



EPOS Satellite Information WG: technical activities and objectives

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The European Plate Observing System (EPOS) is a long-term integration plan included in ESFRI roadmap. EPOS aims to create a permanent and distributed infrastructure to achieve integration, increased accessibility and long-term continuity and archiving of solid Earth monitoring data from existing networks in Europe. The role in EPOS of a "Satellite data Information" WG has been discussed and approved during the PP kickoff meeting. This WG aims at involving Data Providers and existing e-infrastructures for data repository in the EPOS definition phase. Concerning Data Providers, the WG has the contribution of European Space Agency (ESA), German Space Agency (DLR) and French Space Agency (CNES). Preliminary contacts have been fixed with the Italian Space Agency (ASI). As far as the e-infrastructures are concerned the WG clearly understands that the integration of satellite data information within EPOS goes through the exploitation of already existing national and international facilities. The e-infrastructures will ensure the access to data, an easy and efficient data flow to the EPOS Communities.

The WG working agenda is therefore based on the following points:

- the collection of expectations and requirements from the communities of users of satellite data for seismic applications. the WG has established links with some existing initiatives, so as GENESI-DR (Ground European Network for Earth Science Interoperations - Digital Repositories), and its successor GENESI-DEC, and TERRAFIRMA. The GENESI-DR project has established a Research Infrastructure providing transparent access to a network of (mainly European) Digital Repositories achieving important objectives in terms of reliable, easy, long-term access to Earth Science data and associated on-demand processing resources via the Internet; GENESI-DEC aims at extending the infrastructure established by the predecessor to a large scale worldwide e-Infrastructure serving research communities interested in Planet Earth information of heterogeneous nature, from marine to atmospheric, to seismological and volcanological etc.. TERRAFIRMA Project is one of the services supported by the European Space Agency's (ESA) Global Monitoring for Environment and Security (GMES) Service Element Programme. TERRAFIRMA is a pan-European ground motion information service based on satellite data and developed in support of policies aimed at protecting the citizen against natural and anthropogenic hazards.
- The definition of a common yet flexible platform to address the collected needs by these user communities, in connection with the main EPOS e-infrastructure.
- Cross-fertilization actions with the other EPOS WGs about the requirements to each specific community of data providers (seismological data, GPS, volcanoes observations, geological data, etc.) in order to efficiently exploit the different data sets available from the different data providers and e-infrastructures in different domains.