



Fondazione Lombardia
per l'Ambiente



CHEERS

Cultural HEritagE: Risks and Securing activities

Giulia Pesaro

Lombardy Foundation for the Environment

Managing the Protection of Cultural Heritage in Changing Environment

International conference - ProteCHt2save Project

Prague, June 27th 2019

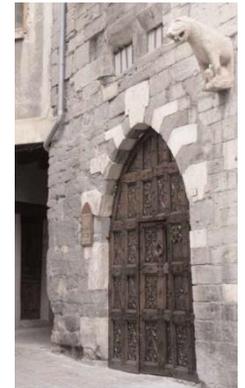
Cultural heritage in the Alpine area

- The Alps host an outstanding variety of material and immaterial cultural heritage elements ...



Cultural heritage in the Alpine area

- ... which are the grounds not only of Alpine people's identity but also of the human cultural heritage.



Cultural heritage prone to risks

- When affecting the Alpine territory, natural disasters are likely to be exacerbated by the climate change and represent a major threat to the cultural heritage, in terms of asset safety and fruition.



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Germany

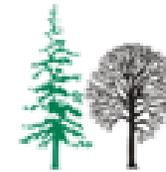


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The CHEERS Project in a nutshell

- **Protection** of Alpine cultural assets **in the event of a crisis or natural disaster**
- **Increase of knowledge about values and vulnerabilities** of the Alpine cultural heritage **exposed to natural hazards**
- **Support to decision making and to education and training** in order to enhance effectiveness and promote the participation of local stakeholders

The CHEERS Project: an example to better focus the working fields

ARPA LOMBARDIA
Agenzia Regionale per la Protezione dell'Ambiente

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CENTRO DI MONITORAGGIO GEOLOGICO

Gallivaggio (Monitorata dal 2011)

Nella stessa zona
Val Febbraro Madesimo (SO)
Monte Mater Madesimo (SO)
Val Genasca San Giacomo Filippo (SO)
Cresta Emet Madesimo (SO)

Altri dissesti
Arlate Grosotto (SO)
Bema Bema (SO)
Boero Valdisotto (SO)
Campo Franscia Lanzada (SO)
Gera Lario

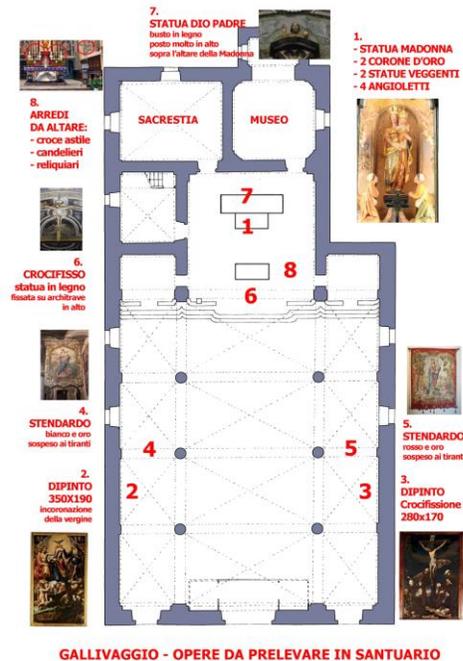
Scheda del dissesto "Gallivaggio"
Località: Santuario di Gallivaggio
Comune: San Giacomo Filippo (SO)
Cartografia: Sezione C.T.R. 1:10000 B2D2 - B2D3
Tipologia del dissesto: Crollo
Reti di monitoraggio: Radar da terra, in progetto rete estensimetrica ed accelerometrica
Riferimento: Cartografia I.F.F.I.
Elementi a rischio: Santuario, abitazioni, Strada Statale SS36

Link veloci
:: Scheda
:: Osservazioni

Sensoristica
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Monitoring of the Gallivaggio landslide

<https://cmg.arpalombardia.it/webcmgfrontend/dissesto.asp?def=102ovince>



The evacuation of the mobile cultural heritage from the Santuario di Gallivaggio, May 2018 – Lombardy Region

Courtesy: Lombardy Region Regional Secretariat – Italian Ministry of Cultural Heritage and Activities

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Goals

- To produce **a sound methodology for local communities** all over the Alps for **recognition and identification of cultural heritage stock at risk in need of foremost safeguarding interventions**
- To **improve the capacity of local communities to manage safeguarding interventions** on cultural assets against natural hazards
- To build **innovative elements** for the **enhancement and implementation of policies in the field of cultural heritage protection and salvaging as a crucial territorial capital**

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Operational approach 1/2

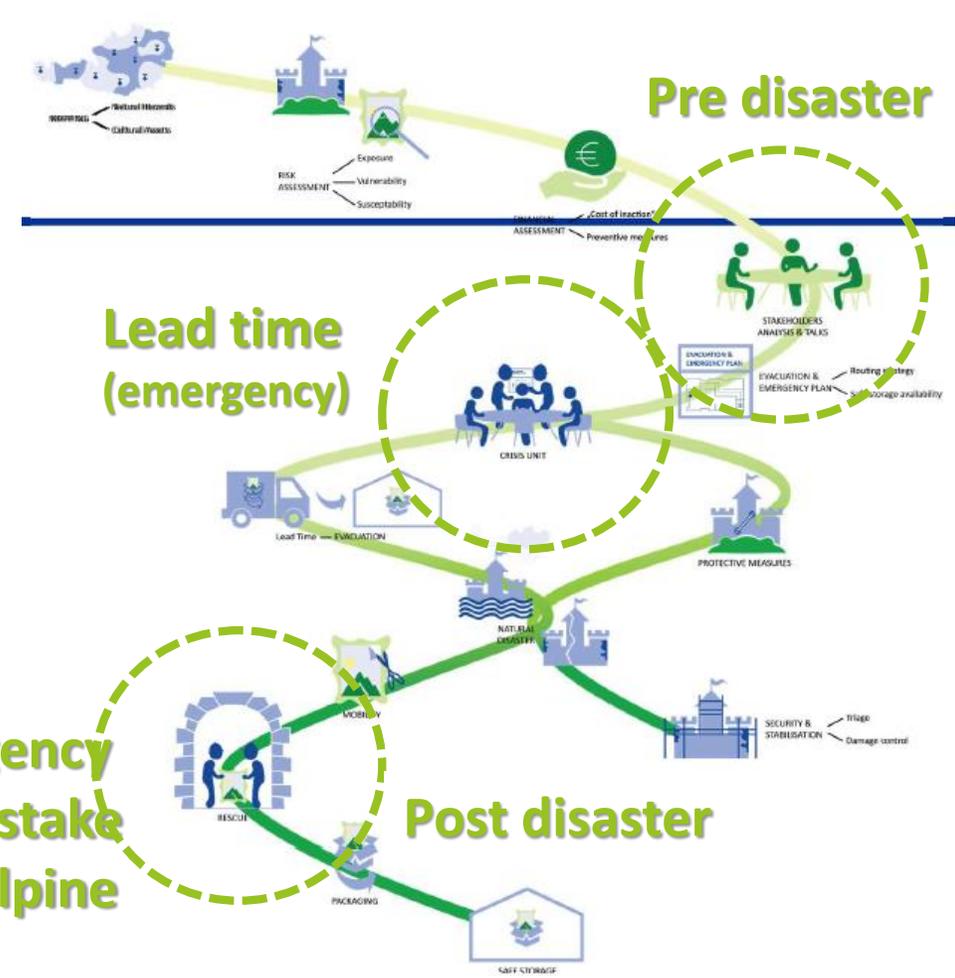
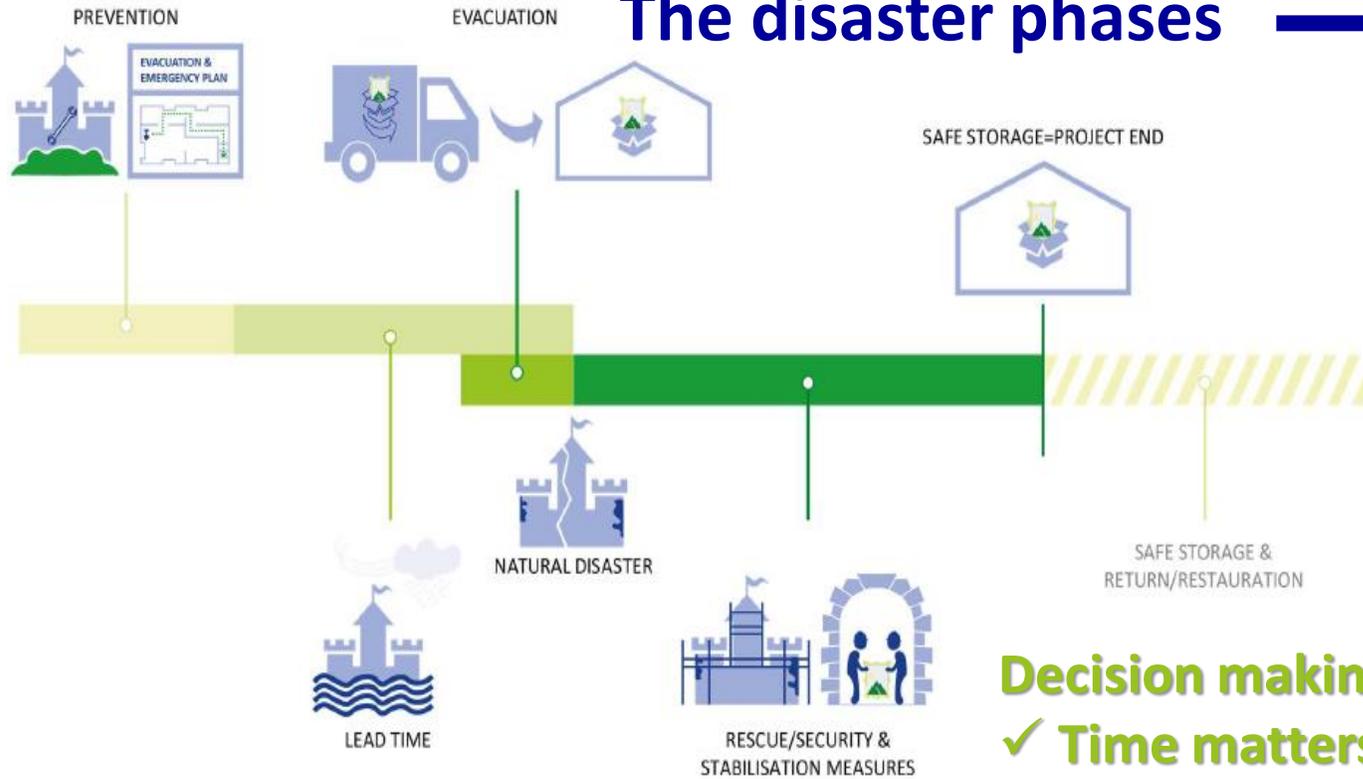
- Building the **knowledge base** for identifying and valorizing the cultural heritage stock at risk
- **Learn from case studies and past experiences**
- Defining reference conservation/securing **approaches, techniques and training** for **Civil Protection Operators and Volunteers**
- Developing **new models of emergency planning** to protect cultural heritage, built on shared pilot experience and transferable at transnational level
- Capitalizing **innovation technologies for effective and more comprehensive DDR and climate change adaptation policies**

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Operational approach 2/2

The disaster phases

The intervention process



Decision making

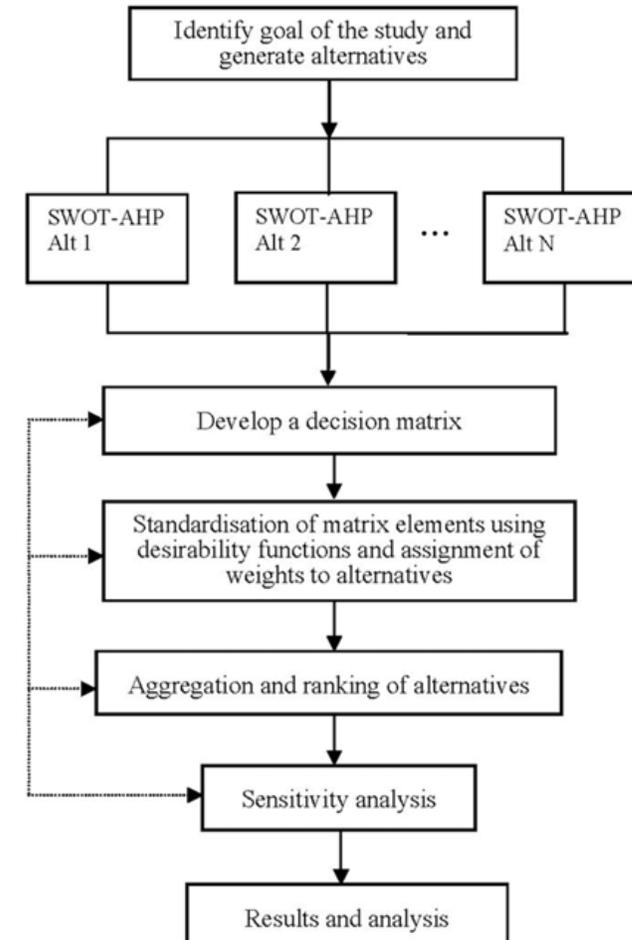
- ✓ Time matters a lot
- ✓ Know how in emergency
- ✓ Cultural heritage at stake
- ✓ Specificities in the alpine area

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Outputs 1/3

A. Implementation of tools to valorize cultural and natural heritage of the Alpine Space

- **Assessment method** for assets evaluation and **prioritization of interventions** if needed.



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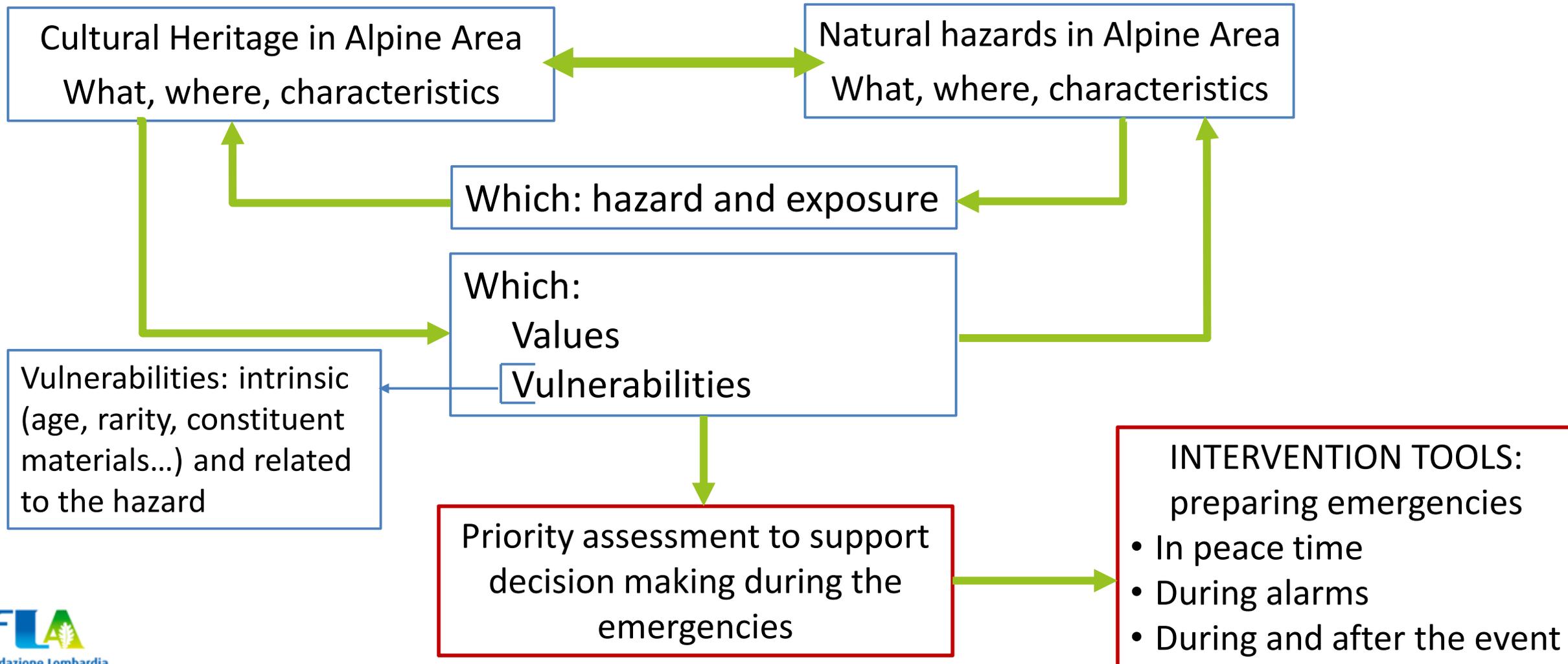
Outputs 2/3

B. Implementation of **tools** to valorize cultural and natural heritage of the Alpine Space in a **protection and emergency perspective**

- Conceptual **toolkit for the identification of the exposure of cultural assets to risk and the evaluation of the related vulnerabilities profiles** according to different hazards.
- **Education & Training learning units** on the Cultural Heritage and Risk management cycle.
- **Innovation concepts of Civil Protection Plans** for cultural heritage assets protection & schemes of simulation exercises.

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Working concept



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Working path 1/4

WP1 - Alpine Cultural Heritage: value and vulnerability

It frames the topic of the definition of Alpine cultural identity, analyzing the issue of its exposure to natural hazard and it investigates the related economies, focusing on values in terms of identity, cultural function and income generation and finally produces a methodology for assets evaluation and prioritization in salvaging interventions. Also, it proposes relevant elements for future policy making in the field

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Working path 2/4

WP2 - Advancing Hazard and Exposure Assessment methodologies applied to the field of Cultural Heritage protection in the Alpine environment

It provides local communities with tools that can be effectively applied to identify which of the evaluated assets are truly exposed to risk. To this aim, it integrates analysis on hazard, assets, risk mapping approaches and vulnerability assessments to support interventions in alert or emergency conditions

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Working path 3/4

WP3 - Alpine Cultural Heritage Protection: approaches and techniques

It enquires about the nature of the potential damage to the exposed assets in relation to different hazards and the techniques to protect and salvage them. It also investigates the managing aspects, how the issue of cultural heritage protection is governed transnationally and at the country level, in terms of roles, responsibilities and funding sources as well. While experts are gathered to share case histories, an educational format is produced for the transferability of this knowledge core

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Working path 4/4

WP4 - Emergency planning and salvaging

It takes advantage of pilot activities to provide Alpine communities with guidelines for new Civil Protection Plans oriented to cultural heritage protection and reference formats of simulation exercises testing the effectiveness of Operating Procedures for salvaging interventions on cultural assets

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Challenges 1/3

- ***Territorialize*** the reasoning about how to maximize effectiveness and efficiency of interventions on cultural heritage prone to natural hazards ***in the Alpine Area***
 - ***Recognize the alpine cultural heritage***
 - ***Mapping of the alpine cultural heritage*** exposed to different hazards
 - ***Building of a local-based and stable knowledge*** of the disaster risk according to the local territorial specificities and of the related strategies for disaster risk reduction

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Challenges 2/3

- ***Produce assessment tools*** with a strong scientific base and, at the same time, ***easy-to-use for end-users*** in the secure and salvage process
- ***Put in evidence the decision-making processes*** to be followed if an event occurs or is likely to occur, better identifying the whole of the actors to be involved in decision-making chains and with which roles and competences during emergencies
- ***Produce systematic evidence and learning from the past*** experiences and practices
- ***Diffuse the culture of preparation in peace time*** in order to maximize effectiveness in action and, therefore, to minimize damages and losses to cultural heritage

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Challenges 3/3

- ***Increase the availability of tools and methods to enhance the active involvement of local communities of stakeholders***
 - ***Awareness*** about the ***multiple values*** of their cultural heritage exposed to natural hazards
 - ***Knowledge*** about the ***multiple risks*** their cultural heritage is exposed to and the related vulnerabilities
 - ***Understanding*** of the ***need for being adequately prepared*** to intervene on cultural heritage



THANK YOU FOR YOUR ATTENTION!

Lead Partner



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