



SMart
green

Innovative
urban

Logistics
for

Energy
efficient

Co-funded by
the MED PROGRAMME

Newsletter 2



We are pleased to present the second SMILE project Newsletter.

SMILE is a European project funded by the MED Programme aiming to find new shared solutions for effective and sustainable Urban Freight distribution. Herein you will find an account of the third SMILE workshop held in Piraeus (Greece), as well as an article on the pilot endeavour implemented in Valencia (Spain).

Learn more about our project by visiting our website.



Join us  **for the SMILE experience!**

The SMILE partners

smile-urbanlogistics.eu

The Piraeus Workshop

SMILE EVENT: Policies, strategies and innovative measures to improve city logistics

A workshop on “Smart, Green, Innovative City Logistics for Energy Efficient Mediterranean cities” was held in Piraeus on 22nd September at the Piraeus Chamber of Commerce & Industry. The workshop took place within the context of the 4th SMILE project meeting and co-organized by the Municipality of Piraeus, the lead project partner, and the Hellenic Institute of Transport (HIT) of the Center for Research and Technology Hellas (CERTH).

Policies, strategies and innovative measures in energy efficient urban goods movement with emphasis on environmental considerations were presented in coherence to the proposed pilot cases, namely innovative technologies, information, operative and marketing tools. A review of best practices resulting in energy reductions and environmental improvements were conducted and sustainable measures for urban freight logistics were also described and analyzed.

In addition, the main objectives of the SMILE project and the pilot actions to be implemented in the City of Piraeus were discussed in more detail with representatives from key stakeholders, including the Piraeus Chamber of Commerce & Industry, the Piraeus Trade Association, the Hellenic Trade Union of Land Freight Transport.

THESE PILOTS FOCUS ON THE USE OF ICT IN URBAN DISTRIBUTION AND ON WASTE MANAGEMENT.

Building on the project objectives, these pilots focus on the use of ICT in urban distribution and on waste management. In more detail, the goals of the pilot actions are to provide delivery spaces to commercial vehicles operating in the city centre, using automatic retractable bollards; and to re-organize the waste collection system improving both the operational and the environmental costs. The

workshop participants endorsed the concept of these pilot actions and provided remarks and comments regarding their implementation, during the roundtable discussion focusing on the requirements, the needs and the local restrictions. Previous experience and knowledge from Bologna city proposed to be used in the development and execution of the pilot activities.

Insights and challenges in energy efficient urban freight logistics strategies and experiences from successful measures and policies were discussed during the workshop. Participants explored opportunities to leverage impact through innovative measures, strong partnerships and strategic plans regarding the urban freight distribution in the Piraeus city.



Last-mile intelligent solutions for deliveries in Valencia

by *Carolina Navarro*, (R&D&I Project Manager - Valenciaport Foundation)



The urban distribution of goods contributes to an important part of the economic and commercial development of cities and also represents one of the principal causes of CO₂ emissions released into the atmosphere.

It is therefore essential to explore new distribution models that respond to the needs generated by cities in the most efficient and sustainable manner possible. With this challenge in mind, the city of Valencia is trialling a new, innovative delivery system, which will be operating from October 2014 to January 2015, thanks to the SMILE project.

The pilot scheme is being coordinated by Valenciaport Foundation along with the participation of the City Hall of Valencia through the InnDEA Foundation. During this period, two electrically assisted tricycles will deliver parcels within the historical city centre. In this area, the urban distribution of goods is the most complicated link of the transport chain given the complexity of the maze-like streets, one-way system, limited access and passing rights in pedestrian streets and the saturation of cargo loading and unloading in designated areas. In this context, tricycles offer a more agile and flexible alternative to traditional delivery vans whilst fulfilling the environmental requirements of reducing contaminating emissions and noise pollution.

codes 46001, 46002 and 46003, all of which correspond to the historical centre of Valencia. During this period, participating logistics operators (ASM, DHL, SEUR and TNT) will trial this service free of charge.

The micro distribution platform will be located in the current parking lot of rent-a-car at the North Train Station thanks to the collaboration of SABA (the licensee of this parking lot) and ADIF. This location of the micro-platform, at the edge of the access belt of the historical centre of Valencia, will reduce the number of vehicles that enter Valencia to deliver goods in the city centre, thereby reducing traffic in this area whilst minimising negative environmental effects such as noise and pollution resulting from urban freight distribution.

This trial period will allow participants to compile the necessary principal indicators to be able to demonstrate the technical and economical viability of this new distribution model as well as to quantify the related environmental benefits.



The pilot scheme is also supported by the use of a micro-distribution platform that manages the interchange of goods. Logistics operators deliver goods and parcels first thing during the morning to this platform and Vanapedal. The company managing the last-mile delivery handles their transfer to the tricycles for delivery to their final destinations. The scheme now covers the postal

A few key facts about the tricycle → The GARBICYCLE model

- An electrically assisted pedal tricycle designed and built in Euskadi (Spain)
- Goods and parcels are transported in a closed container located on the back with a loading capacity of 1.5 m³
- The dimensions are: (L) 2.78m x (W) 1.03m x (H) 1.95m
- The total weight (unloaded) of 110 kg with a maximum load of 280 kg although the average weight of transport is 180 kg (around 40 parcels)
- Estimated CO₂ saving of up to 2 tonnes per year



SMILE workshops:

In order to raise awareness on the SMILE project, and to foster a cross fertilization benefic process with other stakeholders; since the project start, SMILE partners have organized targeted workshops on the following thematics:

- **“Modelling for Energy Efficient Urban Logistics”**
Held in Bologna on 5 November 2013
- **“Urban logistic and good practices”**
Held in in Barcelona on 20 May 2014
- **“Policies for Energy Efficient Urban Logistics”**
Held In Piraeus on 22 September 2014

The partnership will organize the following workshop:

- **“Innovative solutions for energy efficient urban logistics”**
Will be held in Montpellier on 10 December 2014

In order to learn more about the SMILE workshops, visit our website!

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<http://www.smile-urbanlogistics.eu/>



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