

Smart Cities in Spain

2016



GOBIERNO
DE ESPAÑA

MINISTERIO
DE INDUSTRIA, ENERGÍA
Y TURISMO

SECRETARÍA DE ESTADO
DE TELECOMUNICACIONES
Y PARA LA SOCIEDAD DE
LA INFORMACIÓN

Introduction



Smart cities allow the use of technology to provide better public services, to more citizens and at lower costs.

More informed services ► more equity

Improve quality of life of the citizens

Enhance a new industrial sector (international)



Spain has a RELEVANT position in:

- 1) Standardization:** CTN 178 AENOR
- 2) Governance** model for all stakeholders
- 3) Open call** for local administrations
- 4) Industry:** leading + emerging



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Government Framework



Government support of Smart Cities

- > 2400M€ to promote digital economy and Society (Digital Agenda for Spain)
- Objective 5. Encourage R&D+i in ICT for strengthening Smart Cities in Spain



State Plans

- Telecommunications and Ultra-fast Networks Plan
- Agenda for strengthening the industrial sector in Spain (Industry 4.0, IoT)
- Natural Language Processing



Aid Plan to the ICT and Digital Content sector:

2015. Called: 50M€ subsidies, 150M€ loans

2014. Awarded: 29M€ subsidies, 153M€ loans, 295 projects



Strong International Presence

Europe Six Nations Forum, ITU



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Innovative, unique and EXPORTABLE model

The National Plan for Smart Cities (2015-2016) endorsed by all stakeholders has 188M€

It has an Advisory Council with ABSOLUTE CONSENSUS and MAXIMUM institutional support chaired by the Minister



RECI : 65 cities share this model, key to economic and technological growth of the city and improving the quality of life of citizens

ENTERPRISE ECOSYSTEM

Success stories: Municipalities with Innovation startups and Spanish companies.

5 Working groups led by Municipalities: SOCIAL INNOVATION, ENERGY, URBAN MOBILITY, GOVERNMENT, ENVIRONMENT, INFRASTRUCTURE AND URBAN HABITABILITY

SPAIN IS AN INNOVATION HUB FOR COOL VENDORS (GARTNER 2014)

Unique Governance Model

Proposed by the National Plan for Smart Cities, is a pioneer in incorporating different key players and coordinated by an **ADVISORY COUNCIL**

PUBLIC SECTOR
involving all levels of **GOVERNMENT**
RECI



smartcity
red española de ciudades inteligentes

Other organizations (AENOR)

Standardization is KEY to markets solutions

STAKEHOLDERS

EDUCATION and UNIVERSITIES



Ciudades Inteligentes
Agenda Digital para España

Private sector: COMPANIES and ENTERPRISES, including SMEs

promoting the exchange of information and best practices, seeking the commitment of the parties



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Key measures



**Aid program
for smart city
projects &
smart tourist
destinations**

78 M€



**Loans, public
private
collaboration
& innovative
public
acquisition**



**Studies, white
paper and
advisory
council to
promote smart
city
governance**

**Innovation,
R&D support
and industry
promotion**

**Promotion of
standards and
interoperability
trials**



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Standardization Strategy

- Framework for Standardization on Smart Cities in Spain
- Technical Committee CTN 178 on Smart Cities
- Role in European and International Standardization on smart and sustainable cities & communities

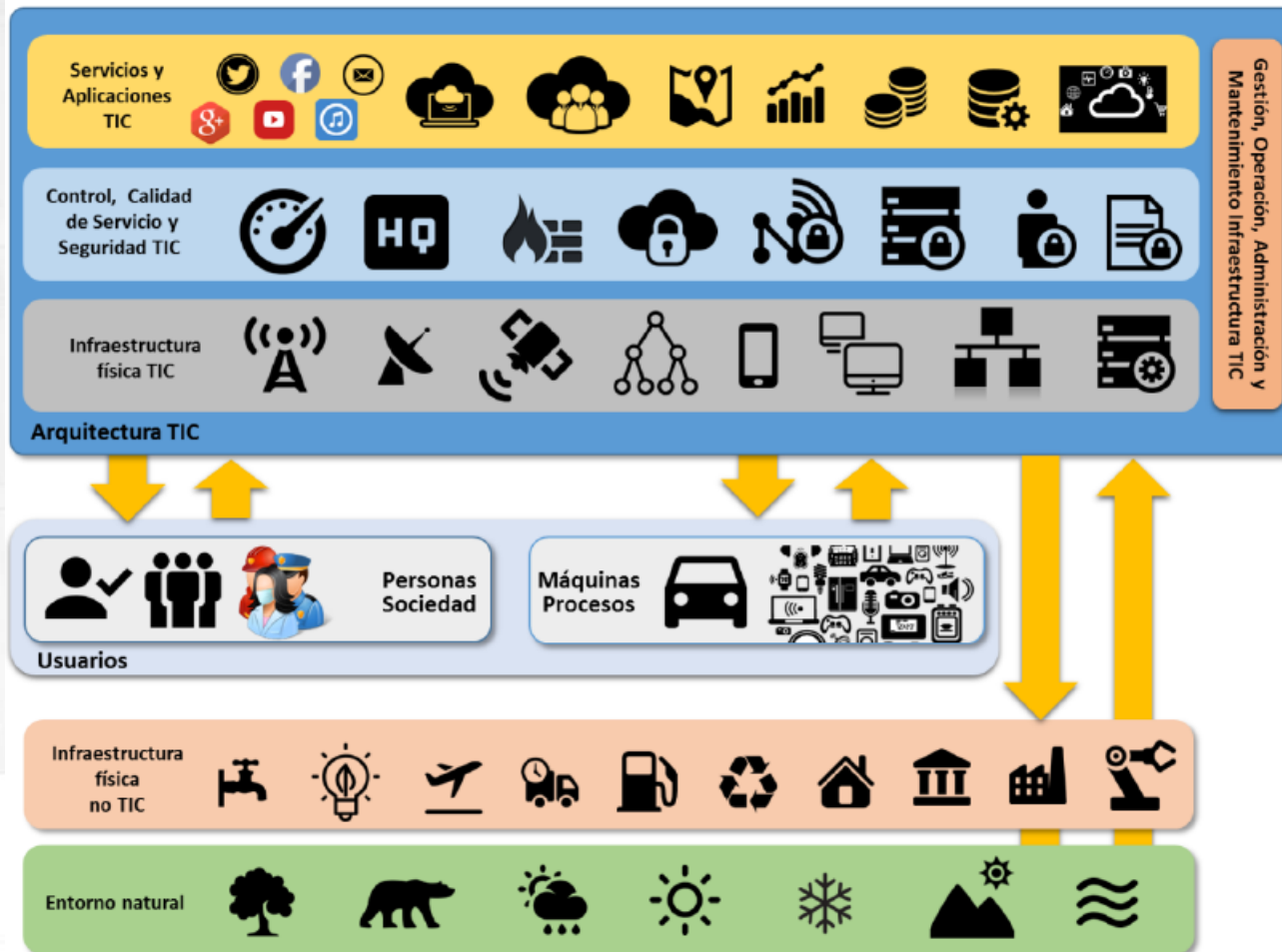


Spanish contribution to the development of **ITU Standards** on Smart Cities:

- **Interoperability**
- **Open Data**
- **Rural territories**
- **Smart destinations (tourism)**

Over 700 experts
from Industry (big, SMEs), Services providers, Academia, Public Administrations
(local, regional & national level), clusters, professionals, etc.

CTN 178 on Smart cities - Concepts



UNE 178201 – Figure 4. ICT Architecture of a Smart City

Thanks for your attention



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