

Italian Geological Maps - More than a colored picture

Using geological maps to support better policies for society



PANEL 2C

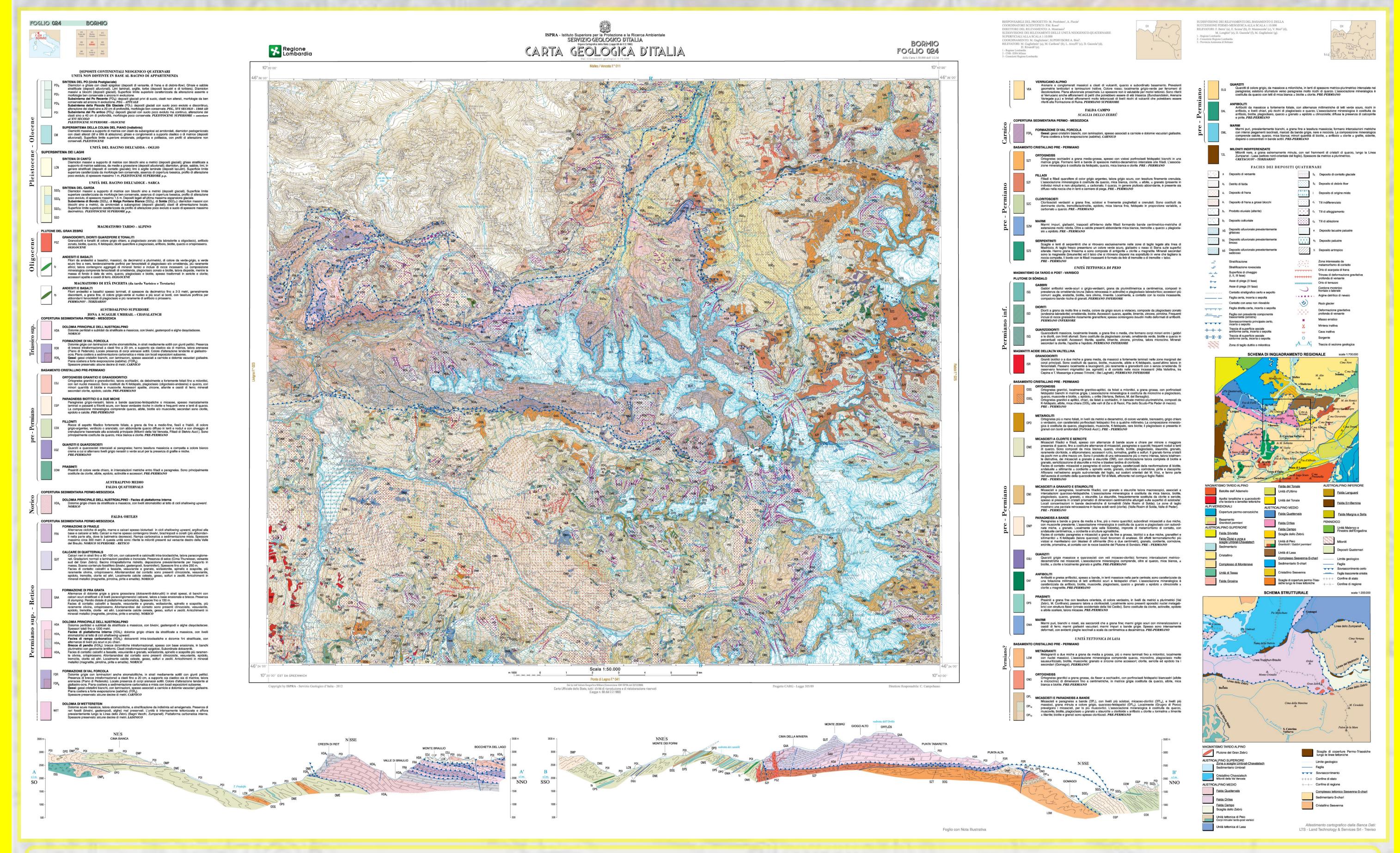
Central Alps: the Austroalpine units From typographical maps to digital databases Understanding geological processes in the XXI Century

Double change with the launch of the CARG Project:

- representation taking into account the development of the Earth Sciences
- 2) Geological data stored in a standardized national GIS 2) database (homogeneous criteria for data collection)

Consequence on the involved teams:

- 1) Updated scientific approach to data collection and 1) Education to the use of GIS for field geologists; hardware and software tools to store data collected by the team of field geologists
 - New approach to data collection and representation: the map is only one of the possible elaborations from the database



Main points:

- Quaternary deposits: a brand new approach (with respect to the previous maps) is followed. Quaternary units are classified as Unconformity Bounded Stratigraphic Unit (UBSU)
- Basement: classification is strongly revised, with the use of tectonometamorphic units and not lithological units. Definition of major tectonic units
- Sedimentary cover: lithostratigraphical classification is still applied, but a lithofacies subdivision (related to
- depositional environments within the same lithostratigraphic unit) is proposed
- 4) Tectonics: a more detailed classification of tectonic contact is proposed (classification of faults according to kinematics)
- Graphic output is the representation of selected data from the GIS database, that can be subject of detailed queries for further geological elaborations
- Georeferenced data: integrations with different types of thematic maps

