



## PREVIEW

PREVENTION, INFORMATION and EARLY WARNING pre-operational services to support the management of risks

### GEO-INFORMATION SERVICES FOR RISK MANAGEMENT

PREVIEW aims at providing new or enhanced information services for risk management on a European scale. The PREVIEW consortium gathers 58 partners from 15 countries with key representatives from the area of risk management: research centres, universities, meteorological institutes, industrial companies and users, mainly the civil protection bodies from Member States.

In supporting regional, national and European civil protection units, PREVIEW draws on the most advanced research and technological developments using satellite observation in combination with other data and scientific models, that will help to better prevent, anticipate and manage different types of disasters, such as floods, forest fires, windstorms, earthquakes, landslides and man-made disasters. Specific examples include:

- New early warning systems to better anticipate short-term risk - for instance, floods and landslides;
- Crisis support services to allow more effective rescue operations, e.g. fire monitoring and rapid mapping;
- Building 'risk maps' for different types of hazards, in order to improve prevention and preparedness measures.

Users are actively participating to define services at the local level on the test sites and to enable a better harmonisation at the European level through the Eurorisk User Group (network of European users in the risk domain).

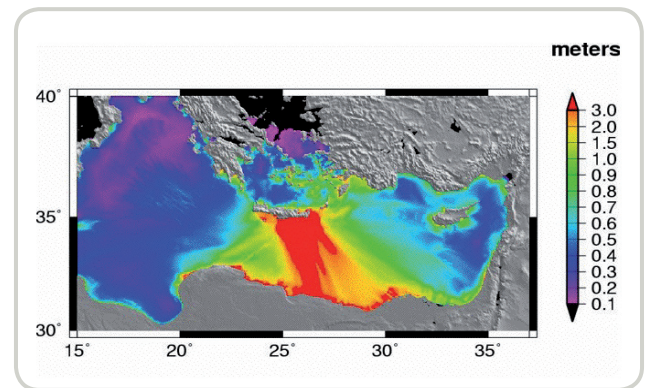
### CIVIL PROTECTION IN THE EURO-MEDITERRANEAN REGION: MED2007 EXERCISE, AIX-EN-PROVENCE, FRANCE, 27-29 MARCH 2007

The European Union is financing a Euro-Med Bridge Programme in the field of civil protection within the framework of its external cooperation. The main objective is to contribute to political and security confidence-building in the Euro-Mediterranean area as well as to further promote and support the establishment of a Euro-Mediterranean system of Civil Protection.

The purpose of the MED2007 Exercise was to activate National Operational Centres of all 10 Mediterranean States, 27 EU Member States and the MIC (Monitoring and Information Centre) in order to test their reactivity and the efficiency of the Euro-Mediterranean Civil Protection coordination, in particular as regards the actions of the relief teams of the international assistance on the Mediterranean basin.

### TSUNAMI SIMULATION MODEL

PREVIEW has contributed to MED2007 with two models simulating an earthquake followed by a tsunami in the Mediterranean Sea.

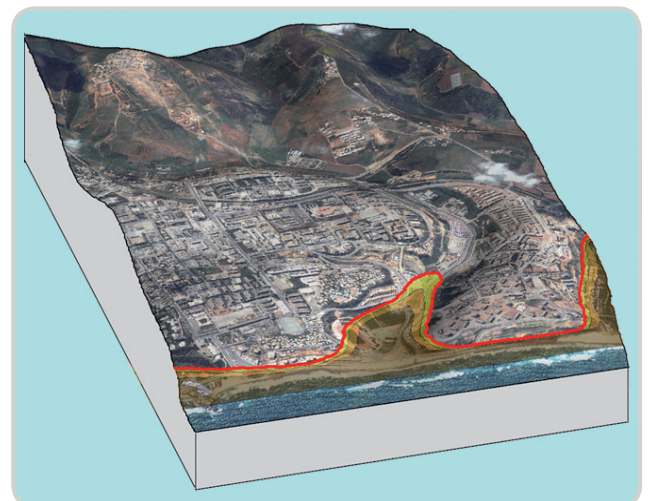


Modelling and simulation of the tsunami propagation  
Source: INGV

### DAMAGE ASSESSMENT AND ASSET MAPPING

Asset mapping products provide updated information on assets and improve the knowledge about areas prone to risks and the impact of natural and technological hazards. During the MED2007 Exercise, a large number and different kinds of asset mappings have been used to identify the areas with a high risk of tsunami.

The following asset mapping product developed by PREVIEW for the MED2007 Exercise shows the potential impact of the tsunami on the low altitude areas and the sea side areas. The flood extent of a tsunami wave on the coastal areas has been estimated through Digital Elevation Models (DEM).



Localisation of areas prone to a tsunami wave  
Source: SERTIT/CNES

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## LIST OF PARTNERS

- INFOTERRA France, France
- Direction de la Défense et de la Sécurité Civile – Ministère de l'Intérieur, France
- Meteo France, France
- TELESPIAZIO, Italy
- Swedish Rescue Services Agency, Sweden
- Presidenza del Consiglio dei Ministri – Dipartimento della Protezione Civile, Italy
- Swedish Meteorological and Hydrological Institute, Sweden
- Met Office, UK
- European Centre for Medium range Weather Forecast, UK
- Istituto Nazionale di Geofisica e Vulcanologia, Italy
- Università di Firenze- Dipartimento di Scienze della Terra, Italy
- Joint Research Center, International Organisation
- Centre National d'Etudes Spatiales, France
- Ingeniería y Servicios Aeroespaciales, S.A., Spain
- Infoterra GmbH, Germany
- Centro di Ricerca Interuniversitario in Monitoraggio Ambientale, Italy
- Consiglio Nazionale delle Ricerche, Italy
- Advanced Computers Systems, Italy
- Agenzia Regionale Prevenzione e Ambiente dell'Emilia Romagna, Italy
- Agenzia Regionale Prevenzione e Ambiente della Liguria, Italy
- Bundesanstalt für Gewässerkunde, Germany
- Bayerisches Landesamt für Wasserwirtschaft, Germany
- Critical Software, Portugal
- Stichting Waterloopkundig Laboratorium, The Netherlands
- DEIMOS Engenharia, Portugal
- EADS Defence and Security Systems SA, France
- Deutscher Wetterdienst, Germany
- European Mediterranean Seismological Center, International Organisation
- Finnish Meteorological Institute, Finland
- Universidad de Valladolid - Remote Sensing Laboratory, Spain
- Geopikonisis, Greece
- Geomer GmbH, Germany
- GMV S.A., Spain
- GeoSciences Consultants, France
- Universität Karlsruhe (TH), Germany
- Leibnitz Institute für Oekologische Raumentwicklung e.V, Germany
- Universität Stuttgart : Institut für Wasserbau / Lehrstuhl für Hydrologie und Geohydrologie, Germany
- Bogazici University - Kandilli Observatory and Earthquake Research Institute, Turkey
- Université Joseph Fourier Grenoble 1 : Laboratoire d'étude des Transferts en Hydrologie et Environnement, France
- Meteoswiss (Federal Office for Meteorology and Climatology), Switzerland
- LANTMÄTERIET METRIA, Sweden
- Meteorologisk Institut, Norway
- National Observatory of Athens, Greece
- NOVELTIS, France
- PLANETEK, Italy
- Regione Lombardia, Italy
- Université Louis Pasteur (Service Régional de Traitement d'Images et de Télédétection), France
- Swedish Geotechnical Institute, Sweden
- TECHNOSYLVA, SL, Spain
- Universidad de Alcalá de Henares (Department of Geography), Spain
- Universidad Complutense de Madrid, Spain
- Environmental Protection and Water Management Research Institute, Hungary
- Agenzia Regionale per la Protezione Ambientale del Piemonte, Italy
- United Nations Office for Project Services (UNOSAT), International Organisation
- Centre National de la Recherche Scientifique (Laboratoire d'Energétique de Mécanique Théorique et Appliquée), France

## COORDINATOR

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## PROJECT INFORMATION

PREVIEW: PREVENTION, INFORMATION and EARLY WARNING pre-operational services to support the for management of risks  
Integrated Project  
Contract no: SIP4-CT-2005-516172  
Starting date: 01/04/2005  
Duration: 45 months  
EU contribution: € 14.334.000  
Estimated total cost: € 22.911.000

