

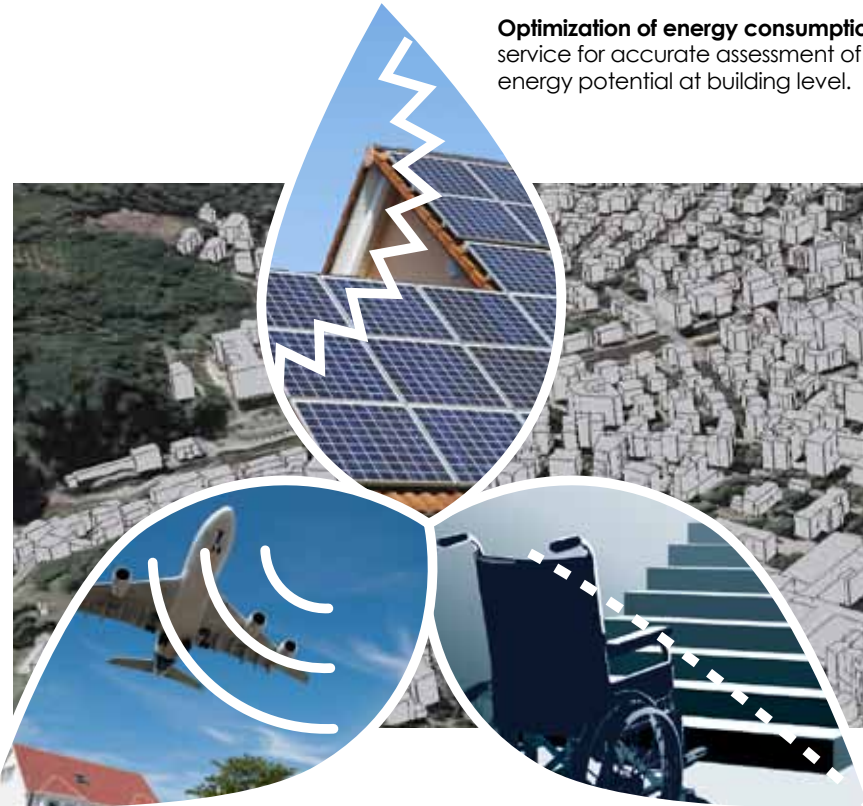


# i-SCOPE Smart Services

## Objectives

Based on interoperable 3D UIMs, i-SCOPE project will deliver an open platform on top of which it develops, within different domains, **three smart city services**. These services will be addressed to:

**Optimization of energy consumption** through a service for accurate assessment of solar energy potential at building level.



**Environmental monitoring, through a real-time environmental noise mapping service, leveraging citizen's involvement**, who act as distributed sensors citywide measuring noise levels through their mobile phones.

**Improved inclusion and personal mobility of aging and diversely able citizens** through an accurate city-level disable-friendly personal routing service.

## Expected Impacts

- Manage the human landscapes as an integrated and interconnected combination of information flows;
- Smart system of the city services through an integrated approach;
- Improve the services' quality, letting them be near the citizens and needs;
- Smart and people-oriented cities;
- Observance of sustainability standards (environmental, social, and economic);
- Active participation of citizens (crowdsourcing approach).



**3D model of the city (standard 3D city GML Model)**, open source toolkit for 3D smart city services based on 3D Urban Information Models (UIM), created from accurate urban-scale geospatial information

The model gives information on **characteristics and building information** (e.g., street number, purpose of use, energetic certification, etc.)

