«Smart lighting for a smart city - Encourage the network»

OBJECTIVES
Creating an electronic solution for a new urban element to turn Vilanova i la Geltrú into a Smart City.

This project is divided into an electronic part (EPS) and a design part (IDPS). This presentation is the EPS part and these are the electronic objectives:

- Create a new sustainable standard
- Add intelligence to the street environment
- Modular design and easy to maintain
- Electric and electronic solution
- Generate more energy than it spends
- Durable, expandable, recyclable & ecological

Electronic Solution:
Motherboard connects all the parts together, gathering information from sensors and sending it to the Brain Unit.

Functions
- Wi-Fi
- Collect information from the environment
- Mobile phone charger
- Interactive display with information about the city
- Parking facilities
- Apparatus for physical exercise
- Video surveillance for safety

Modularity
- Rack system
- Standard boxes for electronics
- Easy adding and removing of modules