



## Local4Global

SYSTEM-OF-SYSTEMS THAT ACT LOCALLY FOR  
OPTIMIZING GLOBALLY

611538, FP7-ICT-2013.3.4

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### Press Release 2

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EU FP7 - SMALL/MEDIUM-SCALE FOCUSED  
RESEARCH PROJECT (STREP), FP7-ICT-2013.3.4:  
ADVANCED COMPUTING, EMBEDDED AND  
CONTROL SYSTEMS  
D) FROM ANALYZING TO CONTROLLING  
BEHAVIOUR OF SYSTEM OF SYSTEMS (SOS)



## Deliverable SUMMARY SHEET

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### Deliverable D7.2.2: Short Description

This document covers the press release carried out at the end of Local4Global project as part of the dissemination activities to be done during task 7.1

**Keywords:** Press Release, autonomous devices, optimisation, traffic, buildings

### Deliverable D7.2.2: Revision History

Version:	Date:	Status:	Comments
1.0	15/12/2016	First Draft	
2.0	23/12/2016	Final	Press release reviewed
3.0	20/01/2017	Improved	Revisions/commenting by TUC and CERTH
4.0	09/03/2017	Updated with Impact	

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## **Executive Summary**

This document covers the press release carried out at the end of Local4Global project as part of dissemination activities to be done during task 7.1

## **1 Introduction**

As part of dissemination activities in Local4Global project, a press release had been scheduled for the last month of the project. IK4-TEKNIKER as exploitation and seller of Local4Global product prepared the press release to be launched through several national and international channels. This document includes the text for press release and the impact caused in national and international media.

## 2 Press release content

### Smart and autonomous devices for our cities

- ▶▶ *IK4-TEKNIKER has been involved in the Local4Global project that has developed a solution that allows smart apps to take decisions autonomously*
- ▶▶ *The new system has managed to improve city traffic conditions by more than 40% and has been able to optimise energy efficiency levels in a big building by more than 30%*

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(Eibar, Basque Country, XX January, 2017).- The desire to maximise energy efficiency in a building or the need to monitor and improve the efficiency of city traffic flows have brought about a need for the so called “smart” environments featuring a large number of sensors. Although ICTs play a fundamental role in these environments, manual operations are still required for the optimisation of their activities.

In order to deliver solutions that are able to optimise the global performance of these ecosystems, the European project [Local4Global](#) has successfully carried out pilot studies in two environments, located both in Germany, an arterial road network in Munich and multi-office building located in Aachen (Germany).

The tests delivered encouraging results. According to their main drivers, the solution made it possible to improve traffic conditions in Munich (Germany) by more than 40% during peak hours, increasing at the same time the network throughput.

Specifically, traffic lights were fitted with smart devices capable of deciding on the duration of green light cycles according to traffic flows and demands. This approach served to reduce traffic congestion significantly and allowed drivers to reach their destinations much quicker.

The system was also installed in a multi-office building in the German city of Aachen. In this instance, energy efficiency levels of several buildings were improved by more than 30% thanks to a number of devices that decided, autonomously, how to adjust air conditioning and central heating levels more efficiently, etc. to not only meet thermal requirements but also reduce the electricity bill.

Apart from the energy efficiency, there are two key attributes for the system: it requires the deployment of a "cheap" sensor system and, most importantly, it does not require any tuning or calibration by human operators (resulting in almost-zero operational costs for the system).

It means that the devices used for this purpose do not only provide real-time information and calculate suitable decisions at each point in time, but can also adapt to continuous environmental changes and do so in an optimum manner. Any orders to be sent to air conditioning devices, traffic lights or drivers, for instance, are calculated automatically to optimise global operations.

### **The role played by IK4-TEKNIKER**

Local4Global, that finished last December after some 3 years of research work, forms part of the EU 7<sup>th</sup> Framework Programme and is made up of different European entities including IK4-TEKNIKER.

In addition to the Basque technology centre, the following organisations have been involved in this project: [The Hellas Research and Technology](#) of Greece, the coordinator of the initiative, [the ETH Swiss Federal Technology Institute](#) in Zurich, [Aachen University](#) (Germany), the German company [Transver](#), [the Technical University of Crete](#) (Greece) and [the Technical University of Munich](#) (Germany).

The Basque technology centre has played an outstanding role within the consortium as it was responsible for developing the software used by the solution covered by Local4Global.

The equipment developed at IK4-TEKNIKER consists in a “gateway” that interconnects and couples already existing devices such as traffic lights, cell phones or satnavs to services already available in the cloud and does so in a very simple manner.

As this software has the advantage of using already existing devices, it is not necessary to install any additional high-cost infrastructures. It is also a system that is compatible with an extensive range of existing standard monitoring and communication protocols that can be easily be extended to include new protocols.

### **Concerning IK4-TEKNIKER**

With more than 30 years of experience in applied technology research that has been transferred to companies, IK4-TEKNIKER has achieved a high degree of specialisation in four major areas (Advanced Manufacturing, Surface Engineering, Product Engineering and ICTs). This means that its cutting edge know-how has been made available to customers to meet their requirements.



### 3 Media impact

Next it is detailed different media channels which published previous press release related to Local4Global project.

DATE

30-01-2017

TITLE

Dispositivos autónomos para construir ciudades inteligentes

MEDIA

SPRI

LINK Spanish

<http://www.spri.eus/es/actualidad-spri/noticias/dispositivos-autonomos-para-construir-ciudades-inteligentes>

LINK Basque

<http://www.spri.eus/eu/berriak-spri/berriak/gailu-autonomoak-hiri-adimendunak-eraikitzeke>

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DATE

26-01-2017

TITLE

Tekniker participa en un programa que instala aplicaciones inteligentes

MEDIA

El Correo

LINK Spanish

<http://www.elcorreo.com/gipuzkoa/201701/26/tekniker-participa-programa-instala-20170125235656.html>

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DATE

26-01-2017

TITLE

IK4-Tekniker participa en un proyecto que ha desarrollado dispositivos inteligentes y autónomos para nuestras ciudades

MEDIA

IZARO Manufacturing Technology

LINK Spanish

<http://www.izaro.com/contenidos/ver.php?id=es&se=2&su=20&co=1485339907#.WI8B8AQeYpc.twitter>

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DATE

25-01-2017

TITLE

Tekniker participa en un programa que instala aplicaciones inteligentes

MEDIA

El Diario Vasco

LINK Spanish

<http://www.diariovasco.com/bajo-deba/eibar/201701/26/tekniker-participa-programa-instala-20170126001558-v.html>

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DATE

25-01-2017

TITLE

IK4-Tekniker crea un software que permite decidir a aplicaciones inteligentes

MEDIA

El Diario Vasco

LINK Spanish

<http://www.diariovasco.com/agencias/pais-vasco/201701/25/tekniker-crea-software-permite-874450.html>

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DATE

25-01-2017

TITLE

Dispositivos inteligentes y autónomos para nuestras ciudades

MEDIA

Web IK4-TEKNIKER

LINK Spanish

<http://www.tekniker.es/es/dispositivos-inteligentes-y-autonomos-para-nuestras-ciudades>

LINK English

<http://www.tekniker.es/en/smart-and-autonomous-devices-for-our-cities>

LINK Basque

<http://www.tekniker.es/eu/adimendun-gailu-autonomoak-gure-hirietarako>

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DATE

25-01-2017

TITLE

IK4-Tekniker crea un software que permite decidir a aplicaciones inteligentes

MEDIA

Inversión & Finanzas

LINK Spanish

<http://www.finanzas.com/noticias/empresas/20170125/tekniker-crea-software-permite-3556527.html>

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DATE

09-02-2017

TITLE

Dispositivos autónomos para construir ciudades inteligentes

MEDIA

BTEK BIZI TEKNOLOGIA

LINK Spanish

<http://www.btek.org/dispositivos-autonomos-para-construir-ciudades-inteligentes/>

LINK Basque

<http://www.btek.org/eu/dispositivos-autonomos-para-construir-ciudades-inteligentes/>

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DATE

03-02-2017

TITLE

Semáforos inteligentes de Local4Global mejoran el tráfico en Múnich

MEDIA

Smartcity.es

LINK

<https://www.esmartcity.es/2017/02/03/semaforos-inteligentes-local4global-mejoran-traffic-munich>

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DATE

25-01-2017

TITLE

La UE desarrolla dispositivos que se autocontrolan para mejorar las ciudades

MEDIA

Agencia SINC

LINK

<http://www.agenciasinc.es/Noticias/La-UE-desarrolla-dispositivos-que-se-autocontrolan-para-mejorar-las-ciudades>

## SOCIAL NETWORKS



**Grupo SPRI** @grupospri · 2 h

Gailu autonomoak, hiri adimendunak eraikitzeko #grupospri [bit.ly/2kKe8x6](https://bit.ly/2kKe8x6)  
@IK4\_TEKNIKER @deiEJGV



Arantxa Tapia, Alexander Ariola, Eusko Jauriaritza and 5 others




**Grupo SPRI** @grupospri · 19 h

Dispositivos autónomos para construir ciudades inteligentes #grupospri  
#Tecnologia [bit.ly/2kjpSIZ](https://bit.ly/2kjpSIZ) @IK4\_TEKNIKER



Arantxa Tapia, Alexander Ariola, Eusko Jauriaritza and 5 others



 **Izaro Technologies** @izarotech · 3 h  
@IK4\_TEKNIKER participa en proyecto que ha desarrollado dispositivos inteligentes y autónomos para nuestras ciudades [izaro.com/contenidos/ver...](http://izaro.com/contenidos/ver...)

 **Alianza IK4** @AlianzaIK4 · 26 ene.  
@IK4\_TEKNIKER participa en un programa que instala aplicaciones inteligentes



**Tekniker participa en un programa que instala aplicaciones inteligente...**  
El centro tecnológico IK4-Tekniker participa en el proyecto Local4Global, que ha desarrollado una solución para dotar a las aplicaciones inteligente...  
[diariovasco.com](http://diariovasco.com)



IK4-TEKNIKER @IK4\_TEKNIKER · 26 ene.

Entornos #Smart para maximizar la #EficienciaEnergética de edificios o controlar el tráfico de las ciudades



**Dispositivos inteligentes y autónomos para nuestras ciudades – IK...**

IK4-TEKNIKER ha participado en el proyecto europeo Local4Global que dota de inteligencia y autonomía a dispositivos ya existentes para que se...  
tekniker.es



biotecnologiaaldia @biotecnologiaa1 · 25 ene.

**Dispositivos inteligentes y autónomos para nuestras ciudades**  
[biotecnologiaaldia.es/index.php/comu...](http://biotecnologiaaldia.es/index.php/comu...)



PedroMartinez @dracoulises · 3 feb.

Semáforos inteligentes de **Local4Global** mejoran el tráfico en Múnich • ESMARTCITY



**Semáforos inteligentes de Local4Global mejoran e...**

El programa europeo Local4Global ha finalizado tras tres años de investigación para hallar soluciones tecnológicas con las que mejorar el flujo del tráfico e...  
esmartcity.es



Seguido por Amigos Ingeniería y 4 más



Luis E. Silva M. @luisesilvam · 26 jul. 2014

"@INNOVaticiascom: **Local4Global**, un proyecto europeo que dotará de más inteligencia a las TIC [@AppsBarranca](https://dlvr.it/6QtXkm)



**Local4Global, un proyecto europeo que dotará de...**

El proyecto tiene como objetivo desarrollar sistemas TIC inteligentes capaces de reducir entre un...

[innovaticias.com](http://innovaticias.com)



Alianza IK4 @AlianzaIK4 · 9 feb.

Destacada participación de [@IK4\\_TEKNIKER](https://twitter.com/IK4_TEKNIKER) en el proyecto **Local4Global**  
[buff.ly/2kVPV9C](https://buff.ly/2kVPV9C)

