

# Joint Proposals with WEGENER for FP7 and other Financial Bodies

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# Outlook

- FP7
  - Environment → ‘Science Proposal’
  - Infrastructure → ‘GEODAC’ Proposal, but applicable to EPNCB, CEGRN/CERGOP...
- NATO ‘Science for Peace’

# Calls within the Theme 'Environment'

- *4.1.2. ENV.2007.4.1.2.2. Contributing to the development of a worldwide network of in-situ observatories for seismogenic hazards*  
*Collaborative projects (small or medium-scale focused research projects) <3.5 ME, <10 partners*

*Options:*

*AFISO Anatolian Fault Integrated Seismogenic Observatory (M. Becker, S.Zerbini, A. Caporali)*

*MAGINOT Mediterranean Alpine Geophysical INsitu ObservaTories (A. Caporali, S.Zerbini, M.Becker)*

Discussed with NPC during the meeting in Padova  
27.02.2007

## 4.1.2.2 in detail

- **ENV.2007.4.1.2.2. Contributing to the development of a worldwide network of in-situ observatories for seismogenic hazards**

To develop the European capacity in view of investigating earthquake mechanisms at depth close to the seismic source relying on previous European research activities on seismically active sites. The project should take into account the current development of the Network of Research Infrastructures for European Seismology (NERIES). Such a project should contribute to deliver the basic knowledge, including with respect to the role of fluids, through a cross-cutting approach for earthquake, and landslides, tsunamis and volcanic related events. Such a project should contribute to proceed with long term experimentation in connection with the establishment of a European in-situ seismic observatory located on a major active fault zone. In the GEO context the project should take into consideration other key subsurface seismic observatories situated on active sites around the world and organise the research activities together with those existing experiments outside Europe, and ensure the communication of data as well as their access and interoperability by the wider science community. International co-operation is encouraged.

- **Funding scheme: collaborative projects (small or medium-scale focused research projects)**
- ***Expected impact:*** *Specification derived from basic knowledge on active seismic zone for the development of monitoring systems in seismogenic zones as required within GEO for multihazard seismogenic risks, interoperability between seismic monitoring systems, information management and data and optimisation of information for understanding, and modelling seismogenic zone.*

# Options for GEODAC

- **INFRA-2007-1.2.1: Scientific Digital Repositories.** This topic fosters a coordinated approach to the deployment of digital repositories for the scientific communities by pooling existing resources at European level and supporting data storage, archiving, access, interpretation, interoperability, management and curation activities. This will enable scientists to effectively aggregate and combine information to generate and share knowledge, profiting from a transparent underlying data infrastructure across different communities, institutions and geographic boundaries. The contribution to common open standards and their widespread adoption is an essential element of this activity, to bridge heterogeneity and ensure long term preservation.
- *FP7 Capacities Work Programme: Infrastructures*
- **Expected impact:** The activity on Scientific Digital Repositories is expected to play a catalytic role in the way data repositories for the scientific communities and future generations of scientists are organised, preserved, accessed, and support interoperability on the data level. This should optimise the way the e-Infrastructure is used to stock knowledge, add value to primary research data and information (making secondary research more effective), provide a valuable asset for industry and help bridging research and education. In this context, the data layers should emerge as a key aspect of the evolution towards a more advanced knowledgebased e-Science.
- **Funding scheme:** A combination of *Collaborative projects* and *Coordination and support actions*.

# Nocquet – Bastos document for INFRA 2007 1.2.1

First part would be true support to the Geodeac data base:

support and development of the data base coordination of European initiative to get more data into Geodac - and promote and open data to others communities: meteo, atmosphere, environment, surveyors...

The second part would be research and development to produce tools and results to enlarge the community of users of the Geodac data

That would include :

Analysis centres : they should be several and we should leave that open to all WEGENER people who would like to contribute

Implementation of GNSS analysis in a GRID environment as Luisa wrote it

Time series, and tools for analysis and quality assessment

Short term surface Earth motion : loading effects et so on; what > serves, what products ?

Towards a unified geodetic velocity and strain rate field for Europe and the Mediterranean call for new Geodeac added value services.

I would propose to use the word GNSS rather than GPS throughout of the document, since we should put our proposal in the prospect of Galileo.

# NATO Science for Peace

- Projects can be used for funding non NATO countries to purchase equipment
- Could be suitable for Mediterranean countries (African coast)
- Endorsment from AFREF?