

Strasbourg, 15 April 2008

AP/CAT (2008) 4 rev.  
Bil.

**ACCORD EUROPEEN ET MEDITERRANEEN  
SUR LES RISQUES MAJEURS  
(EUR-OPA)**

**EUROPEAN AND MEDITERRANEAN  
MAJOR HAZARDS AGREEMENT  
(EUR-OPA)**

*RESEAU DES CENTRES EURO-MEDITERRANEENS SPECIALISES DE  
L'ACCORD EUR-OPA RISQUES MAJEURS*

**PROGRAMMES COORDONNES PROPOSES EN 2008**

*NETWORK OF SPECIALISED EURO-MEDITERRANEAN CENTRES OF THE EUR-OPA MAJOR  
HAZARDS AGREEMENT*

**COORDINATED PROGRAMMES PROPOSED IN 2008**



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**EDUCATION SCOLAIRE / SCHOOL EDUCATION**

**Web/télé par et pour les enfants pour l'éducation environnementale/risques liés aux changements climatiques (CRSTRA - Centre de Recherche Scientifique et Technique sur les Régions Arides, Biskra)**

**PAYS CIBLES :** Algérie, Espagne, Maroc, Italie, Grèce, Turquie et France.

**COORDINATEUR LOCAL:** LAKHDARI Fattoum

**Autorités Nationales:** Education et Société civile.

**OBJECTIF DU PROJET**

**Objectifs globaux:**

Echanges d'expériences en matière d'éducation et de gestion des risques majeurs

**Objectifs spécifiques 2008:**

Mise au point d'un Web/télé.

**RESULTATS OBTENUS ANTERIEUREMENT**

- Elaboration d'un cours au bénéfice des enfants du collège et dont l'action sera étendue chaque année.
- Adhésion et expression des enfants à travers plusieurs activités (chants, poésie, pièces théâtrales)
- Adhésion et intérêt des éducateurs de ces clubs verts (bien qu'ils ne sont pas chercheurs) aux journées Internationales du 15 au 17 Décembre 2007 organisées au CRSTRA

**RESULTATS ATTENDUS EN 2008**

- Mise au point d'un Web/télé
- Développement des relations internes et externes dans le cadre d'un réseau international

**ACTIVITES ASSOCIEES EN 2008**

- Rencontres scientifiques : Atelier Régional sur les Zones Humides en Milieu Aride et gestion des ressources naturelles. (date: du 1 au 6 Février)
- Célébration de la Journée Mondiale de l'Eau et sensibilisation sur gestion rationnelle de cette ressource. (date: Mars)
- Journées de sensibilisation pour la préservation des Bioressources locales et portes ouvertes à la station expérimentale d'ELOUTAYA « Station Bioressources ». (date: Avril)
- Journées Internationales sur l'aridoculture. (date: Novembre)

**Contribution to the BESAFENET Project (CUEBC - Centro Universitario Europeo Per I Beni Culturali, Ravello)**

**PAYS CIBLES :** Italie, France, Chypre, Bulgarie.

**COORDINATEUR LOCAL:** Armando Mauro

**AUTRES PARTICIPANTS :**

**Centres spécialisés :** Besafenet Centre (Chypre), ECRP (Bulgarie) , CERG (France)

**OBJECTIF DU PROJET**

Contribution à l'implémentation du site internet. Participation aux réunions de travail.

**RESULTATS OBTENUS ANTERIEUREMENT**

Participation au workshop de Pafos (29-30 Octobre 2007)

**RESULTATS ATTENDUS EN 2008**

Implémentation du site internet

**ACTIVITES ASSOCIEES EN 2008**

- Réunion du Groupe Thématique sur l'Education (date : 16-17 Mai)
- Documentation sur le risque volcanique 2008

**Development of educational material on Coastal Hazards / Risks (ICoD - Euro-Mediterranean Centre on Insular Coastal Dynamics, Gozo)**

**TARGET COUNTRIES :** International but largely Euro-Mediterranean

**LOCAL COORDINATOR:** Dr. Anton Micallef, ICoD

**OTHER PARTICIPANTS :**

**Specialized Centres :** European Centre for Disaster Awareness with the use of the internet, (BE-SAFE-NET), Oceanographic Centre of Biarritz

**Countries Authorities :** Educational authorities / experts

**OBJECTIVE OF THE PROJECT**

***Global objectives***

The objective of this initiative will be to develop a wide range of educational material concerning coastal hazards and related risks as a direct contribution to the BeSafeNet project.

***Specific objectives for 2008***

More specifically, educational material that emphasizes different levels of knowledge and including substantial graphical output concerning coastal hazards and related risks (e.g flooding, erosion / shore instability, increased storminess and related impacts, tsunamis) shall be compiled.

**EXPECTED RESULTS IN 2008**

Planning and drafting meetings with project partners will be organized. Drafts of educational material on a number of coastal hazards will be prepared.



**Camp Training for Young People and Children for Raising Sensibility for Forest Fires (AFEM - European Natural Disaster Training Center, Ankara)**

**TARGET COUNTRIES :** (EUR-OPA member countries schools-universities) participants will be selected by EUR-OPA specialized centers

**LOCAL COORDINATOR:** Dr. Nehir VAROL (Director of AFEM)

**OBJECTIVE OF THE PROJECT**

The Ministry of Environment and Forestry is planning a 5-day camp training for young people and children (primary, secondary school, high school and universities students) in order to raise sensibility for forest fires and to implant forest love, which will be organized every year in central countries of EUR-OPA including our own. Forest fires in our country, especially those that occur in the Mediterranean, Aegean, and Marmara regions cause serious damage. In Greece, Italy, Portugal, Spain and France all of which are in the same zone, forest fires are a serious problem that causes serious damage. The sustainable training of the young population of these countries will be beneficial in preventing at least the human-caused forest fires, in eliminating the natural ones before they expand or cause further damage.

**ASSOCIATED ACTIVITIES IN 2008**

- Preparation and distribution of materials for children such as educative magazines-booklets, t-shirts, and stickers
- Pilot Application of Continuing Training Beginning with Primary Schools In Order to to Develop a Natural Disaster-Conscious Society

**EDUCATION UNIVERSITAIRE / UNIVERSITY EDUCATION**

## **Post-graduate Training School 2008 (CERG - European Centre on Geomorphological Hazards, Strasbourg)**

**TARGET COUNTRIES:** Several Euro-Mediterranean and Eastern countries

**LOCAL COORDINATORS:** Prof. Jordi Corominas (CERG executive member), UPC Barcelona

**OTHER PARTICIPANTS:**

**Specialized Centres:** Higher Institute of Emergency Planning (Florival, Belgium))

### **OBJECTIVE OF THE PROJECT**

#### ***Global objectives***

To provide high-level training school in the field of hazard and risk management to European young scientists and promote scientific and technological excellence in the science of hazard and risk by organizing a multi-disciplinary high-level school in 2008 (in addition of the school organized in 2006 in Bonn and focused on “*Muti-Risks: concepts to approach multiple hazards*“)

#### ***Specific objectives for 2008***

This high-level school is conceived as the continuity of the course on ‘Concepts to Approach Multi-Hazards’ (Bonn, 2006) but organized independently and participants will not be asked to have participated in the Bonn training school. The main goal of the school will be both to introduce the components for the QRA and put into practice the procedures available for assessing them. These are the main topics to develop during the school:

- 1) Review of basic concepts. Risk prediction, assessment and management framework
- 2) Quantitative assessment of susceptibility components (spatial probability and magnitude)
- 3) Quantitative assessment of hazard components (temporal probability and intensity)
- 4) Quantitative assessment of risk components (elements at risk, vulnerability, societal and individual risk).
- 5) Risk management and mitigation strategies. Remedial measures: stabilisation and protective measures. Early warning and evacuation.
- 6) Risk perception. Risk communication. Education for risk protection.
- 7) Documented case histories and seminars. Field-visits

The training school will be held at the Department of Geotechnical Engineering –Civil Engineering School – UPC, Barcelona, and will last for 1 week (September 2008). Field work will be carried out at Andorra la Vella and Canillo (Principality of Andorra). Andorra offers an excellent opportunity to present and discuss both susceptibility and hazard zoning, hazard and risk management strategies that have been developed by the Administration, a variety of remedial measures for different types of hazards.

#### **Practical organization**

Prof. Corominas is the chair of the local organizing committee and responsible of the programme of the school as well as the invitation of speakers. He will be supported by local people from his own staff, and CERG Secretary (O. Maquaire, J.-P. Malet) for financial management.

#### **Involvement of other specialized centres:**

The participation of staff member from the APO Specialized Centre ISPU (Higher Institute of Emergency Planning, Florival, Belgium) is expected in order to highlight European rules and legislation in the field of hazard and risk.

#### **RESULTS OBTAINED PREVIOUSLY**

During the training school in Bonn students have gained profound knowledge on how to gather process and modeling knowledge of a variety of hazardous processes such as earthquakes, landslides, snow avalanches, slush flows, and flooding. Furthermore, multi-hazard and –risk concepts have been discussed and the understanding of the importance of interdisciplinary collaboration, especially within the context of multiple risk assessment, has been enhanced. Hence, the students have gained profound knowledge on natural hazard and risk assessment in general and in particular for the multi-risk perspective.

#### **EXPECTED RESULTS IN 2008**

The attendees will gain basic knowledge on current state-of-the-art concepts of addressing quantitative Risk Assessment. The basic knowledge includes (a) the principles of sustainable risk management strategies, (b) the procedures and methods to obtain information on hazards and risks, (c) the analytical capability to perform hazard and risk analysis on various temporal and spatial scales, and (d) to link respective results to general land use planning procedures. Field-trips will demonstrate already implemented strategies for characteristic examples.

## **Workshop de l'ECGS (ECGS - Centre Europeen de Geodynamique et de Seismologie, Walferdange)**

**PAYS CIBLES :** tous les pays de l'accord

**COORDINATEUR LOCAL:** Dr. Adrien Oth (ECGS)

**AUTRES PARTICIPANTS :**

**Autres Centres spécialisés:** Geophysical Institute of the University of Karlsruhe, Germany

**Autorities Nationales:** Ministère de la Culture, de l'Enseignement Supérieur et de la Recherche du Grand-Duché de Luxembourg / Musée national d'histoire naturelle du Luxembourg

### **OBJECTIF DU PROJET**

#### ***Objectifs globaux***

Traditionnellement l'ECGS organise ses activités d'éducation appelées « Workshop » qui réunissent des spécialistes autour d'un thème scientifique proche des préoccupations de l'Accord EUR-APO Risques Majeurs. Ils sont consacrés aux problèmes les plus divers posés en géodynamique et en séismologie et constituent un forum où les participants exposent leurs difficultés et cherchent, en commun, à explorer les voies nouvelles. Pour assurer la valeur scientifique des communications, nous recherchons le patronage des Unions Scientifiques Internationales à travers leurs Commissions spécialisées. Les actes de ces réunions sont publiés dans les « Cahiers du Centre Européens de Géodynamique et de Séismologie ». A ce jour 26 cahiers ont été publiés. Ces cahiers et la publication des « Proceedings » doivent être considérés comme une contribution de niveau universitaire troisième cycle au programme FORM-OSE.

#### ***Objectifs spécifiques pour 2008:***

The European Center for Geodynamics and Seismology plans to organize a workshop with the preliminary title '**Tectonic structures and processes in South-Eastern Europe**', in cooperation with the Geophysical Institute of the University of Karlsruhe, Germany. South-Eastern Europe, including among others the seismically highly active regions in Romania (Vrancea), Greece and the city of Istanbul in Turkey, which is subjected to one of the highest seismic hazards in the world, has the strongest need for seismic risk reduction practices in Europe. In order to be able to achieve this goal, strong efforts are currently made to better understand the tectonic processes as well as the earthquake properties in the region.

The principal aim of the workshop shall be to provide an integrated view of the geodynamics and seismicity of the region to the participants and assemble experts working on the geodynamic evolution, seismicity and seismic hazard assessment in South-Eastern Europe to provide a platform to them to exchange their recent findings and opinions. The workshop shall be held mid/end of November 2008 in Luxembourg.

#### **RESULTATS OBTENUS ANTERIEUREMENT**

- Publication des Proceedings des Workshop de l'ECGS

#### **RESULTATS ATTENDUS EN 2008**

- Organisation du workshop

**La mise en valeur des paysages culturels comme action de développement local et de réduction de la vulnérabilité face aux desastres naturels (CUEBC - Centro Universitario Europeo per i Beni Culturali, Ravello)**

**PAYS CIBLES :** Pays extraeuropéens

**COORDINATEUR LOCAL:** Ferruccio Ferrigni

**AUTRES PARTICIPANTS :**

**Centres Specialises:** CRSTRA, AFEM

**OBJECTIF DU PROJET**

***Objectifs globaux***

Former des figures professionnelles qui peuvent supporter les décideurs locaux dans la mise au point de projets de développement locale fondé sur la mise en valeurs des « Paysages Culturels » au travers de la re-connaissance et l'up-grade des savoirs qui ont engendré ces paysages qui, en en attestés, sont forcément éco-compatibles.

***Objectifs spécifiques pour 200:***

Sélectionner les candidats

Définir les programmes détaillés du cours

Identifier les expert à impliquer

**RESULTATS OBTENUS ANTERIEUREMENT (si pertinent)**

Le cours s'inscrit dans un de semestres du Master « MACLANDS » (Management of Cultural Landscapes », qui est inclu parmi les 23 Master sélectionnés pour le Programme Erasmus Mundus 2008-2013

**RESULTATS ATTENDUS EN 2008**

- Liste des candidats admis
- Programme détaillé

**ACTIVITES ASSOCIEES EN 2008**

- Réunion pour la sélection des candidats extra UE (Stuttgard, 06.02.2008)
- Réunion pour la sélection des candidats UE (Ravello, juin 2008)
- Réunion pour la définition des programmes (Ravello, juin 2008)

## **EDUCATION PROFESSIONNELLE / VOCATIONAL EDUCATION**

**Scientific seminar on Education, defense and security in the mitigation of natural risks (ECMNR - European Center for Mitigation of Natural Risks, Bucharest)**

**TARGET COUNTRIES:** EUR-OPA member states

**LOCAL COORDINATOR:** ECMNR

**OTHER PARTICIPANTS:**

*Specialized Centres: EUR-OPA Network of Scientific Centers*

*Countries Authorities: Ministry of Public Local Administration*

**OBJECTIVE OF THE PROJECT**

***Global objectives:***

To develop the culture of cooperation and harmonization of common measures in the mitigation of risks of the Central, Local Government, NGOs by increasing the educational level. To identify the defence measures and security of population and tangible properties. To mitigate the natural risks.

***Specific objectives for 2008:***

To define the educational forms and methods. The draft of a ABC as contribution in the mitigation of risks.

**EXPECTED RESULTS IN 2008**

- The collection of communications and their generalization. Selection of proposals for ABC.

**ASSOCIATED ACTIVITIES IN 2008**

- To develop the measures resulted from the proposals made in communications (date: April)
- To publish the emergency measures in the mitigation of risks (date: June)

**The Standardization of Geo-Technical Studies, and Information on the Geotechnical Studies Performed in San Andreas Fault Region (AFEM - European Natural Disaster Training Center, Ankara)**

**TARGET COUNTRIES :** All EUR-OPA Countries

**LOCAL COORDINATOR:** Dr. Nehir VAROL (Director of AFEM)

**OBJECTIVE OF THE PROJECT**

The General Directorate of Disaster Affairs is responsible for maintaining geo-technical studies that will be the basis of safe structuring in earthquake regions. Determining the safe areas in regions under earthquake risk before the preparations of development plans can be possible only by very well trained experts. In order to enhance the proficiency of technical personnel in geo-technical studies and to balance these studies with the ones that are maintained in the world through standardization, our ministry intends to maintain its activities of such training with AFEM. As is known, the North Anatolian Fault Line, which gives Turkey the characteristic of being a country subject to earthquakes, is similar to that of San Andreas in America in respect to its mechanical qualities. In order to obtain information on geo-technical studies in the regions affected by the San Andreas Fault, and in order to frame the studies on this subject to a standard, such a workshop is very necessary.

**ASSOCIATED ACTIVITIES IN 2008**

- Restructuring After the Disaster
- The Training of The Standardization of Assessment of Damage and Achieving it Through Computer Aid
- Information on the Geo-Technical Studies : methodology, procedure and format date: June 2008

*Details:* Development of the methodology, procedure and format for Geo-Technical Studies

- Expert meeting date: December 2008

*Details:* Presentation and review of achievements, professional consensus, discussion and agreement with EUR-OPA countries authorities and Specialists from USA

- Workshop date: May 2009

*Details:* Presentation about Geo-technical studies on active fault zones and around, examples from countries



**Civil Defense and Protection European School (CEMEC - European Centre for Disaster Medicine - San Marino)**

**TARGET COUNTRIES:** San Marino Republic, Italy, USA

**LOCAL COORDINATOR:** Prof. Alessandro BARELLI (CEMEC, San Marino)

**OTHER PARTICIPANTS:**

**Countries Authorities:** NBCR Fire Brigade Command, Rome Civil Protection Direction, Rome Local Government

**Others:** Poison Centre, Catholic University School of Medicine; Arizona University

**OBJECTIVE OF THE PROJECT**

***Global objectives***

To establish an international centre for permanent education in civil-defence protection.

**Target audience:** Physicians, Nurses, Emergency services operators, Fire fighters, Public officers, Police personnel, Civil Protection Operators, Army personnel.

**Specific objectives:** To know basic and advanced aspects of conventional and not conventional mass casualties emergencies, civil defence emergency plans, protection of population.

**EXPECTED RESULTS IN 2008**

- To recruit the international faculty
- To establish regulations of the school
- To design the educational macro and microproject

**ASSOCIATED ACTIVITIES IN 2008**

Advanced Management of Mass casualties emergencies

date: Oct 6-8, San Marino

AHLS: Advanced Hazmat Lite Support Provider Course

date: May 9-11, Algarve (Portugal)

## **VULNERABILITE / VULNERABILITY**

## **Harmonization of Seismic Hazard Maps in Balkans (ECILS - European Center on Vulnerability of Industrial and Lifeline Systems, Skopje)**

**TARGET COUNTRIES:** All EUR-OPA MHA Countries  
**LOCAL COORDINATOR:** Prof. Dr. Zoran MILUTINOVIC, Director ECILS-Skopje

### **OTHER PARTICIPANTS :**

#### ***Specialized Centres:***

ECBR - European Centre for Rehabilitation of Buildings (Bucharest, Romania), and National Institute for Earth Physics (NIEP - Bucharest, Romania), AFEM - European Natural Disasters Training Centre (Ankara, Turkey) and Middle East Technical University (METU - Ankara, Turkey), ECPFE - European Centre on Prevention and Forecasting of Earthquakes (Athens, Greece)

#### ***Other national Centres:***

Aristotle University of Thessaloniki, Department of Geophysics (AuTH – Thessaloniki, Greece), Polytechnic University of Tirana, Institute of Geosciences, Department of Seismology (Tirana, Albania), Department of Geophysics, Faculty of Sciences, University of Zagreb Croatia (Zagreb, Croatia), Seismological Survey of Bosnia and Herzegovina (Sarajevo – Banja Luka, Bosnia and Herzegovina), Seismological Survey of Serbia (Belgrade, Serbia), Montenegro Seismological Observatory (Podgorica, Montenegro), Environmental Agency of the Republic of Slovenia, Seismology office, Ministry of Environment (Ljubljana, Slovenia)

#### ***Countries Authorities:***

National authorities responsible for operative management of postdisaster effects and relief operations of DPPI Countries<sup>1</sup>, Ministries sectorally responsible for seismology and enforcement of Seismic Design Codes and Standards

### **OBJECTIVE OF THE PROJECT**

#### ***Global objectives :***

To filter-up, update and prepare professionally consensused historic and instrumental earthquake catalog database for elaboration of new seismic hazard maps of Balkan region based on a modern scientific methodology approach, which will ensure harmonization within the region, and also with the European (EUROCODE 8) standards.

To improve cooperation between 9 participating countries in the region of SEE and to enhance joint coordination and cooperation in the field of seismic hazard as an important tool for prevention and preparedness activities, and disaster management in whole.

*1 The Disaster Management Training Program (DMT Program) for national agencies responsible for emergency function started in 2002 as the core activity of the Stability Pact's Disaster Preparedness and Prevention Initiative (DPPI). The countries involved (DPPI Countries) are: Albania, Bulgaria, Bosnia and Herzegovina, Croatia, Greece, Hungary, Macedonia, Moldova, Romania, Serbia and Montenegro, Slovenia and Turkey.*

#### ***Specific objectives for 2008:***

Completion of analyses for harmonization of provided Earthquake Catalogues, Creation of 'joint' Balkan earthquake catalogue in consensused format, preparation of data for seismic hazard modeling and definition of characteristics of seismogenic zones with transborder influence; organization of 2nd EUR-OPA MHA CA Workshop "**Harmonization of Seismic Hazard Maps in Balkans**" in relation to NATO SfP 983054 Project "**Harmonization of Seismic Hazard Maps for the Western Balkan Countries**".

### **RESULTS OBTAINED PREVIOUSLY**

Identification of the state of the data by countries involved, consensus on the format of Balkan earthquake catalogue, exchange of Earthquake catalogues of participating countries; commencement of analyses of provided Earthquake catalogues.

#### ***Other associated activities:***

• Launch of NATO SfP 983054 Project "**Harmonization of Seismic Hazard Maps for the Western Balkan Countries**", Podgorica, Montenegro date: 2.10.2007

**Details:** Official ceremonial launch of the NATO SfP 983054 Project.

• 1st Intl. Workshop on NATO SfP 983054 Project "**Harmonization of Seismic Hazard Maps for the Western Balkan Countries**", Ig, Slovenia date: 7-8.11.2007

**Details:** Exchange on national experiences and information on data available for project performance, discussion and agreements on methodological approaches to be used for NATO Sfp 983054, Synthesis on instrumentation available for strong and weak motion recording to be deployed in participating countries, Road map for further Sfp 983054 and EUR-OPA MHA CA project development and interlinking; Agreement and Agenda for 2nd International Workshop in Skopje.

• Kick of Meeting/Workshop on EUR-OPA MHA CA "**Harmonization of Seismic Hazard Maps in Balkans**" and 2nd Intl. Workshop on NATO Sfp 983054 Project "**Harmonization of Seismic Hazard Maps for the Western Balkan Countries**", Skopje, Macedonia *date: 17-18.12.2007*

**Details:** Integration of Earthquake Catalogues of the Western Balkan Countries; Discussion on delineation of potential seismic zones affecting the NATO Sfp 983054 member states; Exchange of experiences in using the OHAZ smoothed seismicity software tool; Information on bid preparation for planned strong and weak motion instrumentation; Road map for further Sfp 983054 and EUR-OPA MHA CA project developments.

#### **EXPECTED RESULTS IN 2008**

Creation of 'joint' Balkan earthquake catalogue in consensused format, identification and harmonization of data on earthquakes with different national inputs; Preparation of data for seismic hazard modeling and definition of characteristics of seismogenic zones with transborder influence; Organization of 2nd EUROPA MHA CA Workshop "**Harmonization of Seismic Hazard Maps in Balkans**".

#### **ASSOCIATED ACTIVITIES IN 2008**

• 2nd Meeting/Workshop on EUR-OPA MHA CA "**Harmonization of Seismic Hazard Maps in Balkans**". *date: October-November 2008*

**Details:** Presentation of 'joint' Balkan earthquake catalogue, Discussions and consensus on data prepared for seismic hazard modeling and defined characteristics of seismogenic zones with transborder influence; Planned participation 15 international and 8-12 national representatives.

**Distance automatic on-line control of buildings engineering construction frames  
(ECNTRM - European Center For New Technologies Of Risk Management, Moscow)**

**LOCAL COORDINATOR:** ECNTRM (Kudrin)  
**OTHER PARTICIPANTS :** *no*

**OBJECTIVE OF THE PROJECT**

***Global objectives***

To develop methodic of distance automatic on-line control of buildings engineering construction frames.

***Specific objectives :***

To collect and analyze proposals for the methodic.

**Creation of National Database on Landslides (GHHD - Geodynamical Hazards of High dams, Tbilisi)**

**TARGET COUNTRIES :** Georgia, Armenia, Azerbaijan, Turkey

**LOCAL COORDINATOR:** Prof. T. Chelidze

**OTHER PARTICIPANTS**

**Specialized Centres :** CERG (Strasbourg), E CMHT (Baku), ECTR (Armenia)

**Countries Authorities :** Ministry of Environment Protection and Natural Resources of Georgia.

**OBJECTIVE OF THE PROJECT**

**Global objectives :**

Creation of National Databases on Landslides for 1907-2007

**Specific objectives for 2008 :**

Collection of data on the date, location and intensity of landslides on the territory of Georgia

**RESULTS OBTAINED PREVIOUSLY**

Earlier the prognostic map of potentially landslide-prone areas has been compiled.

**EXPECTED RESULTS IN 2008**

The database, containing information on the date, location and intensity of landslides for 100 years on the territory of Georgia will be compiled. This allow validation the prognostic landslide map and also to define the frequency-intensity relation for landslides, which will be the analogue of Gutenberg-Richter distribution in seismology. In turn the relation will be useful for assessment of landslide hazard for a given territory.

The international workshop for countries of Caucasus for discussion of obtained results and application of the used methods to the whole Caucasus will take place in Tbilisi.

**ASSOCIATED ACTIVITIES IN 2008**

Collection of data on the date, location and intensity of landslides on the territory of Western Georgia (date: 01.06.2008)

Collection of data on the date, location and intensity of landslides on the territory of Eastern Georgia (date: 01.11.2008)

International workshop on National Databases of Landslides (date: 20.11 2008)

**Seismic Vulnerability Inherent to National Education System Buildings and Facilities (ECILS - European Center on Vulnerability of Industrial and Lifeline Systems, Skopje)**

**TARGET COUNTRIES :** All EUR-OPA MHA Countries  
**LOCAL COORDINATOR:** Prof. Dr. Zoran MILUTINOVIC, Director ECILS-Skopje  
**OTHER PARTICIPANTS :**

**Specialized Centres:** All EUR-OPA MHA Centres, in particular: ECILS- European Centre on Vulnerability of Industrial and Lifeline Systems (Skopje, FYROM), ECRB- European Centre for Rehabilitation of Buildings (Bucharest, Romania), AFEM - European Natural Disasters Training Centre (Ankara, Turkey), ECTR - European Interregional Educational Centre for Training Rescuers (Yerevan, Armenia), CEPRIS - Euro-Mediterranean Centre for Evaluation and Prevention of Seismic Risk (Rabat, Morocco), ECPFE - European Centre on Prevention and Forecasting of Earthquakes (Athens, Greece)

**Countries Authorities:** National authorities responsible for operative management of national Education System Buildings and Facilities in EUR-OPA MHA region

**OBJECTIVE OF THE PROJECT**

**Global objectives**

Administrative assessment of Seismic Vulnerability Inherent to National Education System Buildings and Facilities in EUR-OPA MHA member countries for defining overall level of pertinent seismic risk as a basis for long term mitigation and prevention action; creation of international data base for assessed education buildings and facilities. Only buildings and facilities under national public educational system will be assessed.

**Specific objectives for 2008**

Distribution of forms and implementation instructions/guidelines (ECILS-Skopje, in English) to all EUROPA MHA Centers; Critical analysis of forms for national applicability (by EUR-OPA MHA Centers) and adoption of consensused harmonized form, Distribution of forms through the Ministries for Education (full name depending of Country) to be filled by school administrators and feed back.

**RESULTS OBTAINED PREVIOUSLY**

ECILS-Skopje in cooperation with UNICEF developed 2 forms for educational building and facility assessment. The first one assess the organizational aspects and the administrative position of the school (characteristic for the organization of Education system in Macedonia and some neighboring countries), while the second one is form for building-by-building existing conditions identification and assessment, suitable for generalized earthquake damage evaluation at individual building level. Forms are suitable for being implemented by school administrators and do not require specialist knowledge on technical aspects of building construction and hazard exposure.

**EXPECTED RESULTS IN 2008**

Consensused methodology and forms for education building and facility assessment, distribution of forms to school administrators, collection of potential feed backs, preliminary analysis of data acquired.

**ASSOCIATED ACTIVITIES IN 2008**

• Kick-off meeting/Workshop on "Seismic Vulnerability Inherent to National Education System Buildings and Facilities" *date: April or May 2008*

Details: Presentation of the methodology, format and forms for education buildings and facilities inventory and vulnerability assessments; Consensus on content and procedure, Defining regional focal point EUR-OPA MHA coordination Centers. Planned participation 10-15 international and 5 national representatives, plus UNDP, UNICEF, OECD PEB Programme.

**ALERTE PRECOCE / EARLY WARNING**



**Landslide forecast using remote sensing data (GHHD - Geodynamical Hazards of High dams, Tbilisi)**

**TARGET COUNTRIES :** Georgia, Armenia, Azerbaijan, Turkey

**LOCAL COORDINATOR:** Prof. T. Chelidze

**OTHER PARTICIPANTS**

**Specialized Centres :** CERG (Strasbourg), E CMHT (Baku), ECTR (Armenia)

**Countries Authorities :** Ministry of Education and Science of Georgia, Ministry of Environment Protection of Georgia, Ministry of Internal Affairs of Georgia

**OBJECTIVE OF THE PROJECT**

**Global objectives**

Application of remote sensing data on rainfall for big landslide forecast

**Specific objectives for 2008 :** Combining map of location and intensity of landslides on the territory of Georgia with satellite data on heavy rainfalls.

**RESULTS OBTAINED PREVIOUSLY (if any)**

Earlier the prognostic map of potentially landslide-prone areas has been compiled

**EXPECTED RESULTS IN 2008**

Combining map of location and intensity of landslides on the territory of Georgia with satellite data on heavy rainfalls allow probabilistic forecast of big landslides. It has been shown recently (EOS, vol.88, N 37, 2007) that these two data provide the basis for forecast with a probability 0.76. We'll use GIS-based landslide susceptibility maps and remote sensing data on precipitation from the web-site <http://trmm.gsfc.nasa.gov> in order to validate the technique for Georgia and Caucasus

**ASSOCIATED ACTIVITIES IN 2008**

- Collection of data on the date, location and intensity of landslides on the territory of Georgia and Caucasus (date: 01.03.2008)
- Collection of remote sensing data on the precipitation on the territory of Georgia and Caucasus (date: 01.08.2008)
- Probabilistic forecast of big landslides on the territory of Georgia and Caucasus (date: 20.11 2008)

**Development of a common methodology and tools to evaluate earthquake hazard in Europe (CERU - European Center on Urban Risks, Lisbon)**

**TARGET COUNTRIES :** Portugal, Morocco, Georgia, Italy, Turkey, Germany, UK, Azerbaijan and Armenia.

**LOCAL COORDINATOR:** Luís Mendes-Victor

**OTHER PARTICIPANTS :**

**Specialized Centres :** CERU, CEPRIS, ECMHT, ECTR, AFEM, GHHD

**Countries Authorities :** Center of the Geophysics, University of Lisbon, Portugal

**OBJECTIVE OF THE PROJECT**

**Global objectives :**

To create un unified framework for seismic hazard assessment and produce a comprehensive probability model

**Specific objectives for 2008 :**

Elaboration of the European Proposal to be submitted next February, 25, according to the FP7 cooperation work program announced call.

**RESULTS OBTAINED PREVIOUSLY (if any)**

Regional and national assessment seismic hazard already developed at the involved areas.

**EXPECTED RESULTS IN 2007**

Positive answer from the invited participants

**ASSOCIATED ACTIVITIES IN 2008**

- Compilation of the content of the Project; date: February 2008  
*Details:* Meeting of the participants if necessary
- Exchange of commitments to perform the tasks of the Project date: September 2008  
*Details:* 3 days Meeting of 15 to 20 individual participants
- Meeting of the PI's to check the results since the beginning. date: December 2008  
*Details:* INTERNET and eventual short Meeting ( one day)

**The Planning and Installation of Early Warning Systems in Meteorological Disasters, Recent Developments in New Systems (AFEM - European Natural Disaster Training Center, Ankara)**

**TARGET COUNTRIES :** All EUR-OPA Countries  
**LOCAL COORDINATOR:** Dr. Nehir VAROL (Director of AFEM)

**OBJECTIVE OF THE PROJECT**

It is observed that meteorological disasters such as aridness, flood, land sliding, hail, land erosion, avalanche have been more frequent and more drastic. In addition to this, it is also predicted that this acceleration will continue in the future resulting in serious loss of life and economical losses. Prevention and/or minimization of the effects of such disasters is possible with the prediction of extreme weather events. This international conference with the participation of institutions involved in meteorological issues in Turkey, WMO World Meteorology Organization, universities and the member countries of EUR-OPA will assess the recent studies on these disasters and early alarm systems.

**ASSOCIATED ACTIVITIES IN 2008**

Climate Change Conference

**LEGISLATION – GESTION / LEGISLATION - MANAGEMENT**

## **Rôle des autorités locales et régionales dans la réduction des risques de catastrophes (ISPU – Institut Supérieur de Planification d’Urgence, Florival)**

**PAYS CIBLES** : 1 ou 2 pays parmi les 25 Etats membres ou éventuellement un pays tiers (le choix dépendant des contributions reçues suite aux multiples appels)

**COORDINATEUR LOCAL**: Monique BERNAERTS, Alexandra SONCK

**AUTRES PARTICIPANTS**:

**Autorities Nationales**: Correspondants permanents ou partenaires de l'ISPU.

### **OBJECTIF DU PROJET**

#### **Objectifs globaux:**

Analyse comparée du rôle des autorités locales et régionales dans la réduction des risques de catastrophes :

Doc AP/CAT(2007)<sup>11</sup> : ouvrage actualisé rassemblant les bonnes pratiques identifiées au fur et à mesure des analyses nationales

Annexes nationales

#### **Objectifs spécifiques 2008:**

Etat des lieux du rôle reconnu aux autorités locales et régionales et analyse des mécanismes de coordination mis en place avec les autorités supérieures dans un ou plusieurs pays :

- Adaptation du Doc AP/CAT (2007)<sup>11</sup> et addendum en fonction des avancées de l'étude Annexe(s) nationale(s), en fonction de l'aide financière octroyée et des contributions des partenaires de l'Accord Eur-Opa Risques Majeurs.

### **RESULTATS OBTENUS ANTERIEUREMENT**

#### **2006**

Rapport de +/- 30 pages décrivant le rôle de proximité des autorités locales et régionales à chaque phase du cycle de la gestion des risques majeurs (Identification, prévention, préparation, gestion de crise, rétablissement et intégration des enseignements), proposant certaines bonnes pratiques en la matière.

#### **2007**

- Elaboration d'un questionnaire standard
- Appels à contributions lancés aux différents partenaires de l'Accord
- Synthèse sur la situation en Belgique (Diffusion élargie du questionnaire, récolte des données, tri et analyse, recherches et contacts visant à compléter les réponses au questionnaire, rapport de synthèse sur la situation en Belgique - transmission du document prévue le 1er février).

### **RESULTATS ATTENDUS EN 2008**

- Adaptation du Doc AP/CAT (2007)<sup>11</sup> et addendum en fonction des avancées de l'étude
- Annexe(s) nationale(s), en fonction de l'aide financière octroyée et des contributions volontaires des partenaires de l'Accord Eur-Opa Risques Majeurs : France et Maroc.
- Participation au projet de "Workshop sur les enseignements de la catastrophe de Tchernobyl), piloté par le centre spécialisé TESEC

### **ACTIVITES ASSOCIEES EN 2008**

- Intégration des bonnes pratiques identifiées dans le doc AP/CAT (2007)<sup>11</sup> et actualisation du questionnaire
- Analyse de la situation marocaine date: printemps  
*Détails: Récolte des données + analyse + échange d'experts*
- Analyse de la situation française date: Eté  
*Détails: Récolte des données + analyse + réunion de concertation*
- Participation au projet de "Workshop sur les enseignements de la catastrophe de Tchernobyl), piloté par le centre spécialisé TESEC date: septembre  
*Détails: La réunion de concertation du 21/1/2008 précisera la participation belge au workshop*

**National and municipal campaigns on informing and warning the populations about emergencies at central and municipal levels: basis for a regional early warning system for Southern Caucasian countries and neighboring states in trans boundary emergencies (ENCTR – European Interregional Educational Center for Training Rescuers – Yerevan)**

**TARGET COUNTRIES :** Armenia, the Southern Caucasus countries and neighboring countries, states – members of EUR-OPA Major Hazards Agreement, other concerned countries.

**LOCAL COORDINATOR:** European Interregional Educational Center for Training Rescuers

**OTHER PARTICIPANTS:**

*SPECIALIZED CENTRES:* Other interested European Centers.

*COUNTRIES AUTHORITIES:* Rescue Service of Armenia, Academy of Crisis Management, “Emergency Channel” Information Agency.

**OBJECTIVE OF THE PROJECT**

***Global objectives:***

*Long-term*

- Acquisition by Armenian population of knowledge and fundamental skills in properly reacting when informed and warned about imminent hazard or specific risks.
- Methodology of organization and holding of National and municipal Campaigns on informing and warning all social groups of population about emergencies at national, regional and municipal levels.
- Mitigation of consequences and reducing of losses of transboundary emergencies.
- Usage of experience, gained in training the population of the Republic of Armenia by the Southern-Caucasus countries and adjacent states.
- Development of a regional information and warning system on transboundary emergencies for populations of Southern Caucasian countries and adjacent states.

*Short term*

- Development of Methodic and Plan for actions aiming to develop and hold national and municipal “Campaigns” on informing and warning the populations about emergencies.
- Organization of municipal and nation-wide Campaigns on warning and informing of the populations about possible risks (ecological, industrial, nuclear, transport) threatening each particular country region and about what to do when warned.
- Implementation at both central and municipal (local) levels through leaders of local governance bodies, heads of schools, hospitals, polyclinics, industrial enterprises, offices and mass media commitment.

***Specific objectives for 2008:***

- Ongoing further developing, discussing, editing and polishing of final variants of general and supplementary information materials together with other materials included into the “Methodology and Plan for actions” for the use of the municipalities at special risks and special targeted groups of the populations;
- Ongoing further developing material-technical bases drawn on the modern technologies;
- Ongoing further carrying out of the necessary organizational measures;
- Participation in holding complex regional and municipal exercises aiming to organize and provide governance to measures aimed at informing, early warning and protection of population in the case of probable accidents occurred at potentially dangerous installations( such as the nuclear power plant or installations involved into storing, using or producing hazardous substances, reservoirs and etc.) as well as during simulated exercises aiming to respond to disasters with the natural trigger through developing them into regional and municipal “Campaigns” on informing and warning the populations about emergencies.
- Undertaking organizational measures to ensure a close bi- and multilateral cooperation and support by relevant international organizations, who have the interest into the mission.

**RESULTS OBTAINED PREVIOUSLY**

See Activity Report within the framework of the 2007 coordinated programs.

**EXPECTED RESULTS IN 2008**

1. Final English version of basic information materials:

- “Methodology and Plan for action aiming to develop and hold National and Municipal Campaigns on informing and warning the population about emergencies at central and

- municipal levels: basis for a regional early warning system for Southern Caucasian countries and neighboring states in trans-boundary emergencies”.
- “Information Leaflet: What to do first”
  - “The priority for actions to be undertaken by the populations if warned on a direct threat and in the case of disasters that likely to occur in Armenia”
  - “Brief information what to do first if warned on a direct threat of disasters”.
2. English draft versions of priority action undertaken by the population:
    - A Guide on priority action undertaken by population if a nuclear threat is imminent or real
    - A Guide on the rules of behavior at a real threat or occurrence of a flood risk
    - A Guide on rules of behavior in zones likely to be polluted by chemical substances
    - A Guide for families and individuals on how to prepare and survive to strong earthquakes
  3. Development of a pocket first aid handbook and testing it for different users (for rescuers, school children and students)
  4. Elaborate the final versions of basic tests and general recommendations for assessing and increasing safety for educational establishments, school administration and parents (developed in 2007) and, in cooperation with the Crises Management State Academy, submission of these materials to chosen pilot schools.
  5. Collaborate to a pilot Local Level Risk Management in the Ararat Marz (region), one of the high-risk areas in Armenia, aimed at strengthening the preparedness capabilities of general public and authorities on regional (Marz) and local (community) level.

#### **ASSOCIATED ACTIVITIES IN 2008**

- Issue final English versions of above mentioned documents related to the Campaign.
- Draft a first version of the first aid hand- book and test it with target groups.
- Issue/ broadcast various printed materials and TV/radio programmes and instilling the culture of disaster preparedness and prevention for the Ararat Marz.
- Implement (jointly with UNDP and Armenian Rescue Service) small-scale disaster mitigation projects in the Ararat Marz, with special attention for gender equality issues.

**Using Chernobyl experience for strengthening of cooperation between the central government, regional authorities and mass media for better nuclear safety of operating Nuclear Power Plants in Europe (TESEC - European Centre of Technological Safety, Kiev)**

**TARGET COUNTRIES :** EUR-OPA member-states

**LOCAL COORDINATOR:** TESEC

**OTHER PARTICIPANTS :**

**Specialized Centres :** EUR-OPA Network of Scientific Centers

**Countries Authorities :** The Council of Europe's Congress of Local and Regional Authorities

**OBJECTIVE OF THE PROJECT**

**Global objectives :**

The strengthening of cooperation between the central government, regional authorities and mass media for better nuclear safety of operating Nuclear Power Plants in the Europe.

**Specific objectives for 2007 :**

To organize and carry out workshop of representatives International organizations, Governments, regional and local authorities for exchanging information for better co-operation between all stakeholders on operating NPP nuclear safety, taking into account Chernobyl experience.

**RESULTS OBTAINED PREVIOUSLY (in 2007)**

- The proposal on organizing of the workshop have been developed and discussed with potential partners
- The agreement between EUR-OPA, the Council of Europe's Congress of Local and Regional Authorities, UNDP, IAEA on joining efforts in organization of workshop have been founded
- The first announcement on workshop have been developed and distributed
- The report on legal basis for international co-operation in the event of a nuclear and radiological emergency have been developed
- The meetings with local communities of the Yujnoukrainsk, Energodar, Kuznetsjvsk and Neteshin sites near Ukrainian NPPs, have been organized
- The case study for Ukraine have been developed

**EXPECTED RESULTS IN 2008**

The programme of Workshop will be developed, the key speakers will develop their presentations and present to Secretariat, the draft Conclusion of Workshop will be developed, the Workshop logistic will be developed, the Workshop will be carried out in September 2008 in Kiev

**ASSOCIATED ACTIVITIES IN 2008**

- To develop and agree with co-organizers main objectives of Workshop date: January
- To develop and agree with co-organizers preliminary programme date: March
- To collect speakers abstracts date: June
- To develop and distribute first draft of Workshop Conclusions date: June
- To carry out Workshop in Kiev date: September



**Improving the preparedness of local authorities close to the Armenian Nuclear Power Plant to off design radiological accident: basis for transfrontier cooperation with local authorities of neighboring countries (ENCTR - European Interregional Educational Center for Training Rescuers -Yerevan)**

**TARGET COUNTRIES :** Armenia, Ukraine, the Southern Caucasus states and other neighboring countries, states – members of EUR-OPA Major Hazards Agreement, other concerned countries.

**LOCAL COORDINATOR:** European Interregional Educational Center for Training Rescuers, Rescue Service of Armenia

**OTHER PARTICIPANTS :**

**Specialized Centres :** European Centre of Technological Safety (TESEC) Kiev, Ukraine, other interested European Centers from target countries.

**Countries Authorities :** Rescue Service of Armenia, Academy of Crisis Management, “Emergency Channel” Information Agency.

**OBJECTIVE OF THE PROJECT**

**Global objectives :**

*Long-term*

Acquisition by the population of required knowledge and fundamental skills in properly reacting when informed and warned about an imminent hazard and in the case of real radiation accident. Consider and discuss the problems of transfrontier cooperation with the local authorities of communities of neighboring countries, located closely to the Armenian Nuclear Power Plant area

*Short term.*

Organization in Armenia of arrangements to enhance the role of local authorities of communities, located close to the Armenian Nuclear Power Plant, in emergency preparedness and management concerning radiation risks related to the NPP.

Strengthening cooperation between central government, regional authorities and mass media for better nuclear safety of operating Nuclear Power Plants in the Europe.

**Specific objectives for 2008:**

Together with the Director of TESEC Kiev and leading officials and specialists of Armenian Rescue Service and other concerned Ministries and Departments, hold meetings (probably in May) with the majors of Metzamor and other localities situated in close proximity to the Armenian NPP and local administration leaders, to evaluate propositions concerning the use of best international experience for improvement of cooperation among local authorities and NPP to raise population safety near the operating NPP and to promote the subject round table discussions with the medical and educational representatives.

**RESULTS OBTAINED PREVIOUSLY**

A three-level (with involvement of national, regional and municipal levels) training exercise “Responding in case of total accident at the Armenia nuclear power plant” carried out in the Armavir region (Marz) 26-27 October, 2006 and targeted at:

- examining and updating the skills and abilities of the state management and local authorities to ensure populations protection in case of an off design radiological accident
- enabling management bodies and response units to fulfill practical tasks in emergencies

Preparatory work (from 28 April till 25 July 2006) focus on the multiple theoretical and practical tasks regarding the protection of populations.

From these tasks can be highlighted: propounding, discussion, preparation and practical implementation of informing the members of the state (national) Commission on emergency related issues, the members of regional (Marz) Commission in the Armavir region on emergency related issues in line with the municipal leaders and the populations living in the area adjacent to the nuclear power plant.

The below measures have been, inter alia, carried out at the exercise’s preparation stage:

- organizational-instructional consultations provided to state management officials and working groups, to managers of the Armavir region and exercise’s ‘attendees
- methodological help aiming to develop and specify Plans by ministries, departments, regions (marzes) and communities following from the national Plan
- training of more than 200 exercises’ participants - representatives of the regional and municipal management bodies in the Armavir region

- particular attention given to addressing the mass media and to training the populations through special TV and Radio broadcasting programs .
- State Crisis Management Academy promoted developing and delivering of 500 copies of a booklet entitled: "Radioactive elements" .

An array of serious gaps, including in the area dealing with warning populations, have been revealed and recommendations on how to overcome them are quoted in summary exercise documents in terms of responsibilities of ministries departments, rural and urban municipalities.

**EXPECTED RESULTS IN 2008**

1. Identify the preparedness level of local authorities located close to the Armenian Nuclear Power Plant to respond to off design basis radiological accident.
2. Discuss with local administration's representatives the issue of population awareness concerning radiation risks related the NPP and radiation exposure levels in the town.
3. At the medical institutions there will be discussed the issues concerning the effectiveness of corresponding counter measures.
4. Discuss at schools issues concerning the effectiveness to provide the pupils with necessary knowledge of the radiation risks.
5. Create materials (teaching brochures, websites, computer manuals) for improving population information (and especially children) related to radiation risks and protection.
6. Discuss state and challenges for cooperation between central government and local authorities in radiological emergency management as well as a role of local authorities and the community that they are called to play in national emergency plants.
7. Discussion outcomes will be presented at the international workshop "Learning from Chernobyl legacy to make European nuclear energy safer: role of local communities, authorities and central governments in emergency preparedness and management" organized in Ukraine in September.

**ASSOCIATED ACTIVITIES IN 2008**

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## **PREVENTION -INFORMATION**

**Danube , a River for all, a Care for everybody (CLST - European Center for Risk Prevention, Sofia)**

**TARGET COUNTRIES :** Bulgaria, Romania, Serbia, Ukraine, Moldova, , Italy, Belgium, Macedonia, Russia, Algeria, France

**LOCAL COORDINATOR:** CSLT

**OTHER PARTICIPANTS :**

**Specialized Centres :** ECMN (Moldova), TESEC (Ukraine), CUEBC (Italy), ECILS (Macedonia), CETICA (France), ECNTRM (Russia), CRSTRA (Algeria)

**Countries Authorities :** International Commission for the Protection of River Danube (ICPDR), Viena, UNDP; International Institute “Stop Disasters” Naples; Ministry of Labour (Belgium)

**OBJECTIVE OF THE PROJECT**

***Global objectives***

Prevention against the water harmful influence – information and education of the population along the Danube river valley.

**Specific objectives for 2008 :**

Elaboration of the Portal site DRACE;

Realization of first Pilot Radio Transmissions.

**RESULTS OBTAINED PREVIOUSLY**

Conclusions of International Workshop – “Danube a river for all – a care for everybody” (26-27 November 2007, Sofia)

**EXPECTED RESULTS IN 2008**

- Start of work for elaboration of Portal site – DRACE;
- Creation of idea projects for Radio transmissions and realization of first Radio transmissions

**ASSOCIATED ACTIVITIES IN 2007**

International workshop:

- Prevention against the water harmful influence – information (September)
- Meetings of Work group for Portal site DRACE (February, May, August and October)
- Meetings of Work group in Bulgarian National Radio (January, April, August and November)

**Developing the EUR-OPA web site module on technological disaster management (TESEC - European Centre of Technological Safety, Kiev)**

**TARGET COUNTRIES :** EUR-OPA member-states  
**LOCAL COORDINATOR:** TESEC  
**OTHER PARTICIPANTS :**  
**Specialized Centres :** EUR-OPA Network of Scientific Centers

**OBJECTIVE OF THE PROJECT**

**Global objectives**

The prevention and decision making capability strengthening; providing for general public information and knowledge on risk prevention and disaster management.

**Specific objectives for 2008**

To define the structure of module and request for publishing date, merging of Chernobyl web site to technological disaster module

**RESULTS OBTAINED PREVIOUSLY**

The structure and concept of web site have been developed and presented. The web site has two-dimension structure, following the topical dimensions and presentation on different perception levels. The first level of topical structure has two parts, corresponding to two main types of HAZMAT:

- Toxic chemicals hazard
- Radiation hazard

The second level of topical structure has the following structure:

*Toxic chemicals hazard* - classification, nature of hazard, health effects, sources of chemical hazard, chemical detection, protection measures, regulation, legal basis.

*Radiation hazard* - nature of radioactivity, types of radiation, interaction radiation with matter, radiation sources, natural and artificial radiation, radiation detection, health effects of radiation, regulation, legal basis.

The dimension corresponding to different targeted groups has three levels:

- General public, children
- High education
- Professionals

This web site have been published in

<http://www.tesec-int.org/TechHaz-site15-06-07/index.htm>

**EXPECTED RESULTS IN 2008**

In 2008 the developing of web site module on technological disaster management will be continuing. The module *Radiological Hazard* will be completed. The block Emergency measures will be added. The module *Toxic chemicals hazard* will be extended.

**ASSOCIATED ACTIVITIES IN 2008**

- To develop Emergency measures block date: May
- To develop Toxic chemicals blocks date: October
- To develop and publish Emergency measures and Toxic chemicals blocks date: November

**Key indexes for air quality monitoring in different forest fire scenarios and possible health impacts on the firefighters and population (ECFF - European Center for Forest Fires, Athens)**

**TARGET COUNTRIES :** Germany, Belgium, Morocco, Russia, Ukraine

**LOCAL COORDINATOR:** Greece

**OTHER PARTICIPANTS :**

**Specialized Centres:** countries very much at risk on forest fires such as France, Spain, Italy, Portugal, Greece, Morocco

**Countries Authorities :** Civil protections, firebrigades, Institutes

**OBJECTIVE OF THE PROJECT**

**Global objectives**

1. Define key indexes for the on-line field monitoring of forest fire smoke (FFS) in various scenarios of forest fire
2. Evaluate possible forest fire smoke health impacts on exposed population and the fire-fighters (human exposure assessment)

**Specific objectives for 2008**

1. To select target compounds for monitoring FFS
2. To propose specific field instruments for monitoring FFS near or in a distance from the flame-front
3. To make initial health risk assessment of FFS
4. To study health impact of forest fire smoke on population and the fire-fighters

**EXPECTED RESULTS in 2008**

1. Review on health impacts of forest fire smoke on fire-fighters and population
2. Specialized report on air quality indicators for monitoring and estimating the severity of the situation in the affected areas
3. Technical report on field instruments for on-line monitoring forest fire smoke near the fire front and in a distance (specifications)
4. Specialized report on decision chart (road-map) for crisis managers with possible composition of forest fire smoke, health and safety issues (toxicity of ffs, suggested PPE) in regard to different forest fire scenarios

**ASSOCIATED ACTIVITIES in 2008**

- Kick off meeting Date: June 2008
- Teleconference with the participation of all the partners in order to prepare the reports on time, succeed in their technical and scientific excellence as well as ensure that all objectives will be achieved Date: November 2008

**Regional Balkan Wildland Fire Crisis Conference (GFMC - Global Fire Monitoring Center, Freiburg)**

**TARGET COUNTRIES :** Southeast Europe / Caucasus  
**LOCAL COORDINATOR:** Johann Goldammer

**OBJECTIVE OF THE PROJECT**

***Global objectives***

Address the underlying causes of increasing threats of wildfires to the environment and society, notably the consequences of land-use change and climate variability

Outline the need for the development of national policies and strategies addressing land-use, forestry and forest protection, nature conservation and fire management

***Specific objectives for 2008***

Elaborate agreement for strengthening fire management capabilities in the region through standardized and joint regional training and introduction of improved technologies for wildfire suppression

Development of border-crossing mechanisms and agreements on mutual assistance in fire emergency situations

**EXPECTED RESULTS IN 2008**

Preparation and organization of a “Regional Balkan Wildland Fire Crisis Conference” (or “Summit”), in which highest-level possible government commitment should be sought, under the joint auspices, among other, of UN specialized agencies and programmes (UNDP, UNEP, the Joint UNEP / OCHA Environment Unit, FAO), the European Commission, Council of Europe / EUROPA, ENVESC, OSCE and NATO, and facilitated by the UNISDR Global Wildland Fire Network and its regional network, the UNISDR Regional Southeast Europe / Caucasus Wildland Fire Network.

**PATRIMOINE CULTUREL / CULTURAL HERITAGE**



**Workshop on the Strategy of the Protection of Monuments against Earthquakes  
(ECPFE - European Center of Prevention and Forecasting of Earthquakes, Athens)**

**LOCAL COORDINATOR:** : ECPFE

**OTHER PARTICIPANTS :**

**SPECIALIZED CENTRES :** : BE-SAFE-NET, CUEBC, ECILS, CERU ECBR, ECNTRM, CEISE, AFEM, ECGS, CERG, EMSC, CSEM

**OBJECTIVE OF THE PROJECT**

***Global objectives***

**Scope:** Exchange of experiences on the following subjects

- Regulatory documents concerning the design of structural interventions on Monuments
- Systematic studies of History of Seismic Consequences on Monuments
- Structural Typologies of Monuments in Earthquake prone Regions
- Systematic studies of Foundations, Slope stability and soil-structure interaction problems of Monuments
- Public Awareness regarding the importance of the seismic safety of Monuments

***Specific objectives for 2008***

The Workshop aims at building related national strategies rather than at an in-depth description of isolated cases.

**RESULTS OBTAINED PREVIOUSLY**

In this Workshop the results of the relevant activities of E.C.P.F.E. during 2007 & 2008 concerning the aseismic Protection of Cultural Heritage will be presented and discussed.

**EXPECTED RESULTS IN 2008**

The expected results will be the development of scientific and technical co-operation between the Centers concerning the protection of cultural heritage

**ASSOCIATED ACTIVITIES IN 2008**

The results of the five Task Groups already established and working in 2007 will continue their task during 2008 in this field and in particular:

- Task Group 1: For the syntax of the “Principles of structural Restoration of Cultural Heritage Buildings”
- Task Group 2: For the “Creation of a Digital Database for the assessment of permanent consequences of historical earthquakes and monuments”
- Task Group 3: For the examination of “A Seismic constructural Techniques during the Centuries”
- Task Group 4: For “Geotechnical topics and Interaction between Soil and Monuments”
- Task Group 5: For “the dissemination of knowledge and exhibition in the framework of Aseismic Protection of our cultural heritage”.

**A Convergent Approach for Seismic Analysis of the Aggregates of Historical Buildings (CERU - European Center on Urban Risks, Lisbon)**

**TARGET COUNTRIES :** Portugal, France, Italy, Morocco, Algeria, Macedonia, Turkey, Greece

**LOCAL COORDINATOR:** Luís Mendes-Victor

**OTHER PARTICIPANTS :**

**Specialized Centres :** CERU, CERG, CUEBC, ECILS, CEPRIS, AFEM, ECFE

**OBJECTIVE OF THE PROJECT**

**Global objectives :**

Analysis of the seismic impact on the aggregate historical buildings on distinct environmental source activities.

**RESULTS OBTAINED PREVIOUSLY**

Examples from Macedonia, France, Turkey and Morocco.

**EXPECTED RESULTS IN 2007**

Didactic samples by functional criteria

**ASSOCIATED ACTIVITIES IN 2008**

- Classification of the sources and sites date: April 2008
- Use of the GIS to compile the present knowledge:
- Definition of plans to manage the resistance of historical buildings date: September  
2008 (3 days Meeting of 10 to 15 individual participants)
- Diagnosis of the distinct aggregates on the chosen sites date: December  
2008 (4 days Meeting for Institutional experts)

**Non-monumental ancient buildings retrofitting and local seismic culture: problems, methods and techniques (CUEBC - Centro Universitario Europeo per i Beni Culturali, Ravello)**

**PAYS CIBLES :** Italie, France, Grèce, Maroc, Turquie.

**COORDINATEUR LOCAL:** Ferruccio Ferrigni

**AUTRES PARTICIPANTS :**

**Centres Specialises:** Centres spécialisés EUR-OPA des pays concernés

**OBJECTIF DU PROJET**

***Objectifs globaux***

Former des figures professionnelles qui peuvent supporter les décideurs locaux dans la mise au point de projets de développement locale fondé sur la re-connaissance et l'up-grade des savoirs et des techniques constructives qui forment les « Cultures Sismiques Locales » qui, en étant localement attestés, sont forcément éco-compatibles et efficaces contre la sismicité locale.

***Objectifs spécifiques pour 2008***

Réaliser le Cours CSL

**RESULTATS OBTENUS ANTERIEUREMENT**

Le cours est largement testé (celle de 2008 est la 18ème édition)

**RESULTATS ATTENDUS EN 2008**

- Former 20-25 personnes
- Liste des candidats admis
- Programme détaillé

**ACTIVITES ASSOCIEES EN 2008**

- Réunions de préparation

**Publication of the English version of the book “Risco Sísmico no Centro Histórico de Lagos” (CERU - European Center on Urban Risks, Lisbon)**

**TARGET COUNTRIES :** Portugal, Spain and others

**LOCAL COORDINATOR:** Luís Mendes-Victor

**OTHER PARTICIPANTS :**

**Countries Authorities :** Center of the Geophysics, University of Lisbon; Instituto de Ciências da Terra e do Espaço; Instituto Geofísico do Infante D. Luís

**OBJECTIVE OF THE PROJECT**

***Global objectives\****

To demonstrate the adequate methodology to assess the seismic Risk in Historical Centres.

***Specific objectives for 2008 :*** Publication of the Book

**RESULTS OBTAINED PREVIOUSLY (if any)**

Publication in Portuguese

**EXPECTED RESULTS IN 2008**

Conclusion of English translation

**ASSOCIATED ACTIVITIES IN 2008**

- Design of the publication version date: April 2008
- Analysis of the sample prototype date: June 2008
- Conclusion of the printed publication date: December 2008

**ACTIONS POST CATASTROPHE / POST DISASTER ACTIONS**

**Operative duty on estimation of possible consequences of earthquakes, in frame of working with GIS Extremum (ECNTRM - European Center For New Technologies Of Risk Management, Moscow)**

**LOCAL COORDINATOR:** ECNTRM (Kudrin)  
**OTHER PARTICIPANTS :** *no*

**OBJECTIVE OF THE PROJECT**

***Global objectives***

Decreasing of losses among population and improving of scenario reaction for seismic event.

***Specific objectives :***

Improving of scenario reaction for seismic event and specification of human losses estimation in real time (on-line)

**Ethics and psychological support in the domain of natural risks. (ECMNR - European Center for Mitigation of Natural Risks , Chisinau)**

**TARGET COUNTRIES:** EUR-OPA member states

**LOCAL COORDINATOR:** ECMNR

**OTHER PARTICIPANTS:**

*Specialized Centres: EUR-OPA Network of Scientific Centers*

*Countries Authorities: National and International Psychological Associations*

**OBJECTIVE OF THE PROJECT**

***Global objectives:***

The implementation of the culture of risks in the psychological assistance to victims of natural disasters by appropriate behavioral reaction and protection against natural risks.

***Specific objectives for 2008:***

To organize a workshop with the participation of International governmental organizations and local authorities for the purpose of information collection and to define the actions and principles of psychological assistance to victims of natural disasters as contribution in the mitigation of negative impact.

**EXPECTED RESULTS IN 2008**

The programme of Workshop is developed, the objectives are defined and the partners and participants prepare their communications and present them to Secretariat.

**ASSOCIATED ACTIVITIES IN 2008**

- To identify the actors and co-organizers and the objectives of the workshop (date: April)
- To prepare the organizational measures and preliminary programme (date: May)
- To collect the communications (date: June)
- To prepare and distribute the conclusions on the workshop (date: July)
- To conduct the workshop in Chisinau (date: October)

**Creation of Regional Capacity and Task Force for Post-disaster Damage Assessment (ECILS - European Center on Vulnerability of Industrial and Lifeline Systems, Skopje)**

**TARGET COUNTRIES :** All EUR-OPA MHA Countries  
**LOCAL COORDINATOR:** Prof. Dr. Zoran MILUTINOVIC, Director ECILS-Skopje  
**OTHER PARTICIPANTS :**

**Specialized Centres:** ECRB- European Centre for Rehabilitation of Buildings (Bucharest, Romania), AFEM - European Natural Disasters Training Centre (Ankara, Turkey), ECTR - European Interregional Educational Centre for Training Rescuers (Yerevan, Armenia), CEPRIS - Euro-Mediterranean Centre for Evaluation and Prevention of Seismic Risk (Rabat, Morocco), ECPFE - European Centre on Prevention and Forecasting of Earthquakes (Athens, Greece)  
**Countries Authorities:** National authorities responsible for operative management of post-disaster effects and relief operations of DPPI Countries<sup>1</sup>

**OBJECTIVE OF THE PROJECT**

**Global objectives**

Experience all over the world shows again and again that countries affected by destructive events find it hard to produce damage assessments that satisfy national needs as well as requirements of international agencies and donors. This task is often finally entrusted to external experts, which can lead to unnecessary evacuation of buildings, prolonged accommodation of inhabitants in unsafe structurally damaged buildings, delays of the recovery process, etc.; the costs of which are borne by disaster victims, communities and their governments.

Project intends to create a suitable technically consistent and consensused methodology and format for damage assessments in the EUR-OPA MHA region that could be discussed and agreed upon with major donors (including the EC, Council of Europe Bank for Development, European Bank for Reconstruction and Development etc.) followed by the training of specialists and forming of a regional damage assessment task force to be rapidly deployed in major disasters (earthquakes, floods and high winds) within the EUR-OPA MHA region but eventually even wider.

**Specific objectives for 2008**

Development of flood and landslide damage assessment forms, elaboration of integrated IT tool for earthquake&flood&landslide damage assessment, final Coordinated Activity Workshop.

**RESULTS OBTAINED PREVIOUSLY**

Building identification form, methodological approach for earthquake damage assessment, consensus on earthquake damage assessment form, national inputs on earthquake damage assessment and classification, synthesis of national inputs.

**Other associated activities:**

- **Participation on International Workshop on Post-earthquake Damage Assessment, Rome – L'Aquila, Italy** date: 28-30.11.2007

**Details:** The Workshop has been organized by the Italian Civil Protection Department and was supported by STOP, the EC funded project aimed at developing innovative tools for post-earthquake damage assessment. Representatives from 10 seismic prone European countries participated the Workshop in order to discuss and establish common principles, including forms and procedures pertaining to damage assessment.

- **Organization of 2nd meeting on "Creation of Regional Capacity and Task Force for Postdisaster Damage Assessment"**

date: 21-22.12.2007

**Details:** The 2nd Meeting was held in Skopje in the premises of the Institute of Earthquake Engineering and Engineering Seismology, IZIIS-Skopje, University "Ss. Cyril and Methodius", Skopje, the founder of EUR-OPA's MHA European Center on Vulnerability of Industrial and Lifeline Systems (ECILS-Skopje). The objectives of the 2nd Meeting were: (1) Presentation, review and summary on the damage and loss assessment procedures used in countries from Balkan, Caucasus and Maghreb regions; (2) Exchange national/regional experiences; (3) Identification and summarization of common aspects and the existing gaps; (4) Identification and decision on other necessary details; (5) Decision on the follow-up and definition of the road map for further project development; and (6) Articulation of decisions and conclusions to be presented on the pending meeting of Directors of EUR-OPA MHA Centers (Paris, February 4-5, 2008).



**EXPECTED RESULTS IN 2008**

Methodological approaches for assessment of flood and landslide damage, development of informatic (IT) tool for integrated earthquake&flood&landslide damage assessment (€6,000)

**ASSOCIATED ACTIVITIES IN 2008**

• **Organization of 3rd meeting/Workshop on "Creation of Regional Capacity and Task Force for Post-disaster Damage Assessment** *date: November or December 2008*

**Details:** Presentation of the consensused methodology and format for post-disaster damage assessments in the EUR-OPA MHA region and the developed integrated IT tool for damage assessment; Consensus on content of modules for training of specialists as a basis for forming and training of a regional damage assessment task force to be rapidly deployed in major disasters (earthquakes, floods and high winds) within the EUR-OPA MHA region. Planned participation 15 international and 10 national representatives, plus international organizations and financial institutions (UNDP, EC, Council of Europe Bank for Development, European Bank for Reconstruction and Development etc.).

**AUTRES DOMAINES / OTHER TOPICS**

**International conference on Environmental and health effects of waste management (CEMEC – European Centre for Disaster Medicine – San Marino)**

**TARGET COUNTRIES :** San Marino Republic, Italy, USA, Belgium, India, Singapore, Canada, Switzerland, Czech Republic, Finland

**LOCAL COORDINATOR:** Prof. Alessandro BARELLI (CEMEC, San Marino)

**OTHER PARTICIPANTS:** Poison Centre, Catholic University School of Medicine

**OBJECTIVE OF THE PROJECT**

**Global objectives:** Increase public awareness about toxicity of municipal solid waste.

**Specific objectives for 2008:**

**RESULTS OBTAINED PREVIOUSLY**

- No educational programmes and activities available in Europe in this field, so far.

**EXPECTED RESULTS IN 2008**

- To outline real and scientifically based risk assessment about acute and chronic toxicity of municipal wastes.
- To know advantages and disadvantages of different waste management strategies To assess the actual health and environment damages caused by current problems in managing municipal wastes.

**ASSOCIATED ACTIVITIES IN 2008**

- Course for Physicians and Nurses: Toxicological Basic Support Therapy (San Marino, Oct 15-17)
- AHLS: Advanced Hazmat Life Support Provider Course (Algarve, May 9 - 11)

**The study of impact and effects of dangerous wastes on health and environment – preventive measures. (EMCNR - European Center for Mitigation of Natural Risks - Chisinau)**

**TARGET COUNTRIES:** EUR-OPA member states

**LOCAL COORDINATOR:** ECMNR

**OTHER PARTICIPANTS:**

*Specialized Centres:* EUR-OPA Network of Scientific Centers

*Countries Authorities:* EUR-OPA member states

**OBJECTIVE OF THE PROJECT**

**Global objectives:** To identify the preventive decisions that should increase the capacities of mitigation of the risk; recommendations concerning the mitigation of negative results of wastes – preventive measures.

**Specific objectives for 2008:** To define the principles of waste mitigation, evaluation and neutralization, reduction of waste production, exclusion of utilization, etc.

**RESULTS OBTAINED PREVIOUSLY**

- Were collected and examined materials and organized a scientific-practical seminar on the topic where were identified the effects on health, sources of risk, protection measures, etc.

**EXPECTED RESULTS IN 2008**

- The study on identification of preventive measures and mitigation of negative impact and effects of wastes will be further developed.

**ASSOCIATED ACTIVITIES IN 2008**

- To develop the measures in case of emergency date: June
- To evaluate and neutralize the wastes date: October
- To summarize the preventive measures and to bring to public date: November