



### Via Appia. Regina Viarum

Roma, 29 settembre 2023

The nomination process

Risk Map of Italian Cultural Heritage

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- "Risk Map" is an information system created by ICR in the 90s in support of the scientific and administrative activities of Institutes and State bodies responsible for protecting, safeguarding and preserving the Cultural Heritage.
- The base element consists of a Geographical Information System (GIS) of alphanumeric and cartographic database, capable of exploring, superimposing and processing information concerning the potential risk factors posed to the cultural heritage.
- Since 2020 Risk Map is managed by the **General Direction for the Security of Cultural Heritage** (DG SPC).



Curch of San Salvatore - Campi di

**Risk** is the possibility that an adverse event may cause damage to something that has the value of cultural heritage.

It's a function of two variables: vulnerability (asset) and dangerousness (territorial) Aim: to identify the assets exposed to risk of loss in order to plan the required conservation work.

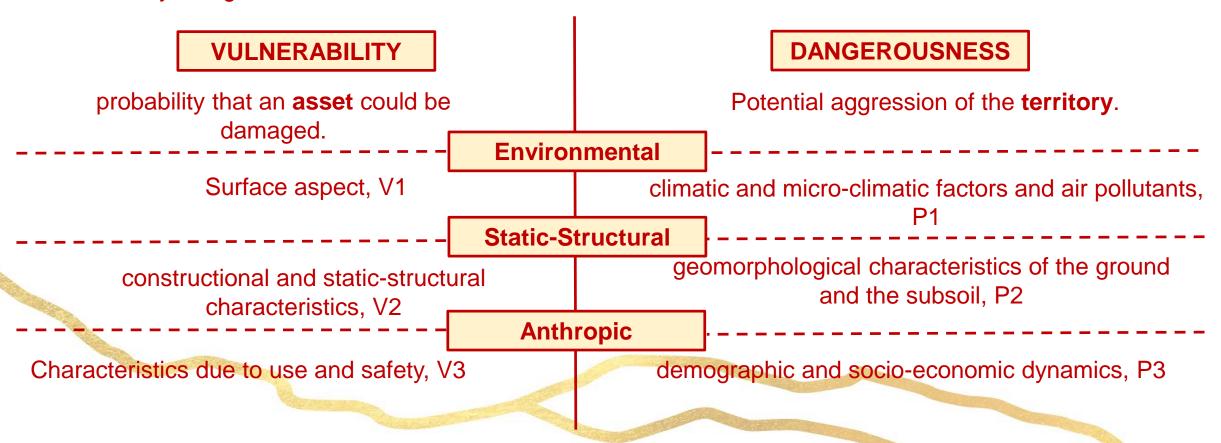








Vulnerability, dangerousness and their 3 different domains:



The specific vulnerability of a site, based on its conservation status, and the knowledge of the dangerousness in the area, define together the risk level to which a monument is exposed.

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#### **VULNERABILITY**

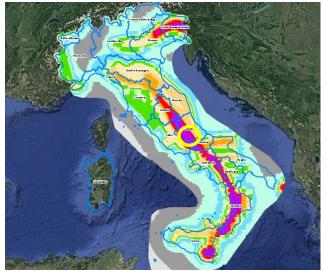
Territorial vulnerability – CH concentration



MiC's databases (VIR) extract



Local vulnerability (structural)



#### **DANGEROUSNESS**

Seismic
Dangerousness
(structural)

Seismic risk PCN (from MiC's databases VIR)

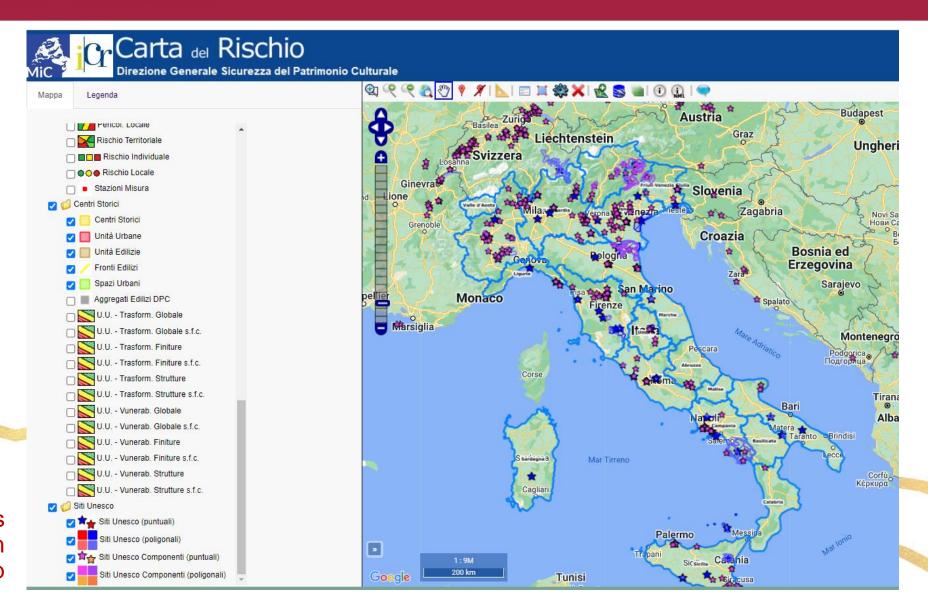


Right, picture from UCCR Umbria, team De Logu, Giannantoni, Sisti.









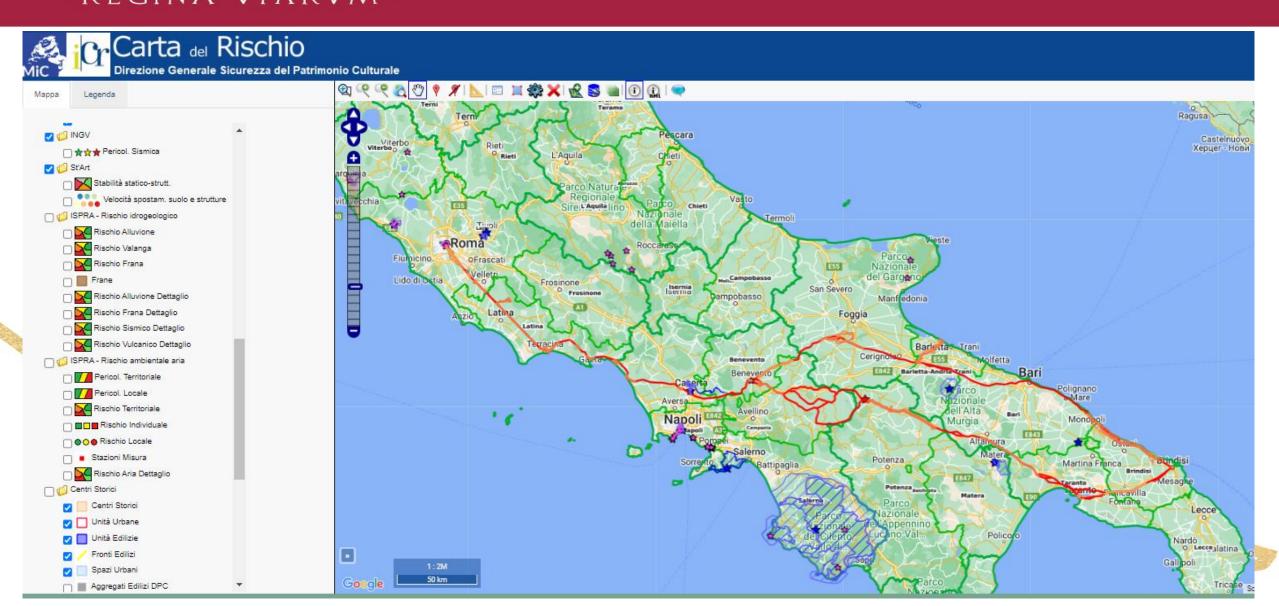
UNESCO's italian sites in Risk Map

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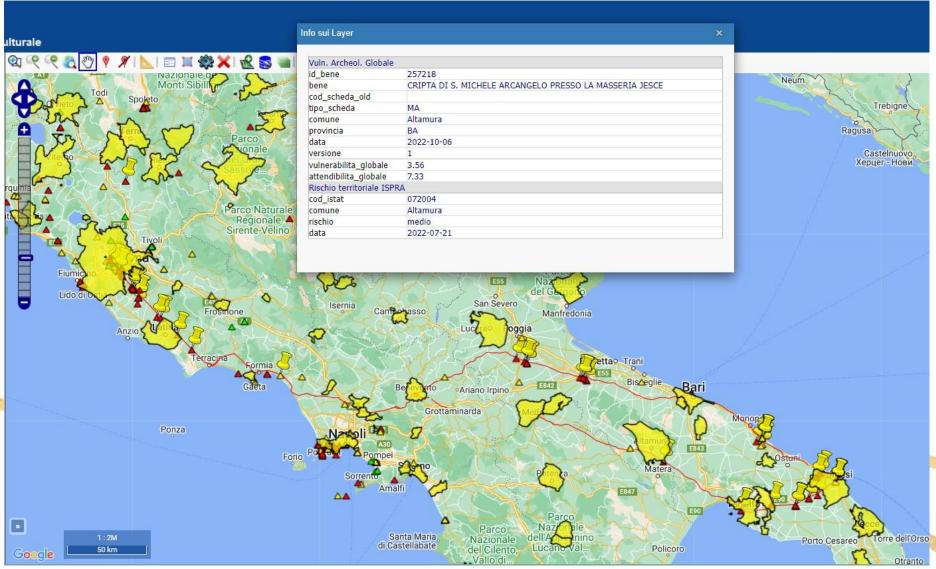


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Placeholders indicate the vulnerability forms created for the nomination



Example of system query: Perimeters areas with air quality analysis by ISPRA

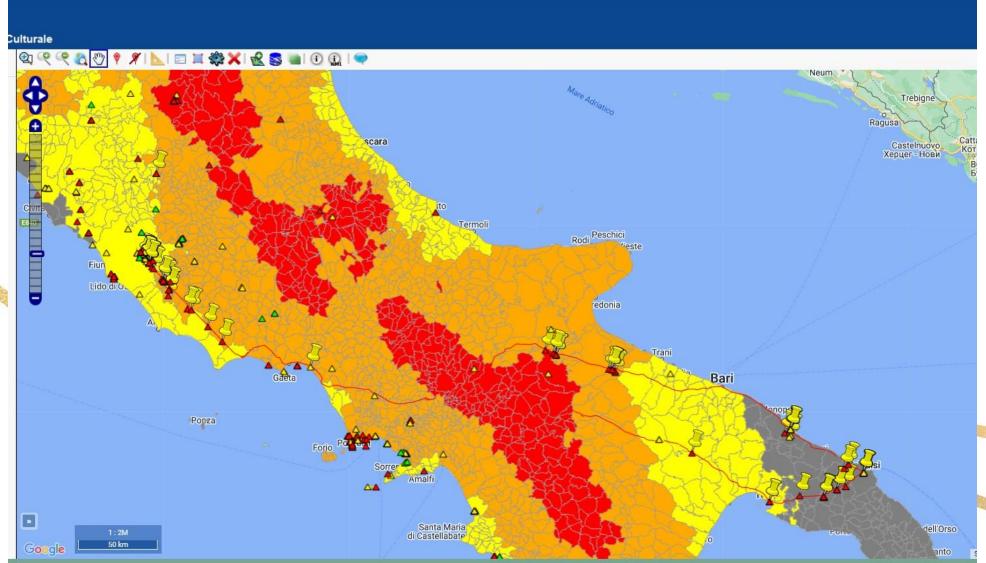
The little triangles are vulnerability forms.











Seismic classification of italian municipalities by INGV









