

Senscity: A City-level Machine-to-Machine Ecosystem

Background

To run properly, cities need to be able to provide residents with a wide range of services like waste collection, public lighting, and clean water. Machine-to-Machine (M2M) technology is used to control these services and make them more efficient, potentially delivering substantial benefits to a city's sustainable development efforts. However, due to the many different organizations involved in providing these services, M2M technology is often fragmented, complex, redundant, and slow to develop.

The M2M communication market is dominated by mobile network systems, but it is currently being constrained by numerous factors including high energy requirements, inadequate network coverage, and cumbersome equipment.

Partners

Corporate

France Telecom - Hewlett-Packard

SME

Alcion Environnement - Azimut Monitoring - BH Technologies - Coronis - DotVision - E-Gee - Numtech - WebDyn

Research laboratories

Grenoble INP G-SCOP - Grenoble INP G2ELab - Grenoble INP LIG - Mind

Key figures

Budget: €6.1 million

Duration: 24 months

Human resources allocated: 52 FTE

Innovation

The SensCity project aims to develop an information and communication technology (ICT) platform for M2M technology that is unique, open, and standardized—making it suitable for different users. The platform will offer municipal utilities a wide range of services and help them achieve their sustainable development goals.

The project will meet the following three challenges:

- The technical challenge of developing and testing an open platform, and introducing city services
- The economic challenge of introducing new city services that are suited to the needs of municipal utilities
- The environmental challenge of illustrating how the platform can bolster a city's sustainable development efforts

