

Summary report on the activities developed by the CERU in 2016, and on the activities foreseen for 2017

During 2016, the CERU's main activity has been focused on the organization of the International Conference on Urban Risks (ICUR2016) that was held in Lisbon between 30 June and 2 July.

At the same time, CERU promoted and collaborated in several risks awareness actions and participated in meetings and conferences where the results of its work were presented. In addition, CERU has developed 3 projects under the *European and Mediterranean Major Hazards Agreement* - EUR-OPA.

The following is a summary of the activities carried out in 2016 and to be carried out in 2017.

2016 Activities

1. Participation in awareness sessions, meetings, conferences and workshops

- POP-alert Project exercise: "POP-ALERT project demonstration - Testing population preparedness and alerting tools", Hotel Mundial, 5 February 2016, Lisbon. Paula Teves Costa participated as invited expert.
- Seminar "*Prevenção no âmbito do sistema Municipal de Protecção Civil*" (Prevention in the framework of the municipal civil protection system), 4 March 2016, Cascais Shopping, Cascais. Seminar held during the Civil Protection Week of Cascais Municipality. Participation of Paula Teves Costa as moderator of one of the sessions.
- International workshop "*Lisboa Construir Resiliência*" (Lisbon Build Resilience), Lisbon City Hall and "*Museu da Moeda*" (Currency Museum), 23 May 2016. Paula Teves Costa participated in the workshop.
- "Lagos: towards a Tsunami Ready community". ICUR2016 - International Conference on Urban Risks, 30 June - 2 July, Lisbon. Oral presentation by Luis Matias
- "Tsunami evacuation routes: design and constraints. Application to Cascais ". ICUR2016 - International Conference on Urban Risks, 30 June - 2 July, Lisbon. Poster presentation by André Trindade.
- EGU / COE FORM-OSE Post-graduate Training School 2016 "Landslides and other Geological Hazards in Active Volcanic Environments", Ponta Delgada (S. Miguel Island, Azores), Portugal, 4-9 July 2016. Paula Teves Costa participated in the Round Table "Risk Management and Civil Protection".
- 6th International Disaster Risk Conference Davos 2016 "Integrative Risk Management - towards resilient cities", Davos, Switzerland, 28 August - 1 September 2016 - Paula Teves Costa participated in the conference and in the workshop "Awareness Raising, Education and Training - Capacity Building in Integrative Risk Management".

- "The Lisbon earthquake of 1755". Lecture by Paula Teves Costa in the meeting series "*Noites de Ciência*" (Nights of Science). Faculty of Sciences of Lisbon University, 28 October 2016, Lisbon.
- Civil Protection Meeting "*Catástrofes e Ordenamento do Território*" (Disasters and Territory Planning), 3 November 2016, Casa das Histórias, Cascais. Two oral invited presentations: "*Simulação da evacuação em ambiente SIG para o Concelho de Cascais*" (GIS for the evacuation simulation in Cascais Municipality) by André Trindade & "*Caracterização dos solos do Concelho de Cascais*" (Soils characterization in Cascais Municipality) by Joana Carvalho.
- International Conference Cultural Heritage: Prevention, Response and Recovery of Disasters, Calouste Gulbenkian Foundation, Auditorium 2, 3-4 November 2016 – "*Projectos de mitigação de riscos em meio urbano*" (Mitigating risks projects in urban areas) – Invited oral presentation, Paula Teves Costa.
- "*Sismo em Lisboa: a influência da geologia*" (Earthquake in Lisbon: the influence of geology). Lecture by Luis Matias in the framework of the Week of Science and Technology, "Ciência Viva" (Living Science Project). Lisbon City Museum, *Palácio Pimenta*, 26 November 2016, Lisbon.

2. Organization of an International Conference

- ICUR2016 - International Conference on Urban Risks, 30 June - 2 July, Culturgest, Lisbon. Bilingual conference (Portuguese and English) organized by the CERU. <http://www.ceru-europa.pt/icur2016/>

3. Protocol signature

- Signature of a protocol (March 7th, 2016) between the Portuguese National Authority for Civil Protection (ANPC) and the CERU. The protocol aims to promote technical and scientific cooperation addressing civil protection subjects, namely the exchange of experiences and technical and scientific information, the development of projects and programs of common interest, sharing of bibliographic resources, and other dissemination initiatives.

4. Activities carried out under the projects financed by the EUR-OPA Major Hazards Agreement, Council of Europe

- CERU participated in 3 projects co-financed by the Council of Europe: (1) Involving sales and tourism agents on earthquake and tsunami mitigation measures – project coordinated by the CERU (mainly involving members of the CERU Board of Directors); (2) European Landslide Hazard Maps: Fostering European Harmonization of Slope Movement Hazard Assessment at various spatial scales - coordinated by CERG (Centre Européen sur les Risques Géomorphologiques, Strasbourg, France) – (involving Prof. Fernando Marques of the Faculty of Sciences of Lisbon University, that coordinated the tasks attributed to CERU); and (3) Revisiting Traditional Building Techniques for Appropriate Maintenance and

Earthquake Retrofitting of Vernacular Constructions - coordinated by CUEBC (Centre Européen Universitaire sur les Biens Culturels, Ravello, Itália, Italy), – (involving Prof. Xavier Romão of the Faculty of Engineering of Oporto University, that coordinated the tasks attributed to CERU).

The activities carried out under these projects are described in more detail in the deliverables, sent to the Council of Europe, which are archived at the CERU and are available for consultation.

- Translation (to Portuguese) of a booklet on radiological hazards produced by TESEC (European Centre of Technological Safety, in Kiev, Ukraine).

Activities foreseen for 2017

The main activities to be developed by CERU during 2017 will be:

- Edition of International Special Issues that will include selected papers presented during the International Conference Urban Risk (ICUR2016), that was held in Lisbon on 2016, between 30 June and 2 July 2016 (the selection was performed by the Conference Scientific Committee);
- Development of the Baywatch project on information and dissemination of tsunami warning signs: (i) performance of a survey to hotels in coastal areas; (ii) proposal for a module for lifeguards training/formation concerning tsunami hazard and warning; (iii) publication leaflets concerning tsunami warning and safety measures; (iv) participation on informative and formative sessions;
- Participation in the project to be developed by the CERG (European Centre for Seismic and Geomorphological Hazards, in Strasbourg, France), contributing for the elaboration of European landslides hazards maps;
- Participation in National and International Conferences to present results from Ceru's projects;
- Publication of the booklet on radiological hazards produced by TESEC (European Centre of Technological Safety, in Kiev, Ukraine). Study of the dissemination measures to be implemented in Portugal and other Portuguese-speaking countries (as Brazil, for instance);
- Collaboration on information and awareness actions on risks (seismic and tsunami, in particular) undertaken by the Municipal Civil Protection authorities or by local associations, mainly in Lisbon, Cascais, Setúbal and Lagos. The CERU is available to extend these actions to other municipalities;
- Collaboration with the National Authority for Civil Protection (ANPC) aiming at developing joint projects and mitigation actions;
- Improvement of the CERU webpage and its promotion, in order to contribute to more resilient communities.

The activities undertaken by CERU, or on which CERU participated, can be seen on CERU webpage (in Portuguese and in English):

<http://www.ceru-europa.pt/pt/>

<http://www.ceru-europa.pt/en/index.php>

Some of the results achieved during the Baywatch project can be downloaded from the CERU webpage (in Portuguese and in English) – *(still being charged)*

<http://www.ceru-europa.pt/pt/projectos.php>

<http://www.ceru-europa.pt/en/projectos.php>

Proceedings of the International Conference on Urban Risks (ICUR2016) can be downloaded following this link:

<http://www.ceru-europa.pt/icur2016/>

Lisbon, 31st March 2017

A handwritten signature in blue ink that reads "Paula Teves Costa".

Paula Teves Costa
CERU Director