EUREF 2011 — Chişinău (Moldova)

National Report of Italy

ISTITUTO GEOGRAFICO MILITARE ITALIANO Geodetic Service

GPS DYNAMIC PERMANENT NETWORK

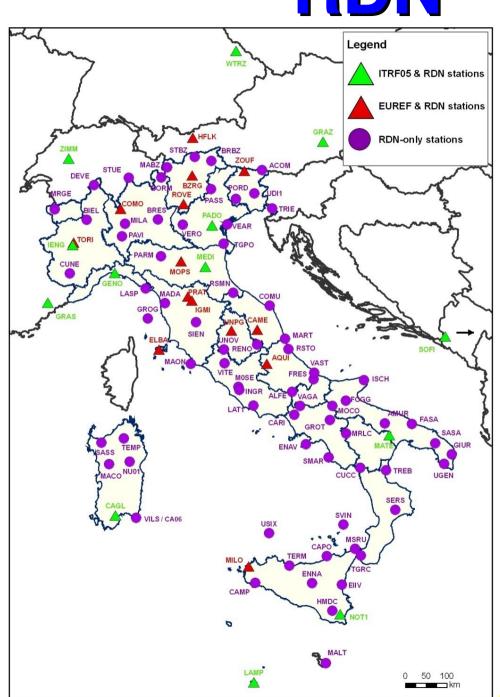


RDN was submitted to Firenze 2009 Symposium for the official endorsement (resolution 1)

The network consists of 99 stations, including 13 EUREF stations (realization ETRF2000 at epoch 2008.0)

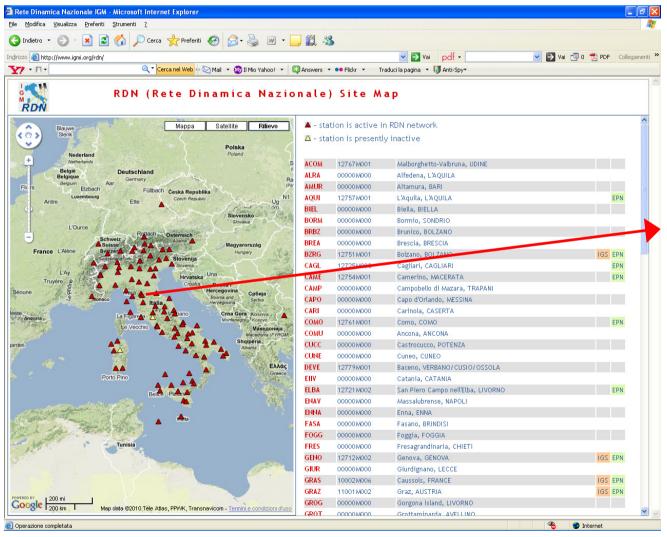
Monitoring computations are performed every 6 months

Comparisons among the original and the monitoring computations show good consistency with the expected crustal movements



GPS DYNAMIC PERMANENT NETWORK

RDN



In the official IGM website:

www.igmi.org

you can find a RDN section with the dynamic graph and the site descriptions of all stations



GPS STATIC NETWORK IGM95

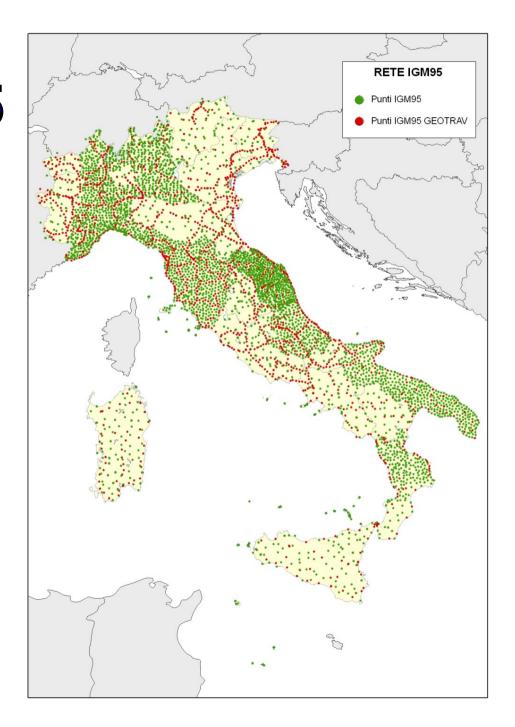
Original network realized from 1990 to 1995: ~1230 points (~450 points, called GEOTRAV, coincident with levelling benchmarks)

Subsequently densificated:

- 1100 GEOTRAV
- 2850 points from regional densification (mean distance 7 km)

At present: ~ 5000 punti

Realization of ETRF89



HIGH PRECISION LEVELING NET

Ancient network (1878-1900)

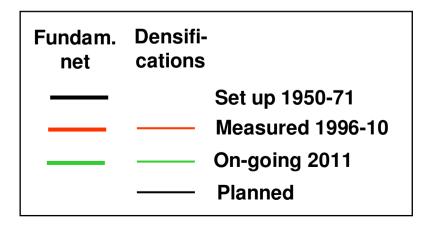
Modern network (1950-1971) 13.000 km

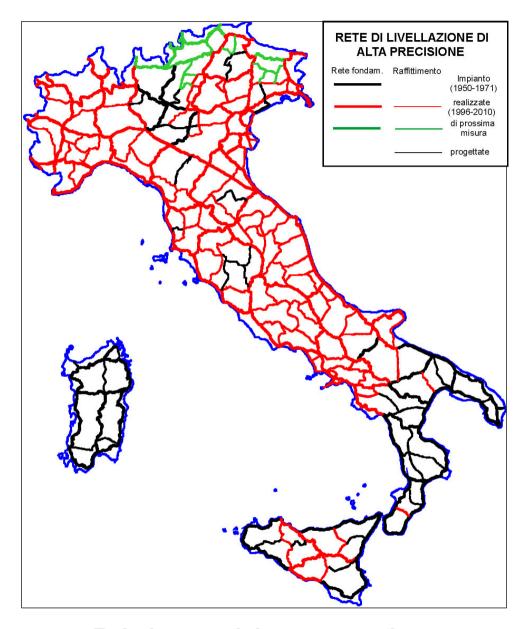
3 tide gauges: Continental Italy: Genova 1942

Sardinia: Cagliari 1956

Sicily: Catania 1965

On-going densification (1996-2011):
 up to 20.000 km





Relative precision: ~ 1 mm/km

Thank you for your attention!

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