



# Virtual Reality System of the Extension of the Continental Shelf



# Explore the bottom of the ocean in 3D



The SRV-EPC (Virtual Reality System of the Extension of the Continental Shelf) is an innovative project that uses the latest display technologies and 3D animation in high definition, including real-time navigation. It was developed by a multidisciplinary team coordinated by Caixa Digital and was attended by the Caixa D'Imagens (multimedia kiosk, graphics, 3D modeling and animation) and a third company, Zona Paradoxal (programming and optimization for real time), involving a total of 14 people.

The SRV-EPC was developed for our client EMEPC (Task Group for the Extension of Continental Shelf), an entity created by Resolution of the Council of Ministers No. 9 / 2005, working under the direction of the Minister of National Defense. Querying the SRV-EPC one can get detailed information on this project so vital for Portugal, with emphasis on 3D visualization and real-time navigation of the proposed extension of the continental shelf, submitted to the UN in May 2009.

The SRV-EPC is divided into 3 themes:



## EMEPC Project

A document that explains the project in an interactive way, using text, images and animated diagrams. This "virtual book" can be flicked through by the user, making it appealing and get easy access to information;

## Movie "Alargar Portugal"

A 3D movie in high definition (Full-HD), with about 10 minutes, using real and virtual images. Know the mission, objectives, proposed extension, enhancing the operational capacity and opportunities of this project for Portugal;



## 3D Virtual Model

An application to visit the bottom of the Atlantic Ocean in three dimensions. You can view the proposal by Portugal for the extension of the continental shelf, explore the seabed (with or without water) and find out the names of the places or let yourself be guided by pre-defined routes.

The SRV-EPC can be found at :



## Multimedia kiosk

The full version of SRV-EPC was installed in the new multimedia kiosk model VR2, developed by Caixa D'Imagens. It uses the latest interactive technologies of virtual reality. Includes a 42" monitor Full-HD (1920x1080) touch-screen with high performance graphics and a PlayStation® controller for consultation of the 3D Virtual Model.

## Internet version (www.emepc.pt / srv)

An application similar to the kiosk version, but with content tailored and optimized for query in a web environment (1024x768).

