





ResCult



(Increasing *Res*ilience of *Cult*ural heritage: a supporting decision tool for the safeguarding of cultural assets)















Funded by European Commission, DG-ECHO Humanitarian Aid And Civil Protection



RESCULT PROJECT – The Partners



SiTI - Istituto Superiore sui Sistemi Territoriali per l'Innovazione (coordinator)

UNISDR – The United Nations Office for Disaster Risk Reduction

TUB – Technische Universität Berlin

POLITO – Politecnico di Torino

CORILA – Consortium for managing research activities in the Venice Lagoon system (IUAV is affiliated partner of CORILA)

SDIS 04 – Service Départemental d'Incendie et de Secours des Alpes de Haute-Provence



RESCULT PROJECT - Beneficiaries, Budget, Duration











PROJECT'S DURATION: **18 months**

Budget: **800 k€**

EC co-financing: **75%**



The need of increasing Cultural Heritage Protection

"Historia testis temporum, lux veritatis, vita memoriae, magistra vitae, nuntia vetustatis."

Cicerone

security

constantly threatened

Art pieces as:

- Witnesses of people's history
- Religious symbols
- Material catalysts of culture
- Universal value and heritage of Mankind
- · High market value
- Investment assets

Natural Disasters

Manmade Threats

"History is the witness that testifies to the passing of time; it illumines reality, vitalizes memory, provides guidance in daily life and brings us tidings of antiquity."





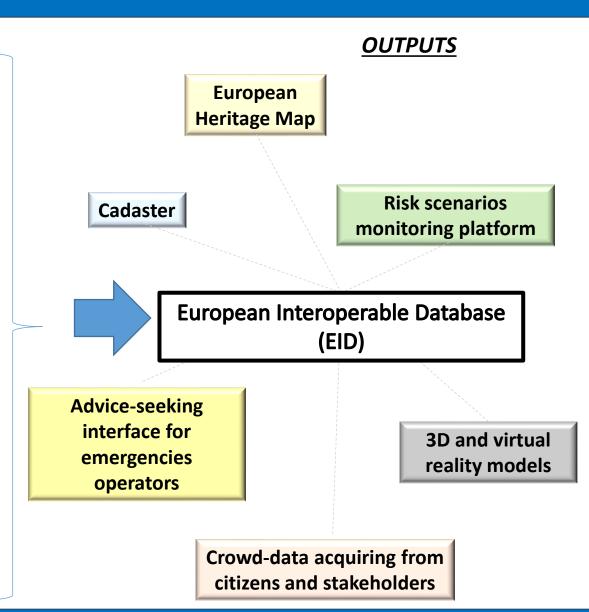
RESCULT PROJECT - Objectives and Outputs

OBJECTIVES

Enhancement of the capability of Civil Protection Bodies to understand/prevent/mitigate disasters impacts on Cultural Heritage.

Increase cooperation and EU interoperability between member states for the sake of protecting Cultural Heritage (information sharing, protocols, interoperable best practices dissemination, alignment with EU policies/standards)

Improvement of the Disaster Risk Reduction strategy (for prevention and resilience), according to the principles of Sendai Framework.





RESCULT PROJECT - The Workplan



0

MANAGEMENT

TASK

1

TASK

2

TASK

3

TASK

4

ANALYSIS OF REQUIREMENTSTASK

DATABASE DESIGN

&

IMPLEMENTATION

EID TESTING AND PILOT CASES

COMMUNICATION AND DISSEMINATION



The (EID) - European Heritage Map





INSPIRE

International standards for Cultural Heritage Classification





European Heritage Map

Ministers

Political Authorities Municipalities

Cultural Heritage associations

Monuments

Archeological sites

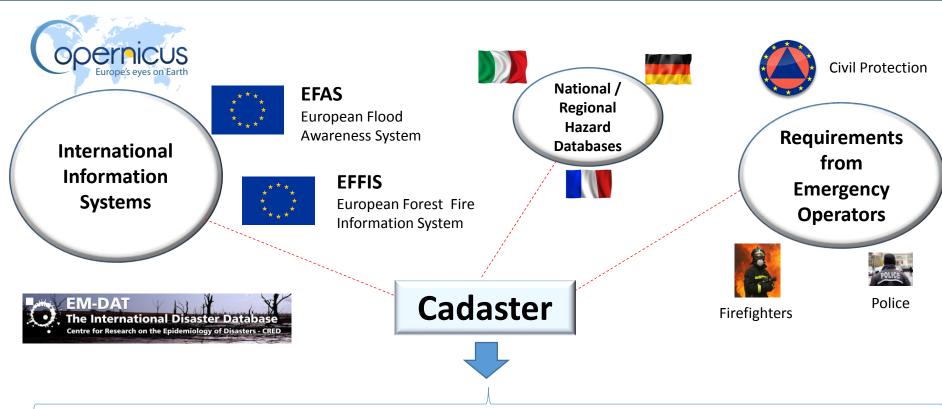
Cultural Heritage

owners

Museums









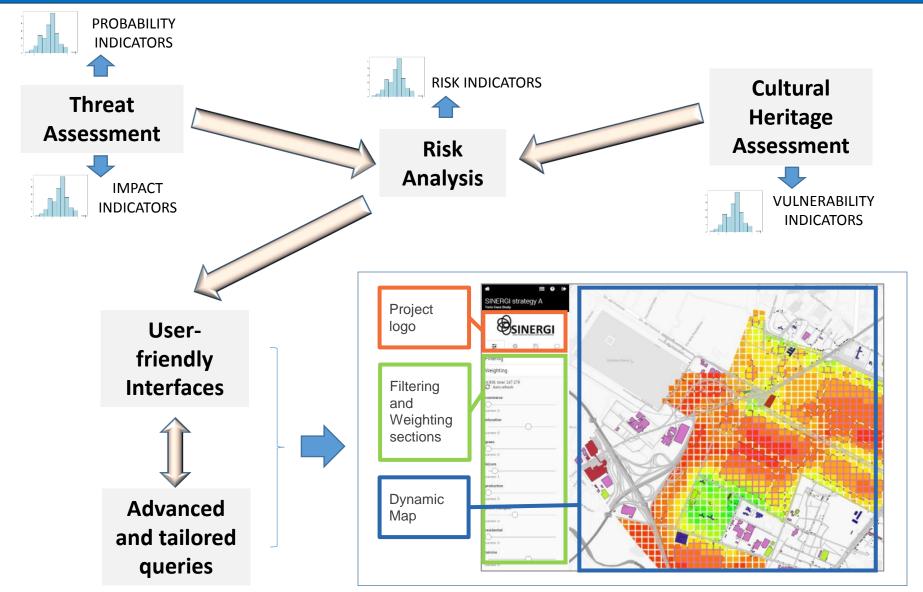




+ other types

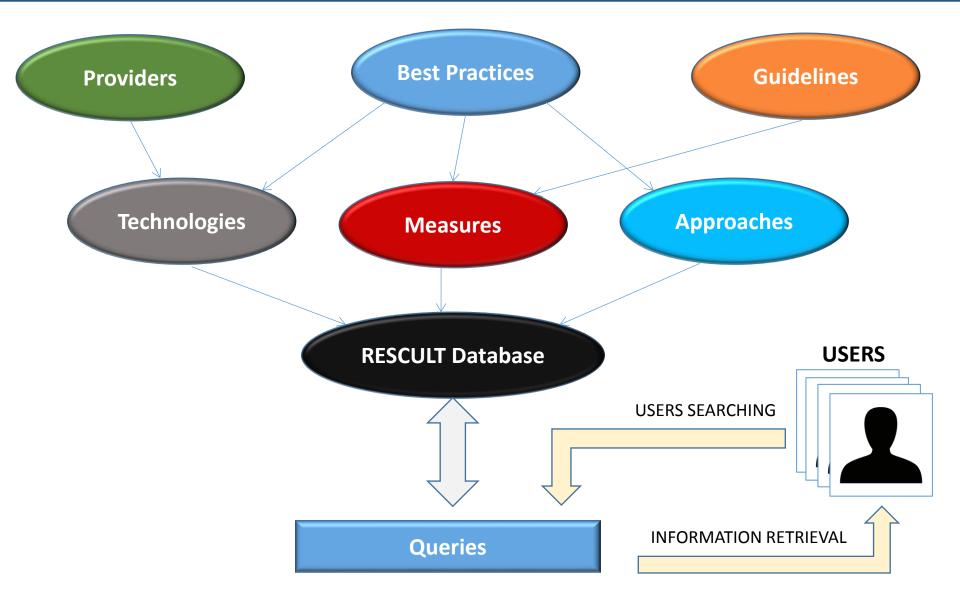


The (EID) - Risk Scenarios monitoring Platform





The (EID) - Advice-seeking interface for emergencies operators







360° Photo



EID



Photogrammetry



VR & Graphic Engine Modelling



Laser Scanning



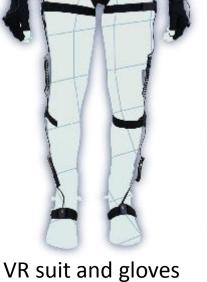


An overall view of the VR LAB located in SiTI



PROCESSING





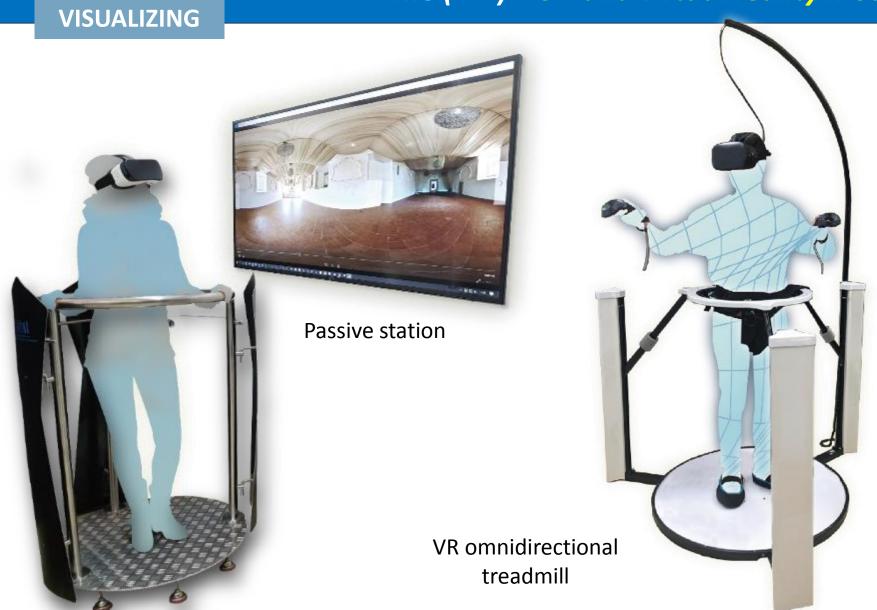
CAPTURING





VISUALIZING





The (EID) - Crowd data acquiring Platform



CITIZENS





EMERGENCY OPERATORS





Social Network



EMS Platforms and Mobile apps

The Case Studies



Santa Maria dei Miracoli Church, Venice (Italy)

The **Santa Maria dei Miracoli Church** is a major touristic site in the city of Venice, Italy and of great religious importance. Dating back to the late 15th century the church is not only architecturally significant but contains a number of important artworks as well. Their vulnerability especially to flooding will be studied.

The **Prehistoric Museum of Quinson** aims at retracing the human adventure in Provence, restoring the results acquired for several decades by the scientists. It contains large amount of archaeological furniture collections dated from the Paleolithic, Neolithic and Bronze Age.



Prehistoric Museum,
Quinson (France)



Convent of San Nicola, Tolentino (Italy)

The **Convent of San Nicola a Tolentino** in the Marche region of Italy contains architectural heritage such as the Basilica of St. Nicolas and numerous artworks from the 14th to the 17th century. The vulnerability of the complex especially to earthquakes will be assessed.

Conferences and Institutional Events



upcoming USER FORUM

Venice, 29 November 2017

RESCULT Website: https://rescult-project.eu

Registration form links: https://rescult-project.eu/news-events/first-user-forum-in-venice/

Sector	Company Role		Company name
Company address: street	1	ZIP	City
Email address *		Telephone	

Attendees can be mentioned as contributors in RESCULT Official Publications

Conferences and Institutional Events



(upcoming) Cultural Heritage in the Digital Era closed-door event, invitation by the European Commission

(Bruxelles, Belgium, 25 October 2017)

Innovation in the intelligent management of Heritage Buldings COST ACTION TD1406, 4th MC meeting (Valletta, Malta, 26 September 2017)





World Reconstruction Conference 3 (Bruxelles, Belgium, 6-8 June 2017)

Global Platform for Disaster Risk Reduction Conference

(Cancun, Mexico, 22-26 May 2017)



Synergies between RESCULT project and Civil Protection Bodies



- RESCULT can contribute to the implementation of Sendai Framework, supporting Regions in the process of "Avoiding generation of new risks and mitigating existing ones" and "Building Back Better" (also including the re-activation of touristic flows after a disaster).
- RESCULT can increase Emergency Operators capability to deal with disaster management, sharing information on existing European best practices in terms of approaches, procedures, technologies, devices, and data collection processes during emergencies.
- RESCULT can <u>share tools</u> for the frame-working, management, visualization, consulting and sharing of data and related data services to support disaster risk management.



RESCULT can contribute in <u>reducing the existing gaps between</u> <u>regional perspectives and national/international policies</u>, through the realization of case studies to test RESCULT tools and through creation of national/international networks to foster the dissemination of lessons learnt by emergency operators.



THANK YOU FOR YOUR ATTENTION

Massimo Migliorini

Coordinator of RESCULT Project

Security and Business Models for Energy Networks and Infrastructures

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