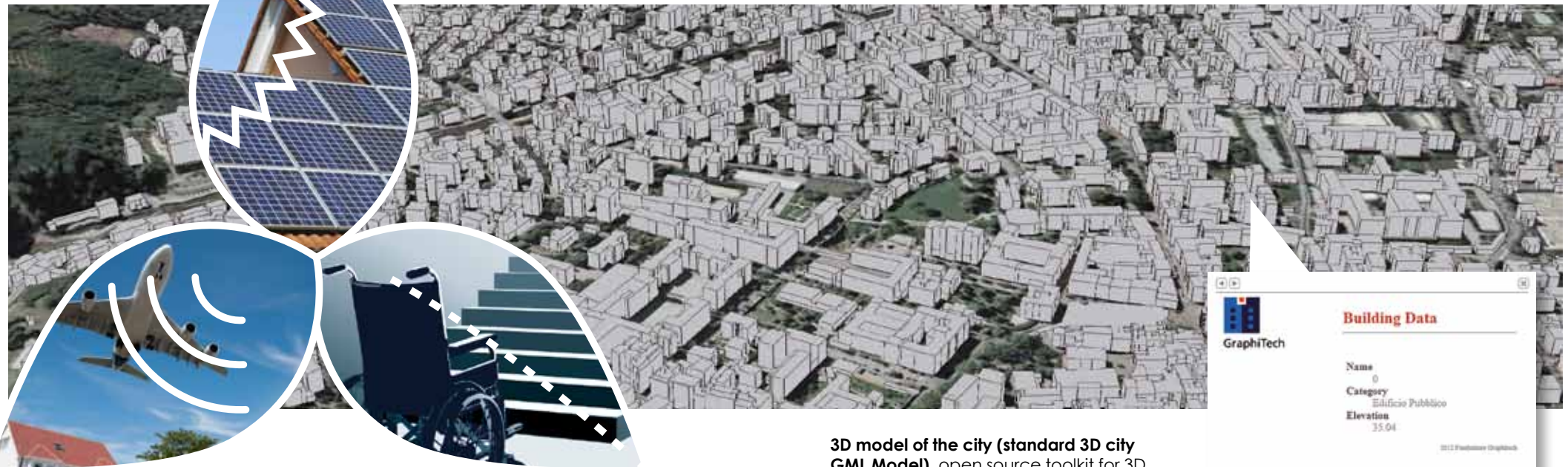


i-SCOPE Smart Services

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.)

