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Coordinated Projects
CO2SINK

Project reference: 502599
Funded under: FP6-SUSTDEV

In-situ R&D Laboratory for Geological Storage of CO2 (CO2SINK)

From 2004-04-01 to 2010-03-31 | CO2SINK Website

Project details

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<td>EUR 8 700 000</td>
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<tr>
<td>Germany</td>
<td>IP - Integrated Project</td>
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Objective

Geological sequestration of CO2 provides a means for the EU to significantly reduce its CO2 emissions over the next decades. To address and alleviate potential public concerns about the safety and environmental impact of geological storage, a better understanding of the science of CO2 sequestration is needed. The CO2SINK integrated project aims at developing this basis by injection of CO2 into a saline aquifer underneath the city of Ketzin near Berlin. It involves extensive monitoring of the fate of the injected CO2 using a broad range of geophysical and geochemical techniques, the developing and benchmarking of numerical models, and the definition of risk assessment strategies. All of this is accompanied by a public outreach programme. The Ketzin gas storage site has a number of appealing features: - The existing surface infrastructure can be utilised for CO2SINK which greatly reduces need for new developments. - The geology at the site is known and representative of large parts of Europe, facilitating the transfer of results. - The local political community strongly supports the project, and permitting authorities have been involved in the project definition. The test site, being close to a metropolitan area, provides a unique opportunity to develop a European showcase for onshore CO2 storage. It will accelerate the public acceptance of geological storage of CO2 as a greenhouse gas mitigation option for the benefit of European societies.

Related information

- The benefits of carbon capture and storage
- Final Report Summary - CO2SINK (In-situ R&D Laboratory for Geological Storage of CO2)
- Final Report - CO2SINK (In-situ R&D Laboratory for Geological Storage of CO2)
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Last updated on 2011-05-20
GAGOS

Project reference: 10329
Funded under: FP6-SUSTDEV

Assessing and forward planning of the Geodetic And Geohazard Observing Systems for GMES applications

From 2005-02-01 to 2007-01-31

Project details

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Objective

Substantial improvement of our present knowledge of Earth System dynamics is paramount for the development of reliable strategies for actions vital to the human society in terms of achieving sustainable development and ensuring security. This requires for the various system components long-term integrated global data series from a large variety of sensors and networks combined with high performance rapid computing and a uniform and efficient access to distributed data archives and data information systems. The SSA proposed here aims (1) at assessing the status quo situation of two major components of the Earth observing system, namely the global geodetic and global geohazards observing systems as indispensable prerequisites for the consistent global monitoring of the Earth system environment and security aspects of population and (2) identifying deficiencies and gaps in both components and providing advice for the implementation of necessary adaptations and potential new developments in network-, shared computing-, and information/data management task for the observing techniques involved.

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Integrated geophysical exploration technologies for deep fractured geothermal systems

From 2005-11-01 to 2009-04-30

Project details

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Objective

The share of renewable energy sources in the European energy balance can be increased by a meaningful contribution of geothermal energy. Since the mining cost (exploration and drilling) to access the resources represents over 60% of the total investment, a reduction in mining cost would increase the competitiveness of geothermal energy significantly. This goal can be achieved if we had a way to detect the presence of the fluids inside the natural and/or enhanced geothermal systems before any drilling operation. The project I-GET is aimed at developing an innovative geothermal exploration approach based on advanced geophysical methods. The objective is to improve the detection, prior to drilling, of fluid-bearing zones in naturally and/or artificially fractured geothermal reservoirs. This new approach will be tested in three European geothermal systems with different geological and thermodynamic reservoir characteristics: two high enthalpy (metamorphic and volcanic rocks) and two middle/low enthalpy geothermal systems (sedimentary rocks). Petrophysical and geomechanical properties of the investigated rocks will be defined by laboratory measurements. Elastic and electric rock properties will be determined at the steam/liquid transition of the pore fillings. The validity of the laboratory and simulation results will be verified by new field experiments. Seismic and magnetotelluric data will be acquired in the test sites, and new acquisition and processing techniques will be developed to solve problems related to the particular target such as high temperature, anisotropy, phase condition, etc. The static and dynamic three-dimensional model of geothermal reservoirs will be reconstructed by means of all the data acquired. Results will indicate to which extent the geophysical prospecting method is applicable.

Related information

- Cost-effective energy from the Earth's crust
- Final Report Summary - I-GET (Integrated Geophysical Exploration Technologies for deep fractured geothermal systems)
- Final Report - I-GET (Integrated Geophysical Exploration Technologies for deep fractured geothermal systems)
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SAFER

Project reference: 36935
Funded under: FP6-SUSTDEV

Seismic early warning For Europe

From 2006-06-15 to 2009-06-14

Project details

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Objective

Earthquakes are a serious threat for many countries of Europe, particularly for those around the Mediterranean Sea. Early warning systems, based on real time, automated analysis of ground motion measurements, can play an important role in reducing the negative impact of catastrophic events on densely populated areas and, particularly, in mitigating the damage to strategic structures and lifelines. Europe is covered by numerous high quality seismic networks, managed by national and by European agencies, including also some local networks specifically designed for seismic early warning around large cities like Bucharest, Istanbul and Naples, respectively.

This project is aimed at fully exploiting the possibilities offered by a real time analysis of the signals coming from seismic networks for a wide range of actions, performed in a time interval of a few seconds to some tens of minutes. These actions range from the shut down of critical systems of lifelines, industries, highways, railways, etc. and the activation of control systems for the protection of crucial structures, to decision support for rapid response of the emergency management (ground shaking maps, continuously expected damage scenarios, aftershocks hazard etc.).

The project is structured in 6 work-packages:
1. Project Coordination and Management,
2. Real-Time Estimation of Source Parameters,
3. Real-Time Damage Assessment and Reduction Strategies,
4. Real-Time Shake Maps,
5. Real-Time Aftershock Hazard Assessment,
6. Dissemination of Results and End User Interface. The work-packages address all major components of an earthquake early warning system.
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Subjects

Earth Sciences - Safety

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Participation as Partner
climate variability and el niño southern oscillation: implications for natural coastal resources and management

From 2004-10-01 to 2008-09-30

Project details

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Objective

Marine biodiversity and the sustained exploitation of marine resources are significantly influenced by ENSO (El Niño-Southern Oscillation) particularly affecting the coastal zone of the Humboldt Current upwelling system. Both its warm (El Niño: EN) and cold (La Niña: LN) phase have drastic implications for the ecology, socioeconomic and infrastructure. Local artisanal fisheries represent a major activity for the domestic economy, in consequence a huge amount of studies (published/unpublished) exists aiming at identifying effects of EN. However, most processes and mechanisms causing these effects have not been analyzed. Especially artisanal fisheries and coastal invertebrate and fish populations suffer from EN effects. CENSOR aims at enhancing the detection, compilation and the understanding of EN and LN effects on the coastal zone and its resources, to mitigate damage, better use beneficial effects, and thus improve the livelihood of human coastal populations. Therefore, CENSOR is expected to be of high economic and social interest. A multidisciplinary approach, including Latin American and European specialists, aims at developing a comprehensive picture illustrating the response of the upwelling ecosystem to ENSO. Coastal benthic communities, pelagobenthic exchange processes, riverine input and resource variability will be compiled and analysed comparatively. Aquacultural demands to compensate and decrease EN dependence in coastal fisheries will be addressed. Integrated database information will enhance the understanding of mechanisms and processes related to life strategies, species interactions and genetics. As one strategic point, indicators to predict EN events will be elaborated. We will improve the understanding of ecophysiological demands explaining shifts in resource availability, aiming at a better fishery management. Results will be made available at various society levels, including scientists, stakeholders, decision-makers, and coastal human communities.

Related information

- Managing the El Nino effect
- Final Report Summary - CENSOR (Climate variability and El Nino southern oscillation: Implications for natural coastal resources and management)
- Final Report - CENSOR (Climate variability and El Niño southern oscillation: Implications for natural coastal resources and management)
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CO2 geological storage: research into monitoring and verification technology

From 2006-03-01 to 2012-02-29 | CO2REMOVE Website

Objective

The geological storage of CO2 provides a significant option to mitigate CO2 emissions, contributing to the achievement of Kyoto (and successor) targets in a world where economic growth will depend on fossil fuels for the next several decades.

The first step towards Europe’s goal of becoming a hydrogen economy requires the manufacture of hydrogen from fossil fuels. This can be done cost-effectively on a large scale without GHG emissions, if the resultant CO2 can be securely geologically stored. Europe has invested large research efforts in CO2 geological storage monitoring in several storage types, gaining experience with industrial-scale projects (Sleipner, Weyburn), and smaller “subsurface laboratories” (Ketzen, K12B and Tarnow). A new project (In Salah) now provides the opportunity to build on this work with a new industrial-scale geological storage project. For CO2 storage to qualify in Emission Trading Schemes, R&D efforts are required to develop a sound basis for monitoring and verification. This will provide assurance of long-term storage security and establish standardized site certification guidelines for policy makers, regulators and industry. CChReMoVe is a consortium of industrial, research and service organizations with experience in CO2 geological storage.

The consortium proposes a range of monitoring techniques, applied over an integrated portfolio of storage sites (including natural analogues), which will develop:
1) Methods for base-line site evaluation
2) New tools to monitor storage and possible well and surface leakage
3) New tools to predict and model long term storage behaviour and risks
4) A rigorous risk assessment methodology for a variety of sites and time-scales
5) Guidelines for best practice for the industry, policy makers and regulators.

This will encourage wide-spread application of CO2 geological storage in Europe and neighbouring countries.
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Cosmic ray produced nuclide systematics on earth - the European contribution

From 2004-12-01 to 2008-11-30

Objective

The development of in situ cosmogenic nuclides as a tool for quantifying rates and timing of Earth surface processes has revolutionised many branches of the Earth and environmental sciences. The principal aim of CRONUS-EU is to establish a nucleus of cosmogenic nuclide-literate young research scientists capable of providing the wider European science community the tools to remain at the forefront of their fields. Since its conception in the mid-1980s there has been an explosion in the use in situ cosmogenic nuclides such that it has become the principal quantitative chronological technique for Earth surface process studies, and has provided invaluable chronological constraints on the timing and rates of environmental change (e.g. glacial histories, erosion) and hazard recurrence frequency (e.g. landslides, volcanic and seismic activity). However, while the costly, but necessary, research infrastructure is now in place in Europe, the widespread application of the technique has been severely restricted by two principal limitations; (i) the absence of scientists in Europe with the necessary skills to identify, prepare and analyse appropriate material, and (ii) the yet outstanding full calibration of the intrinsic physical laws, such as cosmic ray attenuation and nuclide production at Earth's surface. CRONUS-EU will use a series of rigorous multi-disciplinary studies aimed at improving the accuracy of ages obtained from cosmogenic isotopes, a prerequisite for future development. By doing so, the necessary skills will be transferred from this small group of experts to the young researchers involved. Training will be facilitated principally through laboratory secondments and specific training courses, and will deliver a critical mass of research scientists equipped with the skills necessary for leading the future expansion in the use of the technique.

Related information

- Report Summaries
  - Final Activity Report Summary - CRONUS-EU (Cosmic ray produced nuclide systematics on earth - the European contribution)
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Last updated on 2007-06-11
Retrieved on 2015-11-30
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A Surveillance System for Assessing and Monitoring of Desertification

From 2005-03-11 to 2010-10-10

Project details

| Total cost: | EUR 10 494 259 |
| EU contribution: | EUR 7 799 791 |
| Coordinated in: | Spain |

| Topic(s): |
| SUSTDEV-2004-3.IV.1.b - Assessment of the vulnerability to desertification and early warning options |

| Call for proposal: |
| FP6-2003-GLOBAL-2 |

| Funding scheme: |
| IP - Integrated Project |

Objective

In spite of the relevance of diagnosis to help the success of desertification treatment, there is a lack of standardized procedures to perform it at operational scales. This project offers a contribution to fill this gap by complementing assessment of desertification status with early warning of risks and vulnerability evaluation of the involved land use systems. To this purpose the interactive effects of climatic and human drivers of desertification will be taken into account in a dynamic way. The project goal is to deliver a compact set of integrated procedures, with application and tutorial examples at the EU and national scales. The performance of DeSurvey in other areas outside Europe will be further tested against other expertise and available procedures in Maghrebian and Sahelian countries as well as in central Chile and NW China. Fulfilling this objective requires the integration of a hard core of basic and application-oriented research, with the development of user-support technologies, capacity building, and a wide range of interfacing with other EU and international programmes, affected users and stakeholders, as well as data and technology providers including SMEs. A consortium of 39 Organizations with a wide range of skills, from 10 Member States and 6 Third Country States, builds the Project partnership.

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Environmental Protection - Regional Development - Safety

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Distant early warning System

From 2007-02-01 to 2010-05-31

Project details

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Objective

The Distant Early Warning System (DEWS) proposal addresses the present major shortcomings and important societal problems related to early warning systems for tsunamis and other coastal hazards. DEWS will develop an innovative platform and services for the disaster management cycle between GITEWS hazard detection and warning/alarm. DEWS software will include models for tsunami wave spreading, assessment of vulnerabilities/consequences of natural disasters and systems for monitoring and crisis management, including information and decision support.

Early warning distribution architectures will be developed, including systems for prompt local warning of citizens and managing efficiently tsunami hazards and natural disasters in general. The project will provide an important innovative research contribution and improve EU competitiveness in the crisis management area. DEWS will build on existing capacities, cooperate with other EU research and develop a platform and services, allowing for flexible practical implementation to meet different requirements in countries. DEWS will have interoperability with international cooperation mechanisms, including UNESCO-IOC, to ensure relevance and transferability of results to other tsunami-prone areas.

DEWS will develop integrators for sensors and sensor networks, information logistics and dissemination modules, an early warning and warning distribution system, integrators for systems for local warning of the public, information and decision support products and a service bus. Testing will ensure future implementation and exploitation in different parts of the Indian Ocean Region. End-users will be involved in the development and testing to ensure the practical usefulness of the results. The consortium consists of large and small partners from EU MS and INCO countries, combining qualified technological competence and application experience. Exploitation and dissemination of results will be an important task for the project.
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**ENGINE**  
*Project reference:* 19760  
*Funded under:* FP6-SUSTDEV

**ENhanced Geothermal Innovative Network for Europe**

*From* 2005-11-01 *to* 2008-04-30 | [ENGINE Website](#)

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### Objective

The contribution of geothermal energy is a key factor to the successful achievement of the objectives of the European Commission concerning the development of renewable and sustainable energy. The concept of Unconventional Geothermal Resources and in particular Enhanced Geothermal Systems examines ways of increasing the potential of geothermal power generation through (i) exploring new types of reservoirs for heat exchange (Hot Dry Rock, supercritical fluids...), (ii) enlarging the extent of productive geothermal fields by stimulating permeability, (iii) enhancing the viability of current and potential hydrothermal areas by stimulation technology and improving thermodynamic cycles. The main objective of the proposed action is the co-ordination of the present research and development initiatives for Unconventional Geothermal Resources and Enhanced Geothermal Systems, from resource investigation and assessment stage through to exploitation monitoring. The Co-ordination Action will provide (1) an updated framework of activities concerning geothermal energy in Europe, including the integration of scientific and technical know-how and practices, the evaluation of socio-economic and environmental impacts; (2) the definition of innovative concepts for investigation and use of Unconventional Geothermal Resources and Enhanced Geothermal Systems; groups of experts will present a Best Practice Handbook; (3) a scientific and technical European Reference Manual including the information and dissemination systems developed during the Co-ordination Action. The links established between research and development teams, national development programmes, industrial partners and international agencies will be used to promote the geothermal energy as a major renewable and sustainable source of energy and to propose innovative high-level medium- to longer-term research projects.
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GRASP

Project reference: 35868
Funded under: FP6-MOBILITY

Greenhouse-gas removal apprenticeship and student Program

From 2006-10-01 to 2010-09-30 | GRASP Website

Project details

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Objective

The concern of this Marie Curie Research Training Network (RTN) is global warming due to the increase of greenhouse gases in the atmosphere. The training and research effort lies in greenhouse gas (GHG) removal, focusing on geological GHG storage. Three major work packages aim to address the issues of capacity and sustainability of a geological GHG storage place: wellbore isolation to counter any eventual GHG leakage from the injected formation to another or to the surface and to ensure sustainability, reservoir characterization to evaluate the capacity and sustainability of the targeted injection formation and storage monitoring to quantify an eventual GHG leakage to the surface.

The multidisciplinary partnership of Academia and Industry merges the sciences of geophysics, physics, geology, microbiology, chemistry, mineralogy, mechanical and electrical engineering, mathematics and rock-mechanics to provide solutions for and to train a new generation of young researchers in GHG storage issues for the next decades. The network will organize a well-structured multidisciplinary training and knowledge transfer (ToK) program. Early-stage and Experienced researchers will attend advanced network-wide courses, technical individual training and soft and complementary skill courses run by the partners to develop a full proficiency.

Organization of workshops, summer schools, and participation in international conferences will be important elements of the training program where young researchers can communicate their results and exchange knowledge between the research teams. Another communication and evaluation platform will be meeting the scientific committee, which evaluates the research progress and quality, and the training and ToK committee, which assess the ToK activities and plans the training of the fellows. Ultimately, the network-training program intends to provide Europe with a “Centre of Excellence” in GHG storage, which will last beyond the time period of the RTN.

Related information

Report Summaries

- Final Activity Report Summary - GRASP (Greenhouse-gas Removal Apprenticeship and Student Program)
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High-Temperature Instruments for supercritical geothermal reservoir characterization and exploitation

From 2007-01-01 to 2010-09-30

Project details

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Objective

This project aims to provide geophysical and geochemical sensors and methods to evaluate deep geothermal wells up to supercritical conditions (T>380°C). Supercritical geothermal wells are presently non-conventional but may provide a very efficient way to produce electricity from a clean, renewable source. A deep geothermal well is currently being drilled for this purpose into the Iceland volcanic zone, Iceland as part of the IDDP (Iceland Deep Drilling Project) and with joint funding from Icelandic industry and science. Aimed to explore supercritical wells and to enhance production from them, HITI is to develop, build and test in the field new surface and down-hole tools and approaches for deep high-temperature boreholes.

The new set of tools and methods have been chosen to provide a basic set of data needed to describe either the supercritical reservoir structure and dynamics, or the evolution of the casing during production. The set of new instruments should tolerate high temperature & pressure in a highly corrosive environment. Slickline tools up to 500°C and wireline tools up to 300°C will be developed due to the present limitation in wireline cables (320°C).

For reservoir characterisation, the measured quantities are temperature and pressure (for fluid characterization, thermodynamic modelling of the reservoir and thermomechanical modelling of borehole integrity), natural gamma radiation and electrical resistivity (for basement porosity and alteration), acoustic signal (with borehole wall images for reservoir fracturing and in-situ crustal stresses), reservoir storativity and equilibrium (from geothermometers and organic tracers) and fluid sampling. For casing and cement integrity, collar location, as well as thickness changes due to corrosion or plugging from mineral precipitation (from acoustic images again) will be measured. The new tools will be tested in-situ in existing Icelandic wells, including the IDDP hole.

Related information

Report Summaries
- Final Report Summary - HITI (High-Temperature Instruments for supercritical geothermal reservoir characterization and exploitation)

Documents and
- Final Report - HITI (High-Temperature Instruments for supercritical geothermal
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HYRESSA

Project reference: 26194
Funded under: FP6-INFRASTRUCTURES

HYperspectral REmote Sensing in Europe - specific Support Actions

From 2006-02-01 to 2008-01-31

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Objective

HYRESSA aims at investigating the user needs of the European hyperspectral research community with respect to access to and accuracy, quality and conformity of hyperspectral images - especially with the advent of next-generation European hyperspectral sensors like ARES and APEX in 2005-2006 - in order to refine protocols related to calibration, acquisition, processing and in-situ measurements in compliance with standards. This knowledge will be gathered through a SWOT and User Needs workshop and an on-line questionnaire.

Furthermore, HYRESSA aims at exploring strategies through an exploratory workshop bringing together hyperspectral data providers and users to build a Europe-wide network of hyperspectral remote-sensing facilities and to coordinate a user-oriented hyperspectral remote sensing Research Infrastructure.

Related information

- Remote aerial sensing gets organised
- Final Report Summary - HYRESSA (Hyperspectral Remote Sensing in Europe - Specific Support Actions)
- Final Report - HYRESSA (Hyperspectral Remote Sensing in Europe - Specific Support Actions)
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Induced microseismics applications from global earthquake studies

From 2005-03-01 to 2009-02-28

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Objective

This TOK Industry-Academia Partnership Scheme project proposes a two-way transfer of knowledge between petroleum industry and global earthquake seismology.

The project will benefit petroleum industry by developing tools and techniques for seismic monitoring of gas and oil reservoirs (hydraulic fracture monitoring and passive seismic) to control rock fracturing, optimize the reservoir production, prolong life of existing reservoirs, and mitigate hazard associated with the occurrence of induced microearthquakes. The seismic monitoring will substantially help to solve geomechanical problems in petroleum industry, such as imaging deformations associated with primary production, secondary recovery or waste injection operations.

Earthquake seismology will benefit from the project by having an access to high-quality data of seismicity in reservoirs and a unique opportunity:
- to study fluid-driven seismicity, in particular, rock-fluid interactions and the role of pore-fluid pressure in seismicity pattern and in triggering of earthquakes by fluid flow, and
- to inspect rupture processes in a field scale and under controlled conditions.

The project promotes synergy between some of the best academic institutions in the newly joining EU Member State (Charles University and Academy of Sciences in the Czech Republic) with one of a top industry-oriented private research centre in the West Europe (Schlumberger Cambridge Research), having thus a capacity to produce excellent results reputable in the world.

The project promotes a collaboration of EU academic and industrial partners with a top U.S.A. expert in hydraulic fracture monitoring J. Rutledge from the Los Alamos National Laboratory, who will be an external advisor of the project. The project will be supervised by the rock mechanics guru Prof. F. Comet, presently coordinating research in Corinth Rift Laboratory and having an extensive experience with large-scale academic EU.

Related information

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<th>Report Summaries</th>
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<td>Final Activity Report Summary - IMAGES (Induced microseismics applications)</td>
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Subjects

Education and Training - Social Aspects

Last updated on 2011-04-14
Retrieved on 2015-11-30

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International transfer of seismological advanced knowledge and geophysical research

From 2006-06-01 to 2010-05-31 | ITSAK-GR Website

Project details

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Objective

Greece has the highest level of seismic hazard in Europe. Minimization of the loss of life, and social and economic impact due to earthquakes depends on reliable estimates of seismic hazard, to serve as basis for land use planning, improved building design and construction, emergency plans and strategies for sustainable development. In order to mitigate seismic risk, it is important to ensure that advanced knowledge acquired worldwide is efficiently transferred to countries such as Greece.

The proposed project aims at ensuring the transfer of advanced knowledge regarding all aspects of seismic-hazard evaluation, namely spatiotemporal seismicity patterns and earthquake interactions geotectonic properties of earth's crust earthquake source properties seismic-wave propagation and attenuation local site effects on strong-ground motion deterministic and stochastic assessment of strong-ground motion earthquake scenarios and shake maps.

Methodologically, the efficiency of transfer of knowledge will be achieved by in-depth theoretical training in modern methods joint development/adjustment of modern methods - training in the application of modern methods joint application of modern methods joint presentation/publication of results. The project goals will be achieved by means of two-way mobility schemes. Thus researchers of the host institute will receive the necessary training at centres of high scientific excellence and return to their institution to enrich local knowledge and apply the acquired know-how.

On the other hand, visiting experienced researchers will contribute to the research capabilities of the host institute by transfer of advanced knowledge. The new methods and approaches will be applied in the host institute in the recruitment phase and the staff-member return phase. The obtained results will be jointly assessed and then presented/published. Through this complex process, the host institute's research potential will be enhanced.

Related information

Report Summaries
- Final Activity Report Summary - ITSAK-GR (International Transfer of Seismological Advanced Knowledge and Geophysical Research)
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**Efficient low temperature geothermal binary power**

**From** 2006-03-01 to 2009-02-28

**Project details**

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<td>Greece</td>
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**Objective**

The LOW-BIN project aims in improving cost-effectiveness, competitiveness and market penetration of geothermal electricity generation schemes, targeting both hydrothermal resources for immediate market penetration and future hot dry rock systems, by:

- Widening market perspectives of geothermal Rankine Cycle power generation by developing a unit that can generate electricity from low temperature geothermal resources, with temperature threshold for profitable operation at 65°C, compared with 90-100°C of existing units.
- Developing a Rankine Cycle machine for cogeneration of heat and power by heat recovery from the cooling water circuit.

This will lead in cogeneration of heat and power from Rankine Cycle units in present and future geothermal district heating schemes with overall energy efficiency of 98-99%, compared with 7-15% for existing units producing only electricity and for 35-60% of existing geothermal cogeneration schemes.

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Last updated on 2008-03-20
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MAGFLOTOM

Project reference: 28670
Funded under: FP6-POLICIES

Magnetic flow tomography in technology geophysics and ocean flow research

From 2007-02-01 to 2010-05-31

Project details

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Objective

In quite distinct areas such as metallurgy, crystal growth, geophysics and ocean flow analysis there is a growing interest in contactless methods of flow velocity determination based on the inversion of induced magnetic field measurements.

This applies to the industrial continuous steel casting, to modern silicon crystal growth under the influence of magnetic fields, to the determination of the liquid metal flow in the Earth's outer core and in dynamo experiments as well as to the magnetic sensing of ocean currents by satellites.

Independent from each other, some of these topics have recently achieved a breakthrough, and all are based on sophisticated magnetic field measurements and velocity reconstruction techniques.

The intention of the project is to bring together these disparate activities and to push them forward by using synergies between the different approaches.

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Subjects
Coordination and Cooperation - Forecasting - Innovation and Technology Transfer - Scientific Research

Last updated on 2010-06-30
Retrieved on 2015-11-30

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**MILLENNIUM**  
*Project reference:* 17008  
*Funded under:* FP6-SUSTDEV

## European climate of the last millennium

**From** 2006-01-01 to 2010-12-31

### Project details

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### Objective

Millennium will answer one of the most critical questions in climate research: does the magnitude and rate of 20th Century climate change exceed the natural variability of European climate over the last millennium? Existing climate reconstructions rely on inadequate data and underestimate variability. Improved GCM parameterization requires more accurate reconstructions and integrated modelling. We will supply high-resolution chronologies that capture the magnitude and rate of change and the magnitude and frequency of extreme events over the last 1000 years. Our multi-disciplinary team will use innovative and developing technologies to extract quantitative palaeoclimate information from documentary and natural archives, including trees, lakes, mires and ice cores. A multi-proxy approach provides seasonal palaeoclimate signals with quantified precision. Advances in dating allow us, for the first time, to place terrestrial and marine proxy records on the same timescale, allowing lead and lag relationships in ocean-atmosphere forcing to be captured. Annually banded seashells will be cross-dated like tree rings, and tephra-rich sediments used to construct a marine chronology independent of P14C dating. This can be used to reconstruct changes in ventilation linked directly to the strength of North Atlantic circulation. Millennial reconstructions of European climate, at a range of scales, will define whether recent climate change is unusual in the context of past variability. Millennium proxy-based reconstructions will be fused with a hierarchy of models, run over both millennium and century time scales using a purpose-built PC cluster and the huge resources of the Climateprediction.net distributed computing network. Integrated hind- and forecast modelling, (using HadCM3) will allow us to test whether current empirically reconstructed climate records based on regression methods underestimate climate sensitivity or if current GCM simulations give overestimates.
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Earth Sciences - Environmental Protection

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Project reference: 26130
Funded under: FP6-INFRASTRUCTURES

Network of Research Infrastructures for European Seismology

From 2006-06-01 to 2010-05-31 | NERIES Website

Project details

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Objective

Monitoring and understanding the earthquake processes and mitigating their effects are global priorities, requiring a concerted, dedicated, and international approach. NERIES responds to the needs of the seismological research and surveillance communities as well as to concerns from society. Earthquakes are recorded in the larger European-Mediterranean region by over 100 seismic monitoring systems and observatories in 46 countries. NERIES will network these seismological infrastructures into a sustainable integrated pan-European cyber-infrastructure serving current and future needs of the scientific community and of society.

NERIES will combine Networking, Transnational Access and Joint Research Activities to promote improved access to distributed databases, common protocols, standardized procedures and strategies for long-term archiving and distribution of seismological data; develop a new generation of hazard and risk assessment tools designed to improve monitoring and understanding of the earthquake process; Invest in capacity building and technology transfer to ensure the access to modern technologies for infrastructures and the larger scientific community in the Euro-Med region; implement key joint research projects aimed at improving the service provided by existing infrastructures and the use of seismological data for scientific research; boost the capability of the research community to investigate earthquake processes and Earth structure and dynamics, use e-Science technology to facilitate outreach to the public at large and educational institutions in particular; provide access to specialized, unique European seismological infrastructures; strengthen the role of European seismology in global seismic monitoring and hazard mitigation.

NERIES will lead the seismological infrastructures in building a key land-based segment of the GMES strategy and of the GEO 10-years implementation plan.
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Tsunami risk and strategies for the European region

From 2006-10-01 to 2009-09-30

Project details

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<td>SUSTDEV-2005-3.IV.2.2 - Assessment and reduction of tsunami risk in Europe</td>
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Objective

The project main goal is to contribute to our understanding of tsunami processes in the Euro-Mediterranean region, to the tsunami hazard and risk assessment and to identifying the best strategies for reduction of tsunami risk. Focus will be posed on the gaps and needs for the implementation of an efficient tsunami early warning system (TEWS) in the Euro-Mediterranean area, which is a high-priority task in consideration that no tsunami early warning system is today in place in the Euro-Mediterranean countries.

The main items addressed by the project may be summarised as follows. The present Europe tsunami catalogue will be improved and updated, and integrated into a worldwide catalogue (WP1). A systematic attempt will be made to identify and to characterise the tsunamigenic seismic (WP2) and non-seismic (WP3) sources throughout the Euro-Mediterranean region. An analysis of the present-day earth observing and monitoring (seismic, geodetic and marine) systems and data processing methods will be carried out in order to identify possible adjustments required for the development of a TEWS, with focus on new algorithms suited for real-time detection of tsunami sources and tsunamis (WP4).

The numerical models currently used for tsunami simulations will be improved mainly to better handle the generation process and the tsunami impact at the coast (WP5). The project Consortium has selected ten test areas in different countries. Here innovative probabilistic and statistical approaches for tsunami hazard assessment (WP6), up-to-date and new methods to compute inundation maps (WP7) will be applied. Here tsunami scenario approaches will be envisaged; vulnerability and risk will be assessed; prevention and mitigation measures will be defined also by the advise of end users that are organised in an End User Group (WP8). Dissemination of data, techniques and products will be a priority of the project (WP9).
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