



# **SOLUTIONS Knowledge Shraing Kit Cluster 5: Network and mobility management**

**[www.urban-mobility-solutions.eu](http://www.urban-mobility-solutions.eu)**



This project is funded by the Seventh Framework Programme (FP7)  
of the European Commission.



## About SOLUTIONS

SOLUTIONS aims to foster knowledge exchange and boost the uptake of innovative sustainable urban mobility solutions through the further exploitation of existing knowledge.

The main focus of the SOLUTIONS project is on the exchange between cities from Europe, Latin America and the Mediterranean.

The project looks at the following thematic areas:

- public transport
- transport infrastructure
- city logistics
- integrated planning / sustainable urban mobility plans
- network and mobility management
- clean vehicles



## Introduction to Cluster 5: Network and mobility management

**Network and mobility management:** addresses applications in parking management, access management, traffic and mobility management and control, traffic information and journey planning systems, cooperative intelligent transport systems (C-ITS) & pricing policies

**Issues:** Keeping the right balance between different mobility options; speed and uncertainty of technological progress in this area

**Main focus:** Provide examples of successful deployment in European Cities and lessons learnt from them



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**SOLUTIONS for****Type of impact****Parking Management****Improve****Access Management****Avoid****Traffic Management****Improve****Multimodal Journey Planning****Improve (Shift)****Cooperative ITS Systems (C-ITS)****Improve****Car- and Bike-Sharing****Avoid (Shift)**

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## **Solution 5.1: Parking Management**

### **Objectives and implementation**

- Policy and planning objectives vary among city and city regions
- Reduce shortage of parking space
- Make sure sufficient parking space is available in inner cities
- Primarily implemented by city governments
- Various implementation options: increase parking space (e.g. in buildings) vs. create car-free/parking-free districts
- Zoning and planning practices and organizational and institutional frameworks must be adapted

## Solution 5.2: Access Restriction

### Objectives and implementation

- Aims to “restrict and enable” access to city districts or network intersections
- **4 types:**
  - Point-based access systems
  - Cordon based access system
  - Area license or area charging
  - Distance or time based charging

## Solution 5.3: Traffic Management

### Objectives and implementation

- Maximizing the effectiveness of existing infrastructure
- Ensuring reliable and safe transport,
- Addressing environmental goals
- Ensuring fair allocation of infrastructure space to users
- Plan and prepare for expected traffic volumes,
- Continuous monitoring
- Corrective measures to directly influence traffic



Traffic management in Palma

## Solution 5.4: Multimodal Journey Planning

### Objectives and implementation



SUPERHUB project

- Provide personalised travel suggestions, offering a wide range of transport alternatives
- In case of delays or disruptions, provide alternative routes.
- Encourage the use of climate friendly modes, e.g. by informing users on their carbon footprint
- Two implementation approaches:
  - large systems approaches (big data)
  - open data





## **Solution 5.5: Cooperative Intelligent Transport Systems (C-ITS)**

### **Objectives and implementation**

- Improving the possibilities offered by intelligent or smart transport systems
- Allows constant tracking and tracing of freight, enhancing of GPS-based road user charging, and allow semi-automated autonomous driving
- Can be implemented at local, regional, national and international level

## Solution 5.6: car-sharing and bike-sharing

### Objectives and implementation

- Car-sharing: Ease congestion and reduce emissions
- Car-sharing: in the future → Plug-In hybrid electric vehicles (PHEV)
- Bike-sharing: offer new mobility options for the first and the last mile, for spontaneous day-to-day travel, for multimodal commuters, peripheral areas, and leisure cycling
- Bike-sharing: provide the “missing link” in transport networks and ease the burden on public transport at peak times

# Thank you!

## Contact us:

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