



FP7-SMARTCITIES-2013

## STREETLIFE

Steering towards Green and Perceptive Mobility of the Future



### WP9 - Dissemination and Exploitation

## D9.1 – Project Leaflet and Project Factsheet

**Due date:** 31.10.2013

**Delivery Date:** 26.11.2013

**Author:** Frank Behrendt (TSB)

**Partners contributed:** All Partners

**Dissemination level:** Public

**Nature of the Deliverable:** Other

**Internal Reviewers:** Silke Cuno (Fraunhofer), Markus Wollina (Fraunhofer),  
Marco Pistore (FBK)

## Summary

This deliverable contains the first version of the D9.1 – STREETLIFE Project Leaflet and Project Factsheet.

**Disclaimer:** The information and views set out in this publication are those of the author(s) and do not necessarily reflect the official opinion of the European Communities. Neither the European Union institutions and bodies nor any person acting on their behalf may be held responsible for the use which may be made of the information contained therein.

© Copyright in this document remains vested with the STREETLIFE Partners

## Partners



The STREETLIFE project receives research funding from the European Union Seventh Framework Programme (FP7/2007-2013) under grant agreement No. 608991.

## Contact

### Project Coordinator

Silke Cuno  
Fraunhofer FOKUS  
silke.cuno@fokus.fraunhofer.de

### Scientific Coordinator

Marco Pistore  
Fondazione Bruno Kessler  
pistore@fbk.eu

[www.streetlife-project.eu](http://www.streetlife-project.eu)



# STREETLIFE

Steering towards Green and  
Perceptive Mobility of the Future

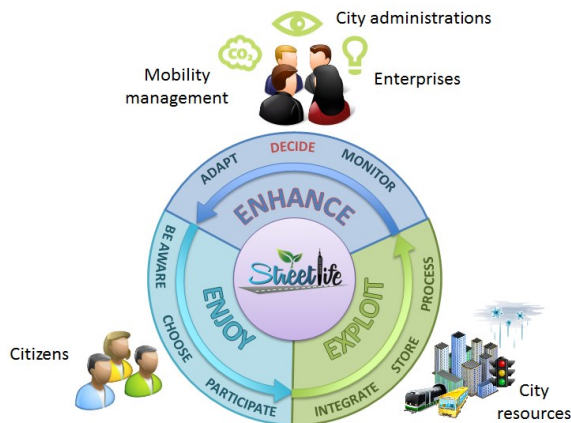




## Overview

Reducing carbon emissions through sustainable urban mobility solutions based on Information and Communication Technologies (ICT) - this is the major objective of the STREETLIFE project.

To reach this ambitious goal, STREETLIFE develops multimodal mobility information systems for urban areas. Personalised information on their smartphone will motivate citizens to select sustainable transport means for their travel. Traffic management centres and city administrations will benefit from sophisticated STREETLIFE solutions for monitoring and control of urban traffic. The combination of these measures will reduce traffic and related emissions in cities.



11 partners from 3 European countries, representing ICT and transport research, industry and cities, will work together closely in the 3 year project. The European Commission supports STREETLIFE with € 4,3M from the 7<sup>th</sup> EU Framework Programme.

## User Scenarios

*Citizens* will be equipped with mobile apps that provide multimodal personalised routing. Real-time data will be integrated and all kinds of available transportation modes will be considered. The appeal of the solutions will be essential in engaging people towards carbon-reducing mobility. Therefore, engaging user interfaces based on 3D virtual environments and Augmented Reality techniques as well as gamification approaches will be applied.

*Traffic managers* will be able to analyse the traffic situation in real-time on the basis of a comprehensive database. In addition, they will have available simulation techniques for the evaluation of different management strategies. Appropriate measures that will be taken as result of these analyses will improve the actual traffic control.

*City administrations* will also benefit from the STREETLIFE solutions, which can support their planning processes, e.g. by improving their urban mobility plans and by predicting the impact of their mobility strategies.

## Pilot Sites

The effectiveness of the STREETLIFE solutions will be proven through an in-depth evaluation on three city pilots, in Berlin (Germany), Tampere (Finland), and

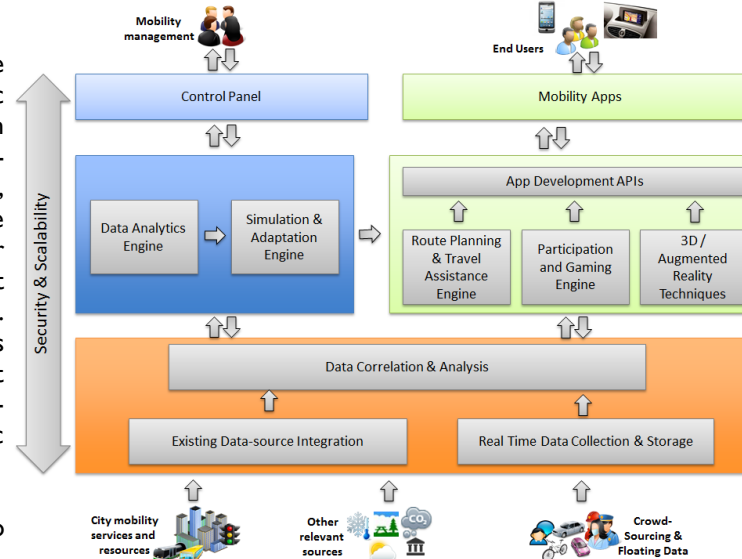
Rovereto (Italy). The selected cities are quite different in size and number of citizens as well as in the specific characteristics of their transport system. The impact assessment on traffic situation, end-user behaviour, reduction of carbon emissions and further environmental parameters from these diverse contexts will provide widely transferable results.

Local experts will support the STREETLIFE project by giving feedback in technical workshops at the pilot sites. Their feedback will be used to adapt the system components to the real needs of the cities and to implement two incremental releases of the STREETLIFE prototype system at the sites. A final test and evaluation phase will conclude the development activities.

## Exploitation of Results

The project partners will elaborate joint technology exploitation activities which not only define the principal roles but also identify the best position for each partner in the value chain. Concrete business scenarios will be assessed with respect to a possible commercial follow-up.

At the end of the project, an international symposium and local dissemination workshops will be organized to present the achievements to a wider public.



# STREETLIFE

## Steering towards Green and Perceptive Mobility of the Future

**STREETLIFE will develop a multimodal urban mobility information system that provides mobile information services to end users in order to promote sustainable transport alternatives, thus reducing traffic and related emissions in cities. It also offers to traffic management centers and city administrations sophisticated ICT solutions for monitoring and control.**

### At a Glance

**Project acronym:**

STREETLIFE

**Project type:**

Specific Targeted Research Project (STREP)

**Programme:**

7<sup>th</sup> EU Framework Programme

**Project coordinator:**

Silke Cuno, Fraunhofer FOKUS,  
silke.cuno@fokus.fraunhofer.de

**Scientific coordinator:**

Marco Pistore, Fondazione Bruno Kessler,  
pistore@fbk.eu

**Project partners:**

Aalto University (FI), Berlin Partner für Wirtschaft und Technologie (DE), CAIRE URBANISTICA (IT), CGI (FI), City of Tampere (FI), Comune di Rovereto (IT) Deutsches Forschungszentrum für Künstliche Intelligenz (DE), Deutsches Zentrum für Luft- und Raumfahrt (DE), Fondazione Bruno Kessler (IT), Fraunhofer FOKUS (DE), Siemens (DE)

**Start date / End date:**

1 October 2013 / 30 September 2016

**Total cost / EU funding:**

€ 6,2M / € 4,3M

**Project website:**

[www.streetlife-project.eu](http://www.streetlife-project.eu)

### Objectives

The activities of STREETLIFE are devoted to the principal goal of reducing carbon emissions through sustainable urban mobility solutions based on ICT. More specifically, the modular STREETLIFE system will

- *exploit information* derived from city transport infrastructure and integrate them with crowd-sourcing information and floating data as well as with sources from other domains (e.g. weather, air pollution).

- let citizens *enjoy environmentally friendly mobility* by providing dedicated multimodal, personalized and real-time mobility services.

- *enhance systems* of traffic management centres and city administrations using advanced solutions to control mobility resources and enact related policies.



# Description of Work

## APPROACH

The first activities of STREETLIFE aim at gathering requirements and defining the reference architecture and conceptual models. These parts form the basis for the development of the system components first version.

The effectiveness of this first solution will be proven through an in-depth evaluation on three city pilots (Berlin, Tampere, and Rovereto), resulting in an impact assessment on traffic situation, end-user behaviour and reduction of carbon emissions. Feedback of local experts will also be collected in technical workshops at the pilot sites to adapt the system modules to the real needs.

The outcome will be used to implement and evaluate a second, more refined version of the STREETLIFE prototypes at the sites.

At the end of the project, an international symposium and local dissemination workshops will be organized to present the project's achievements.

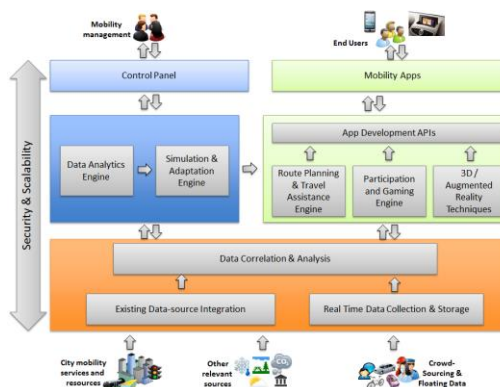
## BLUEPRINT ARCHITECTURE

STREETLIFE is characterized by its blueprint architecture, which is to be derived and to be applied in each of the pilots. It will be composed of different major components.

The *infrastructure component* will fulfil the tasks of integrating different static and real-time data sources and of establishing a dedicated interface that can be accessed by the mobility solutions of the project.

The *management component* will be designed to provide public administrations with mechanisms and tools to understand and influence the current traffic and associated carbon emission situation. A data analysis engine will utilize real-time and historic data to create a global view of the subject. The simulation and adaptation engine will provide a framework to effectively influence the urban traffic situation and to thus reduce actual carbon emissions.

Urban mobility planners will access the system through a control panel that will provide an integrated monitoring and control interface.



The *end-user component* will provide citizens with personalized applications for mobility planning, pre-experiencing selected routes and on-trip travel support. The route planning and travel assistance engine will offer a routing that considers various modes of transport and supports the user throughout the whole trip. The participation and gaming engine will be essential in engaging people towards carbon-reducing mobility. 3D virtual environments and Augmented Reality techniques will be used for visualization.

## Expected results

STREETLIFE intends to motivate citizens to adopt environmentally friendly mobility behaviour. Mobile apps offer personalized travel, provide multimodal routing and advanced graphical interfaces.

City administrations benefit from the mobility and emission control panel which is capable to analyse, simulate and manage transport demand. Mobility cloud solutions for the integration and processing of different information sources provide a generic approach for the management of real-time data.

The system architecture describes the functional components as well as the security and scalability requirements of such a system and can become a blueprint for other cities and regions in Europe.

## For further information:

European Commission

DG CONNECT

H5 Smart Cities & Sustainability

Avenue de Beaulieu 31 (BU31) 06/40, B-1049 Brussels

Contact us: [EC-SMARTCITIES@ec.europa.eu](mailto:EC-SMARTCITIES@ec.europa.eu)

<http://ec.europa.eu/eip/smartcities>