

PROJECT

EUNOIA

Evolutionary User-centric Networks for Intraurban Accessibility

Funding: European (7th RTD Framework Programme)

Duration: Oct 2012 - Nov 2014

Status: Complete

Total project cost: €2,205,863

EU contribution: €1,749,962



Call for proposal: FP7-ICT-2011-8

[CORDIS RCN : 105300](#)

Background & policy context:

Urban transport is essential for citizens to perform their daily activities, but it also constitutes a major source of pollution.

Objectives:

The goal of EUNOIA is to take advantage of smart city technologies and complex systems science to develop new models and tools empowering city governments and their citizens to design sustainable mobility policies.

Methodology:

EUNOIA will pursue advances in three complementary directions:

1. Use of data. The massive penetration of ICT is modifying social relationships and travel behaviour, and at the same time is providing us with a huge amount of heterogeneous data: intelligent transport systems, Internet social networks, mobile phone call logs, e-transactions. EUNOIA will investigate how to exploit these data to characterise mobility and location patterns in different European cities.
2. Urban transportation models. EUNOIA will investigate the interactions between social networks and travel behaviour, e.g. the influence of social networks on the planning of joint trips. This will allow a more comprehensive assessment of mobility policies, particularly of new services emerging around the idea of a shared access to resources, such as car sharing. The new travel behaviour models will be integrated into state-of-the-art agent-based simulation tools.
3. Link between modellers, decision makers, and societal actors. The potential of urban simulation models is still little exploited in policy decision contexts. EUNOIA will develop tools, e.g. 3D visual analytics, allowing stakeholders' interaction with the simulation results, as well as a methodology for collaborative, multi-stakeholder policy assessment.

In order to ensure maximum credibility and usability of the project results, the models and methodologies developed by EUNOIA will be tested and refined through several case studies conducted in close cooperation with policy makers and mobility stakeholders from the three cities participating in the project: Barcelona, London, and Zurich.

Parent Programmes:

[FP7-ICT - Information and Communication Technologies](#)

Institute type: Public institution

Institute name: European Commission

Funding type: Public (EU)

Lead Organisation:

Universitat De Les Illes Balears

Address:

Carretera De Valldemossa Km 7.5
7122 Palma De Mallorca
Spain

EU Contribution: €452,585

Partner Organisations:**Institut Municipal D'informatica De Barcelona****Address:**

Avenida Diagonal 220/2
8018 Barcelona
Spain

EU Contribution: €43,320

Commissariat A L Energie Atomique Et Aux Energies Alternatives**Address:**

RUE LEBLANC 25
75015 PARIS 15
France

Organisation Website:

<http://www.cea.fr>

EU Contribution: €167,512

Agencia Estatal Consejo Superior Deinvestigaciones Cientificas**Address:**

CALLE SERRANO 117
28006 MADRID
Spain

Organisation Website:

<http://www.csic.es>

EU Contribution: €41,177

Lucio Gil Antonio**Address:**

Paseo Del Rey 14 4 Ext Izq
28008 Madrid
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EU Contribution: €64,608

Eidgenoessische Technische Hochschule Zuerich**Address:**

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8092 ZUERICH
Switzerland

Organisation Website:

<http://https://www.ethz.ch/de.html>

EU Contribution: €331,840

Nommon Solutions And Technologies SI

Address:

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28006 MADRID
Spain

EU Contribution: €380,920

University College London

Address:

Gower Street
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WC1E 6BT
United Kingdom

Organisation Website:

<http://www.ucl.ac.uk>

EU Contribution: €268,000

Technologies:

Information systems
Sustainable urban mobility planning

Development phase: Research/Invention

STRIA Roadmaps: Network and traffic management systems, Smart mobility and services

Transport mode: Multimodal transport

Transport sectors: Passenger transport

Transport policies:

Societal/Economic issues, Environmental/Emissions aspects, Deployment planning/Financing/Market roll-out

Geo-spatial type: Urban