

WEATHER EXTREMES

Impacts on Transport Systems and Hazards for European Regions



Objectives: The WEATHER project approaches the topic of extreme events and their impacts on transport systems from an economic perspective. The project investigates the physical impacts of storms, heavy precipitation, floods, heatwaves, etc., explores their costs on transport systems, and designs suitable and cost efficient adaptation and emergency management strategies.

PROJECT STRUCTURE AND METHODS

European and detailed regional extreme weather scenarios and wider economic impacts by means of statistical downscaling and macro-economic model development.

Vulnerability Assessment by type of weather extremes and their consequences on the transport modes by scientific networking, workshops and data analyses.

Development of crises preparation strategies to ease emergency management

Exploring transport sector adaptation strategies for technology and planning

Policy implementation and innovation issues to foster new approaches

Case studies to test the scientific findings with real situations and to generate new insights for the theoretical work. The case studies cover all modes and weather events over large parts of the EU

Final conference, policy conclusions and recommendations to public bodies and transport professionals. The core messages of the project will be conveyed on an accessible way for the relevant parties, stakeholder communities and scientific circles.

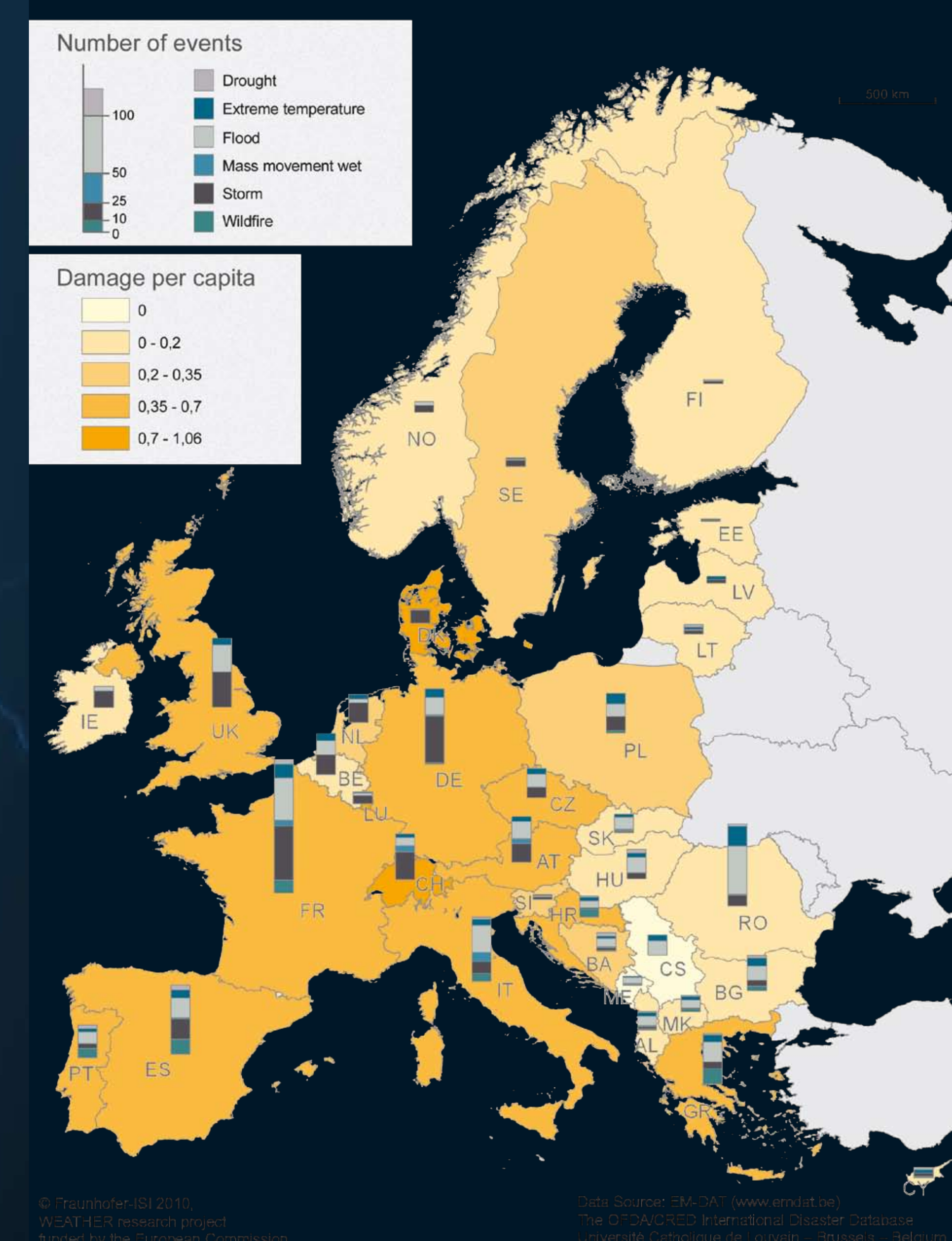
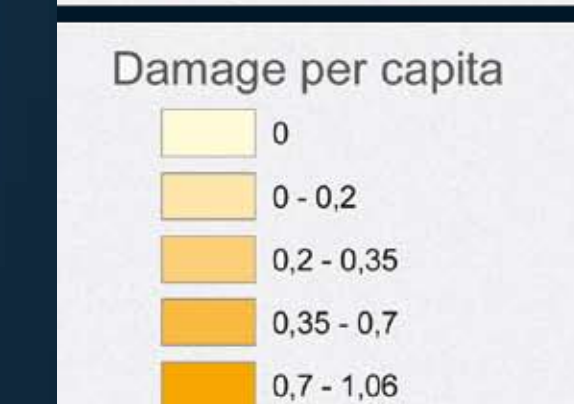
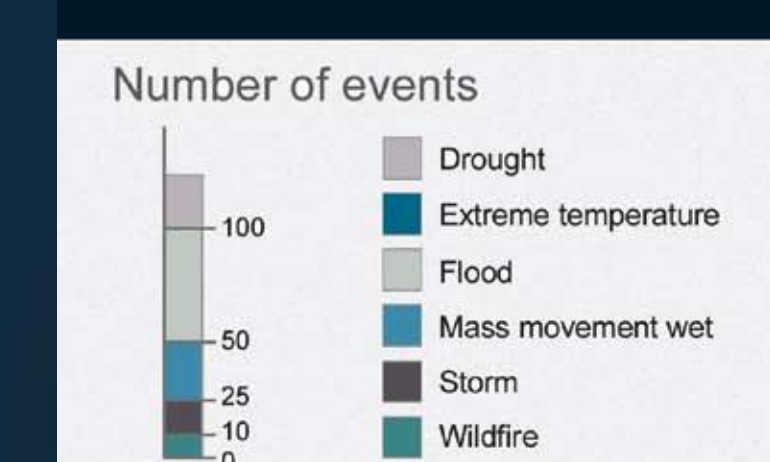
Project details:

Funded under the 7th framework program of the European Commission.

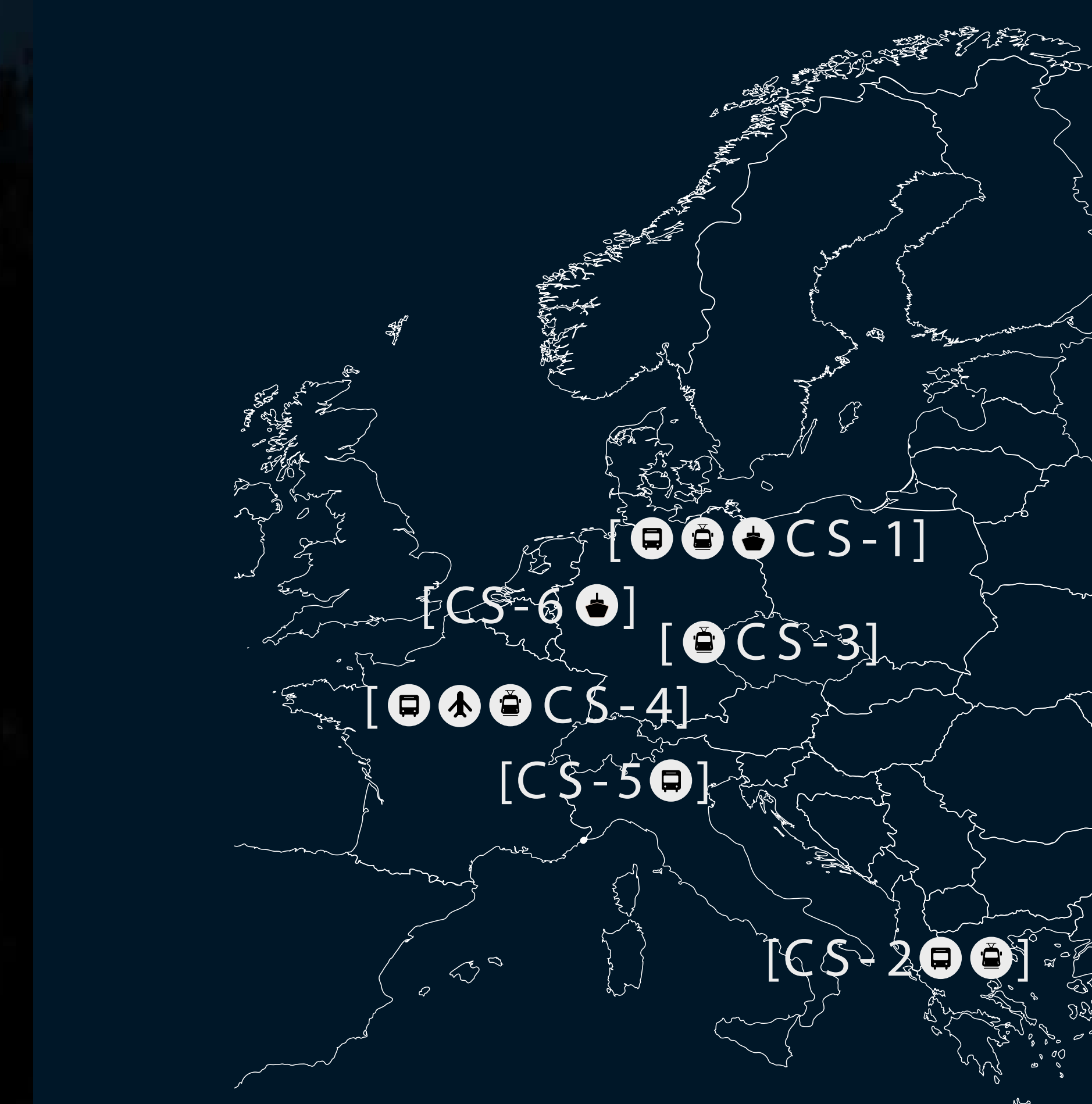
Duration: November 2009 to April 2012.

Co-ordination: Fraunhofer-Institute for Systems and Innovation Research (ISI), Germany

TOTAL DAMAGES PER CAPITA DUE TO EXTREME WEATHER EVENTS, ALL SECTORS 1980 - 2010



SELECTED WEATHER CASE STUDIESE



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