

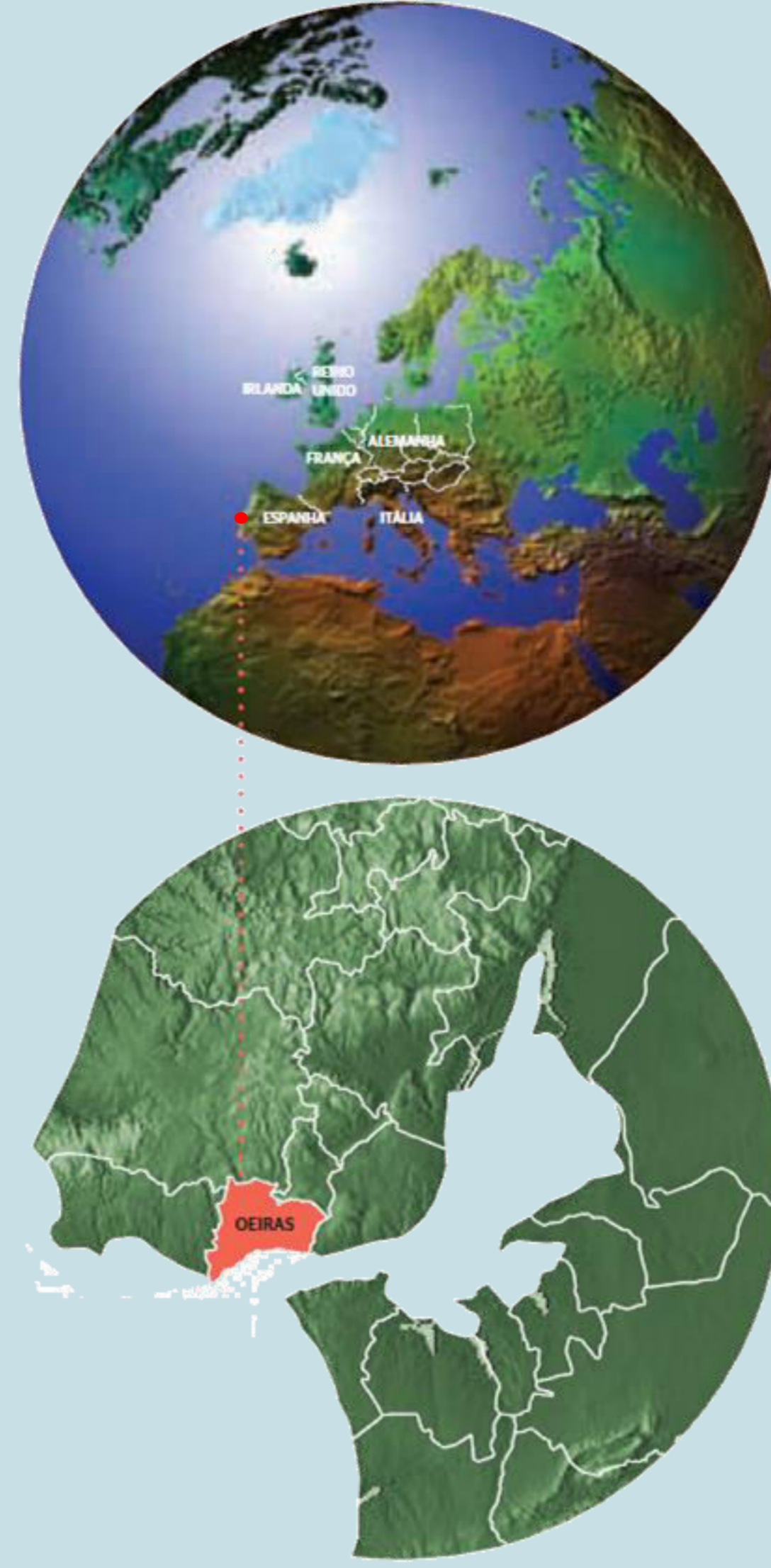
Oeiras Pilot: Green-energy Scenario

Pilot Leader: Município (Oeiras Municipality)

Overview

GeoSmartCity contributes to the Smart City implementation by establishing a cross-platform, re-usable and open hub able to publish open geographic information and to provide specialized services based on open standards.

The GeoSmartCity cross-platform toolkit and operational methodology allow further integration of third-party data (open or restricted) as well as crowd-sourced data. The potentiality of the toolkit will be demonstrated through the development of 11 operative and re-usable pilot cases in the frame of two scenarios: Green-Energy scenario, to facilitate diffusion and management of renewable energy within cities, and Underground scenario, to support integrated management of underground utility infrastructures.



General Information

- Population: 172.120 in the Municipality of Oeiras
- Surface: 45km², the Oeiras municipality is located in the region of Lisbon and Tagus Valley and is part of the Lisbon Metropolitan Area (total of approx. 2.821.800 inhabitants).

Oeiras lies on the north bank of the Tagus River, is bordered on the North and West by the municipalities of Sintra and Cascais, the east by the municipalities of Lisbon and Amadora and south by the the river Tagus, giving a river front with about 9 km long.

Description of the pilot deployment:

The municipality of Oeiras is already actively promoting programs, strategies, and policies concerning the sustainable usage of energy. The usage of geo information for sustainable planning purposes is well established in the City's administration.

To integrate and publish a solar potential map a digital surface model of high accuracy will be produced in order to support the spatial analysis for all buildings.

Objective

The goal of this scenario is to provide consumers the information needed to help them decide where placing solar technologies in their rooftops.

It can be an instrument of awareness of the potential f buildings as well as a source of income or savings.

This instruments serves energy, allowing in an accurate and fast way to generate and share geographic knowledge.



Block solar map example

Specific Data sources used for the scenario:

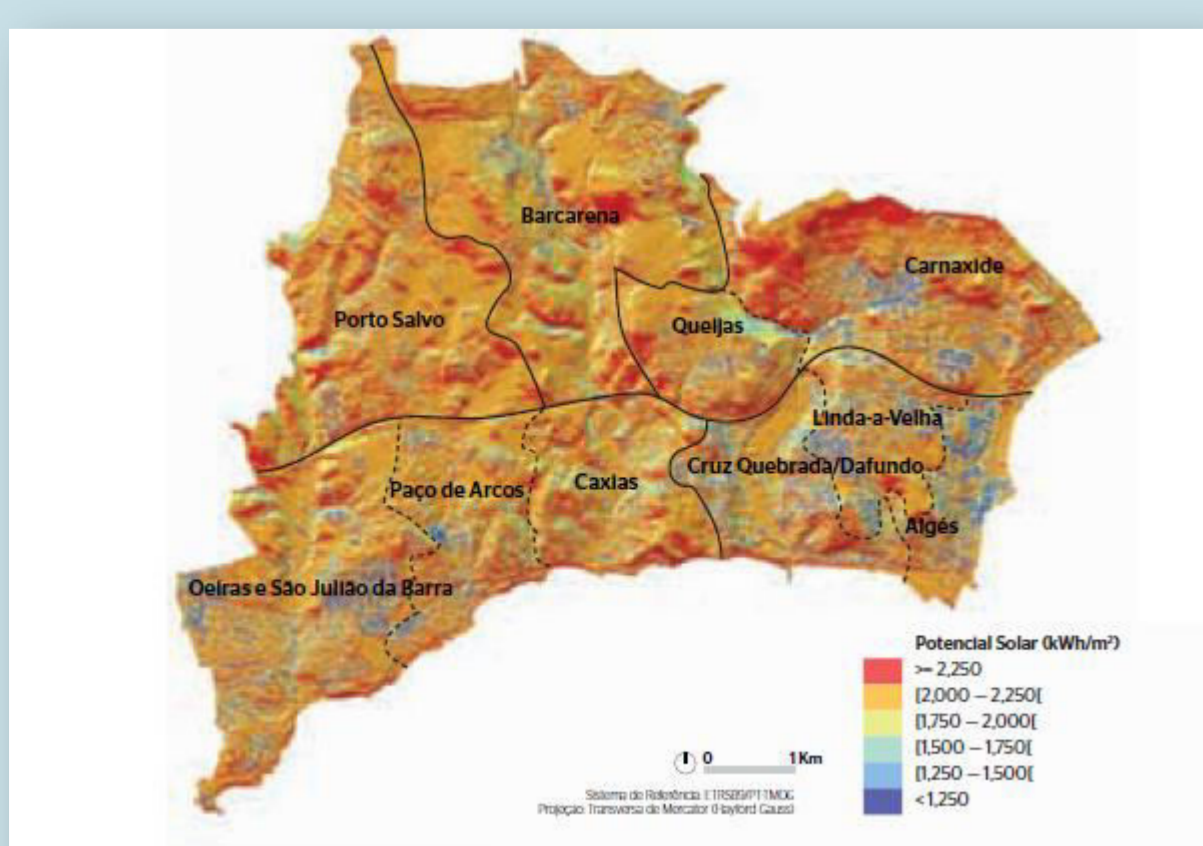
- ✓ Ortophotomaps
- ✓ DSM
- ✓ Buildings footprints
- ✓ Solar map

Stakeholders

- Public Administration - Municipality
- Local energy agency
- Service Companies (e.g. installers...)
- Environmental Agencies
- Citizens



Information request example



Annual solar potencial map