

## Early-ADAPT: Signs of Early Adaptation to Climate Change

### Description

The overarching aim of **EARLY-ADAPT** is to jointly analyse the environmental (climate variability, air pollution, desert dust and infectious diseases) and socioeconomic (macroeconomy, ageing, inequality and gender gap) drivers of recent trends in public health, focusing on human mortality, hospital admissions, occupational accidents and maternal and child health.

Environmental factors kill hundreds of thousands of Europeans every year. Climate change is an additional threat for public health, and adaptation an essential strategy of increasing importance. Societies are devoting efforts to adaptation, but evidence of effectiveness is still lacking. A unified framework integrating disciplines is the solution to understand the ongoing societal response to climate change.

The driving hypothesis of EARLY-ADAPT is that European societies are starting to adapt to climate change, but the effectiveness of early adaptation is heterogeneous between populations and through time. The project will allow to detect, understand and quantify the drivers and inequalities of human adaptation between countries, regions, cities and social groups.

EARLY-ADAPT will integrate multiple health outcomes and environmental and socioeconomic factors to perform a numerically-intensive, epidemiological analysis between daily spatiotemporal datasets. The project will use different layers of data, and multiscale local regression techniques, to analyse the scales and spatiotemporal heterogeneity of the drivers of early adaptation.

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