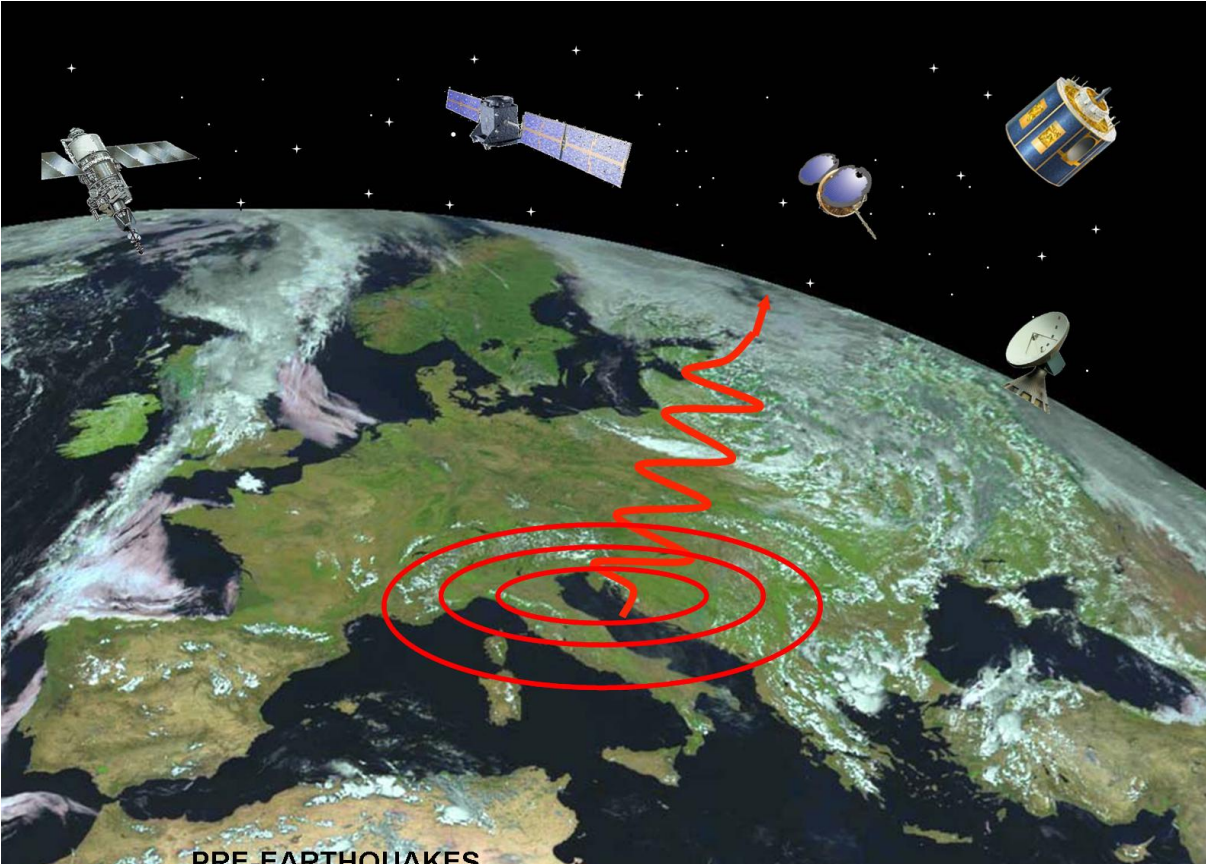


PRE-EARTHQUAKES intends to commit EU and Russian researchers to integrate different ground and satellite data to improve, by cross-validating, their methodologies, in order:

- to substantially improve our knowledge of preparatory phases of earthquakes and their possible precursors;
- to promote a worldwide Earthquake Observation System (EQuOS) as a dedicated component of [GEOSS \(Global Earth Observation System of Systems\)](#) ;
- to develop and offer to the international scientific community an integration platform (PEG) where independent observations and new data analysis methodologies devoted to the research on/of earthquake precursors can be collected and cross-validated.

Different ground and satellite based observations, different data analysis methods, different measured parameters will be compared and integrated in order to move the research in this field beyond its present frontiers. Specific scientific objective of the project will be to investigate and demonstrate to which extent a systematic integration of several independent observations (instead of a single parameter approach) can improve our present capabilities of short-term earthquake prediction. The project will profit of the unique opportunity, offered by ESA and ROSKOSMOS, to have access for free to their satellite data archives in order to integrate, compare, improve different methods and observations relevant to the study of preparatory phase of the earthquakes.

Three European (from Italy, Germany and Turkey) and three Russian Scientific Institutions (from 2 different regions), among the worldwide most quoted for this kind of studies, will constitute the core partnership of the project.



PRE-EARTHQUAKES

and the project is a research effort to understand the relationship between the Earth's crust and the atmosphere, and to develop a system for predicting earthquakes.