Smart Governance in Cities
Drivers and Framework for Smart Cities Governance

Smart Cities and Territories Plans: promoting Smart Cities nationwide

Valencia, 2nd October, 2019

Smart Cities & Territories Plans

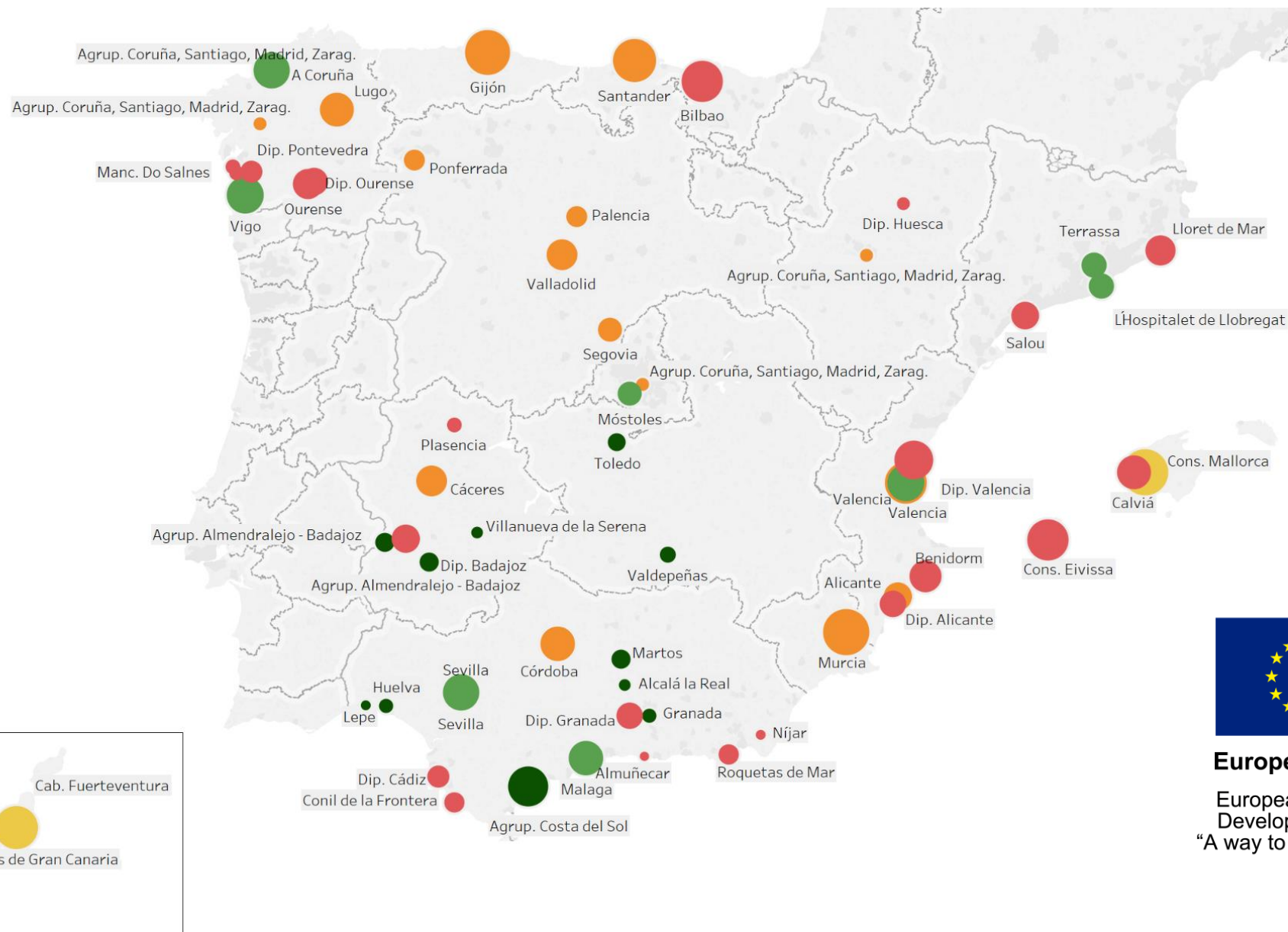| 200 million € investment	# projects	Budget
Smart Cities & Islands	**28 projects**	**95,8 M€**
Smart Territories	**25 projects**	**73,97 M€**
Smart Buildings	**8 projects**	**32,06 M€**

Objectives

- To provide better and more efficient public services to citizens and tourists.
- To improve the sustainability of our cities.
- To strenghten Spanish industry.
- **To develop a set of standards and models in order to achieve replicability and scalability.**

Sixty one projects ongoing nationwide

Convocatoria
- DTI
- Edificios
- 1ª
- 2ª
- Islas

Agrup. Coruña, Santiago, Madrid, Zarag.
A Coruña
Lugo
Gijón
Santander
Bilbao
Agrup. Coruña, Santiago, Madrid, Zarag.
Dip. Pontevedra
Ponferrada
Manc. Do Salnes
Dip. Ourense
Ourense
Palencia
Dip. Huesca
Terrassa
Lloret de Mar
Vigo
Valladolid
Agrup. Coruña, Santiago, Madrid, Zarag.
LÍHospitalet de Llobregat
Salou
Segovia
Agrup. Coruña, Santiago, Madrid, Zarag.
Plasencia
Móstoles
Toledo
Cáceres
Dip. Valencia
Cons. Mallorca
Valencia
Calviá
Villanueva de la Serena
Valencia
Agrup. Almendralejo - Badajoz
Dip. Badajoz
Valdepeñas
Benidorm
Agrup. Almendralejo - Badajoz
Alicante
Cons. Eivissa
Dip. Alicante
Martos
Sevilla
Córdoba
Murcia
Huelva
Alcalá la Real
Lepe
Sevilla
Dip. Granada
Granada
Níjar
Dip. Cádiz
Almuñecar
Roquetas de Mar
Conil de la Frontera
Malaga
Agrup. Costa del Sol

Cab. Fuerteventura
Puerto de la Cruz
Adeje
Arona
Las Palmas de Gran Canaria
San Bartolomé de Tirajana
Cab. El Hierro

European Union
European Regional Development Fund
"A way to build Europe"

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Smart Cities & Territories Components

Smart Environment

Energy efficiency:
- Public buildings.
- Street lighting.

Water Management:
- Park Watering.
- Supply network.
- Water depots.

Environment Management:
- Air quality.
- Noise.
- Weather sensors and stations.
- Volcanic monitor stations.

Waste Management:
- Efficient waste collection.
- Litter and trash sensorization.

Smart Mobility

Traffic Management:
- Control systems.
- Traffic lights management.
- Signs.
- Access to city center.
- Occupancy monitoring.

Means of transport management:
- Fleets management.
- Tickets payment.
- Routes planning.
- Bicycles hiring.
- Ecodriving.

Parking Management:
- Public parking.
- Signs.
- Taxi Ranks.

Connectivity:
- Public WiFi.
- Infrastructures improvement.

Smart Governance

City Management:
- Smart City Platform.
- City Scoreboard and analytics.
- Big Data.

Tools:
- CRM for citizens.
- Smart City Apps.
- Open Data portal.
- E-Government.

Smart Economy

Tourism:
- Apps & Portals.
- Smart Tourism Center.
- Screens and signs.
- Tourists flows monitoring.
- Beacons and QR codes.
- Tourism 3D applicatrions.

Entrepeneurship and innovation centers.

Smart People

- Citizen participation platform.
- Skills development

Smart Living

- City services Apps and Portals.

Citizen card:
- Smartphone citizen card.
- Unified transport card.
- Access to services.
- Payments.
- Gamification.

Urban planning:
- Urban infrastructure maintenance.
- City GIS.
- Spatial Data Infrastructure.
- Accesibility management.
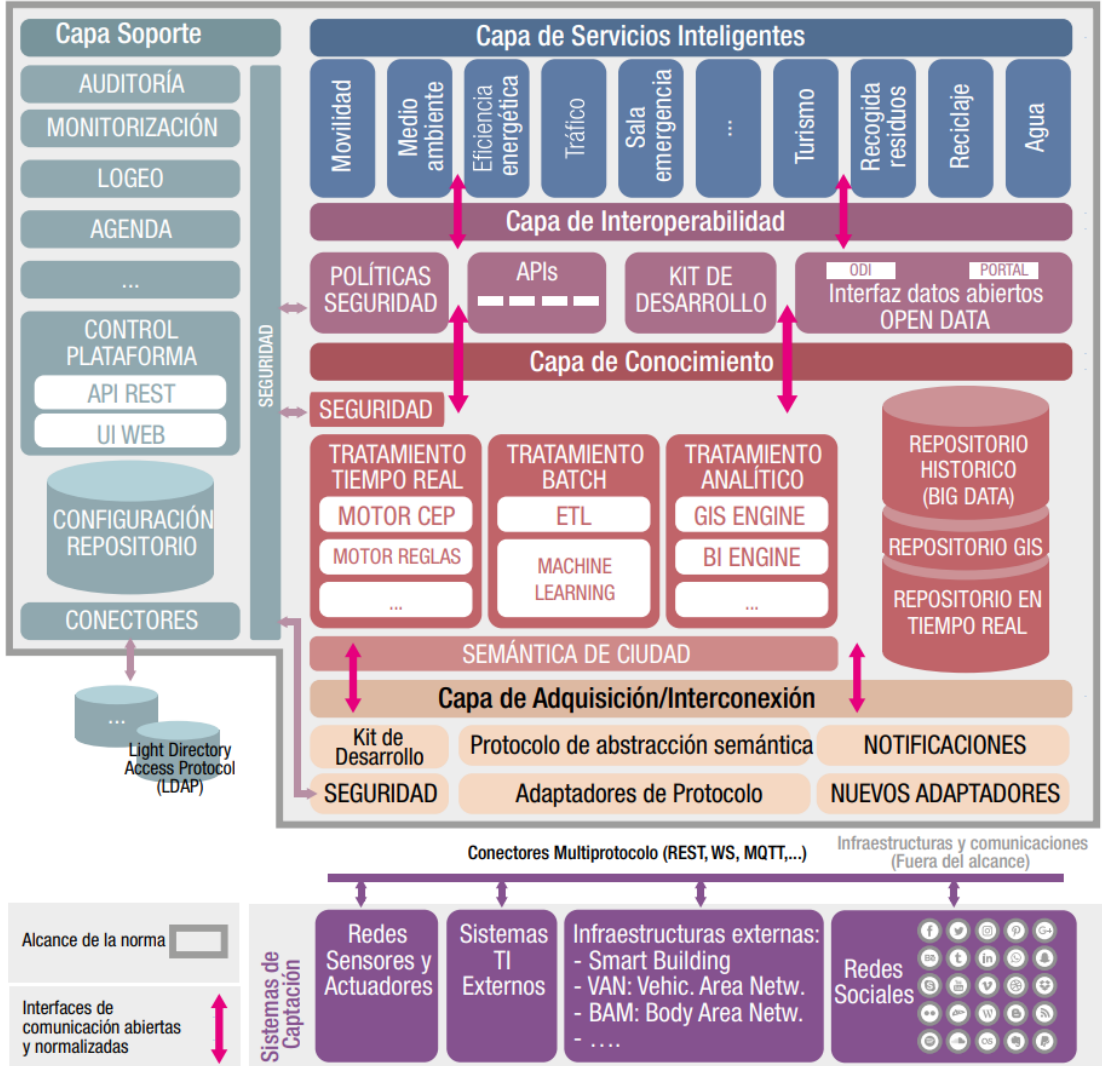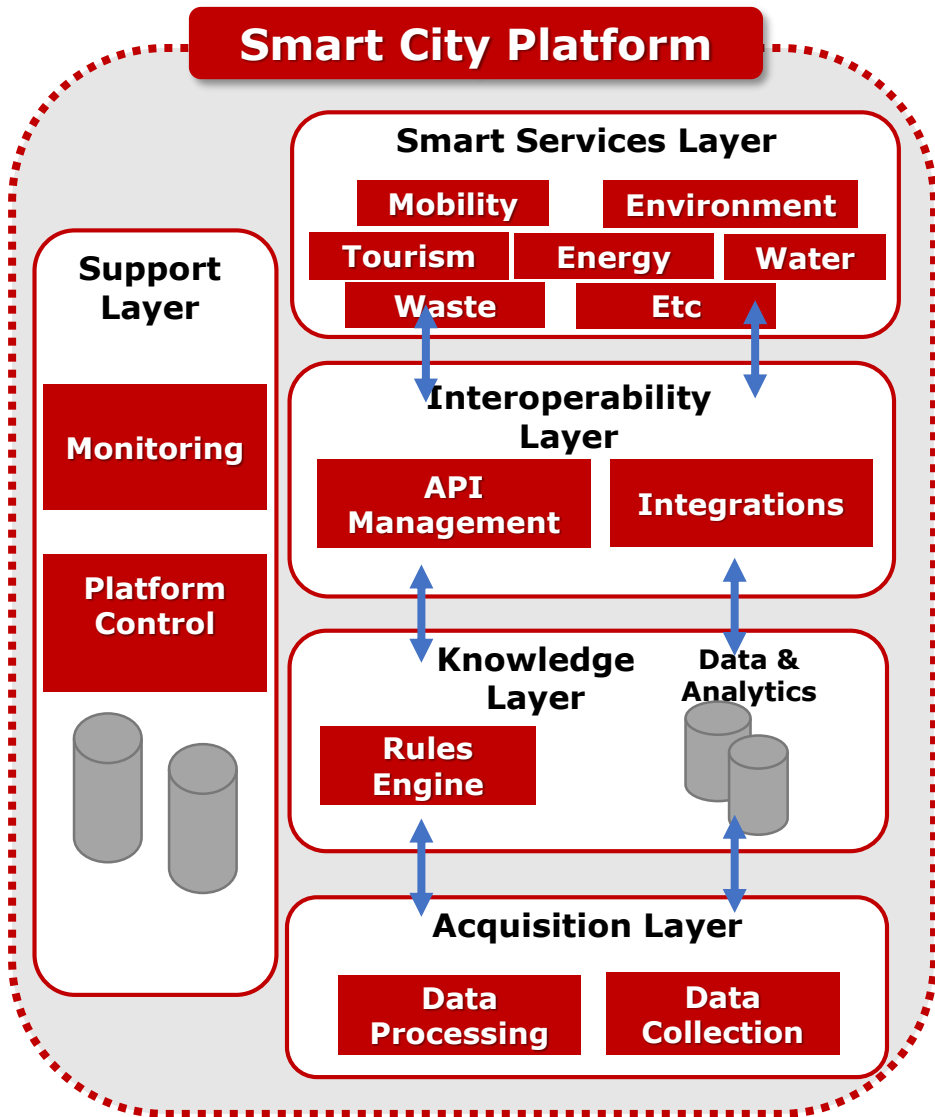- Smart Urban Planning.
- Heritage management.

Security and Emergencies:
- Videosurveillance.
- Presence control.
- Emergency management.

UNE Standards, a key factor to achieve economies of scale and to ensure that investments are future-proof

The Spanish **CTN 178**, technical standardization committee in which municipalities, industry and experts play an active role, foresaw back in 2012 the importance of interoperability of the city platform, and produced the **UNE 178104 standard**, which allows the implementation of the Smart City model, avoiding silos and gathering all relevant data from different sources in order to make better and more informed decisions.

Basis for the international standardization work at the **ITU-T SG 20** on "Internet of Things and smart cities and communities". Outcomes: Recommendations **ITU-T Y.4200** & **ITU-T Y.4201**

Smart City Platform – UNE 178104 compliant. ITU-T Y.4201

ITU-T Y.4201 (02/2018)   UNE 178104:2017

Red.es Projects of Smart Cities, Islands, Territories and Smart Buildings

- Call and selection of projects.
- Financing.
- Technical Specification.
- Procurement.
- Management and coordination of projects.
- Impact assessment.
- Diffusion.
- Reuse of solutions.
- Promotion of standardization.

Thank you!