







# WP 1 Coordinator Antonio Avallone

RENEW: stREngthening the National nEtWorks data production

Assigned Budget: 5 M€













# **SUMMARY of Operational Units (OU) and Activities**

OU Short Name	Activity	OU Name	Applicant
OU-06	1.1	INGV Sezione Irpinia - IRP	APPLICANT: INGV
OU-14	1.2	Istituto Nazionale di Oceanografia e di Geofisica Sperimentale - OGS	CO-APPLICANT: OGS
OU-01	1.3	INGV Osservatorio Nazionale Terremoti - ONT	APPLICANT: INGV
OU-15	1.4	University of Genova, DISTAV (Department of Earth, Environment and Life Sciences)	CO-APPLICANT: UNIGE
OU-16	1.5	University of Bari, DiSTeGeo	CO-APPLICANT: UNIBA
OU-09	1.6	INGV Sezione di Palermo - PA	APPLICANT: INGV
OU-11	1.7	ISPRA 01 - Geological Survey of Italy and DG-SINA	CO-APPLICANT: ISPRA



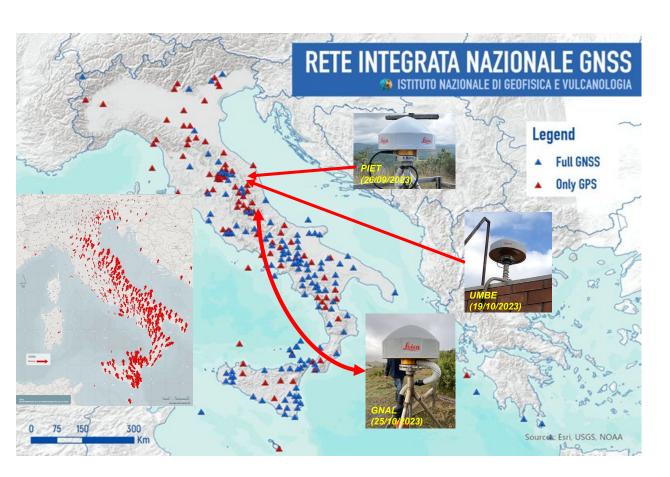








# Activity 1.1 - Strengthening the RING network (Ref. Vicari, INGV-IRP)



# • Personnel:

Hiring of a Technologist and a CTER has been fully and successfully completed

### • GNSS stations:

Tender successfully completed for **58 multi-GNSS** instruments and software licences. Instruments have been delivered and checked.

A few instruments have already been installed and <u>data</u> <u>production already started</u>

Some instruments are planned to be installed for **Campi Flegrei emergency scientific response** 

### NAS server for GNSS data:

Funds transferred at INGVIRP. Procedure hopefully finished within Dec 2023



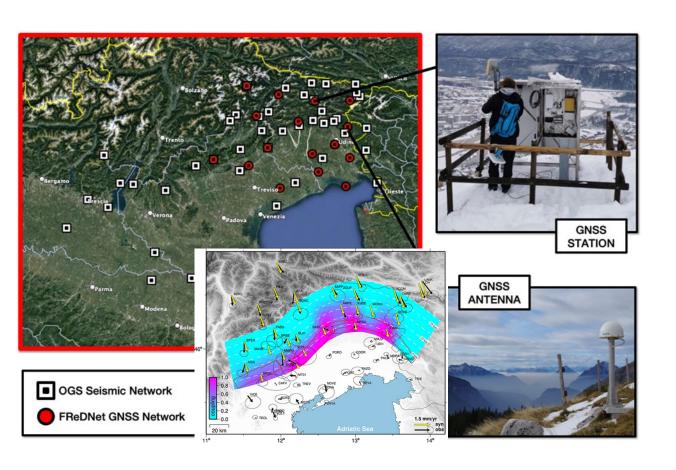








# Activity 1.2 - Strengthening the FReDNet GNSS network & OGS seismic network (Ref. Zuliani, OGS)



- GNSS instrumentation: purchased and delivered (DNSH OK)
- Server for GNSS data: purchased and delivered (DNSH OK)
  - Power and connectivity for GNSS stations:

Procedure started

OGS seismic stations:

Procedure almost at the end











# Activity 1.3 – Strengthening the INGV seismic networks (ref. D'Alessandro/Zuccarello)



# • Personnel for RSN:

Hiring of a Technologist has been fully and successfully completed. Giuseppe Ruzza started from 01/07/2023

### Broadband stations for RSN & RSM:

Tender has been completed and assigned. Delivering and check will start around February 2024.

# • Nodal array for RSM:

Tender has been completed and assigned. Delivering and check will start around February 2024; A new purchase of 1/5 is following;

# • Server for RSN data acquisition:

Consip purchase has been successfully carried out. Delivering and checking will be in January 2024.

# Rotational Seismometers & Gyroscopic Compasses:

Tender was unsuccessful. New purchases wil be tried within Dec 2023.





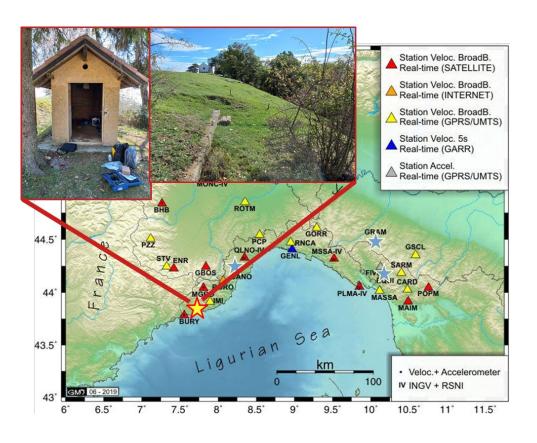








# Activity 1.4 - Strengthening the UNIGE seismic network (Ref. Spallarossa, UNIGE)



# Siting successfully completed

A new site in western Liguria (M.te Bignone – IM, photo on the left) for a permanent seismic station (code GU\_BIGN);

- Finalized siting for a seismic well;
- Renew seismic stations:

Tender started and almost at the end;

# Renovation damaged seismic well:

Procedure started and almost at the end;



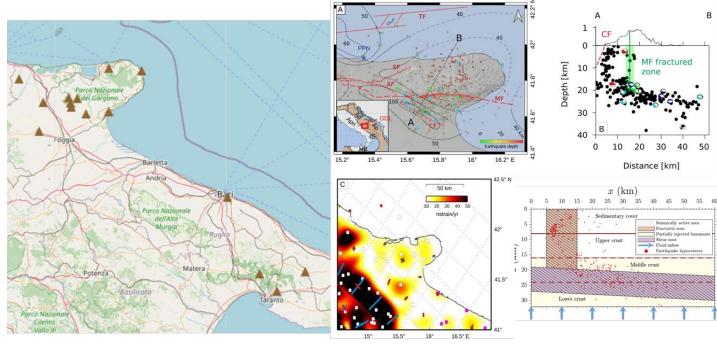








# Activity 1.5 - Strengthening the OTRIONS seismic network (Ref. Tallarico, UNIBA)



Lavecchia et al., 2022

### Personnel:

Hiring of a Technician has been fully and successfully completed

### Broadband seismic stations:

4 stations Purchased and delivered;

### Broadband seismic stations installation:

Tender ended. Works planned to finish within Feb 2024







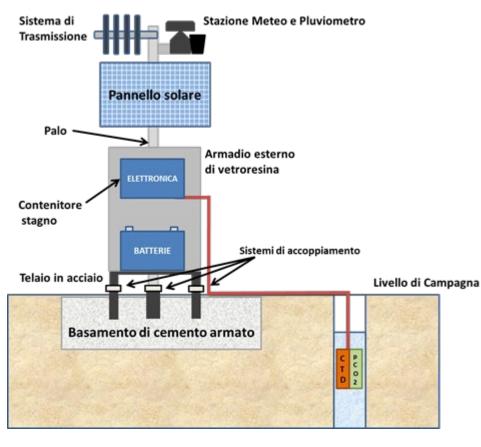




# Activity 1.6 - Developing the Hydrogeochemical network (Ref. Pecoraino, INGV-PA)







# Personnel:

Hiring of a Technician has been fully and successfully completed

# • Hydrogeothermal stations:

Tender completed for 23 modular stations. Equipment should be delivered within a few months

# • Quadrpole:

Funds transferred at INGVPA. Procedure hopefully finished within Dec 2023





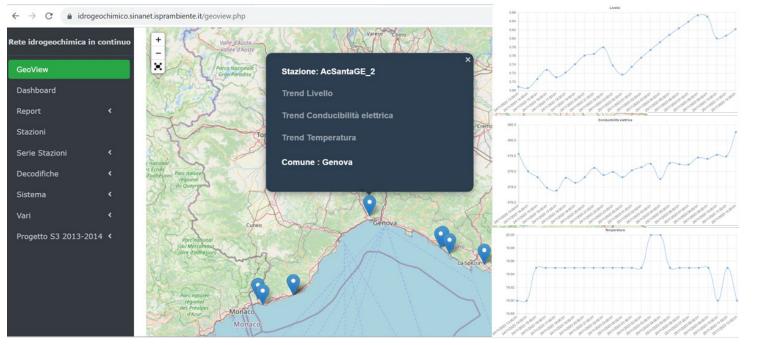






Activity 1.7 - Strengthening the Hydrogeochemical data management Platform

(Ref. Comerci & Cipolloni, ISPRA)



The current SNPA Hydrogeochemical platform

### Personnel:

Hiring of a CTER has been unsuccessful. A new call will be published today (6:00 pm); planned start in March 2024;

# • Hydrogeochemical Data Management platform:

The MongoDB application data platform was purchased, as well as a data backup and archiving system for the hydrogeoch. platform.

### • FAIR principles implementation:

A training and specialist assistance service for the development of APIs for MongoDB Database and for the creation of a FAIR hydrogeochemical data management and visualization platform was awarded.











# WP1 Instruments budget state of the art

Institute	Orig. Budget (VAT incl.)	Used Budget (VAT incl.)	Residual Budget (VAT incl.)
INGV	3.231.297,69 €	2.823.743,52 €	407.554,17 €
ogs	249.856,77 €	214.921,82 €	34.934,95 €
UNIGE	71.916,50 €	71.916,50 €	0 €
UNIBA	114.842,90 €	110.000,00 €	4842,9 €
ISPRA	345.175,00 €	340.671,87 €	4503,13 €
Total	4.013.088,86 €	3.561.253,71 €	451.835,15 €

Some purchases (activities INGV 1.3, 1.6; OGS, UNIGE, UNIBA) have some delays but most of the budget should be used within Dec 2023

### **Criticalities**

# **WP1 Personnel state of the art**

Most of the planned hiring (2 Technologists, 2 CTERs, 1 Graduate Technician) have been successfully completed.

Only two positions' calls failed: 1 CTER for INGV ONT & 1 CTER for ISPRA. For the latter the call has been opened again.

