



ISTITUTO NAZIONALE DI GEOFISICA E VULCANOLOGIA

**Istituto Nazionale di Geofisica
e Vulcanologia
AOO INGV**

Protocollo Generale - U

N. 0001517

del 02/02/2018



Gestione WEB

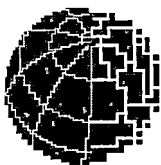
il Direttore

Ai Direttori di Struttura
Ai Direttori di Sezione
Al Responsabile Centro Servizi – Ufficio per il Coordinamento
delle attività a Supporto della Ricerca
Alla Segreteria della Presidenza

Oggetto: Pubblicità atti

Si notifica in copia l'allegata Delibera n. 537/2018 del 23/01/2018 – Allegato P al Verbale n. 01/2018 concernente: Memorandum of Understanding tra l'Istituto Nazionale di Geofisica e Vulcanologia (INGV) e CNR-IIA, BRGM.

TULLIO PERE



Istituto Nazionale di Geofisica e Vulcanologia

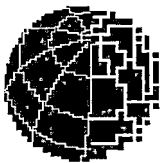
Delibera n. 537/2018

Allegato P al Verbale n. 01/2018

Oggetto: *Memorandum of Understanding* tra l'Istituto Nazionale di Geofisica e Vulcanologia (INGV) e CNR-IIA, BRGM.

IL CONSIGLIO DI AMMINISTRAZIONE

- **VISTO** il Decreto legislativo 29 settembre 1999, n. 381, concernente la costituzione dell'Istituto Nazionale di Geofisica e Vulcanologia (INGV);
- **VISTA** la Legge 27 settembre 2007, n. 165, concernente la "Delega al Governo in materia di riordino degli Enti di Ricerca";
- **VISTO** il Decreto legislativo 31 dicembre 2009, n. 213, concernente il "Riordino degli Enti di Ricerca in attuazione dell'art. 1 della Legge 27 settembre 2007, n. 165";
- **VISTO** il Decreto legislativo 25 Novembre 2016, n. 218, recante "*Semplificazione delle attività degli Enti Pubblici di Ricerca ai sensi dell'art. 13 della Legge n. 124/2015*";
- **VISTO** lo Statuto dell'Istituto Nazionale di Geofisica e Vulcanologia approvato con delibera del Consiglio di Amministrazione, in data 11 novembre 2010 - pubblicato sulla Gazzetta Ufficiale della Repubblica Italiana - Serie Generale n. 90 del 19 aprile 2011 in particolare l'art. 6 comma 8 lettera s) il quale prevede che il CdA*approva le convenzioni e gli accordi quadro con le Università e con gli altri enti e organismi pubblici e privati, nazionali e internazionali*;
- **VISTO** il Regolamento di Organizzazione e Funzionamento dell'Istituto Nazionale di Geofisica e Vulcanologia emanato con Decreto del Presidente n. 503 del 14/10/2016 e pubblicato sul sito istituzionale;
- **VISTO** il Regolamento di Amministrazione, Contabilità e Finanza pubblicato sulla Gazzetta Ufficiale della Repubblica Italiana - Serie Generale n. 113 del 18 maggio 2009;
- **CONSIDERATO** che in data 01.06.2013, ha avuto inizio il progetto MED-SUV, GA 308665 (MED-SUV, GA 308665), con l'obiettivo di applicare la logica dell'iniziativa Supersites GEO ai Campi Flegrei / Vesuvio e al Monte Etna per ridurre il rischio vulcanico, migliorando la comprensione dei processi geofisici sottostanti, attraverso l'integrazione e la condivisione dei set di dati *in-situ* e *Earth Observation* (EO) e l'implementazione di nuovi strumenti;
- **VALUTATA** l'opportunità di sottoscrivere *Memorandum of Understanding* tra l'Istituto Nazionale di Geofisica e Vulcanologia (INGV) e CNR-IIA, BRGM.
- **CONSIDERATO** che le Parti, con il presente *Memorandum of Understanding*, istituiscono una cooperazione tra Pubbliche Amministrazioni, ai sensi dell'articolo 15 della legge 7 agosto 1990, n. 241, finalizzata a garantire il conseguimento dell'interesse pubblico nella ricerca scientifica;
- **CONSIDERATO** che l'attività da espletare rientra tra i compiti scientifici e istituzionali dell'INGV;



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- VISTI i pareri favorevoli dei Direttori di Sezione e di Struttura,

DELIBERA

L'approvazione dello schema del *Memorandum of Understanding* tra l'Istituto Nazionale di Geofisica e Vulcanologia (INGV) e CNR-IIA, BRGM, allegato alla presente quale parte integrante e sostanziale (allegato 1).
Viene dato mandato al Presidente alla sottoscrizione definitiva dell'atto in questione.

Letto, approvato e sottoscritto seduta stante.

Roma, 23/01/2018

La segretaria verbalizzante
(Sig.ra Silvana TUCCI)

Silvana Tucci

IL PRESIDENTE
(Prof. Carlo DOGLIONI)

MED-SUV Memorandum of Understanding to maintain the main monitoring systems and e-infrastructure

1 Preamble

The aim of this document is to define the perimeter of collaboration among the parties below identified in order to guarantee the accessibility and reuse of the data (and services) building the monitoring system, where for the monitoring system is intended data bases, and IT systems for data/product/service access.

The parties are:

- Istituto Nazionale di Geofisica e Vulcanologia (INGV), as in-situ data provider, manager of the MED-SUV portal and of the Italian Supersites, as well as coordinator of the Italian Supersites, hereinafter referred to as the "Coordinator";
- Consiglio Nazionale delle Ricerche, Istituto sull'Inquinamento Atmosferico (CNR-IIA), as provider of the brokering system;
- Bureau de Recherches Géologiques et Minières (BRGM) as manager of the MED-SUV web-site;

INGV, CNR and BRGM are hereinafter individually referred to as the "Party" and jointly as the "Parties".

2 Background

On 1 June 2013 the EC-FP7 MEDiterranean Supersite Volcanoes (MED-SUV; GA n. 308665) project started his activities, hereinafter referred to as the "Project". The Project has lasted three (3) years and has been coordinated by INGV. The overall goal of the Project was to apply the rationale of the Supersites GEO initiative to Campi Flegrei/Vesuvius and Mt. Etna to reduce the volcanic risk by improving the understanding of the underlying geophysical processes, through the integration and sharing of the in-situ and Earth Observation (EO) data sets and the implementation of new instruments.

The background of this Memorandum of Understanding, hereinafter referred to as the "MoU", refers to two main key elements from which derive relevant commitments:

- i. the Project's work plan and
- ii. the appointment of Etna, Campi Flegrei/Vesuvius as Permanent Supersites.

The DoW of the Project foresees:

- The design and development of "MED-SUV multidisciplinary interoperability e-infrastructure applying the GEOSS principles ..." (Task 3.4, led by CNR-IIA)
- The implementation of a web-site. A Project website will be set up and maintained by the consortium. It will serve within Project partners as an access point to the Project shared documents and a link to the digital data infrastructure for a better team efficiency; it will provide a public visibility beyond the project framework through newsletters and articles ... (Task 8.1, led by BRGM).
- The ways how to link the e-infrastructure and the web-site of the Project: The Project website and its content will be transferred if necessary to the digital infrastructure. (Task 8.5, led by BRGM).

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- The implementation of a "Legal and Strategic Deliverable" in which state ... the Memorandum of Understanding to maintain the main monitoring systems and e-infrastructure... (Task 1.2, led by INGV).

All these activities foreseen in the DoW define an integrated system suitable to access the data and information of the Italian Supersites.

On 4 October 2013, in the framework of the GEO - Geohazard Supersite and Natural Laboratory (GSNL) initiative, INGV submitted a proposal to the Scientific Advisory Committee (SAC) to establish Mt. Etna and Vesuvius/Campi Flegrei volcanoes as Permanent Supersites.

- On 17 October 2013, the GSNL-SAC approved the proposal, according to the following provisions:
 - That INGV "... provides new and archived seismic data following FDSN standards, and new and archived GPS data by participating in GSAC WS"
 - That Seismic and GPS data relevant to the Permanent Supersite "... will be available through European Supersite effort", i.e. the EC-FP7 MED-SUV project.
 - That the Supersites will be reviewed every two years for continued relevance to the GSNL objectives.
- The GSNL-SAC recommended the Committee on Earth Observing Satellites (CEOS) to support the INGV request of EO data according to the criteria for accepting new Permanent Supersites
- On 27 May 2014, CEOS accepted Mt. Etna and Vesuvius/Campi Flegrei volcanoes as Permanent Supersites by defining the budget of EO data and fixing the date of the first review at the end of 2016

Considering the above premises, INGV undertakes to maintain through in-kind contributions (to be defined in a later proper written document) the "monitoring system" implemented in the Project of the Italian Supersites, i.e. Mt. Etna and Vesuvius/Campi Flegrei volcanoes, consisting in the web site, the e-infrastructure and the databases, as below detailed.

3 Purpose

Aside the INGV commitment with the Italian Civil Protection system, the Parties recognise the benefits for the geohazard community to be derived from increased collaboration, cooperation and interaction in the framework of the GEO-GSNL initiative, and in particular in the implementation of the Supersite vision in the Italian Supersites, Mt. Etna and Vesuvius/Campi Flegrei volcanoes. This document sets forth the components of the e-infrastructure and the monitoring system of the Italian Supersites as well as the role and responsibility of each Party in using their reasonable efforts to maintain and - potentially - improve the monitoring system.

4 Recognition

The Project web-site consists on the following elements:

- The Portal, which is the IT element allowing the discovering and exploring of the information managed by the web-site;
- The group of documents concerning the Project, accessible to any user, which contains the information on the work plan, the description of the sites, the dissemination documents, etc., managed by BRGM;

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- The Collaborative Area, accessible only to the Project consortium participants, which contains the documents relevant to the Project's activities (deliverables, templates, minutes of the governance bodies, etc.) managed by INGV.

To ensure the visibility of the Project after its end, the Parties plan to maintain the website in its actual form for two (2) extra years following the end of the Project. For the purpose the hosting and the URL of the website will be paid in advance for the determined duration.

In order to avoid the loss of its attractiveness, the Parties agreed that the website will be integrated in a broader and more perennial structure.

To this aim, after the closure of the actual website, the main content of the Project website will be integrated on the data platform hosted by INGV and on a Project page hosted on the BRGM institutional website: <http://www.brgm.eu/scientific-output/projects/liste-projects>.

The URL (med-suv.eu) can be prepaid for a longer period (about 5 years) and be redirected to INGV or EPOS-IP platform in order to ensure continuity for the visitors of the website.

The e-infrastructure is a digital infrastructure allowing the discovery and access to the data sets of the monitoring system. It operates through a portal and a search tool based on the brokering approach; the first was implemented and is managed by INGV; the second by CNR-IIA.

The databases include both in-situ and EO data.

INGV hosts the in-situ data bases and provides data of the in-situ networks according to the provision of the Project consortium agreement. At the present stage of development, the in-situ databases include seismic (both terrestrial and marine), GPS, thermo-camera, tilt, and hydrophone data. Other in-situ data concerns some results of the Project provided by other partners.

The EO data are provided in the framework of the CEOS provision. They are hosted in the Space Agencies' databases, in case of ESA and DLR data, and INGV databases, in case of ASI and NOAA data, depending on the specific data policies and access rules.

The data policies of the data archived in the data bases are provided by the data owners, according to their data policies, which in overall are in agreement with that established in the framework of the Project data policy (D1.2).

5 Roles and Responsibilities

Owing to its statutory role of the national research institution in charge of the geophysical and volcanological monitoring of Italian territory, INGV is the institution responsible for the management of the Italian Supersites. It implies that INGV has to guarantee the provision, update and maintenance of the in-situ databases. At the present, the databases correspond to that agreed in the consortium agreement of the Project. INGV is also responsible of the maintenance and upgrade of the portal allowing the users to access to the databases as well as the interoperability with the EPOS TCS Volcano Observations. As responsible of the Italian Supersites, INGV coordinates the application of this MoU and will take care of the relevant activities.

The CNR-IIA that implemented the brokering service for searching the data in the web resources, currently operating at their own compositional resources, will provide support and guidance for the interoperability with GEO-GEOSS portal on a best effort basis. Moreover, it will share with INGV the knowledge needed to maintain the brokering service in order to ensure the sustainability of the Project portal.

INGV will maintain the Supersite database in the framework of the GSNL GEO initiative. Moreover, the outcomes of the Project will contribute to the implementation of the thematic

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services of EPOS-IP. For the purposes any further changes in the structure of the database or the ways to access to the information will be agreed with the GSNL GEO initiative, at global level, and with EPOS-IP, at European level.

The use of the Project foreground data after the end of the Project will be protected by the rules of use detailed in the Project data policy guidelines (D1.2, table 4: Use, Transfer and Dissemination of MED-SUV Foreground, and this document, D1.5, Section 1.0).

6 Validity and Duration

The MoU shall be effective upon signature by the last of the Parties shall remain in force for a period of 2 years. Thereafter, the Parties may renew it upon written agreement.

7 Disputes

The parties agree that this contract is entirely subject to Italian law which governs its conclusion, execution and termination, and will be interpreted according to which, even at the end of the resolution of disputes arising therefrom.

8 Signatures

In witness whereof, the parties to this MoU through their duly authorized representatives have executed this MoU on the days and dates set out below, and certify that they have read, understood, and agreed to the terms and conditions of this MoU as set forth herein.

INGV

[Name and Title] Date

CNR-IIA

[Name and Title] Date

BRGM

[Name and Title] Date

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