







WP 3 Coordinators Piergiorgio Scarlato Francesca Funiciello

Assigned Budget: 10 M€











WHO WE ARE?













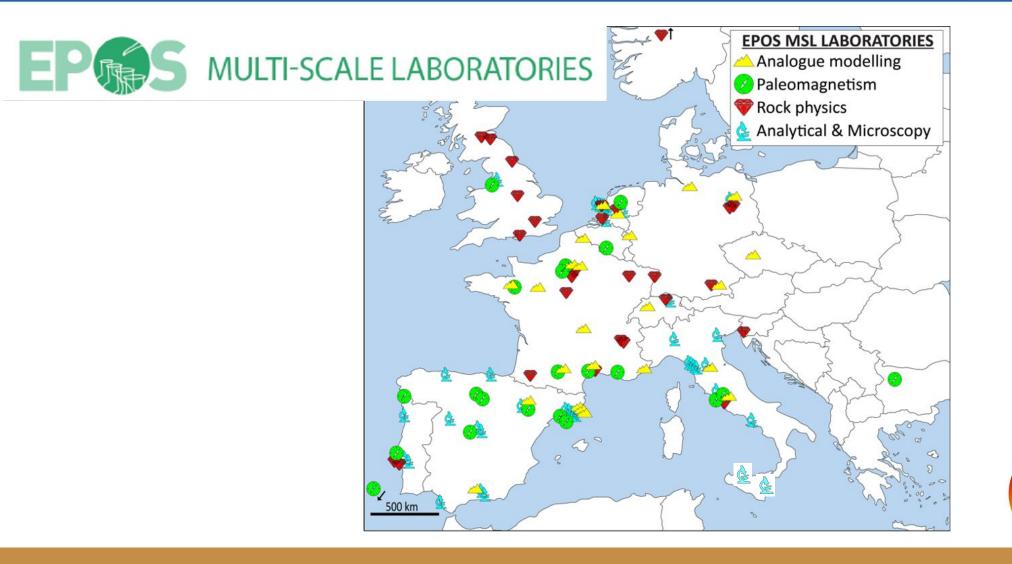






















Laboratory of Experimental Tectonics Università Roma TRE Francesca Funiciello Laboratory of Paleomagnetism Università Roma TRE Francesca Cifelli Laboratorio di Core Logging OGS – Università di Trieste Andrea Caburlotto LA-ICP-MS Laboratory CNR – IGG sezione di Pavia Alberto Zanetti Ar-Ar Geochronology Laboratory CNR – IGG sezione di Pisa Gianfranco Di Vincenzo CNR – IGG sezione di Firenze Marco Bonini TOOL Lab - Tectonic Modeling Laboratory Archaeomagnetic Laboratory CNR – IGG sezione di Pisa Claudia Principe Fluid-geochemistry laboratories INGV - Osservatorio Vesuviano Stefano Caliro Micro-CT laboratory INGV - Osservatorio Vesuviano Lucia Pappalardo Isotopic geochemistry laboratory INGV - Osservatorio Vesuviano Ilenia Arienzo SEM and FTIR laboratory INGV - Osservatorio Vesuviano Monica Piochi INGV - Osservatorio Vesuviano Angela Mormone X-Ray Diffraction laboratory Reflection Seismology Laboratory "SismoLab-3D" INGV - Sezione Roma1 Roberto Basili Fluid Geochemistry Laboratory INGV - Sezione Roma1 Alessandra Sciarra Giuseppe Di Stefano New Technology and Instruments laboratory INGV - Sezione Roma1 Paolo Marco De Martini Geology and Geotechnologies Laboratory INGV - Sezione Roma1 HPHT of experimental Volcanology and Geophysics **INGV - Sezione Roma1** Piergiorgio Scarlato Site effects Laboratory INGV - Sezione Roma1 Giovanna Cultrera X-ray Laboratory INGV - Osservatorio Etneo Lucia Miraglia Sedimentology Laboratory Daniele Andronico INGV - Osservatorio Etneo Laboratory of Paleomagnetism INGV - Sezione Roma 2 Aldo Winkler Stable Isotopes Lab INGV - Sezione di Palermo Giorgio Capasso Andrea Rizzo Noble gas Lab INGV - Sezione di Palermo Laser Ablation-ICP-MS lab INGV - Sezione di Palermo Antonio Paonita Trace elements lab INGV - Sezione di Palermo Lorenzo Brusca Ion chromatography Laboratory INGV - Sezione di Palermo Seraio Bellomo Optical Microscopy and Scanning Electron Microscopy INGV - Sezione di Pisa Claudia D'Oriano Sedimentology and Volcanology Labs INGV - Sezione di Pisa Alessio Di Roberto

ILGE

n°34 Laboratories

• n°95 Researchers/Technicians











WHAT WE DO?

Physics, petro-physics, chemistry of sediments-rocks-minerals-magma	Consiglio Nazionale delle NGV
Analogue modelling of geological processes	Consiglio Nazionale delle Ricerche
Dynamics of faults and eruptions	ROMA TRE Consiglio Nazionale delle Ricerche
Geochronology	GV
Paleomagnetism	RE RE













MAIN GOALS



1 - **integration and implementation** of existing national research infrastructures to increase their international competitiveness;

2 - **optimization of the use of national laboratories** by structuring policies and consolidating protocols aimed at maximizing the use of their resources (i.e., data and facilities);

3 - **reduction of fragmentation and duplication of "large" instruments** to rationalize investments of the Italian research;

4 - support the **mobility** of researchers, students (i.e., degree and doctorate) and technicians between the different infrastructures.





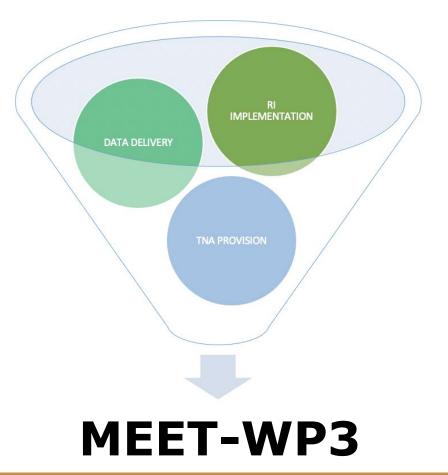








ACTIVITY DESCRIPTION













PILLAR#1: RI IMPLEMENTATION

ILGE will strengthen the national research scenario by implementing a solid network of experimental and analytical RI characterized by transversal competences.



modernized ILGE

- advance national research capabilities far beyond the present state
- assume a leading international role in Solid Earth Science











integrated laboratories for geosciences and environment

PILLAR#1: RI IMPLEMENTATION











PILLAR#2: DATA DELIVERY



WHAT DID THE MSL ENTHUSIASTS SETUP FOR THE WHOLE COMMUNITY?

- Development of metadata standards for each discipline if not existing ("enhanced" metadata for data discovery)
- Identification of MSL metadata field in INSPIRE keywords (Geology, Hazard and Risk) and definition of remaining fields
- Development of a central TCS "Portal" with API for communication with ICS (U Utrecht)
- Metadata generation for data and data products via an XML Metadata Editor (or scripts, GFZ)
- Data access via DOI-referenced data publications through data repositories (e.g. GFZ Data Services)













PILLAR#2: DATA DELIVERY MSL Dataset Portal

Order but Distances

Utrecht University

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MSL Metadata Catalogue



ILGE laboratories and WP 11 will setup a national hub

with a fully operational data publication chain tailored to the specific needs of experimental research, through the dedicated Findable, Accessible, Interoperable, Reusable (FAIR) data service.







https://epos-msl.uu.nl









la oratories foi geosciences environmen

PILLAR#3: TRANS NATIONAL ACCESS PROVISION

PNIR 2021-2027

ESFRI

3.2 L'accesso¹⁵

Le IR sono e devono essere elemento fortemente attrattivo per i ricercatori di tutto il mondo, rappresentando il luogo fisico o virtuale aperto a tutti, per poter condurre ricerche d'avanguardia, sperimentare, crescere ed innovare. L'accesso offerto dalle IR con la possibilità di fruire di dati, attrezzature, servizi ed expertise diversi per condurre studi ed esperimenti scientifici ha un ruolo decisivo nel far avanzare le frontiere della conoscenza nei vari settori, con la creazione di saperi orientati a sfide sociali globali che mai come ora richiedono approcci e metodi innovativi.

Con l'accesso aperto ai risultati (dati, articoli, standard, procedure, strumenti ecc.) e alle facility, dove svolgere e perfezionare la ricerca, le IR si impegnano a svolgere un ruolo rilevante nell'attuazione della Strategia sulla Scienza Aperta promossa dalla Commissione europea per migliorare la circolazione delle conoscenze e l'innovazione.

L'accesso alle IR rappresenta anche per il settore privato un'opportunità unica per utilizzare le migliori tecnologie e competenze esistenti, creare e testare nuovi prodotti e servizi per il mercato, risolvere problemi tecnici suscettibili, diversamente, di rallentare lo sviluppo di attività imprenditoriali innovative e altamente competitive.

È dunque opportuno promuovere un accesso sempre più aperto e sostenibile, favorendo le diverse tipologie e modalità di accesso esistenti. Le IR, ognuna con caratteristiche e combinazioni proprie, offrono essenzialmente tre diversi tipi di accesso:

- l'accesso virtuale a dati, strumenti e prodotti digitali, forniti direttamente attraverso la Rete e le infrastrutture di comunicazione,
- l'accesso fisico a laboratori e facilities, che si realizza quando l'utente visita di persona
 i siti dell'infrastruttura di ricerca e ha modo di usare in loco attrezzature e
 strumentazioni, ricevere training e supporto da parte di personale specializzato.
- l'accesso remoto a risorse, strumentazioni e servizi, quando l'utente, pur non essendo presente in loco nella facility di interesse, ha la possibilità di fruire di servizi specifici e utilizzarne le attrezzature a distanza.

Occorre incentivare e supportare il programma di accesso alle IR



RIs based on physical or remote access should continue to offer services on an excellence basis in line with European Charter for Access to Research Infrastructures (e.g. access should be granted according to the quality of proposals submitted by the relevant research community and evaluated following a process of peer review). For each RI, a proper balance must be found between RI member and non-member access as well as priority, excellence-based, and fee-based access. RIs based on virtual access should offer services on an open and FAIR basis.

With the support of ESFRI, the MS/AC are invited to promote the convergence of national policies and frameworks on RI access and funding models; to reduce the overhead of establishing and operating (especially distributed) RIs and thereby facilitating transnational access. Furthermore, the EC and MS/AC are invited to consider additional, sustainable funding models, complementing the existing funding model, which approaches (transnational) access.

The EC and MS:AC are invited to make RI access costs eligible for an expanded set of funding sources, including national funds, European structural and investment funds, and appropriate EC framework funds (e.g. all Pillar 1 and Pillar 2 instruments in Horizon Europe).

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Transnational access to European Research Infrastructures	Research infrastructures are facilities, resources and services used by the science community to conduct reach and roser inovation.
European Research	Research Infrastructures are facilities, resources and services used by the science community to
European Research Infrastructures	Research infrastructures are facilities, resources and services used by the science community to conduct research and foster innovation.









PILLAR#3: TRANS NATIONAL ACCESS PROVISION

Service allowing for physical and virtual access of users to the ILGE network of laboratories providing financial support for both the host laboratories and the mobility of researchers and students.



ILGE's competence based on:

- organization of three MSL-EPOS pilot calls (2017, 2018, 2019);
- organization of the service in the EXCITE project (call INFRAIA);
- definition of infrastructure access rules at national/international level.











PILLAR#3: TRANS NATIONAL ACCESS PROVISION



- 1st year: definition of infrastructure access rules at national/international level. Realisation of the digital platform to manage the calls (--> WP11).
- 2nd year: organization of a MLS-EPOS pilot call.
- 3rd year: organization of a MLS-EPOS call.











