

- New templates and instructions
  - Research projects ("standard project")
  - Excellence projects
  - DENSE projects (new)
  - Infrastructure projects
- A project can have one or more research organisations
  - Each organisation will make their own budget but research plan is joint
  - No distinction made for "coordinated projects" (for those coming from KYT)
- Maximum 70 % funding from VYR (changing from KYT)
  - Certain exceptions apply for e.g. international membership fees

## Confidentiality in SAFER2028

- The programme is expected to have some projects containing confidential information from e.g. OECD/NEA that is shared in Technical Advisory groups
  - New to KYT2022 persons, already existing in SAFIR2022
- Participating organisations – research organisations and end users - will likely be required to sign an NDA

## International Collaboration

- Encouraged in order to **benefit from the latest international knowledge** and obtain information on the results of large international research as well as **increase the visibility of the SAFER2028 programme** internationally.
- Key organisations:
  - International Atomic Energy Agency (IAEA)
  - Nuclear Energy Agency of the Organisation for Economic Cooperation and Development (OECD/NEA)
  - European Atomic Energy Community (Euratom)
  - Sustainable Nuclear Energy Technology Platform (SNETP)
  - European Technical Safety Organisations Network (ETSON)
  - SITEX\_Network (Sustainable network for Independent Technical EXpertise on radioactive waste management)
  - IGD-TP (Implementing Geological Disposal of radioactive waste Technology Platform)
  - Nordic Nuclear Safety Research (NKS)
- Also keep in mind export control and sanctions when planning international collaboration!

# INTERNATIONAL COOPERATION IN SAFER2028: FINLAND LINKS WITH NEXT STEP TOWARDS PREPARATION OF EURAD-2

- **Future Euratom Joint Programme (EJP) as merge of EURAD and PREDIS projects anticipated**
  - New programme for autumn 2024-2029, running 5 years
  - Preparation of proposal planned for early 2023, target submission ~September 2023
  - Topics will be built from the Strategic Research Agendas (in revision during 2022) and Colleges' recommendations, focused on identified drivers for the work
  - See <https://www.ejp-eurad.eu/> and <https://predis-h2020.eu/>
- **Programme format expectations**
  - Follows similar format of EURAD, with 3 colleges (WMOs, Research Entities, Technical Support Organisations) to put forward work package suggestions and build topics/consortia/budgets
  - Follows similar co-funding principle (50% funding for R&D, higher for strategic studies and Knowledge Management issues)
- **Continue to get feedback with Member States, industry (end users), IAEA and NEA** to ensure maximum impact of the programme
- **Regular joint communications to both EURAD and PREDIS Consortia** to avoid any misunderstanding and engage with partners
- **Scheduling a "Finland Information Session" for August 2022 – reply to Doodle in June**
  - Contact points: Erika Holt (VTT – TSO mandate), Marja Siitari-Kauppi (University of Helsinki – RE mandate), Tiina Jalonen (Posiva – WMO mandate) & Linda Kumpula (TEM)



## SAFER2028 Administration Contact Information

- Website: safer2028.fi
- Email: [safer2028@vtt.fi](mailto:safer2028@vtt.fi)
  
- Programme director Suvi Karvonen
  - [suvi.karvonen@vtt.fi](mailto:suvi.karvonen@vtt.fi), 040 356 2536
- Project experts Anna Korpinen & Aku Itälä
  - [anna.korpinen@vtt.fi](mailto:anna.korpinen@vtt.fi), 040 159 1156
  - [aku.itala@vtt.fi](mailto:aku.itala@vtt.fi), 040 833 6473