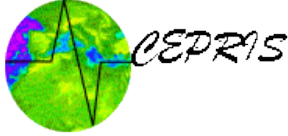


**ACCORD EUROPÉEN ET MÉDITERRANÉEN SUR LES RISQUES MAJEURS  
(EUR-OPA)**

**PROJECT – Baywatch (CERU + CEPRIS)**

**INVOLVING SALES AND TOURISM AGENTS ON EARTHQUAKE AND  
TSUNAMI MITIGATION MEASURES**

|                                                                                     |                                                                                                  |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
|  |              |
| Centro Europeu de Riscos Urbanos<br>Lisboa - Portugal                               | Centre Euro-Méditerranéen pour l'Evaluation et la Prévention du Risque Sismique<br>Rabat - Maroc |

***WP4 : Seismic and tsunami mitigation measures in  
Lagos and Cascais Historical Centres. Synthesis of the  
developed activities***

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## Introduction

During 2017 CERU was involved in some awareness sessions performed in several Portuguese municipalities (Lisbon, Setúbal and Cascais).

The CERU activities were mainly to collaborate with Civil Protection municipalities in awareness sessions performed in schools. Only few actions were devoted to adults. But the most important awareness activity developed during this year consisted on CERU's collaboration in an exhibition on risks promoted by Setúbal municipality.

Concerning the study and implementation of evacuation routes, some work was done in Cascais. However, in Lagos, this work was not developed because the municipality decided that it is not a priority activity at the moment.

Although some work on this subject was already performed some years ago, Lagos municipality prefers to improve the tsunami signalling and implement it on other beaches of the municipality in the next future, and only after that develop and implement the evacuation routes on Lagos historical centre.

In Cascais, the Municipal Civil Protection performed some informative sessions and a leaflet, produced by CERU, with the main evacuation routes from the historical centre, was distributed.

## Setúbal exhibition

The municipality of Setúbal decided to present an exhibition on natural and technological risks to be displayed first during the International Conference Risks, Security and Citizenship (ICRSC) held in Setúbal, on 30 and 31 March 2017.

The exhibition "Risks –Learning and Avoiding" was inaugurated on March 30<sup>th</sup> in Setúbal. It was displayed in the exhibition hall of the hotel school "*Escola de Hotelaria*", and stayed there 2 weeks. After, it was moved for the education high school "*Escola Superior de Educação do Instituto Politécnico de Setúbal*" where it was on display for another 2 weeks. Up to Christmas it is displayed in a shopping center "*Centro Comercial Alegro de Setúbal*" where it can be visited by a wide range of public.

The exhibition is thematically organized, addressing the risks associated with the four elements: Earth, Air, Fire and Water. The collaboration of CERU was mainly in the Earth modulus where earthquake and tsunami hazard and risks were addressed.



## Activities developed in Cascais

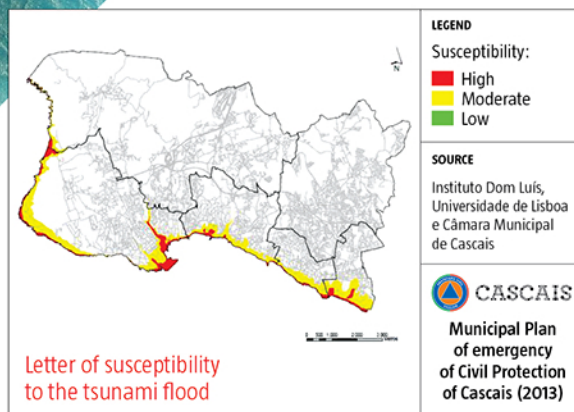
The municipality of Cascais promote, every year, the Civil Protection Week, with the aim of drawing the attention of all citizens to the importance of the themes associated with Civil Protection, namely for prevention, and to raise awareness and inform people about the risks that exist in the municipality.

Last year they installed a warning and alert system for the population in case of tsunami occurrence, in close collaboration with the ANPC, composed by a siren and a voice-over message. But only this year they have finalized the communications system and they can receive directly the warnings of IPMA (*Instituto do Mar e da Atmosfera*, institution responsible for giving the tsunami warning) and ANPC (*Autoridade Nacional de Proteção Civil*). The siren is located in the Historical Centre, because it reaches the coast line, and at least three beaches exist in this area.

CERU collaborate in some of the awareness actions developed by the municipal civil protection and, in particular, CERU produced the English version of the leaflet "*What to do in case of tsunami*". This leaflet is reproduced in the next page.



Tsunami risk areas are mapped according to degree of susceptibility.



There are potential seismic and tsunamic sources in the proximity of Cascais region.

If an earthquake with oceanic epicenter occurs, is highly likely that a tsunami will follow after an estimated time of 30 minutes. So you should take special measures immediately.

The Mayor of Cascais (the president of Cascais municipality) will insure the coordination of Civil protection operations and emergency measures regarding the mitigation of life and property losses and environmental protection as well as reestablishing minimum normal conditions.

# TSUNAMI

## WHAT TO DO

During an earthquake you should:



Any felt earthquake is a Tsunami alert

**GO TO HIGH GROUND**



Tsunami waves can last for hours

**KEEP IN HIGH GROUND**



### PROJECTO BAYWATCH

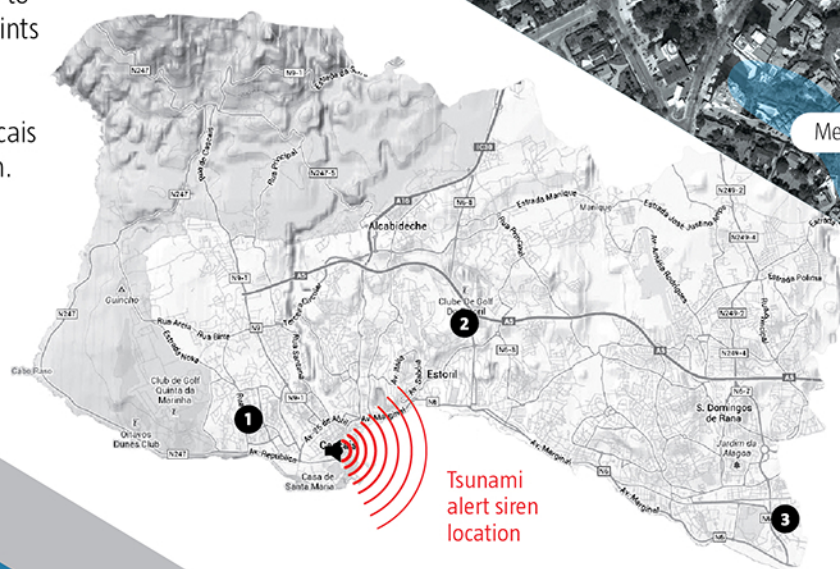
Parceiros



CONCELHO  
DE CASCAIS

# AFTER A MAJOR EARTHQUAKE OR A **TSUNAMI** WARNING

- ▶ You will hear a siren followed by a message.
- ▶ Keep away from the shore and go to higher ground.
- ▶ Follow the authorities directions or go to the meeting points marked on this brochure or consult the Cascais Emergency Plan.



## TO INFORM

Read more about Tsunami Risk and other Risks at:

[www.prociv.pt](http://www.prociv.pt)  
[www.cm-cascais.pt](http://www.cm-cascais.pt)  
[www.unisdr.org/campaign/resilientcities/cities/view/1420](http://www.unisdr.org/campaign/resilientcities/cities/view/1420)



**Main evacuation routes to the meeting points**

## Meeting points according to the emergency plan

- 1 Pavilhão do Dramático de Cascais**  
Estrada da Torre, 2750-748 Cascais  
Coordenadas: N 38° 70' 02.12" W 9° 44' 15.22"
- 2 Clube de Golf do Estoril**  
Av. da República, 2765-273 Estoril  
Coordenadas: N 38° 71' 87.33" W 9° 39' 55.77"
- 3 Pavilhão dos Lombos**  
Rua da Feitoria, 2775-568 Carcavelos.  
Coordenadas: N 38° 68' 79.18" W 9° 32' 55.45"



**Teatro Gil Vicente**  
Rua Gomes Freire,  
2750-362 Cascais  
Coordenadas:  
N 38° 69' 62.85" W 9° 42' 16.11"

Inundation area can reach 20 meters high as represented in this map