INNOVATIVE SOLUTIONS FOR SMART INFRASTRUCTURE AND SERVICES IN CITIES
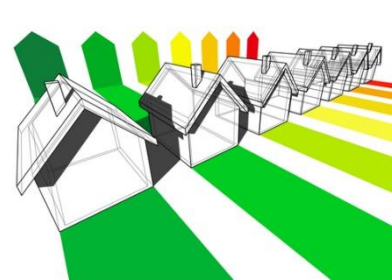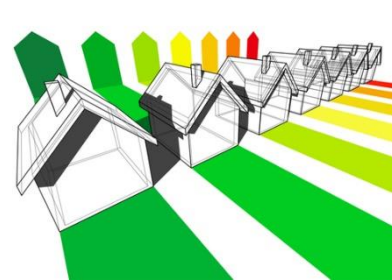
Tuesday 7th October 2014 – Fundacion Galicia

fundación
GALICIA EUROPA

UDITE

VEOLIA

OPEN DAYS

12th European Week of Regions and Cities
Brussels 6 - 9 October 2014

Pablo José Vázquez Muñiz,
**Director of Planning and eGovernment,**
Coruña Municipality

Smart City Coruña

INNOVATIVE SOLUTIONS FOR SMART INFRASTRUCTURE AND SERVICES IN CITIES

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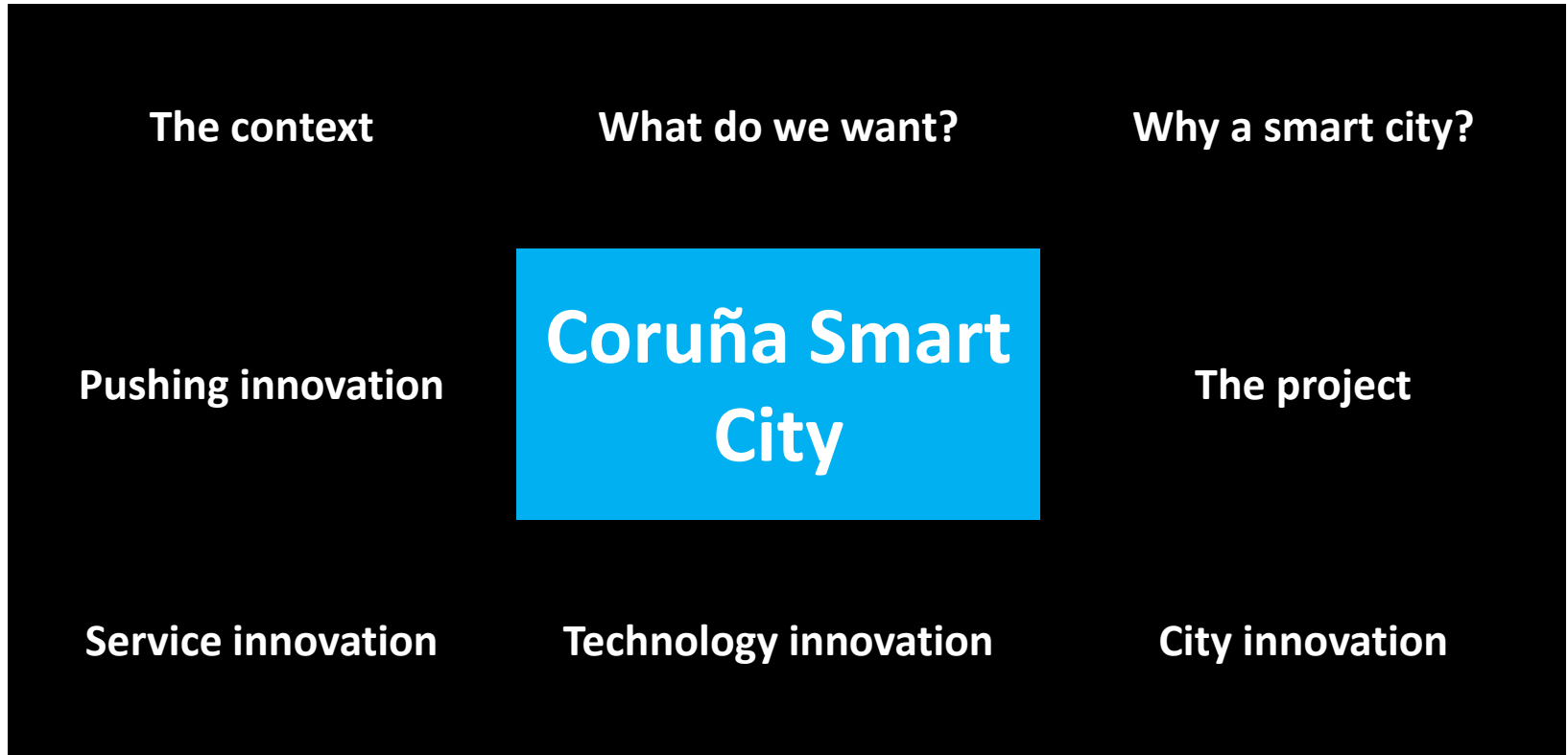**12th European Week of Regions and Cities**
Brussels 6 - 9 October 2014

The project for the 21st Century city

Coruña Smart City will mark a turning point in the type of city we expect to live in
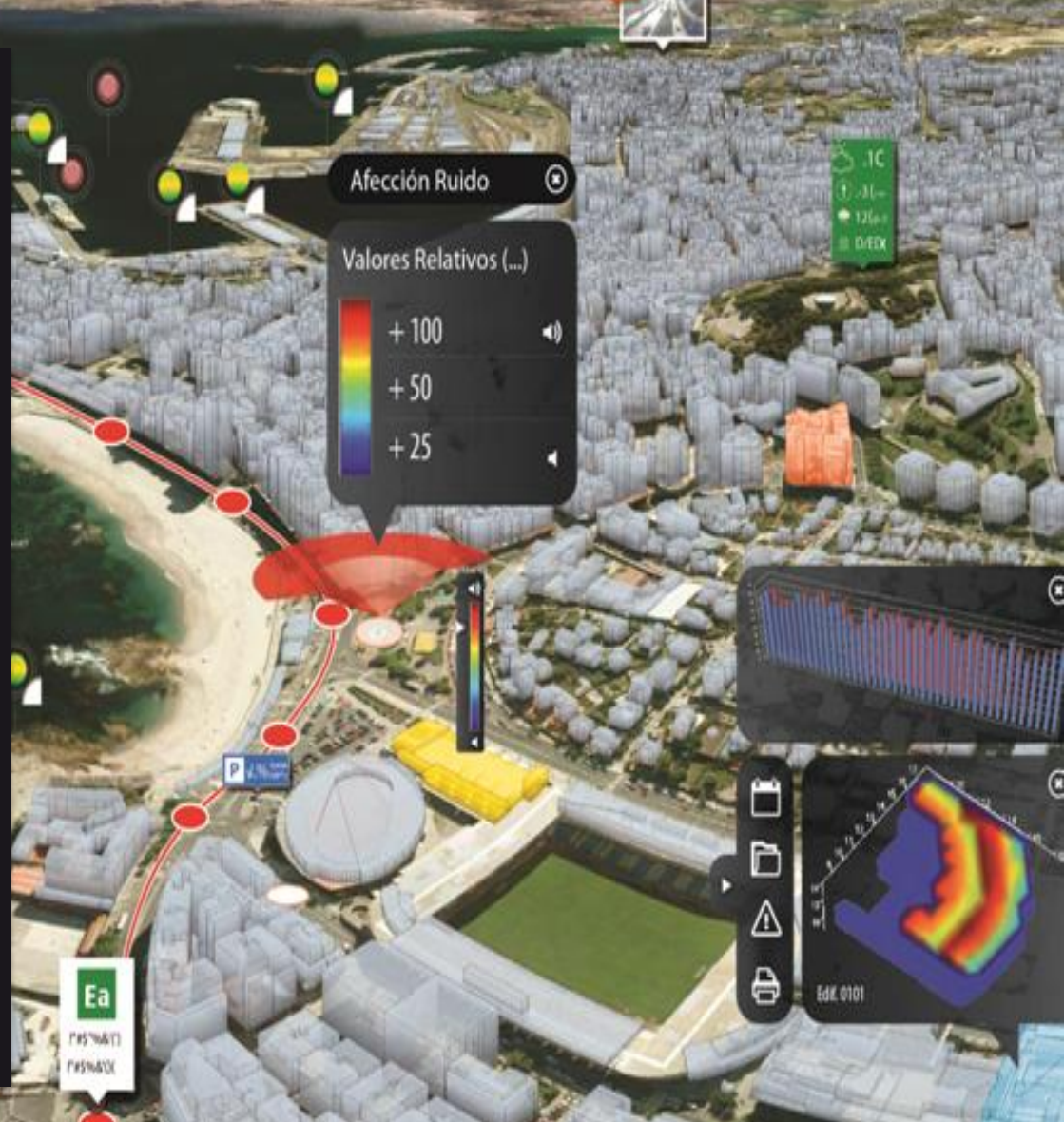
Coruña Smart City

What can we talk about?
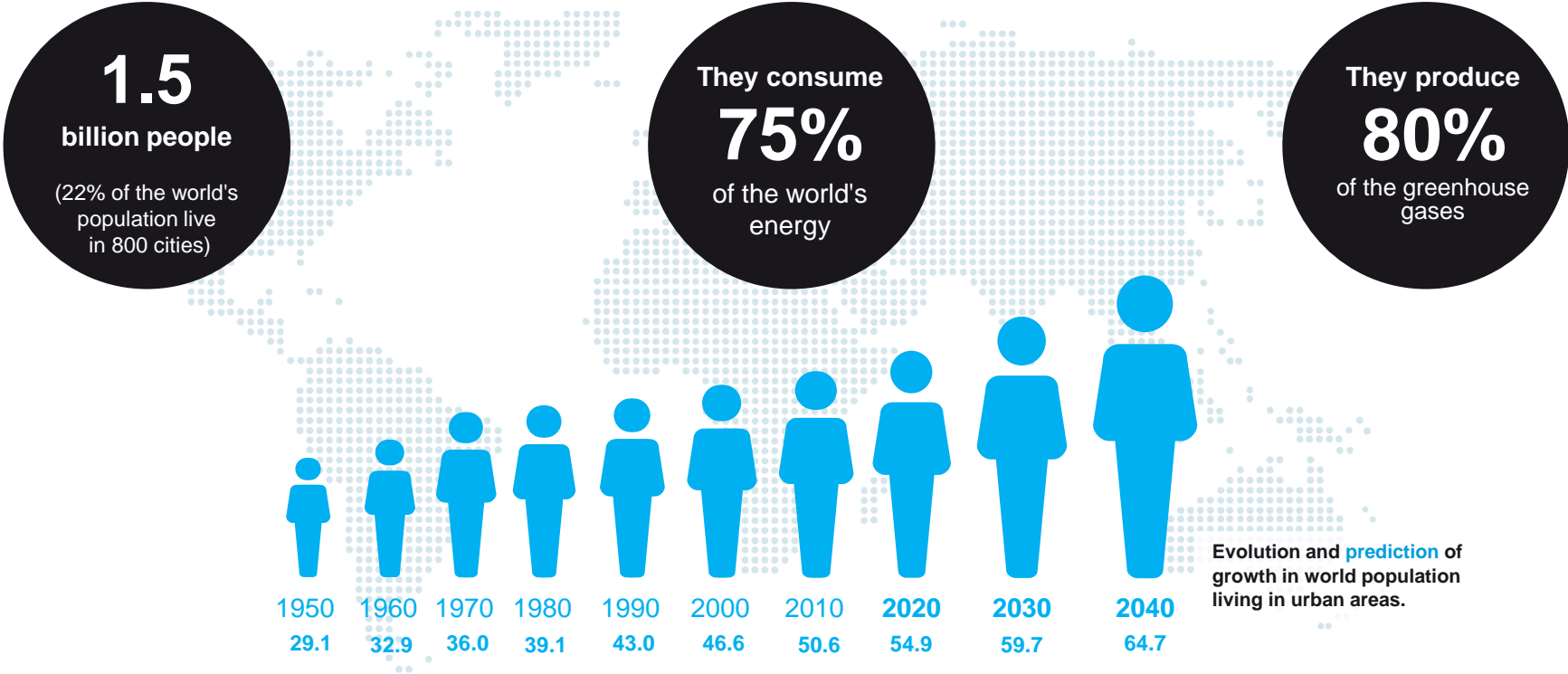
Coruña Smart City

Coruña Smart City

The global context

According to the UN, in 2050, 70% of the world's population will live in cities

Currently there are
33 cities
with more than
10 million
inhabitants

In 2020, there will be 10 mobile devices per person

50 billion devices connected

Coruña Smart City

1.5
billion people
(22% of the world's population live in 800 cities)

They consume 75% of the world's energy

They produce 80% of the greenhouse gases

1950	1960	1970	1980	1990	2000	2010	2020	2030	2040
29.1	32.9	36.0	39.1	43.0	46.6	50.6	54.9	59.7	64.7

Evolution and prediction of growth in world population living in urban areas.

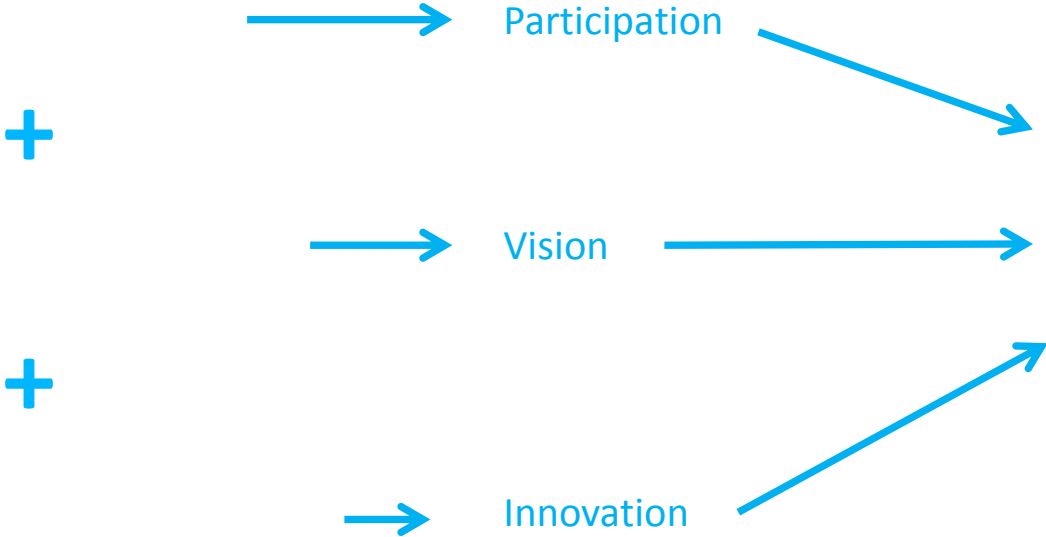# Coruña Smart City

Society is changing, and one of its maximum representations, **the city**, needs to evolve its management model to respond to economic, cultural, environmental and social needs…

Coruña Smart City

What are we looking for?

Participation

+

Vision

+

Innovation

Coruña Smart City

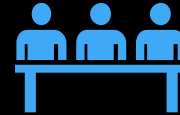**Why an Smart City?**

Smart City…

Vision

City managers make better decisions because they are better informed

Participation

Citizens participates and contributes with knowledge

Innovation

Companies have more ability to stimulate the development of the city

Coruña Smart City

Why an Smart City?

For ....

Serve citizens, wherever, whenever and however they need it.

+ EFFICIENCY
Lighting and watering is activated only when it is needed

+ SERVICES
They can be used at any place and time

+ PARTICIPATION
Residents are able to give opinions and information about what's going on

+ SUSTAINABILITY
Mobility is managed according to the circumstances

Coruña Smart City

An initiative led by the City Council that aims to **position the city** at the forefront of **smart cities** through a comprehensive approach.
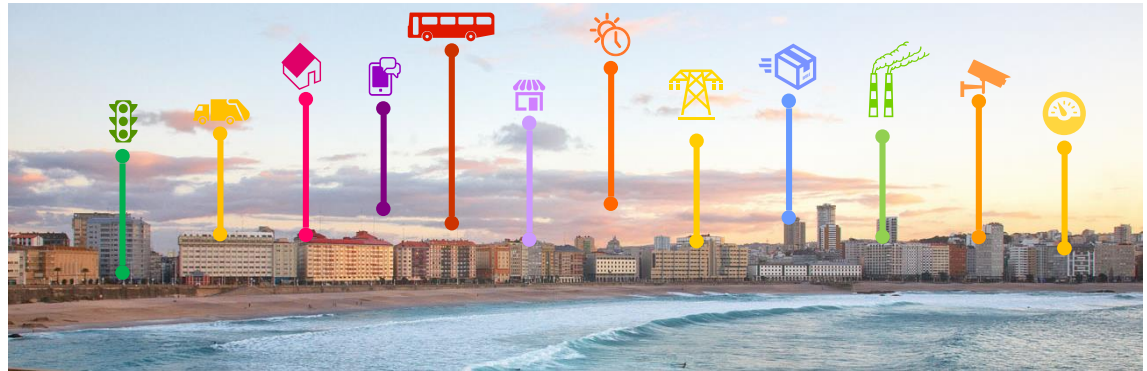
In a smart city, **technology** drives **sustainability**, **public well-being** and **economic development**.

Coruña Smart City
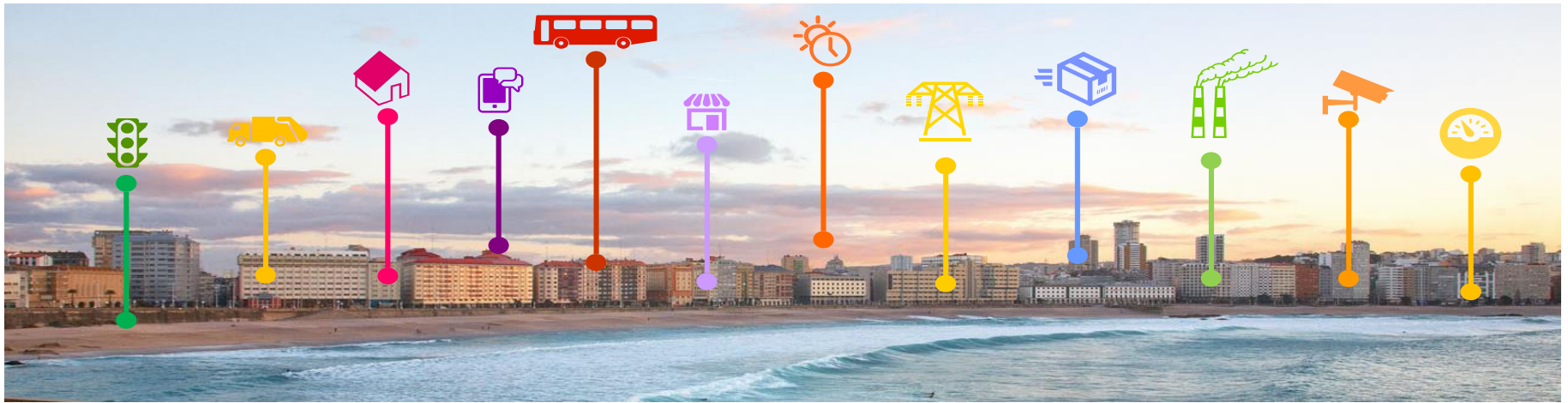
The project

With one aim …

…obtain **data,** transform it in **information** and promote **services**

Coruña Smart City

The project

smart
city

Focused on
citizens

| Water | Energy | Environment | Mobility | Education | Leisure and tourism | Services | Housing |

Coruña Smart City

The project

An investment of... **€ 11.568.635,00**

80% co-financed by the ERDF

Coruña Smart City

The project

2011	2012	2013	2014	2015
Signature of the agreement	**Public tender**	**Project start**	**Vertical pilots**	**Suataina-bility**
Between the A Coruña City Council and the Ministry of Economy and Competitiveness	Definition and development of the Coruña Smart City platform, and the definition and implementation of the Project Office	Project office becomes operational; identification and characterisation of the specs of the technological platform.	Tendering process, roll out & integration of the vertical pilot tests of the Coruña Smart City technology platform.	Continuity in the horizontal (for all the city) and vertical (to more sectors) areas. Hub and business development.

|	**Awarding**	**Technology platform**	**Overall integration**
	Evaluation of the 7 bids made involving a total of 84 companies. Awarded to a consortium made up of Indra, Altia, R and Ilux.	Development, implementation and operational implementation of the core technological platform of Coruña Smart City.	Exploitation of the services of the horizontal platform and of those of the vertical pilots.

Coruña Smart City

Coruña Smart City is DIFFERENT…

Instead of focusing on vertical solutions (energy, mobility, waste Management…) we decided to **build a horizontal platform**, i.e. the **"city brain"**, and gradually **integrate** all the **management areas** of the city around it.
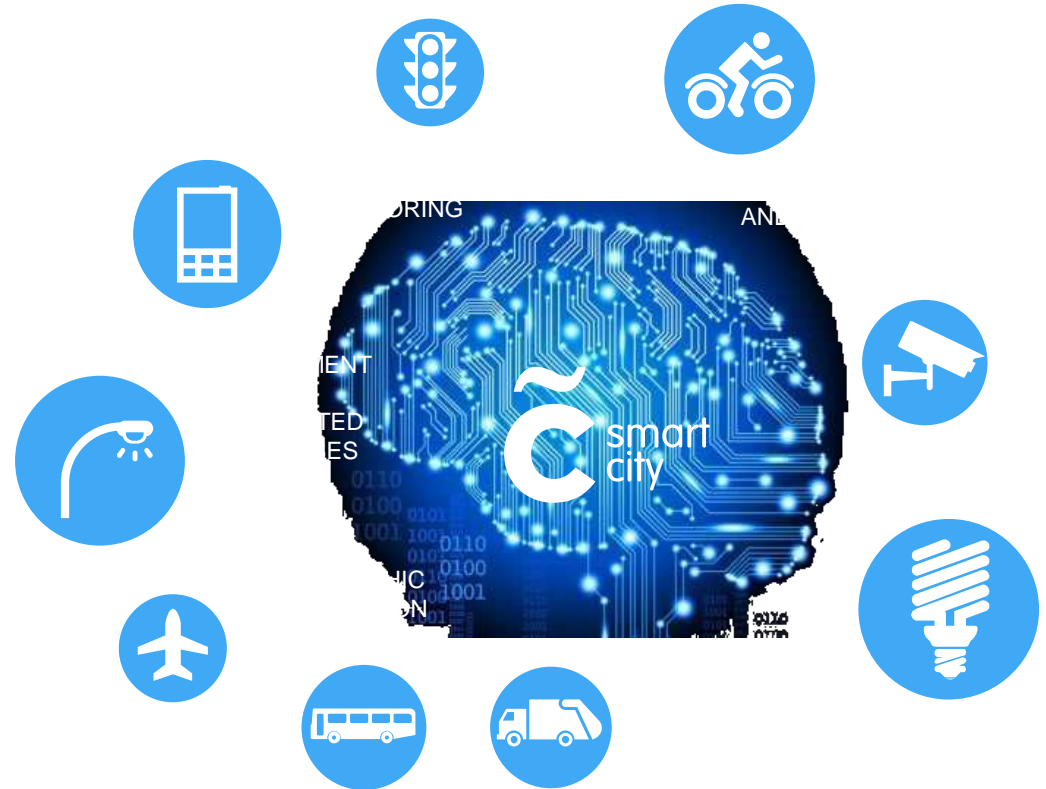
Coruña Smart City

City innovation
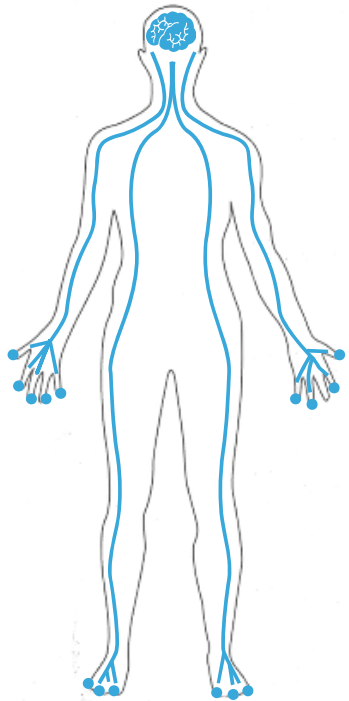
3	Relying on accurate information permits taking the **best decisions** and **adapting** to the **needs** of the city in real time.
2	These data **are integrated** and are managed through **predictive rules and models**, which turn them into **information**.
1	The **data** are obtained from multiple **sensors and devices** that are scattered across the city.

Coruña Smart City

👁 **ADVANCED DISPLAY**	**Advanced modelling and 3D business dashboards** to represent information, to analyse it and act on the network elements.

⚙ **HOLISTIC ENGINE**	Allows the **indicators** (operational, and strategic) and the **historical data to be analysed** on a map of the territory, also permitting any unexpected patterns of variables to be detected easily.

Coruña Smart City

City innovation

Coruña Smart City

- Progressive integration of information and services
- Progressive increase of shared information
- Citizen and corporate participation
- Internal organizational change

multiarea

holistic

innovative

intuitive

Coruña Smart City

Technology innovation

capture

sensors

databases

spatial data

open data

interope_rability

SOFIA
Smart Objects for
Intelligent Applications

integration

interco-nnection
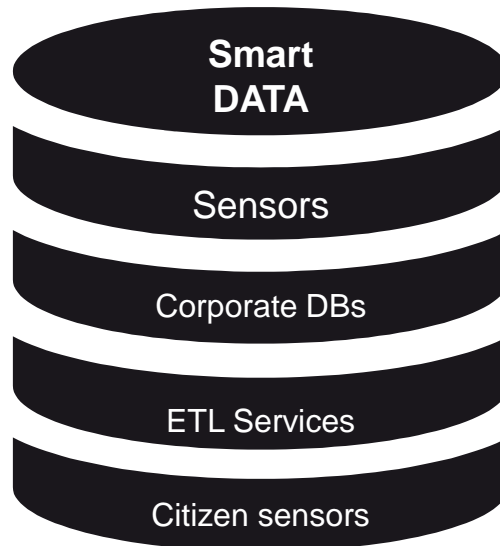
support

explo-itation
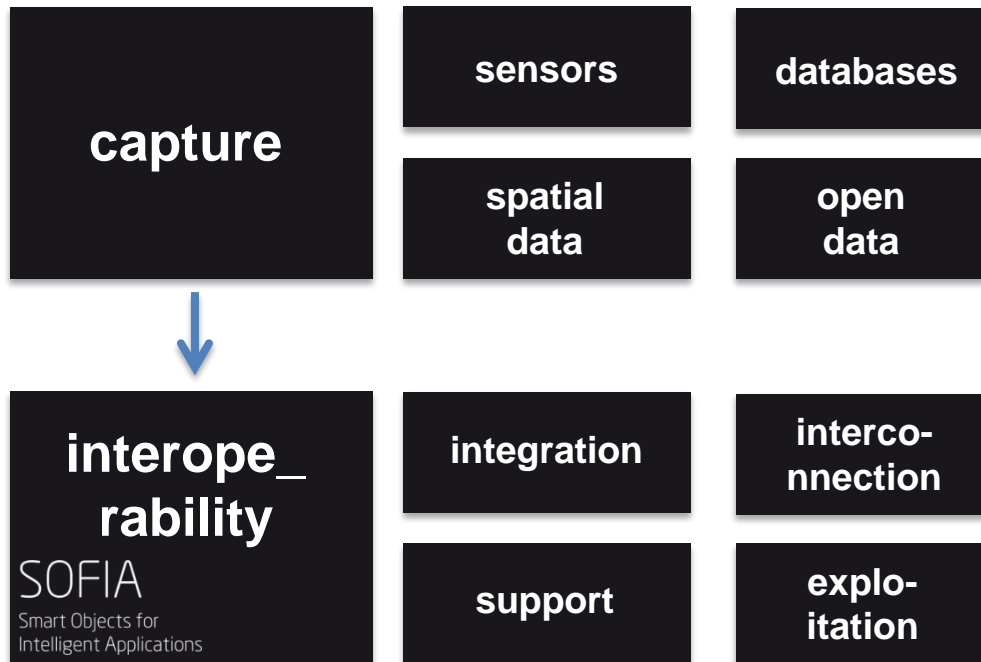
The Coruña Smart City technology platform permits **capturing and managing the inherent** data complexity of the **infrastructure and human activities** in the city.

Coruña Smart City

Service innovation

Inclusion of data from **different** sources for **generating higher value-added services.**

Smart
DATA

Sensors

Corporate DBs

ETL Services

Citizen sensors

An Open Data treatment for Smart data, so they can be used and exploited by third parties.

Advanced support for the construction of **intelligent services** for the public**.**

Coruña Smart City

Service innovation

Main portal open to the public, collaborators and municipal managers for accessing the knowledge and services of Coruña Smart City.

Gives access to contents and services appropriate for each group and/or area of interest.

Based on **open and scalable technologies.**

Permits the design & construction of a **network of portals** for the Council.

Customisable to meet user service needs and preferences

Coruña Smart City

Pushing innovation

Much of the Coruña Smart City data will be available in **open data format**, which will encourage the creation of **new value-added services**, in turn creating new **opportunities and business models**.

Coruña Smart City

Pushing innovation

Smart museums Living in A Coruña Management of urban happiness Interactive car Citizen sensor network Virtual beacons Thermo-sensitive clothes Smart payments via smartphones Decision-taking based on information form Smart pavement Biking route suggestions…

Coruña Smart City

Pushing innovation

The **business hub** was born with the aim of boosting the Smart City concept in Galicia, by driving innovation and positioning Galicia as a benchmark thanks to the experience acquired from the **Coruña Smart City** project.
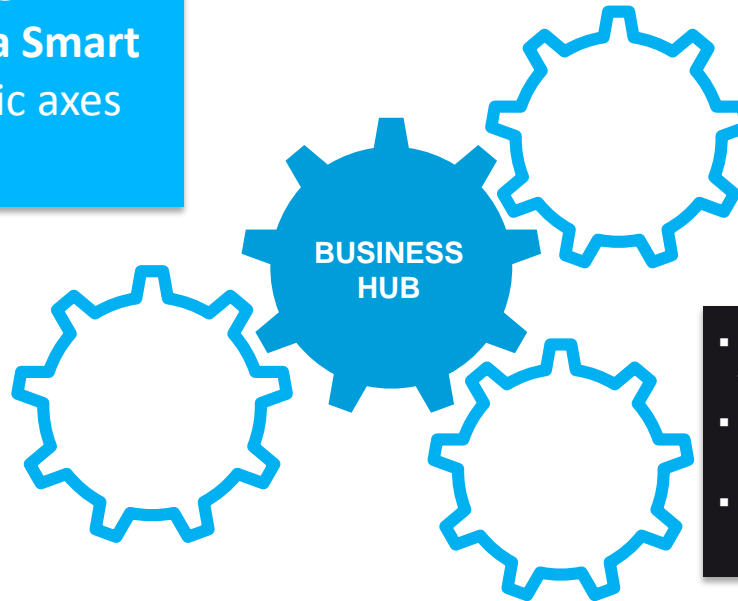
Objectives

- Development of the **innovative know-how and economic/ business** stimulation in the region

- **Position Galicia** as a referent in the Smart Cities scene

- **Promote public and private investment** in research activities

- Generate **new jobs and promote a culture of entrepreneurship**

- **Extend the Coruña Smart City** experience to the whole of Galicia

Coruña Smart City

Pushing innovation

The capitalisation of **the know-how, business development and the dissemination of the A Coruña Smart City** project will be the strategic axes of the Hub

BUSINESS HUB
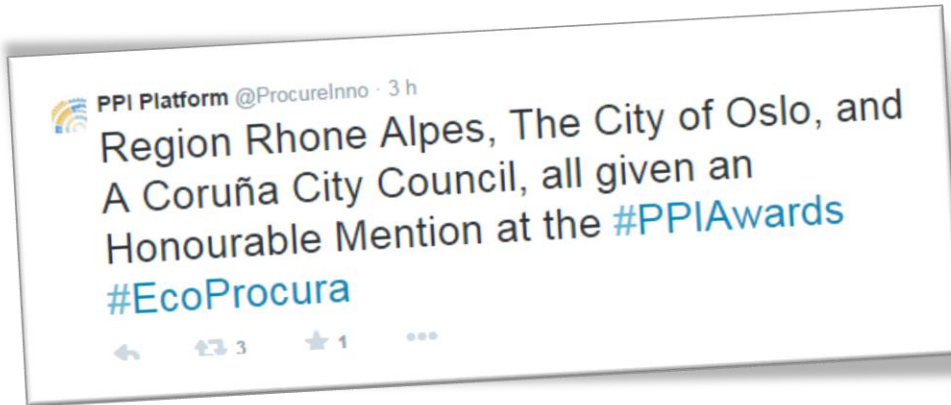
- Agreement with the IT Cluster
- Identification of development opportunities and markets
- Internationalisation of the companies

- R&D research lines
- Incorporation of the Smart concept into training
- Technology transfer

- Dissemination of the project among the public and companies
- Participation of other cities in Coruña Smart City
- Exporting the model

Coruña Smart City

Pushing innovation

www.innovation-procurement.org/award

PPI Platform @ProcureInno · 3 h
Region Rhone Alpes, The City of Oslo, and A Coruña City Council, all given an Honourable Mention at the #PPIAwards #EcoProcura

↩   ↻ 3   ★ 1   ···

Coruña Smart City consigue la mención de honor a la mejor Compra Pública Innovadora 2014

A Coruña fue la única ciudad española que logró llegar a la final en esta categoría en la gala EcoProcura celebrada esta tarde en Gante

Redacción | A Coruña | 25.09.2014 | 19:56

El proyecto Coruña Smart City ha recibido una mención de honor a la **mejor Compra Pública Innovadora 2014** por parte de la Comisión Europea en la gala **EcoProcura** celebrada esta

Procurement of Innovation
PLATFORM

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Procurement of Innovation > Award > A Coruña City Council

A Coruña City Council – smart city platform

The geographical and functional peculiarities of the city of A Coruña suggest that the integrated management of the city is preferred over a traditional management model. For that reason, the A Coruña City Council initiated the procurement 'smart city platform'. In this procurement the market was asked to develop a 'brain' which, although less visible to the public, provides support to current and future city services and contributes the holistic vision that will enable its comprehensive management.

C̃ smart city

Thank you for your attention

smart.coruna.es
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