



# ENVIRONMENT



# CIRCE

## Climate Change and Impact Research: The Mediterranean Environment

CIRCE aims to develop for the first time an assessment of the climate change impacts in the Mediterranean region. The project investigates the interaction between global and Mediterranean climates, between cloudiness and aerosol, and the modifications in the water cycle. The project also compares recent observed modifications in the climate variables and detected trends, and evaluates the economic and social consequences of climate change, including direct impacts on migration, tourism and energy markets. CIRCE proposes to investigate the consequences on agriculture, forests and ecosystems, human health and air quality, and assess the variability of extreme events in the future scenario and their impacts. The Egyptian participant is working on the collection of data necessary for the urban case studies implementation, including both meteorological and air pollution parameters and impact sector related data. In addition, CEDARE is responsible for developing stakeholder contacts, including the identification of stakeholder concerns in Egypt.

- FP6: SUSTDEV-3 Global change and ecosystems
- Contract type: Integrated Project
- Start date: April 2007
- Duration: 48 months
- EC contribution to the project: € 10 million

[www.circeproject.eu](http://www.circeproject.eu)

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- Centro Euro-Mediterraneo per I Cambiamenti Climatici SCARL (Italy)
- Panepistimio Aigaiou (Greece)
- National and Kapodistrian University of Athens (Greece)
- National Observatory of Athens (Greece)
- Institut du Developpement Durable et des Relations Internationales (France)
- Institute of Accelerating Systems and Applications (Greece)
- University of Crete. (Greece)
- Alma Mater Studiorum-Universita di Bologna (Italy)
- Ben Gurion University of the Negev. (Israel)
- University of Southampton (United Kingdom)
- International Centre for Agricultural Research in the Dry Areas (Syria)
- Association de Recherche sur le Climat et l'Environnement (Algeria)
- Institut Pasteur de Tunis (Tunisia)
- Universidade de Santiago de Compostela (Spain)
- The Hebrew University of Jerusalem (Israel)
- Vereniging Voor Christelijk Hoger Onderwijs Wetenschappelijk Onderzoek en Patientenzorg (Netherlands)
- European Climate Forum (Germany)

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# GEWAMED

## Mainstreaming Gender Dimensions into Water Resources Development and Management in the Mediterranean Region

The project plans to build an extensive knowledge base for mainstreaming gender dimensions into IWRM. To achieve this objective, the project partners are building a regional network using Internet technology in at least 6 Mediterranean partner countries. The regional network is essentially a way to exchange experiences, disseminate results and allow for enhanced coordination among national projects' activities and participants, particularly in the rural areas. A seminar took place in Cairo to discuss the policy issues and set recommendations related to the mainstreaming of the gender in the water resources management. The role of Egyptian partners is to build a national and regional shared knowledge base on gender issues, policies and related actions. In addition, the Egyptian participants are contributing to the adoption of national gender oriented policies by policy makers in the field of IWRM. The project interacted with other MPC projects, like MELIA, INECO and WADI to promote coordination and exchange of experiences.

- FP6: INCO Specific measures in support of international co-operation, INCO-2003-B1.1 Comprehensive policy and integrated planning
- Contract Type: Coordination action
- Start Date: February 2006
- Duration: 48 months
- EC Contribution to the project: € 1.25 million

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- Programme Solidarité Eau (France)
- Instituto Andaluz de la Mujer- Junta de Andalucía (Spain)
- General Commission for Scientific Agricultural Research (Syria)
- Osservatorio Nazionale per l'Imprenditoria Ed il Lavoro Femminile in Agricoltura' (Italy)
- Agricultural Research Institute (Cyprus)
- Centre of Arab Women for Training and Research (Tunisia)
- Palestinian Agricultural Relief Committee (Israel)
- University of Jordan (Jordan)
- Centre de Recherche en Economie Appliquée pour le Développement (Algeria)
- Cukurova University (Turkey)
- African Training and Research Centre in Administration for Development (Morocco)
- René Moawad Foundation (Lebanon)
- Comitato Italiano per L'Irrigazione e la Bonifica Idraulica' (Italy)
- Association Marocaine de Solidarité et de Développement (Morocco)

[www.gewamed.net](http://www.gewamed.net)

# INECO

## Institutional and Economic Instruments for Sustainable Water Management in the Mediterranean Region

The objective of INECO was to establish a Mediterranean network of research institutes, public authorities and stakeholders for coordinating research and analysing decision-making practices concerning the application of institutional changes in the water sector. INECO encompasses a series of coordination activities aiming to promote the exchange of information and research regarding the role of institutional and economic instruments in sustainable and efficient water use. These activities included enhancing synergies between the partners of the consortium and other stakeholders via workshops for assessing the efficiency of currently applied water management practices and validating alternative governance structures, economic tools and policies. The Egyptian participants were involved in these activities, in addition to formulating guidelines for alternative institutional arrangements to promote Integrated Water Resources Management (IWRM) through the application of appropriate and socially acceptable economic instruments. The Egyptian participants carried out a study on the governance and water management structures in the Mediterranean basin and the setting of indicators for institutional assessment in an IWRM context.

- FP6: INCO Specific measures in support of international co-operation, INCO-2003-B1.1 Comprehensive policy and integrated planning
- Contract type: Coordination action
- Start date: July 2006
- Duration: 36 months
- EC contribution to the project: € 739,987

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- Studies and Integration Consulting (Syria)
- Conseil et Developpement S.A.L. (Lebanon)
- Tunis International Center for Environmental Technologies (Tunisia)
- Aeoliki Ltd (Cyprus)
- Water Development Department (Cyprus)
- Reseau International des Organismes de Bassin - International Network of Basin Organisations (France)
- International Office for Water (France)

[environ.chemeng.ntua.gr/ineco](http://environ.chemeng.ntua.gr/ineco)

# INNOVA-MED

## Innovative Processes and Practices for Waste Management in the Mediterranean

The INNOVA-MED's main objective is to explore the synergies of the research carried out within EC funded projects dealing with wastewater treatment and water management from previous Framework Programmes or projects from the EU-MEDA programme. Such a study would help coordinating the research activities of ongoing EU and national projects dealing with development of innovative technologies for wastewater treatment, treatment and disposal of sludge, and applying innovative practices for the re-use of reclaimed water. Furthermore, INNOVA-MED has worked towards facilitating the communication with researchers and national and regional institutions from the Mediterranean Partner Countries (MPCs) and the dissemination and transfer of knowledge across the region. The Egyptian participant organized the INNOVA-MED conference in December 2008 held in Egypt and a training session for fifty wastewater specialists. In addition, the Egyptian participant has authored a research paper on risk assessment and life cycle analysis and the most important used methods in waste water treatment and the environmental dimension.

- FP6: INCO Specific measures in support of international co-operation
- Contract type: Networks of Excellence
- Start date: January 2007
- Duration: 36 months
- EC contribution to the project: € 480,000

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- Institut Agronomique et Veterinaire Hassan II CHA Agadir (Morocco)
- Ankara Universitesi (Turkey)
- Palestinian Water Authority (West Bank and Gaza Strip)
- Birzeit University (West Bank and Gaza Strip)
- Centre International des Technologies de l'environnement de Tunis (Tunisia)
- National Research Institute for Agricultural Engineering, Water and Forestry (Tunisia)
- Centro de Investigaciones Energeticas, Medioambientales y Tecnologicas (Spain)
- Ecologic - Institute for International and European Environmental Policy (Germany)

# INGEDI

## Integration of Gender Dimension in Water Management in the Mediterranean

In most of Mediterranean developing countries women's contribution to water management is largely invisible at both local and national levels, and is thus overlooked in both economic analysis and policy formulation. This represents a significant obstacle to promoting gender responsive sustainable development. The target of the project INGEDI was to establish a dynamic and effective Mediterranean dialogue among the relevant national and international institutions to emphasise the integration of women in water management. The project was structured to fulfill the above target through the organisation and implementation of two major events: 1) a Euro-Mediterranean Workshop and 2) a post-workshop seminar for training of trainers, to booster dissemination of workshop results in Egypt.

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- FP6: INCO Specific measures in support of international co-operation
- Contract type: Specific Support Action
- Start date: May 2004
- Duration: 8 months
- EC contribution to the project: € 108,832

[www.ingedi.iamb.it/programmi/project.htm](http://www.ingedi.iamb.it/programmi/project.htm)

# MELIA

## Mediterranean Dialogue on Integrated Water Management

The goal of MELIA is to foster a dialogue among the key stakeholders concerned and affected by water use and management, such as scientists and professionals, decision makers, policy makers, water providers and citizens. This dialogue aims at creating a forum where stakeholders can share knowledge, find consensus and propose new perspectives on the emerging needs and appropriate integration of knowledge for water management, in a region of scarce resources such as the entire Mediterranean basin. The MELIA project proposed to build a knowledge-base for integrated water management planning, develop a Mediterranean-wide awareness of the social, economic and technological issues related to water management, enhance the participatory mechanisms and prevention tools to avoid conflicts, provide legislative and administrative bodies with arguments to support sustainable water policies and economy. The Egyptian participants contributed to the project by sharing information among partners and other external organisations through the pre-developed MELIA Internet.

- FP6: INCO Specific measures in support of international co-operation
- Contract type: Coordination action
- Start date: September 2006
- Duration: 48 months
- EC contribution to the project: € 2 million

[www.meliaproject.eu](http://www.meliaproject.eu)

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- Red Mediterraena de Organismos de Cuenca (Spain)
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- Republic of Turkey Prime Ministry Southeastern Anatolia Project - Regional Development Administration (Turkey)
- Centre de Développement de la Région de Tensift (Morocco)
- Office Regional de Mise en Valuer Agricole du Souss Massa (Morocco)
- General Commission for Scientific Agricultural Research (Syria)
- Ministry of Agriculture (West Bank and Gaza Strip)
- Land Research Center (West Bank and Gaza Strip)
- Malta Resources Authority (Malta)
- C.R.A. Istituto Sperimentale Agronomico (Italy)
- Centro de las Nuevas Tecnologías del Agua (Spain)

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# NOSTRUM-DSS

Network on Governance, Science and  
Technology for Sustainable Water Resource  
Management in the Mediterranean

The aim of NOSTRUM-DSS was to contribute to bridging the gap between policy makers and researchers with respect to the use of Decision Support Systems (DSS) tools as instruments for improving governance of water resources in the Mediterranean. The project's main objectives were threefold: 1) promote the development of suitable DSS tools built upon real needs of policy making in IWRM; 2) improve scientific knowledge and applied methodologies in IWRM; and 3) establish durable links between scientific institutions, governments, NGOs, SMEs and other stakeholders and improve public awareness on water management. The Egyptian participant conducted a field study on the aspects related to water management and agriculture development in Egypt, as well as an Environmental Impact Assessment (EIA) Decision Support System. These assessments were developed for irrigation projects and annual regional training and education for post graduate students in the Mediterranean were conducted to discuss them. In addition, the Egyptian partner organized a workshop on the role of DSS tools in water resources management.

- FP6: INCO-2002-B1.1 Comprehensive policy for integrated water planning, INCO-2002-C.1.1 Integrated management of regional water resources planning and policy
- Contract type: Networks of Excellence
- Start date: August 2004
- Duration: 42 months
- EC contribution to the project: € 1.01 million

[www.nostrum-dss.eu](http://www.nostrum-dss.eu)

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- Priority Actions Programme / Regional Activity Centre (Croatia)
- Association de Recherche sur le Climat et l'Environnement' (Algeria)
- Universidad Politécnica de Madrid (Spain)
- Fundatia Pentru Tehnologie Informatiei Aplicata In Mediu, Agricultura Si Schimburi Globale (Romania)
- Medias-France (France)
- Agricultural Research Institute (Cyprus)
- Centre for Research and Technology Hellas (Greece)
- Centro Interdipartimentale Ideas/CESD University of Venice (Italy)
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- Centre National de la Recherche Scientifique Direction Régionale Côte D'azur (France)
- National Technical University of Athens (Greece)
- Laboratory of Radio-Analysis And Environment of National Engineer School of Sfax (Tunisia)
- National Council for Scientific Research (Lebanon)
- Ensino, Investigação e Administração S.A. / Universidade Atlântica (Portugal)
- International Centre for Science and High Technology (Italy)

# SAFER

## Seismic Early Warning for Europe

Earthquakes are serious threats for many countries in 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 impacts of earthquakes on densely populated areas and, more specifically, in mitigating the damage to strategic structures and lifelines. The goal of SAFER was to exploit these warning systems to analyse the signals coming from seismic networks for a wide range of actions. These actions range from the shut down of critical systems of lifelines, industries, highways and railways to decision support for rapid response of the emergency management (ground shaking maps, continuously expected damage scenarios, aftershocks hazard etc). The Egyptian participant designed a new comprehensive strategy for the implementation of Shake Map for Cairo and mapped the seismic activity around Cairo. In addition, he participated at the last SAFER conference held in June 2009.

- FP6: SUSTDEV-3 Global change and ecosystems
- Contract type: Specific Targeted Research Project
- Start date: June 2006
- Duration: 36 months
- EC contribution to the project: € 3.6 million

[www.saferproject.net](http://www.saferproject.net)

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- Selex Communications SPA (Italy)
- National Taiwan University (Taiwan)
- World Agency of Planetary Monitoring and Earthquake Risk Reduction (Switzerland)
- Norges Geotekniske Institutt (Norway)
- Stiftelsen Norsar (Norway)
- Institutul National de Cercetare-Dezvoltare Pentru Fizica Pamantului - Incdfp Bucuresti (Romania)
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- National and Kapodistrian University of Athens (Greece)
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- Icelandic Meteorological Office (Iceland)

# SESAME

## Southern European Seas: Assessing and Modelling Ecosystem Changes

The general scientific objectives of SESAME are to assess and predict changes in the Mediterranean and Black Sea ecosystems and their ability to provide goods and services. The Mediterranean and Black Sea approached in this project as a coupled climatic/ecosystem entity. The assessment of ecosystem changes is based on the identification of the major regime shifts in ecosystems that occurred during the last 50 years. The SESAME consortium is studying the effect of the ecosystem variability on key goods and services with high societal importance, like tourism though conservation of biodiversity and mitigation of climate change through carbon sequestration in water and sediments. The Egyptian partners are in the process of building a database for forecasting and modeling to assess the past and future climate and environmental changes on the Mediterranean Sea ecosystem.

- FP6: SUSTDEV-3 Global change and ecosystems
- Contract Type: Integrated Project
- Start Date: November 2006
- Duration: 48 months
- EC Contribution to the project: € 10 million

[www.sesame-ip.eu](http://www.sesame-ip.eu)

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- Carl Von Ossietzky Universitaet Oldenburg. (Germany)
- Universite du Littoral Cote d'Opale (France)
- Universita Politecnica delle Marche (Italy)
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- Universitaet Bremen (Germany)
- Universidad de Huelva (Spain)
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- Southern Scientific Centre of the Russian Academy of Sciences (Russian Federation)
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- Istituto Nazionale di Geofisica e Vulcanologia (Italy)
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- Marine Hydrophysical Institute - Ukrainian National Academy of Science (Ukraine)

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# SUSTAINERGYNET

## Integrating Civil, Scientific and Stakeholder Knowledge Towards African Sustainable Energy Policy

In line with the EU's commitments to strengthen civil participation and promote a global approach to the issue of sustainable development, SustainergyNet aims at promoting the engagement of Civil Society Organisations (CSOs) in Africa in the field of research policy agenda setting concerning sustainable and efficient energy management. In this perspective, the project is working towards elaborating and suggesting ways on how to encourage and facilitate the cooperation between CSOs and RTD performers. This action is based on the assessment of current settings and frameworks that already exist, the formulation of recommendations and best practices and the presentation of a specific facility (CSO Involvement Net) that are intended to support CSOs towards actively contributing to research and policy processes. The Egyptian participant is involved in the assessment of the current effective involvement of CSOs in sustainable energy agenda setting in Africa and the preparation of recommendations and best practices.

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- Technische Universitaet Dresden (Germany)
- Oesterreichisches Institut fuer Internationale Politik (Austria)

- FP7: ENV.2007.4.2.3.2. Engaging civil society in research on sustainable development
- Contract type: Coordination (or networking) actions
- Start date: August 2008
- Duration: 24 months
- EC contribution to the project: € 548,831

[www.sustainergynet.eu](http://www.sustainergynet.eu)

# SWITCH

## Sustainable Water Management Improves Tomorrow's Cities' Health

There is a need for a more sustainable Urban Water Management of cities experiencing difficulties in managing the scarcer water resources. More specifically, it is important to convert ad-hoc actions into a consolidated approach. The main objective of SWITCH is the development, application and demonstration of a range of tested scientific, technological and socio-economic solutions and approaches that contribute to the achievement of sustainable and effective Urban Water Management (UWM) schemes in 'The City of the future'. Moreover, through a "Learning Alliance," the project would link up stakeholders to interact productively. SWITCH takes an integrated approach into consideration, ranging between urban water system in relation to its impacts on and dependency of the natural environment in the river basin and Global Change pressures. The Egyptian participant is in charge of implementing the SWITCH project in Alexandria by conducting a group of strategy studies that aim to develop a cross-sectoral Integrated Urban Water Management plan for the year 2037.

- FP6: SUSTDEV-2004-3.II.3.2.1 Integrated urban water management within the context of global change in Europe and developing countries
- Contract type: Integrated Project
- Start date: February 2006
- Duration: 60 months
- EC contribution to the project: € 14.75 million

[www.switchurbanwater.eu](http://www.switchurbanwater.eu)

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- Greenwich University Enterprises Limited (United Kingdom)
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- Ayuntamiento de Zaragoza (Spain)
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- Loughborough University (United Kingdom)
- Technische Universitaet Berlin (Germany)

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# WADI

## Sustainable Management of Mediterranean Coastal Fresh and Transitional Water Bodies: A Socio-Economic and Environmental Analysis of Changes and Trends to Enhance and Sustain Stakeholders Benefits

The goal of WADI was to encourage the rational and sustainable use of fresh and transitional water resources within the Mediterranean coastal area. Water management measures may affect ecosystem viability and sustainable resource production. This, in turn may have a negative influence on Mediterranean human populations, sustained economic growth and development. The proposed result of the assessment of impacts and indicators (including socio-cultural and environmental context) was the development of alternative case-study scenarios, based upon sustainable management strategies, for the potential use by stakeholders. Tangibly, these management plans could be subsequently utilized by stakeholders within in the wider context of the Mediterranean. The Egyptian participant conducted socioeconomic assessment case studies in the Lake Maryut area in Egypt. In addition, the Egyptian partner contributed to the composition of the conceptual framework for the other case studies in the partner countries. The 2nd international meeting for the WADI project partners was held in Cairo and Alexandria in 2006.

- FP6: INCO Specific measures in support of international co-operation, INCO-2003-B1.1 Comprehensive policy and integrated planning
- Contract type: Specific Targeted Research Project
- Start date: January 2006
- Duration: 36 months
- EC contribution to the project: € 1.82 million

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- Université Mohammed V Agdal - Institut Scientifique (Morocco)
- Instituto do Mar (Portugal)
- Universidad de Alicante (Spain)
- Université el Manar - Faculté des Sciences de Tunis (Tunisia)
- Université Abdelmalek Essaadi - Faculté des Sciences de Tétouan (Morocco)
- University of Malta - Foundation for International Studies (Malta)