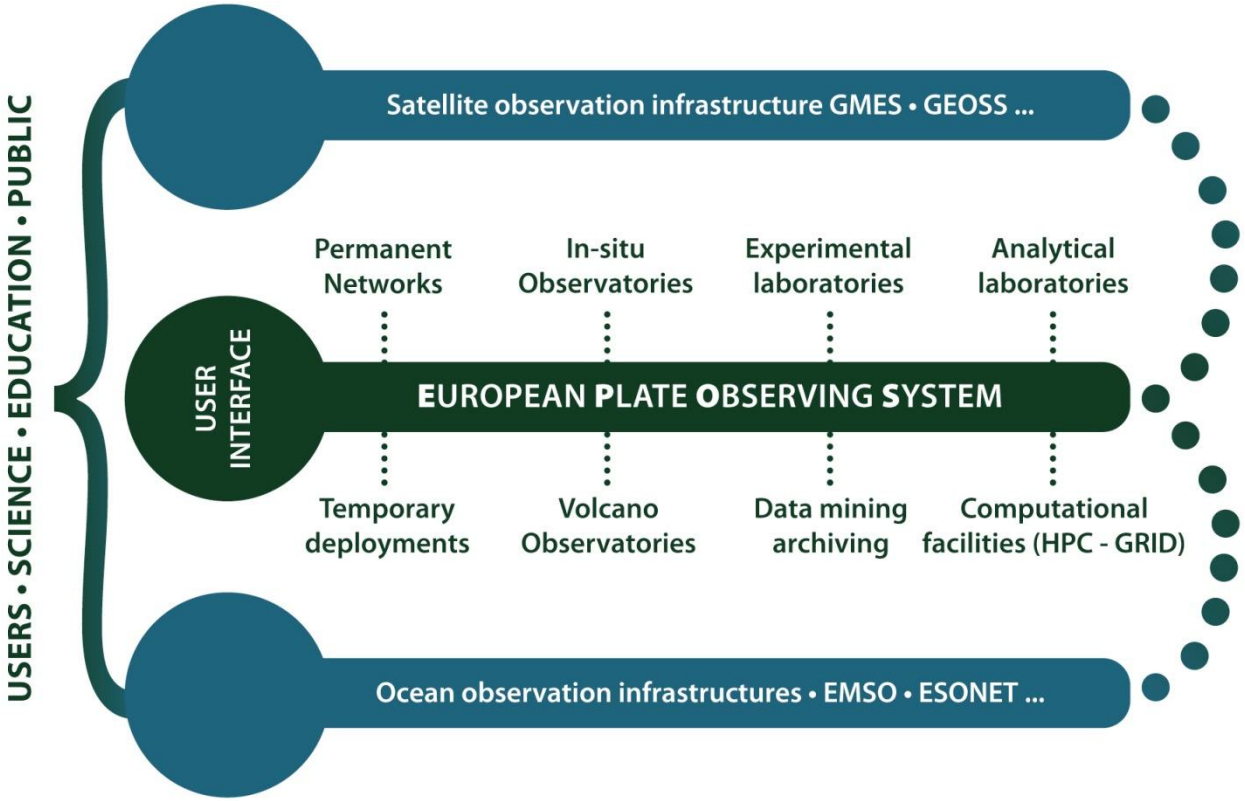
EPOS

European Plate Observing System

http://www.epos-eu.org/

EPOS is very much in the line of activities that WEGENER with the PLEGG proposal and CEGRN with its regional geodynamics network initiative are proposing or realizing since years.

- **EPOS: European Plate Observing System**
- *Research Infrastructure and E-Science for Data and Observatories on Earthquakes, Volcanoes, Surface Dynamics and Tectonics.*
- EPOS is an initiative in response to the EU policy for a coordinated approach to support and develop research infrastructures. EPOS is a proposal submitted for the update of the European roadmap for research infrastructure coordinated by the European Strategic Forum on Research Infrastructures (ESFRI) in the framework of the Seventh Research Framework Plan (FP7).
- EPOS will:
- Create a single sustainable, permanent observational infrastructure, integrating geophysical monitoring networks (e.g. seismic networks), local observatories (e.g. volcano observatories) and experimental laboratories in Europe and adjacent regions.
- Provide open access to distributed geophysical and geological data and modelling tools, enabling a step change in multidisciplinary scientific research into natural hazards, environmental change, and energy resources.
- Build a strongly competitive European research infrastructure providing a radically new landscape and widening horizons for solid Earth science research in Europe through a comprehensive e-infrastructure.
- Foster trans-national coordination of solid Earth observing systems at the European level.
- Promote cross-disciplinary approaches to challenging scientific and technological issues in Earth sciences through links with marine and space observations.


USERS • SCIENCE • EDUCATION • PUBLIC
Satellite observation infrastructure GMES • GEOSS ...
USER INTERFACE
Permanent Networks
In-situ Observatories
Experimental laboratories
Analytical laboratories
EUROPEAN PLATE OBSERVING SYSTEM
Temporary deployments
Volcano Observatories
Data mining archiving
Computational facilities (HPC - GRID)
Ocean observation infrastructures • EMSO • ESONET ...

EPOS meeting in Wien/EGU

(M.Becker, J.M. Noquet, W.Spackman, A. Caporali)

European Geodesy has now also an excellent chance to organize a research infrastructure if it is integrated into EPOS.

- This feeling is based on the fact that EPOS approached representatives of several countries (we know about France, Spain, Germany, Portugal) to contribute to a GPS part in the initiative.

Role of EUREF

EUREF can play an important rule in EPOS by making available those position and velocity data which are defined in a most rigorous sense and serve as basis for densification

Other organizations could also contribute (Wegener, CEGRN), provided that the various data sets can be rigorously combined

What happens next

- a new EPOS GPS working group (WG6) will be set up in the next months, according to Massimo Cocco.
- Several European geodesists who have been involved in the planning and realization of a GNSS Euro/Mediterranean wide infrastructure in the last decade would really like to see this competence used in EPOS.
- EUREF/WEGENER/PLEGG/CEGRN should be informed of this initiative and be part of it.
- Letter to be drafted by Matthias Becker to publicize EPOS in the european geodetic community.
- Proposal for a COST Action? (deadline mid september)
- Session at the next Wegener meeting?