SUNSHINE

Smart UrbaN ServIces for Higher eNergy Efficiency

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Sunshine delivers innovative digital services, interoperable with existing geographic web-service infrastructures, supporting improved energy efficiency at the urban and building level. Specifically, SUNSHINE delivers a smart service platform accessible from both a web-based client and from an App for smartphones and tablets.

IN PARTICULAR, THE SUNSHINE PLATFORM WILL ALLOW:

1

Automatic large-scale assessment of building energy behaviour based on data available from public services (e.g. cadastre, planning data etc.)

2

The previous assessment will be then used, together with localised weather forecasts available through interoperable web-services, to ensure optimisation of energy consumption of heating/cooling systems through automatic alerts that will be sent to the SUNSHINE App installed on the smartphone of the final users.

3

Lastly, SUNSHINE will ensure interoperable control of public illumination systems based on Automatic Meter Reading (AMR) facilities remotely accessible, via interoperable standards, from a web-based client as well as from an App for smartphones or tablets.

ICTPSP

www.sunshineproject.eu

Type of project Competitiveness and Innovation FP ICT PSP Pilot Type B

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TECHNOLOGY

The server-side technology for spatio-temporal processing of geographical data and management of sensor data through interoperable standards, developed in the context of the ICT-PSP project BRISEIDE, will be extended to support **interoperable definition of alert mechanisms based on SAS (Sensor Alert Service standard).**

The CirtyGML compatible 3D client which is being developed in the context of the ICT-PSP project i-SCOPE. This will be extended to support **CityGML Application Domain Extension (ADE)** for energy performances of buildings that will be delivered by
SUNSHINE.

An **application for desktops and mobile devices (App)** for surveying of public illumination systems which has been commissioned by GL to GRAPHITECH within a project promoted by the Energy Agency of Autonomous Province of Trento, Italy. This will be extended to allow remote control of remote power systems via interoperable standards from Open Geospatial Consortium.

TARGET USERS AND THEIR NEEDS

The SUNSHINE technology will be eventually piloted in the context of **9 sites across 5 countries**, specifically:

Planners and Public Administration (PA) officers will use SUNSHINE to extract analytical indicators necessary for the definition of energy saving policies for the existing public buildings asset and to define energy pre-certification mechanisms.

Building managers, and citizens alike, will use SUNSHINE to reduce waste of energy caused by heating/cooling systems unnecessarily running in weather conditions that do not require it. Through alerts, customized for each specific building, delivered through the SUNSHINE app, that inform the users on how to improve performances of cooling/heating settings, for best consumption/ratio.

CONSORTIUM

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