

# Implementation of Ubiquitous Connectivity for Public Transport

## Fact Sheet

### Project Information

#### UCONNECT

Grant agreement ID: 315161

Closed project


**Start date**  
1 August 2012

**End date**  
31 July 2014

**Funded under**  
FP7-SME

**Overall budget**  
€ 1 477 334,20

**EU contribution**  
€ 945 000

**Coordinated by**  
ECLEXYS SAGL  
 Switzerland

## Objective

UCONNECT is aligned with the current steady growth in the interest of concretization of Smart Cities, centred at solving the connectivity needs for Smart Public Transportation Systems to provide Smart Services, both for the transport itself, the asset that most importantly influences the overall efficiency of a city, and for citizens, the main asset in a city.

Enhancing the transport sector will result in the overall enhancement of the city efficiency. Several initiatives are taking place in this scope, towards Intelligent Transportation Systems (ITS), in terms both of self-providing services and of services for the passengers that it carries. As the first need in order to implement any Smart Service is the connectivity provision, every Smart Service to be implemented in the transport sector will need to be continuously connected to the Internet in order to behave appropriately. Furthermore the connectivity envisaged for the transport sector must be provided ubiquitously and in mobility.

UCONNECT proposes to reach this Ubiquitous Connectivity for Public Transport through the implementation of three connectivity systems: (1) a seamless vertical handover system, allowing terminals to get connected to any access technology while maintaining connectivity to avoid services cut-offs; (2) a seamless roaming system, with close relation to the handover system, allowing terminals to get connected regardless of the operator exploiting the access network; (3) an interoperability system, allowing terminals to use several access networks at the same time, improving the overall available bandwidth and allowing the use of specific technologies for specific data transmissions, achieving efficiency both in transmission capabilities needs and in operational costs terms.

The related market segments will be explored by the consortium SMEs and feasible business models, with adequate pricing and billing methods for access provision and roaming exchanges will be established accordingly.

## Fields of science

[engineering and technology](#) > [civil engineering](#) > [urban engineering](#) > **smart cities**

[natural sciences](#) > [computer and information sciences](#) > **internet**

[social sciences](#) > [economics and business](#) > [business and management](#) > **business models**

[social sciences](#) > [social geography](#) > [transport](#) > **public transport**

## Programme(s)

[FP7-SME - Specific Programme "Capacities": Research for the benefit of SMEs](#)

## Topic(s)

[SME-2012-1 - Research for SMEs](#)

## Call for proposal

[FP7-SME-2012](#)

[See other projects for this call](#)

## Funding Scheme

[BSG-SME - Research for SMEs](#)

## Coordinator



## ECLEXYS SAGL

Address

Via Dell Inglese 6  
6826 Riva San Vitale  
 Switzerland 

Activity type

**Private for-profit entities (excluding Higher or Secondary Education Establishments)**

Administrative Contact

**Angelo Consoli (Mr.)**

Links

[Contact the organisation](#)  [Website](#) 

EU contribution

€ 445 385,89

## Participants (5)

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## SAPHYRION SAGL

 Switzerland

EU contribution

€ 20 495,50

Address

Strada Regina 16  
6934 Bioggio 

Activity type

**Private for-profit entities (excluding Higher or Secondary Education Establishments)**

Administrative Contact

**Steve Crivelli (Mr.)**

Links

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## GOWEX WIRELESS SL

 Spain

EU contribution

€ 217 822,20

Address

**Calle Almirante Lobo 2 4 Iz**  
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Activity type

**Private for-profit entities (excluding Higher or Secondary Education Establishments)**

Administrative Contact

**Miguel Egido (Mr.)**

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## **BRIGHTCOM SOLUTIONS LDA**

 Portugal

EU contribution

€ 186 831,92

Address

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Activity type

**Private for-profit entities (excluding Higher or Secondary Education Establishments)**

Administrative Contact

**Helena Baptista (Mrs.)**

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## **UNIVERSITATEA TEHNICA CLUJ-NAPOCA**

 Romania

EU contribution

€ 11 371,70

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Activity type

## Higher or Secondary Education Establishments

Administrative Contact

**Aurel Vlaicu (Prof.)**

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### **R. J. AUTOCARES SL**

 Spain

EU contribution

**€ 63 092,79**

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Activity type

**Private for-profit entities (excluding Higher or Secondary Education Establishments)**

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