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Safety assessment of Non-Electric Uses of Nuclear Energy

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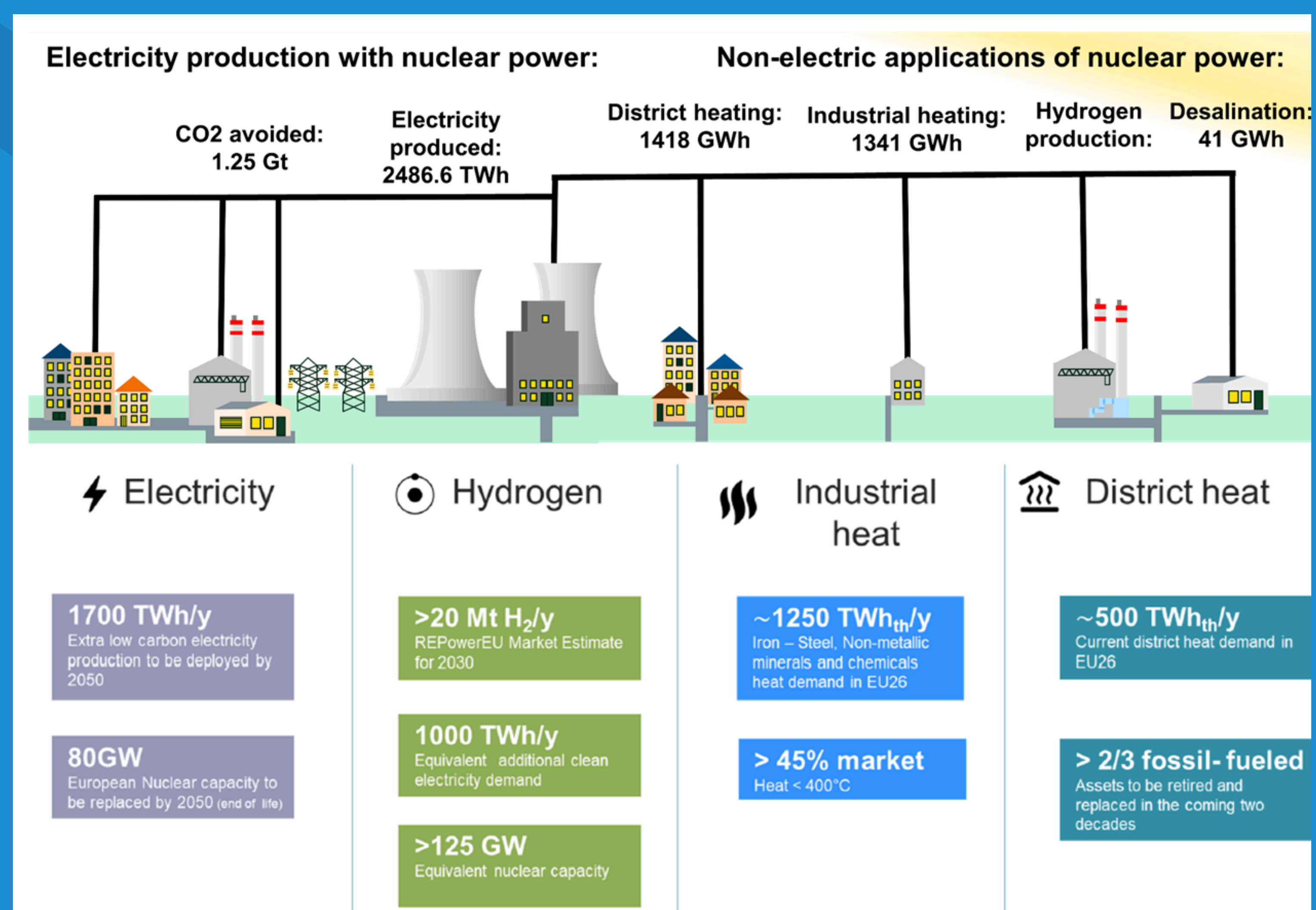


Figure from European SMR pre-partnership Reports - Workstream 1 - Market Analysis

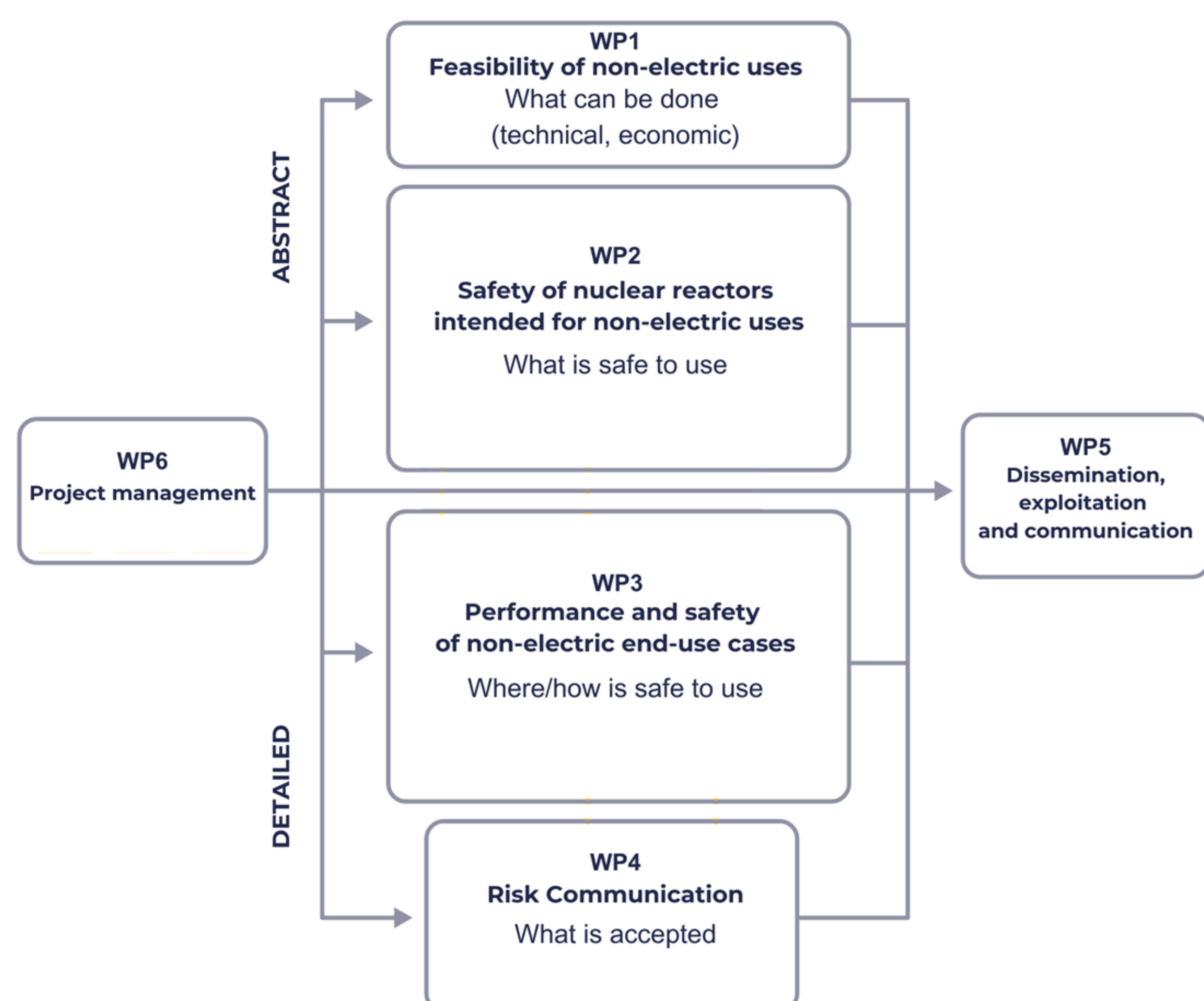
Introduction

The SANE project explores innovative, non-electric applications of nuclear energy, ensuring their safe integration into current and future reactors. As energy demands evolve, nuclear power offers scalable, localized solutions.

SANE focuses on retrofitting industrial applications to existing plants and designing reactors for new uses. Prioritizing safety, it examines technical aspects and risk communication, particularly in crisis situations like the war in Ukraine, to build trust among stakeholders.

By advancing nuclear-powered heat production and hydrogen generation, SANE supports a sustainable, diversified energy future.

Work Plan



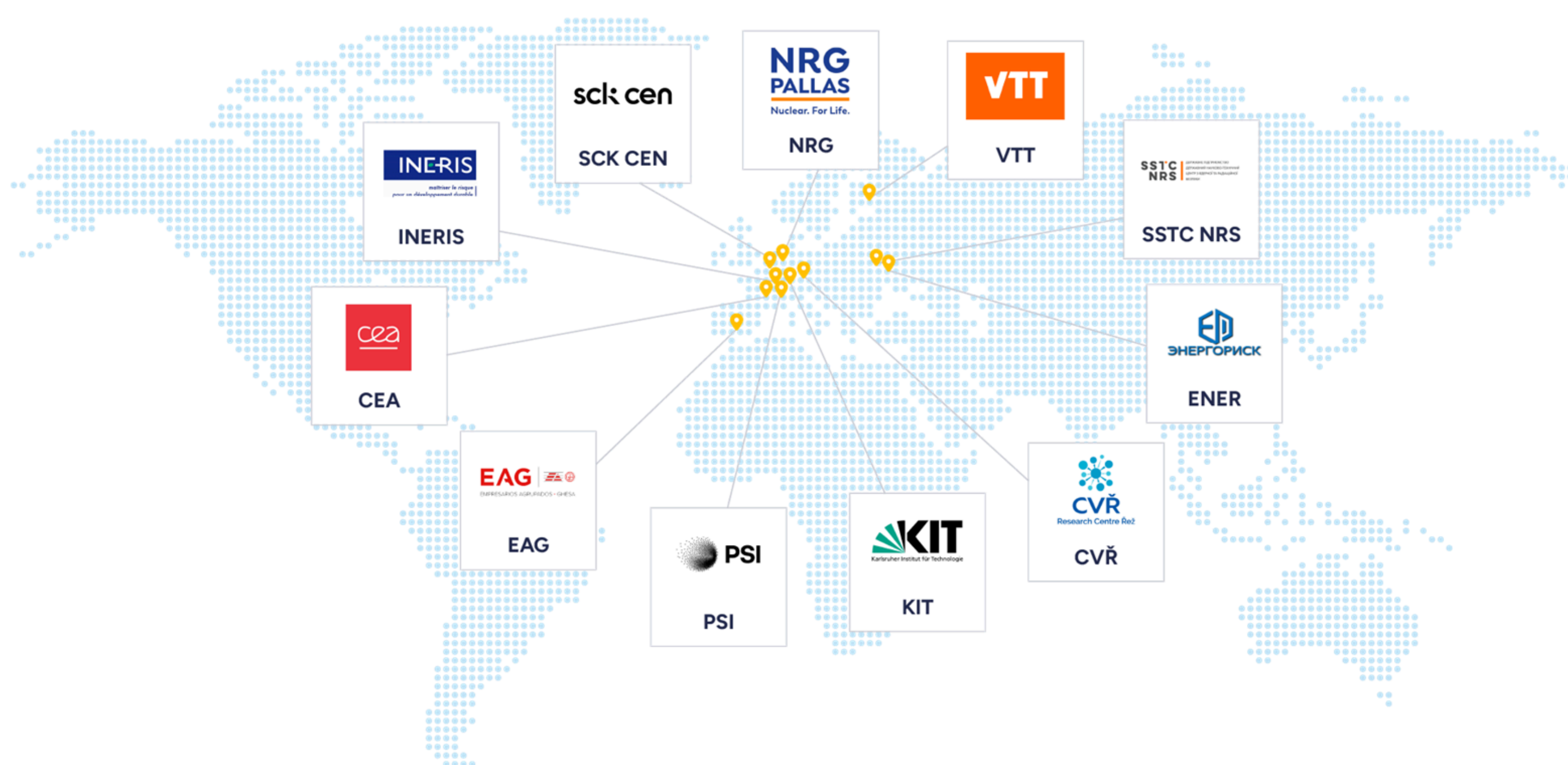
Objectives

The main objective of SANE is to investigate the potential of nuclear energy to supply services other than electricity.

Specific objectives are:

- Increasing understanding of non- electrical uses of nuclear energy.
- Improving safety assessment methodologies of nuclear reactors meant for non-electric uses.
- Producing information to support radioprotection of population.
- Assessing the performance of nuclear reactors coupled to non-electric end-uses.
- Development of risk communication strategies related to non-electric applications of nuclear energy

Project Partners



End user group

