

# THIRD MEETING OF THE U4SSC INITIATIVE

SMART CITY , ACTUAL CITY

Esperanza Caro . 2018

22 de febrero de 2017



**Seville City Council considers technological innovation, transparency, smart cities and open data to be key elements to increase efficiency and improve the competitiveness of the local economy.**



- Net reduction of energy consumption per capita.
- Improve the environmental situation, energy management and mobility of the territory.
- Increase the use of renewable energy.
- Adapt the municipal infrastructure to the current needs of the city development.
- Promote awareness and civic responsibility on good practices with the necessary training about environmental issues.
- Get real information on the situation of the municipality.
- Provide tools for monitoring and controlling the management in the municipality.
- Create new ways and procedures of participation between different social, technical and economic agents.





# Seville's Smart City Concept

- ❑ Seville smart concept is based on seeking the **balance** between:
  - ❑ Implementation of innovative and pioneering technologies.
  - ❑ Efficiency of the resources management.
  - ❑ Improvement of the services.

**Smart services generate efficient urban processes and reduction of costs.**

- ❑ Enhancement of the quality of life for citizens and visitors:

**The empowerment of citizens.**

**The governance models in the city based on the transparency.**



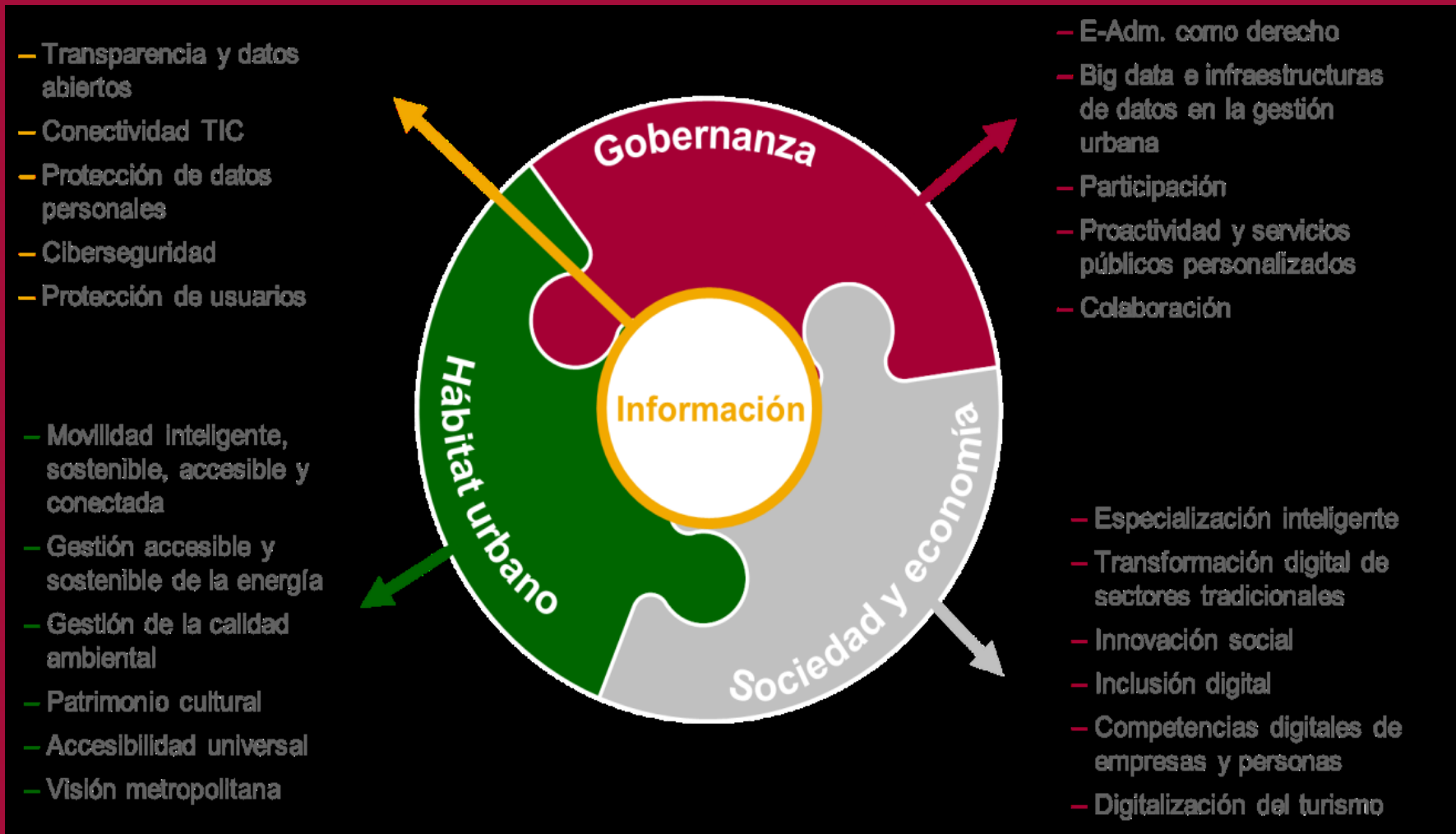
# Seville's Smart City Concept



“Optimized City using ICT and Innovation to answer the future needs on a sustainable urban development”.

- ❑ To work on the smart city concept of Seville is relevant because:
  - ❑ It is a key element for improving the local economy competitiveness.
  - ❑ It is clearly aimed at the citizens and the businesses.
  - ❑ It fosters an innovative productive/business model.
  - ❑ It obtains the maximum value from public resources.
  - ❑ It achieves savings in the short and medium term, and eliminates duplications.





# Sevilla Smart City – Examples

## Smart Environment

- Ewas 
- Amico 
- aquaWS 
- Smart Fountains 
- PV in buildings 
- Dareed 
- Sinfonia 

## Smart Mobility

- Fleet Mngmnt 
- Movele Sevilla 
- EV Cluster
- Secora
- Hispalnet
- App Strategy.
- Tussam. Accesibility

## Smart Governance

- Strategical plan / ISUDS /RIS3 
- GIS (IDE) 
- Electronic offices 
- e-democracy portal 
- Transparency Portal
- Open Data Portal 
- Contractor Profile 
- BI Portal

## Smart Economy

- Entrepreneur Seville
- FIWARE Sevilla 
- Tourism Portal /App /info paneles 
- Cross (Time Banking) 

## Smart People

- 072Reur / 010
- Open Data Portal
- e-democracy portal

## Smart Living

- Seville in my pocket 
- Cross (Time Banking) 
- Reserva pistas deportivas
- App Tussam
- Seville at your pace (sevici)
- Adopción en zoosanitario



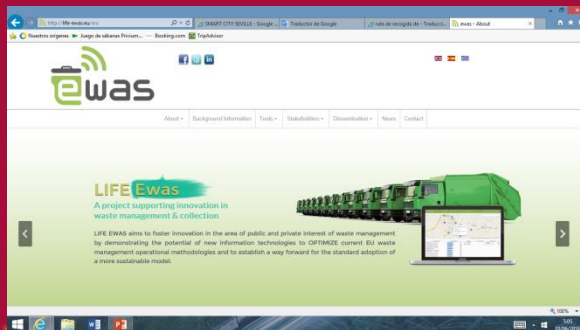
# Sevilla Smart City – Initiatives (1)

Smart Environment

- ❑ **AMICO project:** Pilot on wireless remote reading of water meters, via radio.
- ❑ **EMASESA control centre** (24h/day, all processes in real time, remote operation of installations).
- ❑ **LIFE EWAS project (LIFE+)** for sensorization of glass collection containers and underground containers for the optimization of routes. (LIPASAM)



- ❑ **aquaWS:** Integral system for the multichannel customer management, networks and works (EMASESA).







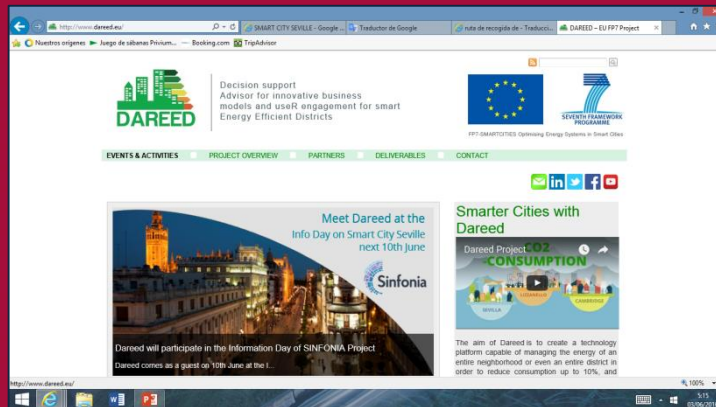
# Sevilla Smart City – Initiatives (2)

## Smart Environment

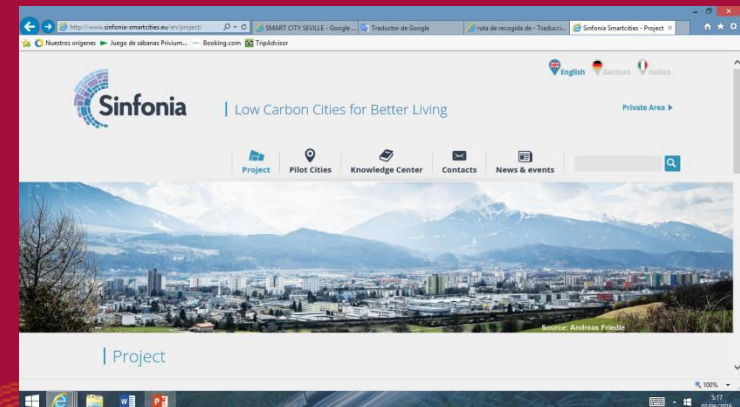
❑ **Smart fountain FUENT-E project:** for monitoring a fountain’s water quality (FIWARE)



❑ **DAREED project (7FP)** to create a technology platform capable of managing the energy of an entire district. (Balanced ScoreCard)



❑ **SINFONIA project (7FP)** to deploy large-scale, integrated and scalable energy solutions in mid-sized European cities. (refurbishment)

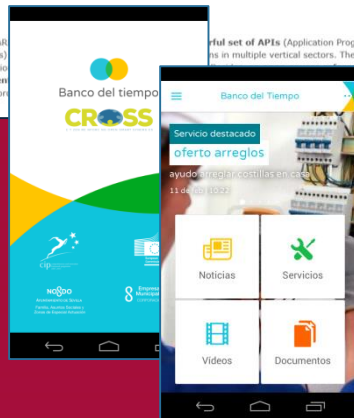
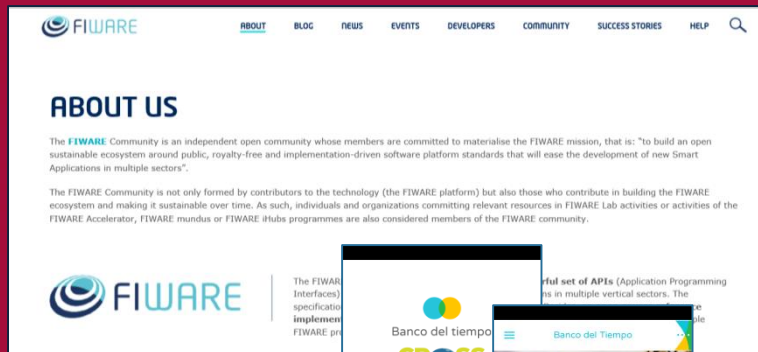
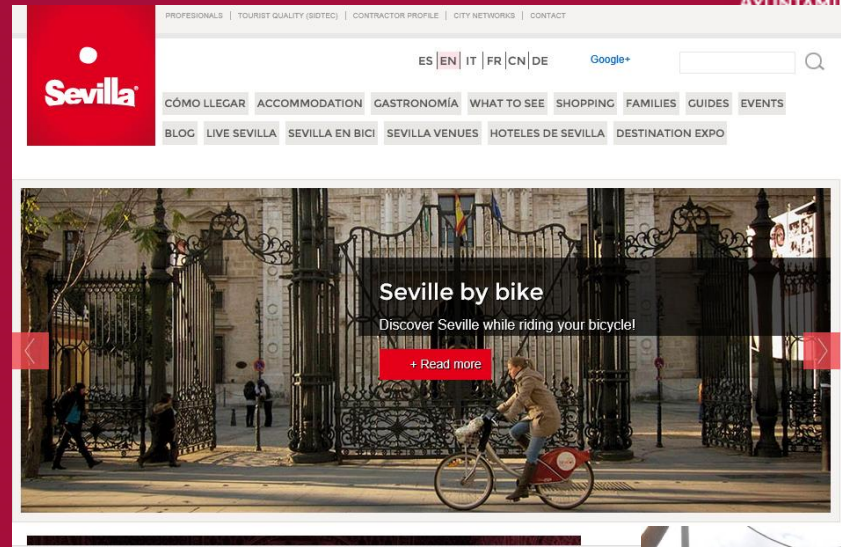


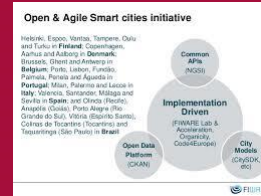
- ❑ Spatial data infrastructure for the urban space managing (GIS)
- ❑ Data control center “La Ranilla”, with all data about security and mobility.
- ❑ E-democracia, a forum that allows the citizens a voice heard by representatives of their districts.
- ❑ Transparency Website .
- ❑ Open Data website.
- ❑ Online Services (Electronic Offices)
- ❑ Business Intelligence Portal





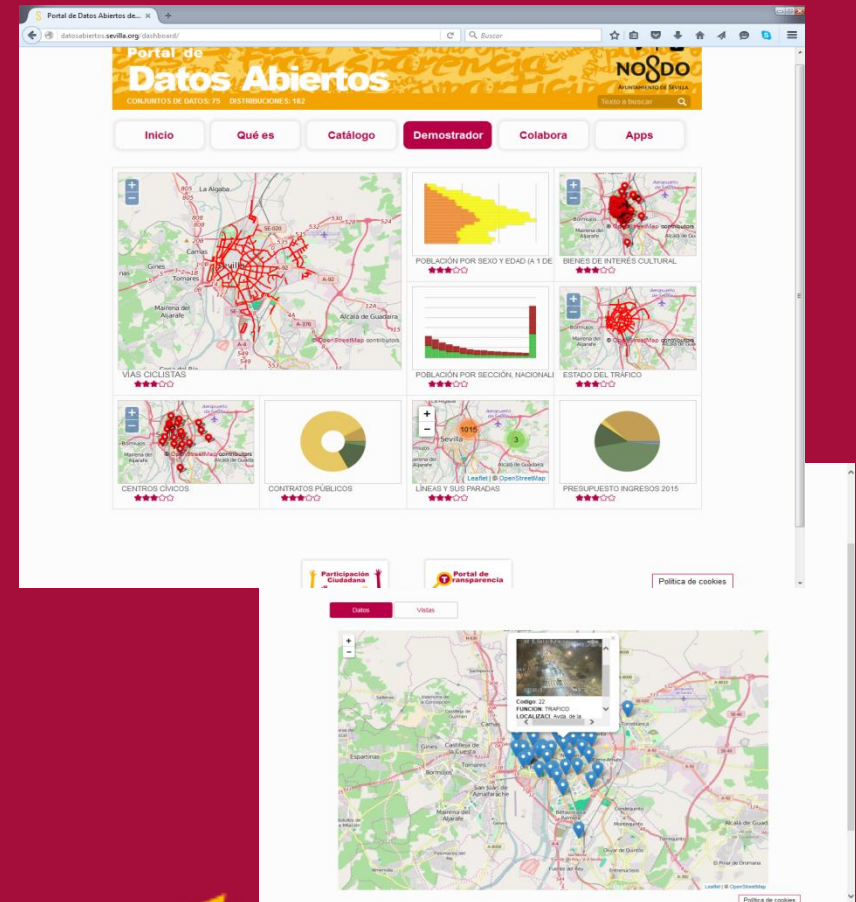
- ❑ Tourism- Visit Seville. website
- ❑ Digital information Office.
- ❑ CROSS project (Bank of time) (7FP).
- ❑ FIWARE.



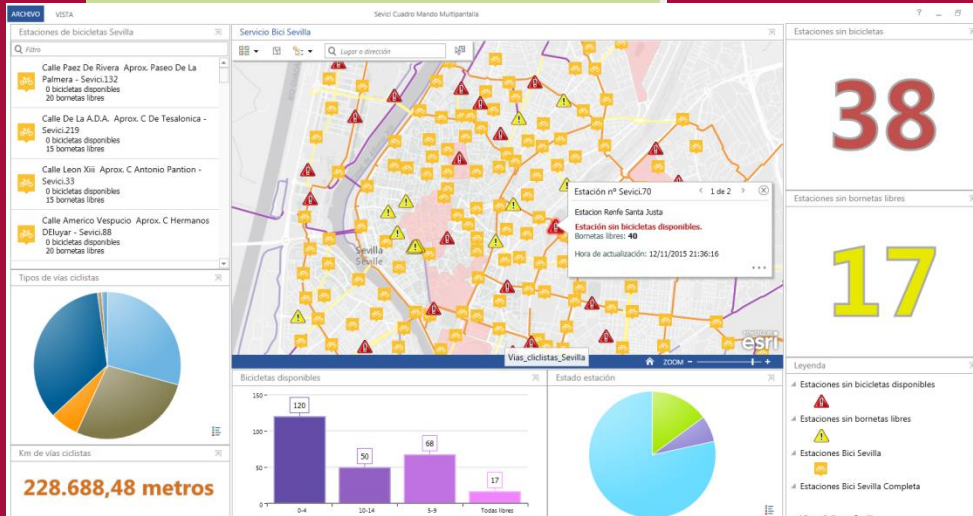
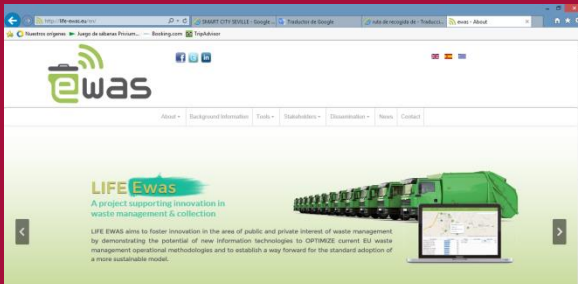


<http://datosabiertos.sevilla.org>

- ❑ Seville joined OASC initiative “Open and Agile Smart Cities (OASC)”, watershed of Smart Cities in relation to FIWARE. March 2015.
- ❑ Seville Open Data Strategy and Seville Open Data platform using FIWARE NGSI API, CKAN and the city SDK. Native Integration into FIWARE Lab. Complies with standard “**UNE 178301:2015 Smart Cities Open Data.**”



- ❑ Open Innovation Model. Seville Urban Lab. Scalability / Replicability
- ❑ Became the standard for FIWARE.
- ❑ Multidisciplinary Working Group



ESRI Connector, SSD

## FUENT-E

Funcionamiento

Estado motor

Motor encendido

RPM

1320 rpm

Acidez

8.24 pH

Cantidad de cloro en agua

1.61 mg/L

Temperatura del agua

13.64 °C

Panel web y móvil en tiempo real

Alarmas y avisos

Históricos e informes

Modular y configurable

Este proyecto ha sido financiado por la Unión Europea

Prize @slan 2015 – Local Administration Digital Services  
Real-time Water Quality Monitor (Smart Fountains)

¡Gracias!

*Danke!*

*Grazie!*

*Thank you!*

*Спасибо!*

*Merci!*

*Obrigado!*

