INSIDER

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Planning for tomorrow

By 2050, more than half of today's 400 GW nuclear capacity around the world is scheduled to be shut down for decommissioning.

Smart applications and waste routes must be available to minimise the amount of radioactive waste and related potential hazard.

A wide diversity

Nuclear materials represent **a wide variety of matrices and contaminants.**

Accurate radiological and chemical characterisation of facilities and sites is required for dismantling and classification of contaminated materials. This knowledge is an important part of the decommissioning cost estimation process.

Improved Nuclear SIte characterisation for waste minimisation in Decommissioning & Dismantling operations under constrained EnviRonment

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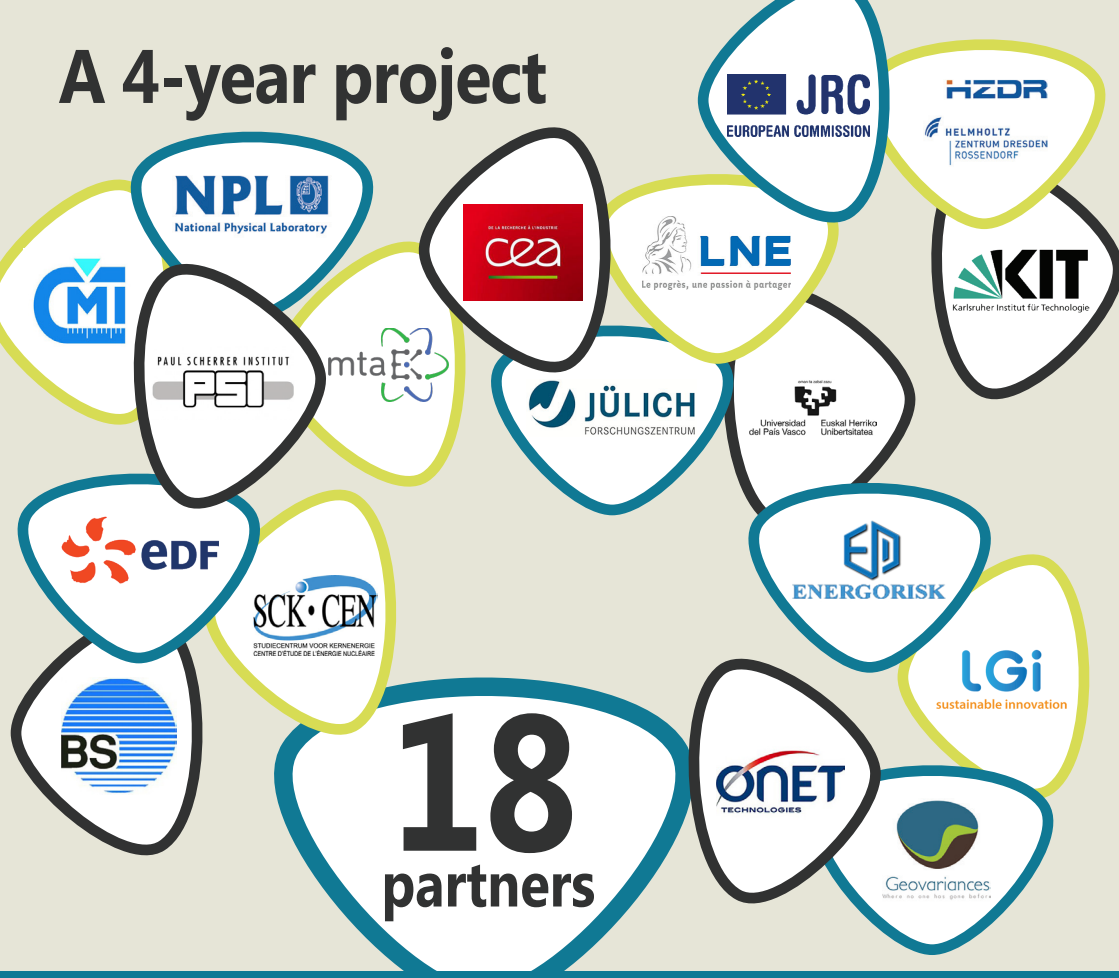
A 4-year project



INSIDER will develop and validate an improved integrated characterisation methodology based on new statistical processing and modelling, coupled with present (and adapted) analytical and measurement methods, while taking into account sustainability and economic considerations.

What INSIDER will achieve

- **Optimise the sampling strategy** under constrained conditions to lower waste production.
- **Assess the performance of available measurement techniques** (methods and tools) to establish an appropriate cartography and a scientific basis for decision-makers.
- **Establish common methodologies to deploy reference guidelines** during decommissioning and dismantling operations (D&D) of nuclear power plants, post accidental land remediation or nuclear facilities under constrained environments.
- **Apply the methodologies to real worksites under decommissioning** to validate them through 3 different case studies.