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The INGV National Earthquake Centre research infrastructure to study the plate boundary deformation in the Central Mediterranean

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To understand the complex kinematics within the plate boundary zone between Africa and Eurasia in the central Mediterranean, INGV installed a monitoring system based on broad-band seismometers, CGPS and strong motion sensors, most of them co-located in the same site. Established since early '80 with some tens of short period seismometers and analogue transmission, now the monitoring system consists of more than 200 real time broad-band seismometers, 140 CGPS and about 80 strong motions connected to different centres of acquisition. A dedicated disaster recovery guarantees continuity of acquisition and data sharing among centres. Beside essential services connected to Italian Civil Protection agency and basic research, we believe that our network represents an important reality in the framework of the EPOS infrastructure and we strongly support the idea of an European research approach to data sharing among the scientific community. In the presentation we will show the network, from the sites to the acquisition centres, and the level of the seismic and geodetic products and the primary scientific targets addressed when designing the networks.