COMPUCLIMED/COMPURISKMED

DAI Standort Zentrale, Zentrale-ZWA, Referat für Naturwissenschaften, Archäobotanik

Projektart Einzelprojekt

Laufzeit 2021 - 2024

Disziplinen Naturwissenschaften, Klimaforschung, Archäoinformatik

METADATEN

Projektverantwortlicher Ferran Antolin

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Team Ferran Antolin, Nuria Morera

Laufzeit 2021 - 2024

Projektart Einzelprojekt

Cluster/Forschungsplan ZWA - Adaption und Resilienz, ZWA - Mensch und Umwelt

Fokus Modellierung

Disziplin Naturwissenschaften, Klimaforschung, Archäoinformatik

Methoden GIS-Analyse

Förderer Auswärtiges Amt

Schlagworte Neolithikum, Umweltprozesse, Meeresspiegelschwankungen, Naturkatastrophen

Projekt-ID 5775

OVERVIEW

Big Data has a great potential in archaeology. Within the AgriChange project, more than 4000 radiocarbon dates for the Neolithic period in the NW Mediterranean region were collated and revised. These data points were connected to data on local topography and environment as

wel as palaeoclimatic conditions in order to reconstruct the ecological niche of Neolithic sites in the area. The CompuCliMed project used this information with Machine Learning techniques to predict site location in the area. CompuCliMed existed in the framework of the GroundCheck Cluster 9.

Potential hazards affecting archaeological heritage are of different nature: geological, climatic and human-induced. Particularly climate-change related sudden events have been uncovering and destroying archaeological sites. Is there any way to document these sites before these predictable catastrophes make them disappear? CompuRiskMed focuses on climate change-related hazards and aims at identifying higher risk areas with high probabilities of containing archaeological sites to define high-priority areas for immediate prospection and investigation before they disappear due to aridification processes or sudden events. In this sense, the predictive models generated by CompuCliMed are a unique ressource to combine with projected hazards. CompuRiskMed takes place in the framework of KulturGutRetter.

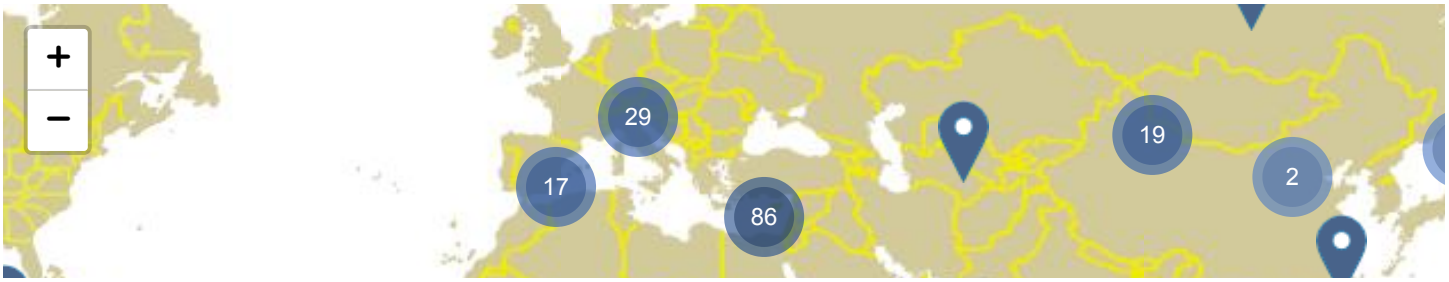
This project is lead by Ferran Antolín (DAI) and Maria Elena Castiello (INCIPIT).

SPACE & TIME

RESEARCH

CULTURAL HERITAGE

TEAM



RESULTS

PARTNER & FÖRDERER

FÖRDERER

Auswärtiges Amt

Auswärtiges Amt

TEAM

DAI MITARBEITENDE

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EXTERNE MITGLIEDER

Dr. Maria Elena Castiello