

SOUTHERN ITALY

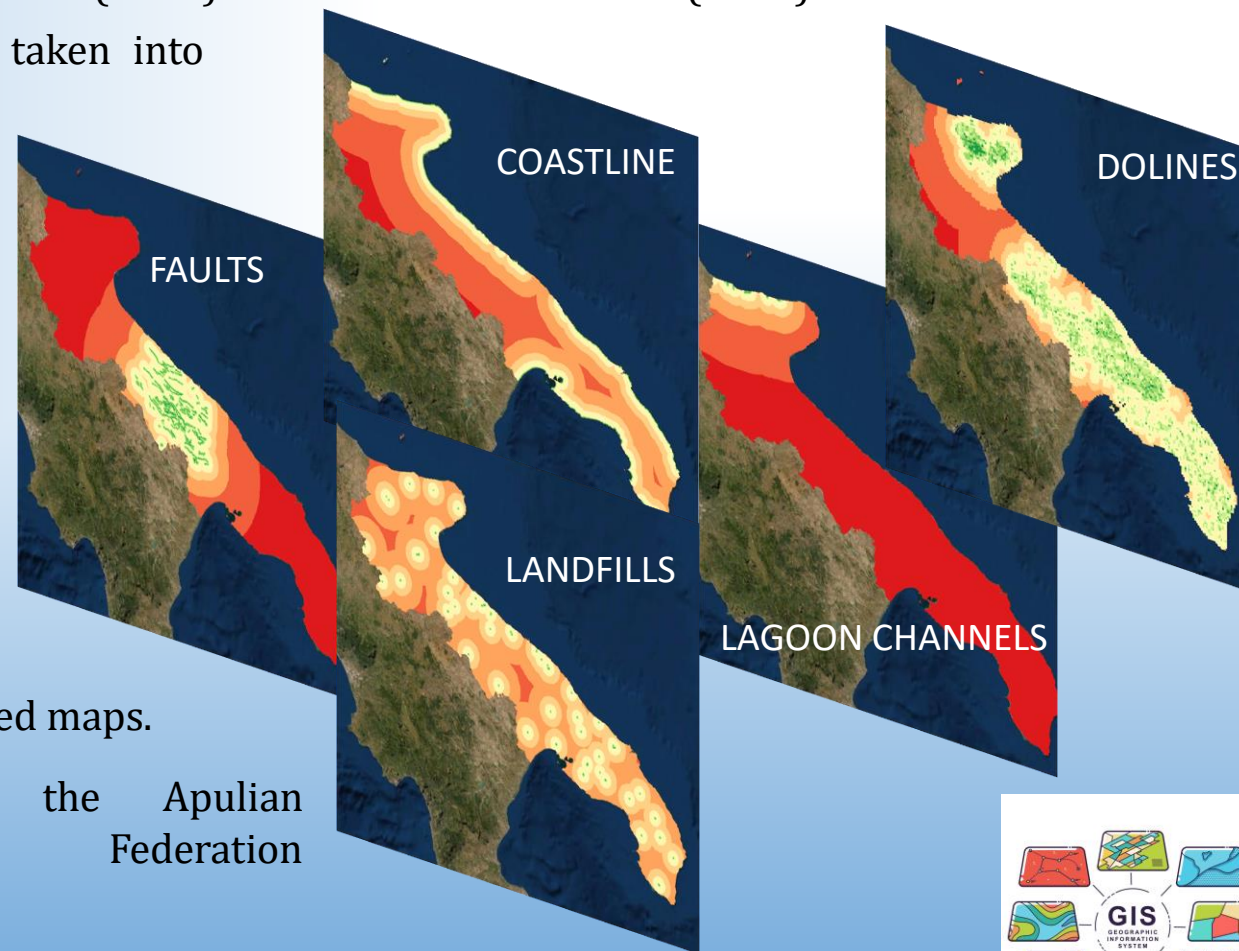
Vennari, Rossi, Pisano, Zumpano, Parise

HS8.2.8 Field and modelling approaches to assess natural processes and engineering problems in the complex karst environment

In order to estimate the susceptibility to natural sinkholes in Apulia, the ensemble statistical modelling proposed by Rossi et al. (2010) and Rossi & Reichenbach (2016) is used.

The following layers were taken into account:

- Coastline;
- Landfills;
- Faults and Folds;
- Dolines;
- Fluvial Erosion Rims;
- Lithology;
- Land-use;
- Lagoon Channels;
- Slope;
- Wetness Index;
- Curvature;
- Geomorphons and derived maps.



TRAINING SET from the Apulian Speleological Federation (www.catasto.fspuglia.it);

VALIDATION SET from The chronological catalogue of sinkholes in Italy (Parise & Vennari, 2013, 2017).



Preliminary analyses were performed in GIS in order to proceed with the estimation of distances, preparatory to the susceptibility.