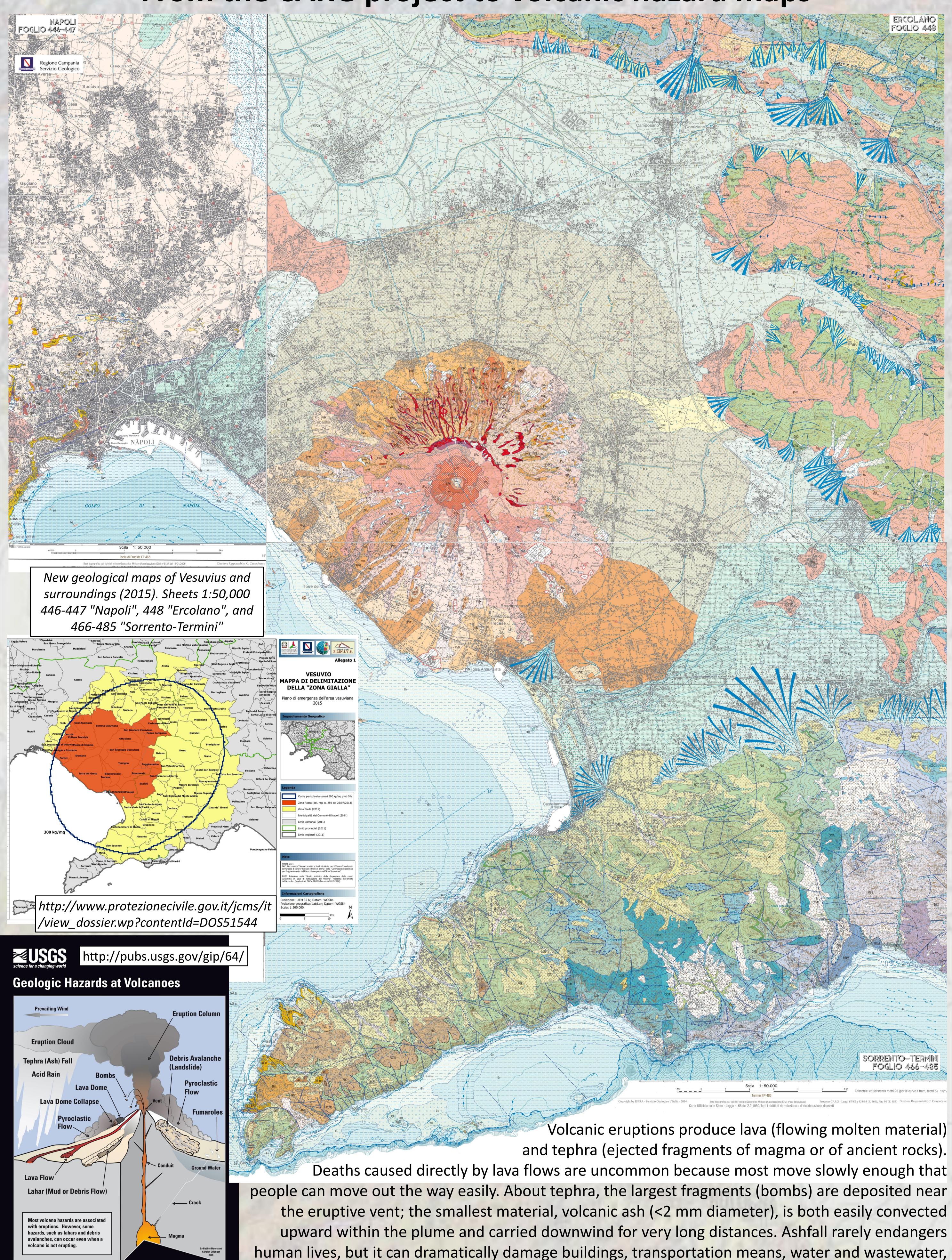


Italian Geological Maps – More than a colored picture Using geological maps to support better policies for society



PANEL 5C

Volcanoes in Italy: Vesuvius From the CARG project to volcanic hazard maps



Volcanic products of an eruption may move also as pyroclastic flow, that represents the most deadly of all volcanic phenomena. Pyroclastic flows contain a mixture of hot lava blocks, pumice, ash and volcanic gas. They move at very high speed (typically greater than 80 km per hour) down volcanic slopes. Volcanoes monitored by observatory networks generally exhibit unrest phenomena that, when detected and analyzed in time, allow eruptions to be anticipated and communities at risk to be forewarned.

http://volcanoes.usgs.gov/index.html

power supply, communications equipment, agriculture. Moreover, as a result of widespread

distribution by wind, ash clouds are a major hazard to aviation.

The Vesuvius Observatory is responsible for monitoring of Vesuvius. It is the oldest volcanology observatory in the world and now is a branch of the National Institute of Geophysics and Volcanology (INGV). In the 2015 the Italian Department of Civil Protection designed an emergency plan around Vesuvius that, moving from CARG geological data, defined a red zone (the area that potentially could be involved by lava and/or pyroclastic flows) and a yellow zone (the area where buildings could collapse under an ash load of 300kg/m²).