

# LITES

## Led-Based Intelligent Street Lighting for Energy Saving

### What?

The main objective of the *LITES* project is to develop and produce a smart, LED-based street-lighting device that is compatible with EU electrical standards, to prove that solid-state lighting using LED technology can drastically reduce energy consumption. The device can be used on secondary streets, commercial access routes, alleyways, pedestrian walks, cycle tracks, university paths and other thoroughfares.

### How?

The core of the solution is the dimming of the light intensity in response to changing environmental conditions. A set of embedded sensors measures light, temperature, the intensity of the electrical current and motion detection.

The output data of the sensors is then processed by the embedded software that responds to the requirements of particular conditions. The process allows for the optimal regulation of light delivery.

### Who and where?

The project comprises trial activities that will be implemented at four pilot sites located in four EU Member States to test the feasibility and the performance of the proposed solutions in a variety of real-life scenarios.

Trial activities will be carried out in the city of Bordeaux in France, the municipality of Piaseczno in Poland, Riga Technical University in Latvia and the University of Aveiro in Portugal. A total of 200 points of lighting will be installed.

### Why?

This technology offers significant energy savings of up to 70 percent and directly results in economic and ecological savings for communities as well as supporting increased traffic safety and public comfort.

### AT A GLANCE

#### Consortium:

- **France:** Veades, Ville de Bordeaux, Université Paul Sabatier Toulouse III, Metercom
- **Italy:** Politecnico di Torino
- **Poland:** Gmina Piaseczno
- **Portugal:** Universidade de Aveiro
- **Latvia:** Rigas Tehniska Universitate
- **Spain:** Fundicio Ductil Benito

#### Duration:

2.5 years from December 2009 until May 2012

#### Total Cost:

€2.559.756 (EC contribution €1.279.877)

#### Website:

[www.lites-project.eu](http://www.lites-project.eu) (coming soon)

#### Leaflet:

<http://tsc.internet-uni.lv/litesproject/ICT4EE-Lites-Flyer.pdf>

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