

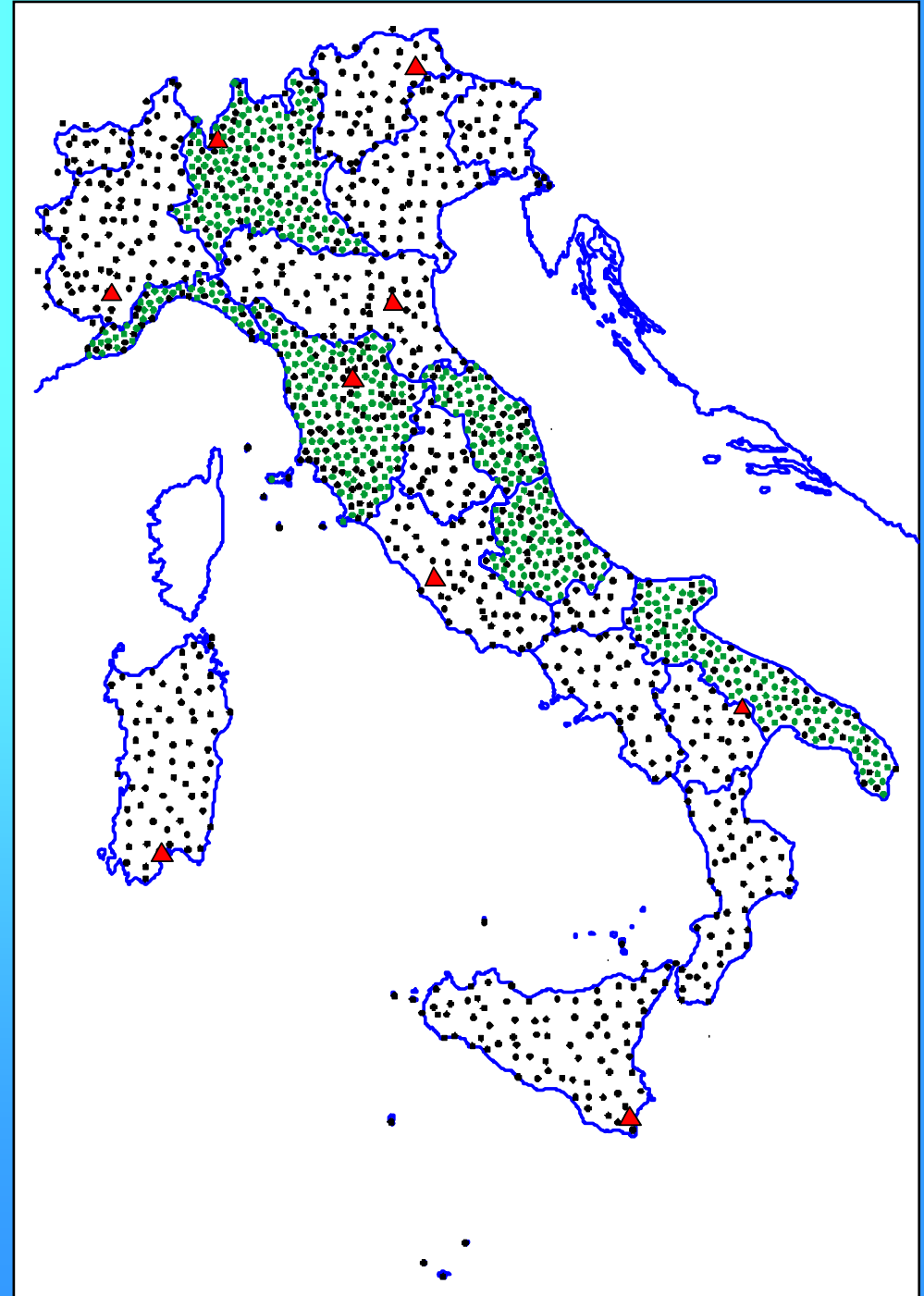
National Report of Italy

- IGM (Geodetic Service)**
- Padova University**
- Italian Space Agency**



GPS NETWORK IGM95 (ETRF89)

- ▲ EUREF points
- IGM95 points
- Densification points





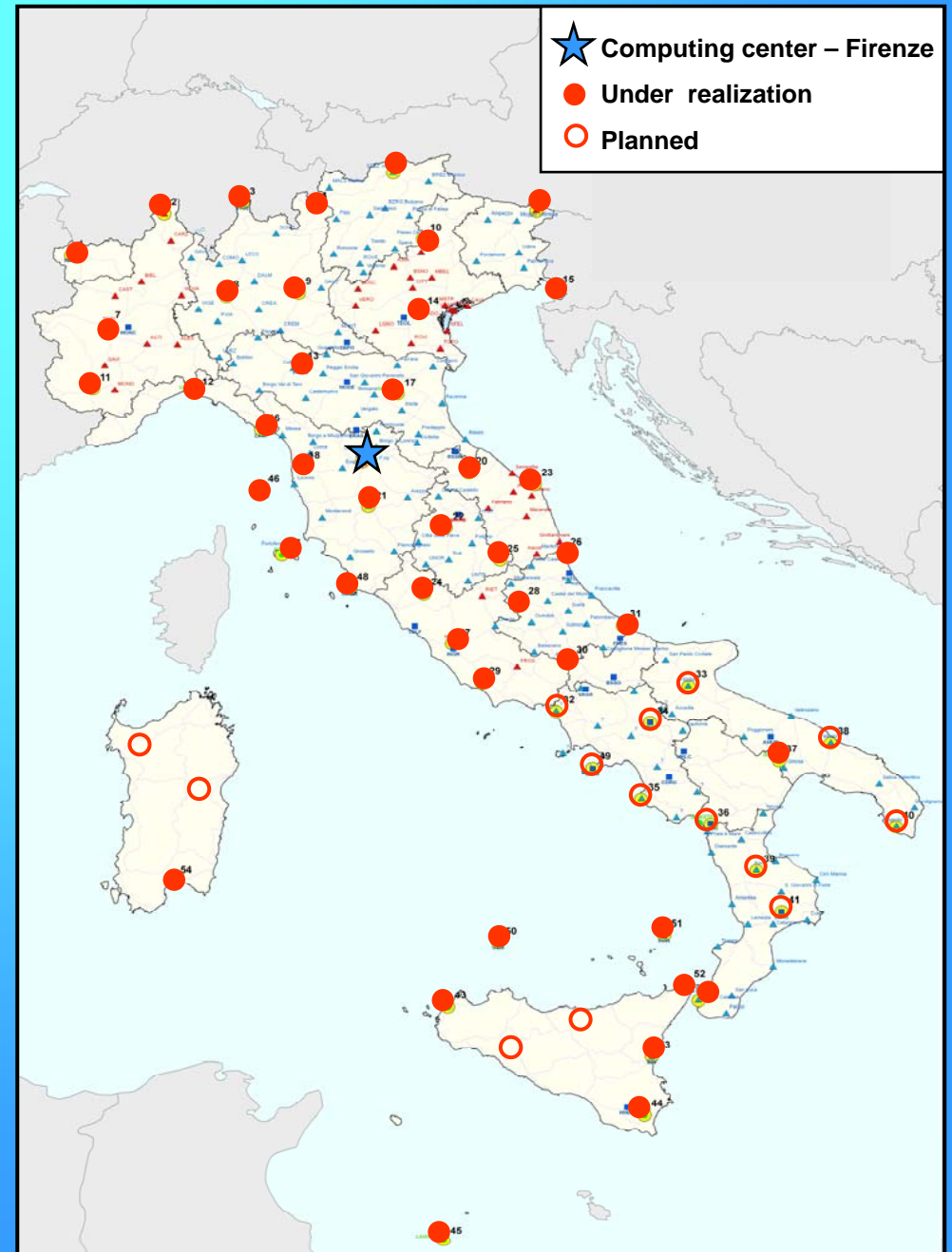
RETEZERO

ITALIAN ZERO-ORDER GPS PERMANENT NETWORK

Main purposes

- Setting up a “back bone” reference on the territory (about 60 stations)
- Monitoring the reference system possible variations







*EUREF Permanent
Tracking Network
Italian stations
submitting hourly data*

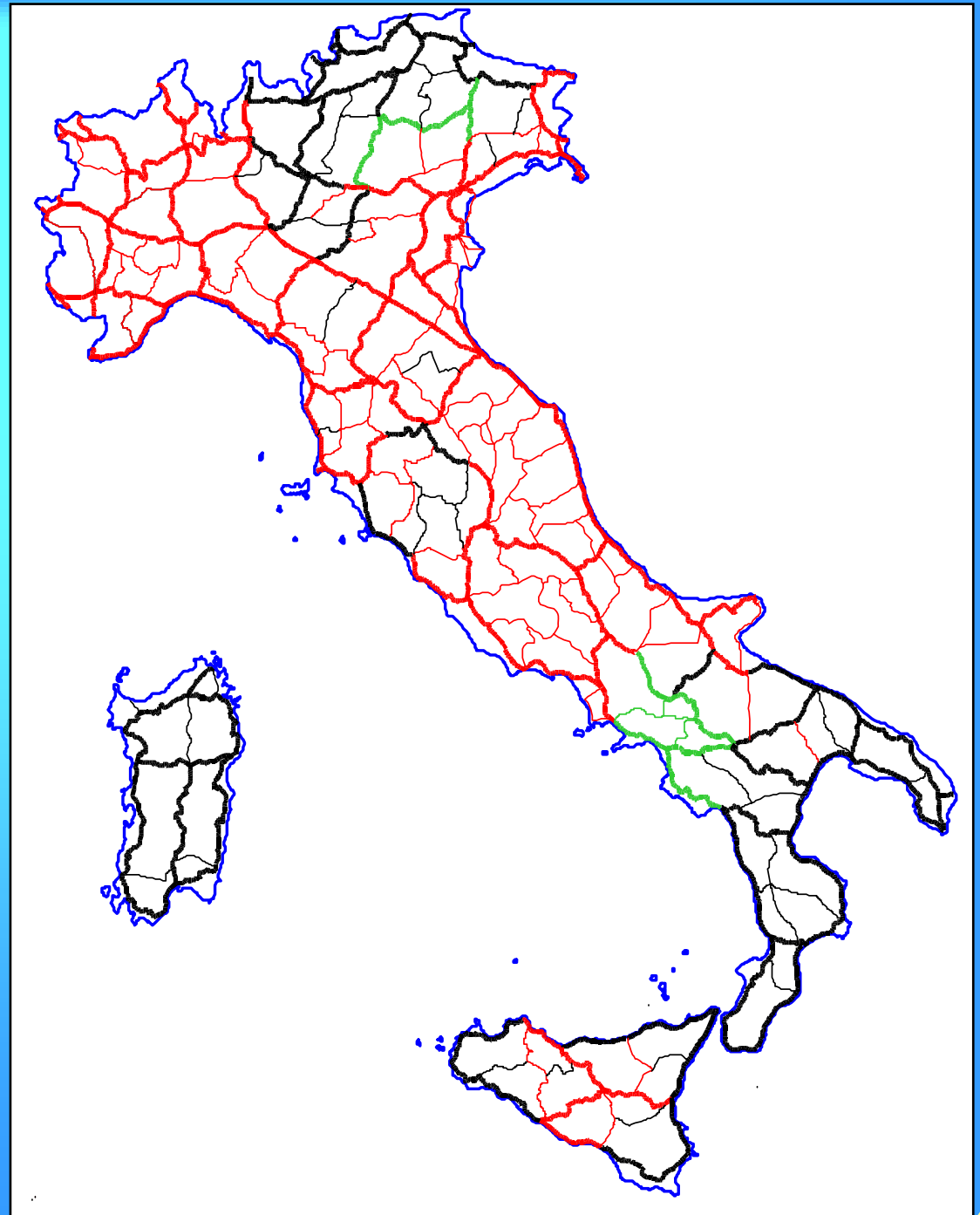


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HIGH PRECISION LEVELING NET

Fundam. net	Densifi- cations	
		Set up 1950-71
		Measured 1996-06
		Ongoing 2007
		Planned





SOFTWARE

for the transformation between Geodetic Datums

Verto1



Verto2+



Verto3



Verto2mila

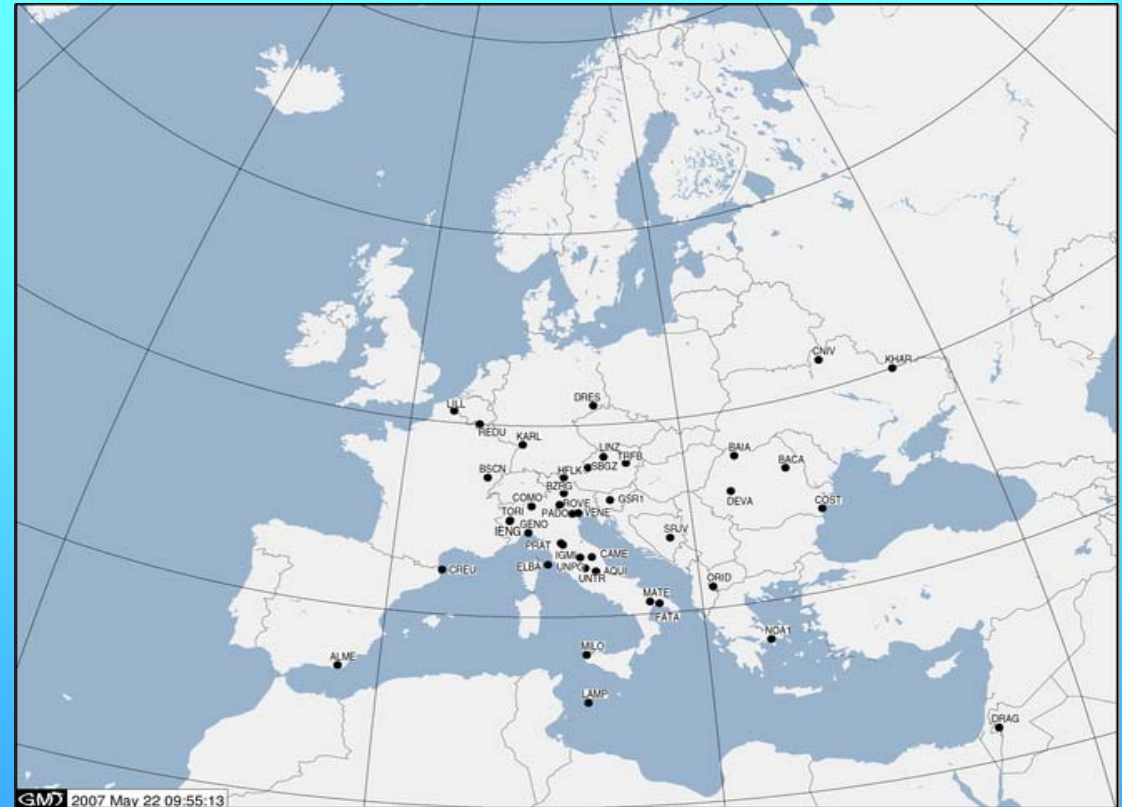


also dealing with
shapefiles



Activities at the University of Padova within EUREF

- Infrastructures
 - Permanent GPS station
PADO: daily and hourly
RINEX files, participates to
EUREF-IP
- Local Analysis Center
UPA:
 - production of weekly SINEX
files;
 - daily SINEX files using rapid
IGS orbits
- Participation in the
activities of the TWG



The UPA subnetwork within the EPN

ASI has been involved in GPS data analysis of regional permanent network since September 1996 when its solutions were incorporated in EUREF.

GPS-Meteo Projects



1999 MAGIC *develop and test the capacity for meteo organizations to benefit from GPS as new data source*

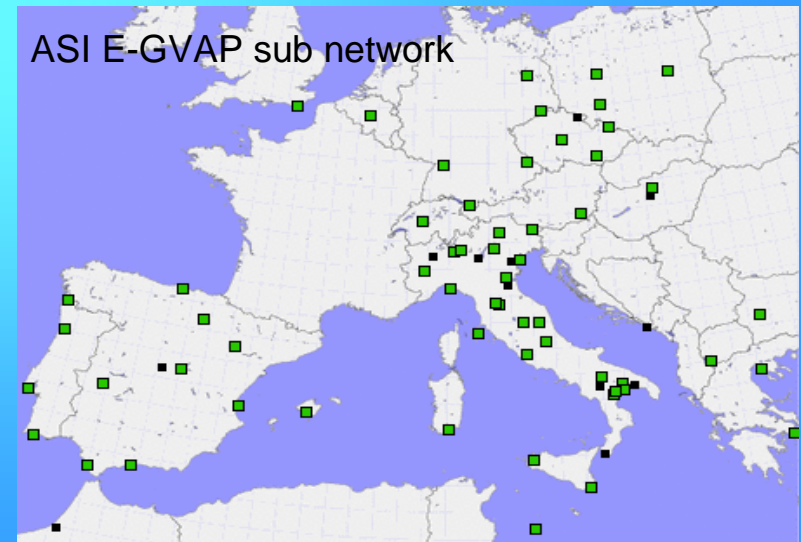
2001 COST-716 *NRT demonstration campaign*

2003 TOUGH *Targeting Optimal Use of GPS Humidity Measurements in Meteorology*

2005 E-GVAP *towards operational use and establishing a GPS delay observing system*



ASI E-GVAP sub network



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