



Safeguarding Cultural Heritage
through **T**echnical and **O**rganisational **R**esources **M**anagement

Cultural Heritage Improved Resilience



Funded by the Horizon 2020
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Project funded by: EUROPEAN COMMISSION - Executive Agency for Small and Medium-sized Enterprises (EASME)

Why STORM ?

An Ecosystem to mitigate damages to Cultural Heritage

The achieved vision

- **Resilience** of Cultural Heritage against both **Slow** and **Sudden** disasters caused by climate change should count on **Clear and Collaborative Processes** involving all useful actors with a wide multidisciplinary competence
- **Crowd** and collaborative approaches are a key asset to achieve an effective ecosystem
- **Field view** should be a compass for potential rescuers
- One key factor in field should be to “**Be prepared**” for possible disaster
- Another key factor is being able to **Block possible enlargement of damages**



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Built on exchange of experiences

The key paradigm to address STORM issues

Exchange of experiences the STORM experience

- **Risk assessment and management:** natural hazards and climate change threats have been identified and analysed with contribution of the site managers; the respective risks have been assessed to determine the risks reduction strategies for each pilot site.
- **Restoration, Conservation, Cultural history:** first aid, recovery and preventive techniques have been identify focused on site needs
- **Emergency:** collaboration with emergency forces should be consolidated, while first aid crisis management processes have been designed
- **Sensors and technologies:** leading edge technologies should be in place to monitor and to be integrated in the rescue process
- **Workflow and collaborative working:** a field oriented collaborative environment must be in place, also counting on social media features



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Climate change and STORM

The achieved vision: How STORM faces with the climate change

- Predictive models of climate change
- Monitoring tools for slow and sudden hazards
- Methodologies for quick restoration and long-term conservation
- Collaborative working through networks, stakeholders and online media platform
- Training packages
- Policy improvements

These outcomes add up to improving the resilience of Cultural Heritage to climate change



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Risk Assessment: know your enemies

Analyse first, then act

STORM natural hazard experts
(earthquake researchers,
geophysicists, climatologists, GIS, ...)

STORM cultural heritage experts
(pilot site managers,
engineers,
archeologists,
restorers,
conservators, ...)



STORM disaster risk reduction expertise to design and guide the process

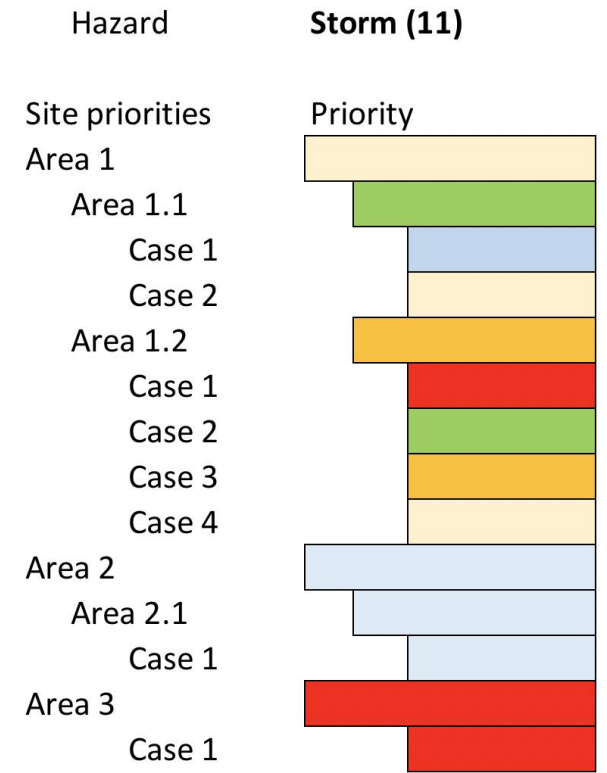
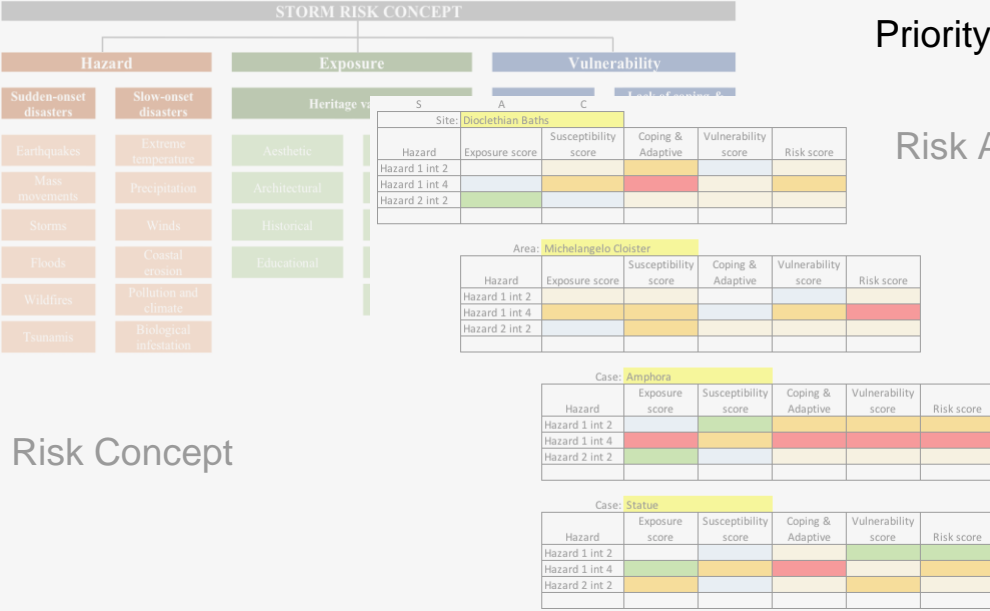


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From Risks to Priorities



Collaborative Aid

Adding processes to competences in addressing climate change - enhanced resilience

Competences:

- Restorers
- Archaeologists
- Conservators
- Architects
- Engineers
- Climatologists
- Geologists
- First responders
- Etc...

Improved collaboration

- From individual **experience driven** action:
 - Experts have huge experience in their specific field but sometimes it is difficult to have synergy among them during emergencies
- To **process driven experienced** action:
 - The project team worked on the identification of processes acted in emergencies and how each needed competence could participate in a synergic way to mitigate effects



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Thank You
for your time