



A HORIZON 2020 PROJECT



METIS

Seismic Risk Assessment
for Nuclear Safety

METIS aims to **develop and improve tools and methodologies employed in the seismic safety assessments of nuclear reactors**. It focuses on three facets of assessment—hazard, fragility and consequence. Coordinated by Dr. Irmela Zentner, expert research engineer at EDF, METIS will translate project results into practice for industry use through the year 2024.



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The METIS project aims to **develop guidelines to facilitate periodic safety reviews, promote good practices under the Nuclear Safety Directive and enable risk-informed decision-making at the European level.** To ensure that these goals are met, the following objectives have been set.



Develop open source tools for seismic risk assessment to boost transparency, collaboration and quality in the nuclear industry.



Improve plant safety analyses and the performance of current models by comparing them to data and updated models.



Evaluate uncertainty at each step and its potential impact in order to accurately measure risk in seismic safety assessments.



Disseminate knowledge and best practices for seismic safety assessments across the broader nuclear community.

16 PARTNERS
9 COUNTRIES

Comprised of energy companies, research organisations, universities and technical safety organisations, the METIS consortium will collaborate to attain these objectives, and as a result, **improve nuclear safety and directly contribute to the competitiveness of the European nuclear industry.**



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