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Decision support tools and methodologies to improve the resilience of historic areas

ARCH

aims to make historic areas more resilient

The EU-funded project **ARCH-Advancing Resilience of historic areas against Climate-related and other Hazards**- is a research project aims to deliver decision support tools and methodologies to **improve the resilience of historic areas to climate change-related and other hazards**.

Last December 2021 ARCH published the "Knowledge Information Management System for Decision Support" deliverable that **summarizes methods, data and results obtained by the project to generate relevant information and knowledge to support decision making process**.

The report highlights that:

- to improve awareness and capacity building on disaster resilience at the historical area level: the implementation of ontology-based and semantic-based spatiotemporal assessment has great potential
- to support decision-making processes of preventive conservation and restoration of cultural heritage buildings: automated approaches for 3D modelling and automatic crack / damage detection based on deep learning have proven to be extremely valuable tools

Forther information:
About ARCH project.
About ?Knowledge Information Management System for Decision Support? deliverable.