

EPOS: European Plate Observing System

Research Infrastructure and E-Science for Data and Observatories on Earthquakes, Volcanoes, Surface Dynamics and Tectonics.

ANNEX 1 Extended description of the Participating Institutions

This proposal has been submitted by Italy to the ESFRI Environment Expert Working Group. The following Member States participated to the preparation of first draft of the EPOS proposal: Italy, France, Germany, United Kingdom, Switzerland, The Netherlands, Denmark. The present document describes the integration plan to include other 6 countries in the EPOS partnership: Turkey, Greece, Romania, Iceland, Norway and Portugal. It is important to remind that the conception phase of EPOS matured from existing European infrastructures, networks and projects.

In this Annex we will present in detail:

- o The Coordinating Institution within each of the Member state participating to EPOS, which will harmonize the national team.
- o The Participating Institutions that agreed to join EPOS forming the national teams
- o The Associated Institutions that participate to EPOS through the projects and the infrastructures

which contributed to the conception phase. This participation strategy will be presented separately for each Member State.

1. Italy.

- Coordinating Institution: Istituto Nazionale di Geofisica e Vulcanologia (INGV).
 - Participating Institutions. National team composed by:
 - o INGV (Geophysical, volcanological and geodetic monitoring, rock physics and geochemists laboratories) (www.ingv.it)
 - o AMRA scarl -Center of Competence in the field of Analysis and Monitoring of Environmental Risk. Public Research Consortium (www.amracenter.com) (in-situ seismic monitoring: the Irpinia fault test site) [includes University of Naples, and other Universities and Institutions of Campania Region]
 - o Dipartimento di Scienze della Terra, University of Trieste (regional seismic network: the Friuli test site) (<http://www.dst.units.it/RAF06/>)
 - o Centro di Ricerche Sismologiche INOGS Trieste (regional seismic and geodetic network: eastern Alps) (<http://www.crs.inogs.it/>)
 - o Dipartimento per lo Studio del Territorio e delle sue Risorse, University of Genova (seismic regional monitoring: western Alps). (<http://www.dipteris.unige.it/geofisica/>)
 - o Dipartimento Scienza Geologiche, University of Rome 3 (analogue experimental laboratory) <http://host.uniroma3.it/dipartimenti/geologia/>
 - Associated Institutions. Other Research Institutions and Universities are presently involved through the specific European projects and networks. In particular, NERIES, EXPLORIS, VOLUME, THYMER, TECTOMOD, Topo-Europe, SPICE as well as SAFER and TRANSFER.

2. The Netherlands.

- Coordinating Institution: ISES (Netherlands Research Centre for Integrated Solid Earth Science) www.ises.nu
 - Participating Institutions. National team composed by:
 - o VU University of Amsterdam (Faculty of Earth Sciences)
 - o Utrecht University (Faculty of Geo Sciences)
 - o Delft University of Technology ((Delft Earth)
 - o Royal Netherlands Meteorological Institute KNMI
 - Associated Institutions. Other Research Institutions and Universities are presently involved through the specific European projects and networks as well as non-profit organizations. In particular, Topo-Europe, THYMER, TECTOMOD, NERIES, SAFER, SPICE, DEGREE.

3. France.

- Coordinating Institution: CNRS-INSU (Institut National des Sciences de l'Univers)
 - Participating Institutions. National team composed by:
 - o École et Observatoire des Sciences de la Terre (EOST), Strasbourg

- o Institut de Physique du Globe de Paris (IPGP), Paris
 - o Laboratoire de Géophysique Interne et Tectonophysique (LGIT)-Observatoire des Sciences de l'Univers de Grenoble (OSUG), Grenoble
 - o Laboratoire Géosciences Azur -Université de Nice Sophia-Antipolis (UNSA), Nice
 - o Laboratoire Géosciences de Montpellier
 - o Observatoire Midi-Pyrénées (OMP), Toulouse
 - o Université de Nantes
 - o Ecole Normale Supérieure (ENS), Paris
 - o Laboratoire de Détection et de Géophysique (LDG) / CEA, Bruyères-le-Châtel
 - o Bureau de Recherche Géologique et Minière (Soultz project)
- Associated Institutions. Other Research Institutions and Universities are presently involved through the specific European projects and networks.

4. Germany.

- Coordinating Institution: GFZ, GeoForschungsZentrum Potsdam.
<http://www.gfz-potsdam.de>
 - Participating Institutions. National team composed by:
 - o The ICDP (International Continental Scientific Drilling Program) <http://www.icdp-online.org>.
 - o Institute for Geophysics, University of Karlsruhe
<http://www-gpi.physik.uni-karlsruhe.de>
 - o Institute for Geophysics, University of Munich
<http://www.geophysik.uni-muenchen.de>
 - o Institute for Mineralogy, Petrology and Geochemistry, University of Munich
<http://min.geo.uni-muenchen.de/>
 - o Institute for Geophysics, Free University of Berlin
<http://www.geo.fu-berlin.de/geol/fachrichtungen/geophy/>
 - o Institute for Geoscience, University of Potsdam

www.geo.uni-potsdam.de/

5. United Kingdom.

- Coordinating Institution: British Geological Survey.
 - Participating Institutions. National team composed by:
 - o Natural Environment Research Council
 - i. British Geological Survey (www.bgs.ac.uk)
 - ii. Proudman Oceanographic Laboratory (www.pol.ac.uk)
 - iii. COMET (Centre for the Observation and Modelling of Earthquakes and Tectonics), a collaborative centre involving scientists from the University of Oxford, University College London, and the University of Cambridge (www.comet.nerc.ac.uk)
 - iv. Environmental systems science centre, hosted at Reading University (www.nerc-essc.ac.uk/)
 - o Universities with research groups in Rock Physics
 - i. Edinburgh (www.geos.ed.ac.uk/research/subsurface/rockphysics/)
 - ii. Heriot-Watt (www.pet.hw.ac.uk/research/areas/rockmechphy.htm)
 - iii. National Oceanography Centre, University of Southampton (www.noc.ac.uk/gg/facilities/rock_physics.php)
 - iv. University College London (www.es.ucl.ac.uk/research/mirp/index.htm)
 - o Universities with research groups in Volcanology
 - i. Bristol (www.gly.bris.ac.uk/WWW/research/volcgfd.html)
 - ii. Cambridge (www-volcano.geog.cam.ac.uk, www.itg.cam.ac.uk, www.bpi.cam.ac.uk/intro)
 - iii. Durham (www.dur.ac.uk/ihr/research)
 - iv. Leeds (www.see.leeds.ac.uk/vsgleeds/index.htm)
 - v. Open University (www3.open.ac.uk/Earth-Sciences/research/Volcano_Dynamics.shtml)
 - vi. Oxford (www.earth.ox.ac.uk)
 - vii. Reading (www.nerc-essc.ac.uk)
 - viii. University College London (<http://www.benfieldhrc.org>)
 - o Universities with research groups in surface dynamics
 - i. De Montfort (www.cse.dmu.ac.uk/EAPRS/index.html)
 - ii. Edinburgh (www.geos.ed.ac.uk/research)
 - iii. Nottingham (www.nottingham.ac.uk/iessg/)
 - iv. Leeds (www.see.leeds.ac.uk/index.htm)

- v. Leicester (www2.le.ac.uk/departments/geology)
- vi. Newcastle (www.ceg.ncl.ac.uk/research/geomatics/geodesy/geodesy.htm)
- vii. Oxford (www.earth.ox.ac.uk/)
- viii. Royal Holloway, University of London (<http://www.gl.rhul.ac.uk>)
- ix. University College London (www.ucl.ac.uk/ge)
 - o Universities with research groups in seismology
- i. Bristol (www.gly.bris.ac.uk)
- ii. Cambridge (www.esc.cam.ac.uk)
- iii. Edinburgh (www.geos.ed.ac.uk/research)
- iv. Keele (www.esci.keele.ac.uk/geophysics/Research/index.html)
- v. Liverpool (www.liv.ac.uk/earth/research/Interior.htm, www.liv.ac.uk/seismic)
- vi. Oxford (www.earth.ox.ac.uk/research/seismology.htm)
- vii. University of Ulster (www.science.ulster.ac.uk/envsci)
 - o Universities with research groups in geomagnetism
 - i. Edinburgh (www.geos.ed.ac.uk/research)
 - ii. Leeds (www.see.leeds.ac.uk/research/igt/geomag/index.htm)
 - iii. Liverpool (www.liv.ac.uk/earth/research/geomagnetism.htm)
 - o Relevant Government Departments and Agencies

- i. Department of the Environment, Food and Rural Affairs (Defra) The Environment Agency

6. Switzerland.

- Coordinating Institution: Swiss Federal Institute of Technology, ETH
 - Participating Institutions:
 - o Swiss Seismological Service, (ETH, www.seismo.ethz.ch)
 - o Institute of Geophysics, ETHZ, Toposchweiz, Rock Mechanics Lab.

7. Denmark.

- Coordinating Institution: University of Copenhagen
 - Participating Institutions. National team composed by:
 - o Department of Geography and Geology, University of Copenhagen: Geophysics, seismology, geochemistry (www.geol.ku.dk, www.nbi.ku.dk)
 - o GEUS – Geological Survey of Denmark and Greenland: Seismological service and research for Denmark and Greenland, geodynamics, rock physics. (www.geus.dk)
 - o Department of Earth Sciences, University of Aarhus: Geophysics, seismology, geochemistry (www.geol.au.dk)

8. Turkey.

- Coordinating Institution: TÜBİTAK Marmara Research Center.
 - Participating Institutions. National team composed by:
 - o TÜBİTAK Marmara Research Center, Earth and Marine Sciences Institute (TUBITAK MRC EMSI), <http://www.mam.gov.tr/eng/institutes/ymbe/index.html> Gebze-Kocaeli
 - o Kandilli Observatory and Earthquake Research Institute (KOERI), Istanbul www.koeri.boun.edu.tr
 - o General Directorate of Disasters Affairs (GDDA), Ankara www.deprem.gov.tr

9. Greece.

- Coordinating Institution: National Observatory Athens NOA
 - Participating Institutions. National team composed by:
 - o National Observatory Athens NOA, <http://www.noa.gr>,
 - o Geophysical Department of the University of Thessaloniki,

10. Romania.

- Coordinating Institution: Ministry of Education, Research and Youth, national authority for scientific research.
 - Participating Institutions. National team composed by:
 - o National Institute for Earth Physics (NIEP) <http://www.infp.ro/>
 - o Ministry of Education, Research and Youth

11. Iceland.

- Coordinating Institution: Icelandic Meteorological Office (IMO)

- Participating Institutions. National team composed by:
 - o Icelandic Meteorological Office (IMO) <http://en.vedur.is/>
 - o University of Iceland, Nordic Volcanological Institute, Institute of Earth Sciences

http://www2.hi.is/page/hi_is_english_frontpage

12. Norway.

- Coordinating Institution: NORSAR
 - Participating Institutions. National team composed by:
 - o NORSAR <http://www.norsar.no/>
 - o Department of Earth Science, University of Bergen

<http://www.geo.uib.no/seismo/nnsn/index.html>

13. Portugal.

- Coordinating Institution: Rede Nacional de Geofisica (Joint research Unit)
 - Participating Institutions. National team composed by:
 - o Rede Nacional de Geofisica (Joint research Unit)
 - o Instituto Dom Luis -Laboratorio Associado (University of Llsbon)
 - o Instituto Geofisico da Universidade do Porto
 - o Centro de Geofisica da Universidade de Coimbra.

14. Ireland

- Coordinating Institution: Geological Survey of Ireland (govt agency)
 - Participating Institutions. National team composed by:
 - o Geological Survey of Ireland
 - o Dublin Institute for Advanced Studies (govt funded research institute)
 - o University College Dublin
 - o Trinity College Dublin
 - o National University of Ireland –Galway
 - o Marine Institute (govt agency)

15. Spain

- Coordinating Institution: Institute of Earth Sciences-CSIC Barcelona (Instituto de Ciencias de la Tierra ‘Jaume Almera’(ICTJA)-Consejo Superior de Investigaciones Científicas) Coordinating Institution of Topo-Iberia;
 - Participating Institutions. National team composed by the following 10 Institutions of the Topo-Iberia Consortium:
 - o Institute of Earth Sciences-CSIC Barcelona
 - o Department of Geology, University of Granada - Andalusian Institute of Geophysics (IAG)
 - o Department of Geology, University of Oviedo
 - o Department of Physics of the Earth, Univ. Complutense of Madrid
 - o Department of Geodynamics and Geophysics, University of Barcelona
 - o Department of Cartography and Geodesy, University of Jaen
 - o Geology group, University of Cadiz
 - o IGME (Instituto Geologico y Minero de España, Madrid
 - o ROA (Real Instituto y Observatorio de la Armada) San Fernando, Cadiz
 - o Department of Geology, Authonomous University of Barcelona
 - Other participant Institutions:
 - o National Geographic Institute (IGN)
 - o Geological Institute of Catalonia (IGC)

16. Sweden

- Coordinating Institution: UU, Uppsala Universitet
 - Participating Institutions. National team composed by:
 - o Chalmers University of Technology, Göteborg
 - o Lund University
 - o Lantmäteriet - National Land Survey of Sweden
 - o Onsala Space Observatory

- o Uppsala University
- o Stockholm University
- o SGU Geological Survey of Sweden

17. Poland

- Coordinating Institution: IGF PAS, Institute of Geophysics, Polish Academy of Sciences
 - Participating Institutions. National team composed by:
 - o IGF PAS, Institute of Geophysics, Polish Academy of Sciences

18. Czech Republic

- Coordinating Institution: Institute of Geophysics AS CR (IG), Prague
- Participating Institutions. National team composed by:
 - o Institute of Rock Structure and Mechanics AS CR (IRSM), Prague
 - o Institute of Physics of the Earth (IPE), Masaryk University, Brno
 - o Dept. of Geophysics, Faculty of Math. and Physics (FMP-CU), Charles University in Prague
 - o Institute of Hydrogeology, Eng. Geology and Applied Geophysics, Faculty of Natural Science (FNS-CU), Charles University in Prague
 - o Research Institute of Geodesy, Topography and Cartography (RIGTC), Zdiby