

Past4Future, a collaborative project under EU's Seventh Framework Programme, started January 1, 2010, and runs for 5 years. Past4Future combines multi-disciplinary paleoclimate records world-wide from ice cores, marine sediment cores, speleothems, corals, pollen and other records to analyse, model and reconstruct abrupt climate changes during the previous interglacial period (130-115,000 years BP) and the present interglacial (since 11,700 years BP). Earth system models (ESM) including physical and biogeochemical processes are applied to simulate the past and present interglacial climate, and to confront and intercompare the simulations with climate changes as observed from the palaeodata. The data and Earth system model results will improve our capabilities to project future global and regional warming from a better understanding of relevant paleoclimates, especially in relation to sea level changes, sea ice changes and thermohaline circulation changes.

The Past4Future program draw together a world leading team of European and international partners in a concerted effort to advance our knowledge on the causes, processes and risks of abrupt changes in warm periods, such as those projected for the current and the next century. The program will inform the international debate on climate system stability and the dissemination of results will be targeted to both citizens and governmental and non-governmental stakeholders.

Project website:
www.past4future.eu