Maroussi Pilot: Scenario Green Energy

Pilot Leader: EPSILON INTERNATIONAL S.A.

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: 72.480 inhabitants in the Municipality of Maroussi (2011)
- Surface: Maroussi is a suburban city and is located north-east of Athens. It is one of the biggest municipalities of Athens with 13.938 km^2 and is the metropolitan center of the northern suburbs of Athens.

Some urban districts are residential areas, some others commercial areas (The Mall Athens), while businesses and offices also exist.
The average elevation of Maroussi is 230 meters above sea level and includes Siggrou grove (1,1 km^2), which is the only remaining natural forest of the metropolitan area.

Description of the pilot deployment:

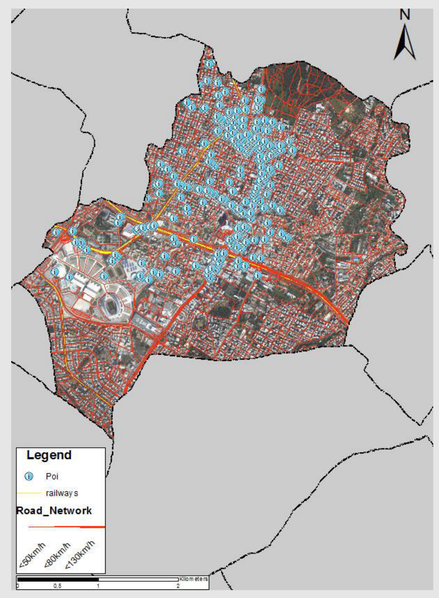
Municipality of Maroussi has already set energy saving, quality of life and environment protection as the main axes of development. It has developed a comprehensive environmental policy and has taken initiatives, such as participating and winning both the award of the National Environmental Management System (EMAS) in 2009 for actively reducing their environmental impact by implementing green procurement in supply chain and the "Green Award" to the forefront of recycling issues.

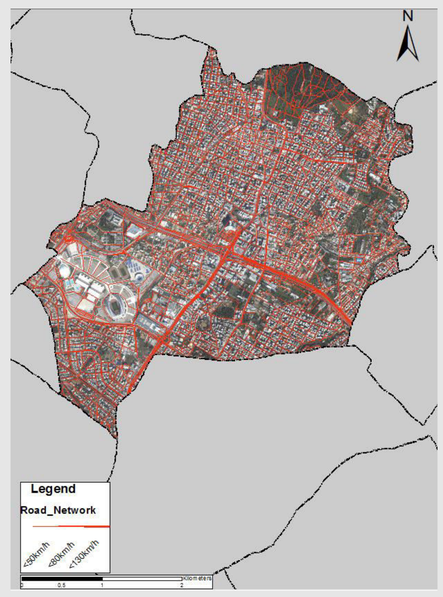
The pilot in Maroussi will take advantage of existing energy data and also collect geo referenced information about green energy production and consumption scattered across the city. It will update the existing Website, establish a new toolkit and provide a lot of geo information about green energy production and consumption compliant to the INSPIRE Directive.

Objective

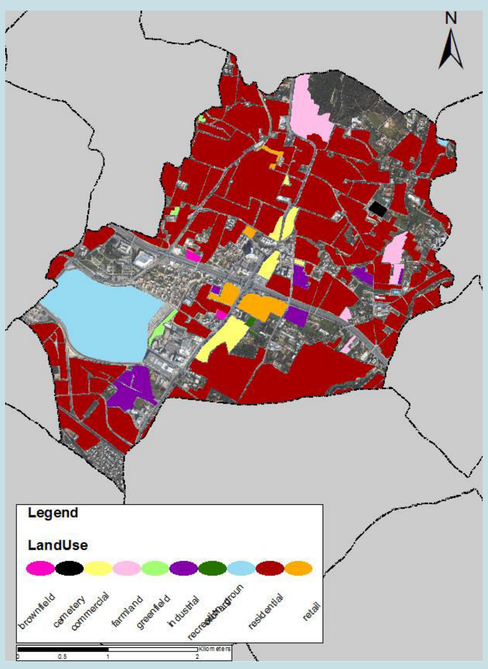
The objective of the pilot is to enable citizens and SMEs to make valuable comments and enhance their energy consumption behavior.

The main purpose of the pilot is to benefit from the data harmonization procedure established during the project lifecycle complying all existing geo-located energy datasets with the INSPIRE Directive. Then, citizens will be able to get access and interact to this open-structured information through a Geoportal.





Specific Data sources used for the scenario:



Land Use of Amaroussion

- ✓ Urban Districts
- ✓ Administrative boundaries
- ✓ Pols
- ✓ Street Network
- ✓ Land Uses
- ✓ Energy Consumption data (Public Buildings, Transport, Vehicle, Lights)
- ✓ Railway network
- ✓ Citizens energy behaviour questionnaires
- ✓ Settlements
- ✓ Public buildings
- ✓ Bus station and stops
- ✓ Meteorological data

Road Network, Public Buildings and a 3d model of Olympic Athletic Center of Athens (OAKA)

Stakeholders

- Public Administration
- Public Officers
- Environmental Agencies
- Civil Protection
- SMEs
- Citizens

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