







STRATEGIC PLAN 2010 - 202 MASTER
PLAN FOR
INNOVATION

3

Main Axes

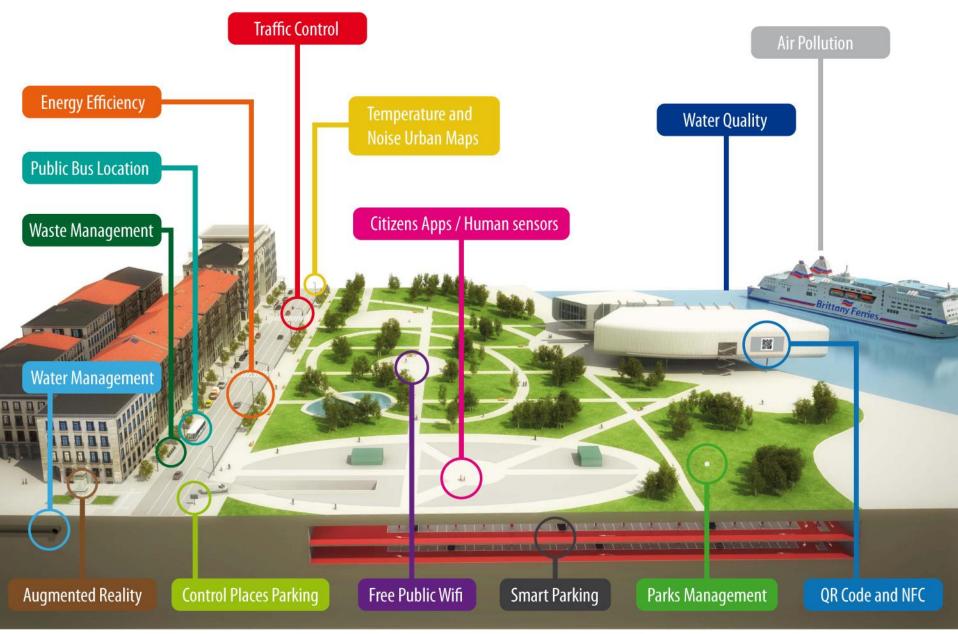




- 1 Santander Smart City
- 2 Santander Open Innovation
- **3** Public Administration Modernization

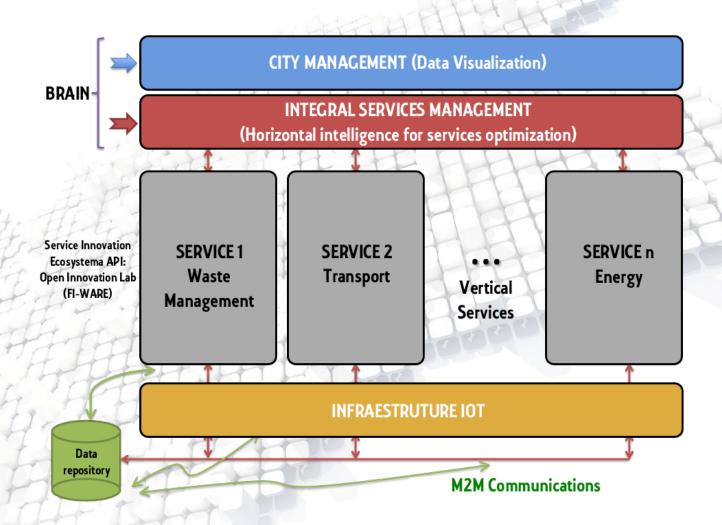






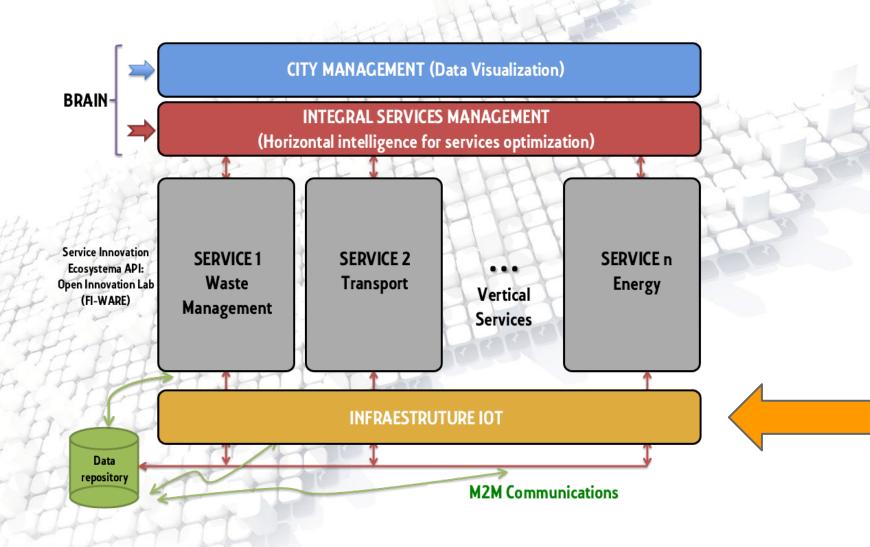
















SmartSantander Project

City-scale experimental research facility in support of typical applications and services for a smart city.



20.000

IoT devices

TARGETING:

- Researchers
- End Users
- Service Providers

DURATION:

• 36 months

CONSORTIUM:

- 15 Organizations
- 8 UE Countries + AU

BUDGET / FUNDING

• 8.6M€/6 M€

RESOURCES

• 746.2PM





SANTANDER







IoT Facility

Internet of Things technology is the pillar for future developments, services and aplications of the Smart City

http://maps.smartsantander.eu/





Different Sources of Information





Fixed sensors



Mobile sensors



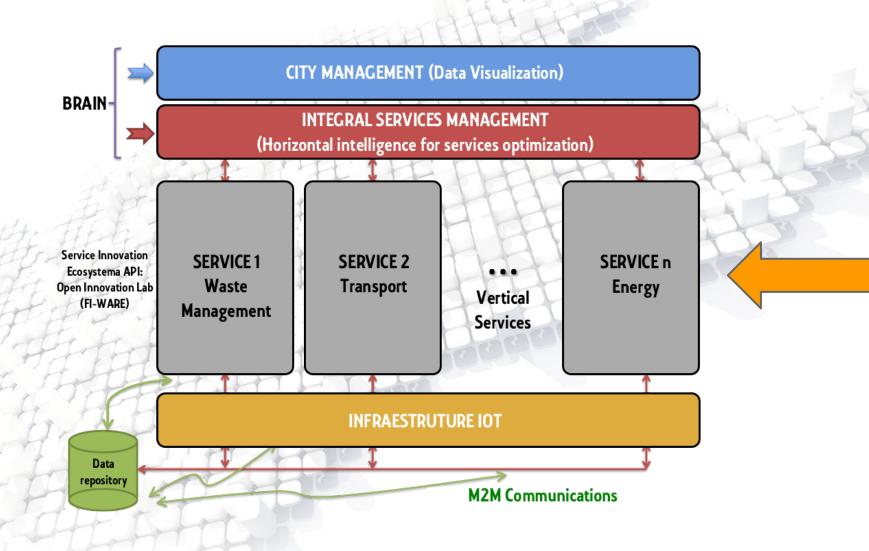
QR Code and NFC technology stickers



Citizens Apps -Human sensors











Urban Waste Collection and Management Service



Sensors capable of measuring garbage levels in bins

System for identification and monitoring litter bins

Fleet Management Systems



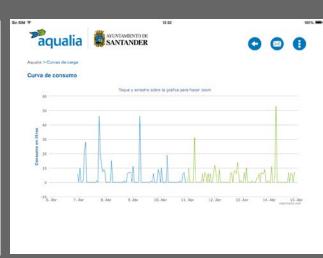


SANTANDER

Smart Water Management









- Events reporting
- Tools for accessing to individual water usage consumption
- Linked to Aqualia company means:
 - Virtual Office
 - Client Customer Office
- Tools for reporting incidences on the network





SANTANDER

Energy Efficiency



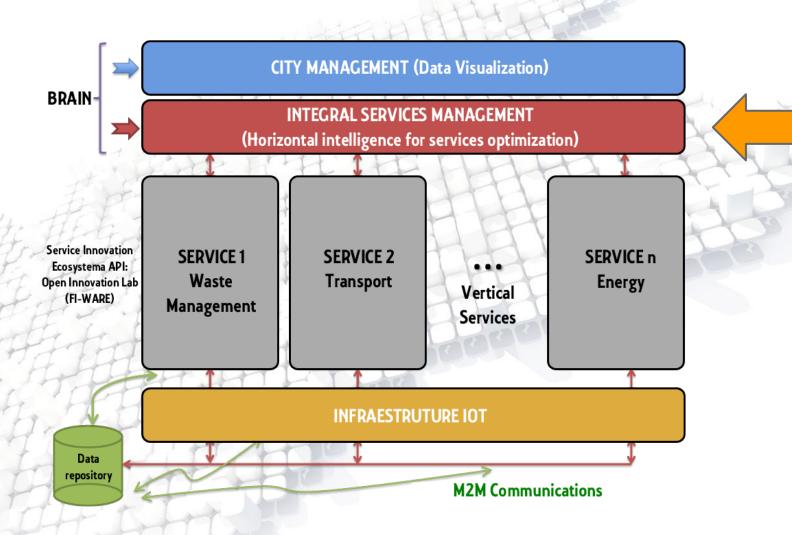
Energy audits will be carried out in:

- Municipality buildings
- Libraries
- Education centres
- Public sports facilities
- Street lighting



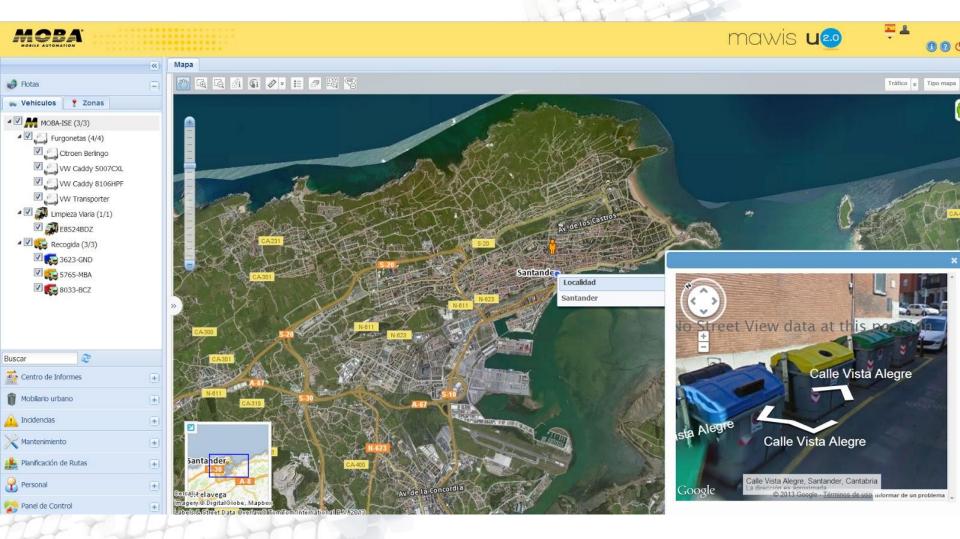


SANTANDER













- Santander Smart City
- Santander Open Innovation
- Public Administration Modernization





CITIZENS ENGAGEMENT





Santander City Brain



Smart Santander Centre for Demonstrations and Entrepreneurship





Examples





SmartSantanderRA



Pulso a la Ciudad





SANTANDER





Online free platform for citizens participation by sharing ideas, or by voting and commenting on ideas shared by others

http://www.santandercitybrain.com/







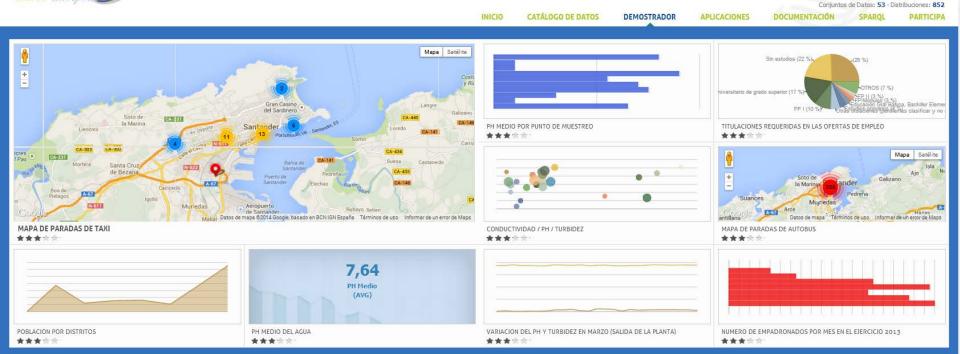
Smart Santander Centre for Demonstrations and Entrepreneurship











PARTICIPA







Open Data Santander

Data catalogues are available for citizens and companies, enabling new business models and promoting the development of services and applications.

http://datos.santander.es/





SANTANDER



The European Network of Living Labs

Santander, urban laboratory for national and international initiatives





SMARTSANTANDER Project

20,000 sensors deployed in the city for applications of street lighting, energy monitoring and control, waste management, parking space finder, environmental monitoring

OUTSMART Project

The adoption of FI enablers within the utilities infrastructure for the provision of Smart City services. In particular, a smart street lighting

BUTLER Project

IoT major challenges are, from a systemic viewpoint, smart resource management and digital security; and from a user/service perspective

SMART Project

SMART will introduce a holistic open source web-scale multimedia search framework for multimedia data stemming from the physical world

BURBA Project

It proposes an innovative method of optimization of the waste management through the application of RFID and LBS technologies integrated into an intelligent waste container (IWAC) of 600/1200 liters of capacity for its use in densely populated areas.

CLOUT Project

ClouT will provide infrastructures, services, tools and applications that will be reused by different city stakeholders such as municipalities, citizens, service developers and application integrators, in order to create, deploy and manage user-centric applications taking benefit of the latest advances in internet of things and cloud domains

LEXNET Project

The LEXNET supports the development of future network infrastructures that allow the convergence and interoperability of heterogeneous mobile, wired and wireless broadband network technologies as enablers of the future Internet.

RADICALProject

It will ease the fast creation of interoperable and socially-aware services, by leveraging Internet of Things and Social Networking technologies, emerging from the results of four R&D EU-funded projects: SmartSantander, BonFIRE, SocIoS, and +Spaces

SOCIOTAL Project

It aims to design and provide key enablers for a reliable, secure and trusted IoT environment that will enable creation of a socially aware citizen-centric Internet of Things by encouraging people to contribute their IoT devices and information flows

MOBIWALLET Project

MobiWallet project aims to make use of Smart mobility partnerships and demonstration projects (pilots) for sustainable urban transport solutions based on interoperable fare management, demonstrating the benefits of a unified platform that can cope with the payment schemes of a varied range of transport operators

CLPS Project

The main idea of CLIPS is to provide to the community a methodology and a toolkit which allow civil servants and other external stakeholders (both citizens and businesses) to co-operate in the conceiving and the development of new cloud-based services, starting from a set of basic micro-services already available in the "cloud"

Funding: More than 47M€





SANTANDER

Building Effective

PUBLIC PRIVATE PARTNERSHIPS



City Council



Public Administrations iniciatives for the Industry

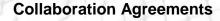




INNOVATION CLUSTER **CREATION**









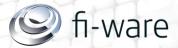












FI-WARE is developing a core platform that eases the creation of innovative applications by lowering the costs and complexity of serving large numbers of users globally and handling data at a large scale.

EXAMPLE

Centro de Investigación Ciudades Inteligentes













SANTANDER

- Santander Smart City
- Santander Open Innovation
- **3** Public Administration Modernization





RECI

Spanish Network of Smart Cities

http://www.redciudadesinteligentes.es/



Main goal

To promote the economic growth, social development and new business models within the cities through the innovation.

Objectives

Sharing experiences.

To strengthen mutual cooperation.

Identify synergies and developing new smart innovation strategies.

To implement and develop new policies based on technological development.

49 CITY MEMBERS





