

- **Il sistema informativo geografico del Modello Strutturale d'Italia | [The geographic information system (GIS) of the Structural Model of Italy]**
- Scandone, P., Patacca, E., Fantozzi, P.L., Castagnini, G., Pirro, A., Fuschino, L.
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- The advent of GIS represent a revolution in the management of cartography; this system allows to produce from a georeferenced archive, plots of map at different scale, spatial analysis, map algebra computations, and any type of integrations between DTM and geophysical data. The target of this work consist of the realization of a geographical database to support the modeling of a structural model of Italy, through the integration of geological mapping data and any other type of geoscience data (biostratigraphical, geophysical, etc.). The starting point of the project will be the Structural Model of Italy, published by CNR in 1985, a very detailed geo-structural map of Italy composed by 6 sheets at the scale 1:500.000. The translation of this map in digital form in a GIS-DBMS structure, will allows the availability, for the first time in Italy, of a complete geological database for the whole italian area. This database will supply a scientific and technical guide for in-progress activity of the survey of the new geological map of Italy at the scale 1:50.000 (CARG Project), and for the 3D reconstruction of the main tectonic structures. All the above described potentiality and functions will be ensured by the use of a new digital version of topographic map of Europe at the scale 1:1000.000 (Europe Global Map). This map, realized by the contribute of Istituto Geografico Militare (i.e. Italian Army) according to the EU standards, present in digital (DBMS) forms updated data on elevations, road network, drainage network and main infrastructures, all them organized according a true topography database. The Structural Model of Italy will be more usable thanks to a future web publication that will allow to view and analyze the information directly by a internet connection