Multi-risk assessment of critical infrastructures
(Proposer: Prof. Francesca da Porto)

Italy is one of the country most exposed to natural risks, particularly to those deriving from seismic, geological, geomorphological, hydrological, hydraulic and meteorological events, which call for multi-risk approaches for evaluation and identification of efficient mitigation strategies. The research aims to provide a deeper understanding of the effects of natural risks on assets of structures, including cascading events and effects, providing evaluations at territorial scales. Multi-risk assessments will be carried out, also exploiting innovative tools and technologies (such as AI and machine learning), to quantify the impact of natural events and to identify optimal mitigation strategies, able to ensure the business continuity of the exposed asset.

Possible Collaboration: ReLUIS –Laboratories University Network of Seismic Engineering; DPC – Department of Civil Protection.