



INTERNATIONAL
TRADE
ADMINISTRATION

Smart Cities, Regions & Communities

EXPORT OPPORTUNITIES

Volume I, Summer 2016



Portugal Smart Cities Guide

SMART CITY OVERVIEW

Portugal is well positioned in respect to Smart Cities. Portuguese cities currently face various challenges related with overpopulation. Universities, companies and other groups are working closely with municipalities to find scalable solutions for different fields such as energy, mobility, environment, health governance and quality of life. This means the public and private sectors are now sharing information in order to jointly identify solutions to solve a wide range of issues affecting the community. In 2009, a network of Portuguese smart cities by the name of Rener was launched. Today, it includes more than 43 municipalities from all over the country. The Portuguese Smart City Cluster is actively promoting Portugal as a place for the development and production of technology solutions, products and value-added systems for smart cities at global level, as well as promoting the competitiveness, innovation capacity and internationalization of smart city companies.

KEY INITIATIVES (BY SECTOR)

SMART MOBILITY

The MOBLE network has more than 1300 normal charging stations and 50 fast charging stations in places of public access throughout Portugal.

Portugal has a number of smart parking solutions designed to provide better cities for living and conveniently and efficiently manage parking payments.

SMART ENERGY

The Portuguese city of Évora, with a population of 55 thousand and an area of 1.307 square kilometers, was the first Iberian Smart City – Évora InovCity – where an automated meter infrastructure was deployed. There are around 32,000 electricity

customers with an annual consumption of approximately 273GWh. Around 35,000 smart meters and 340 distribution transformer controller (DTC's) were recently installed.

SMART SERVICES

- Implementation of video surveillance in public spaces
- Fire prevention sensors and control systems
- Flood control predictive systems and sensors
- Digital access to urban planning documents
- Wi-Fi hotspots in public places
- High-quality of the tourist destined gateways and apps

SMART GOVERNANCE

- Online access to municipality's expense
- Open Data policy and number of data sets available
- Level of integration of the administrative process and data sharing in back-office
- Digital urban planning
- Existence of online participatory budgeting
- Availableness and quality of relating with citizens gateways
- Level of online contact with the municipal administration
- Online certificate requests

LISBON, Portugal

Population Growth, 2013-2014:

0.0%

Total Employment, 2014 (Thousands):

1,449 People

Real GDP Growth 2013-2014:

-1.2%

Employment Growth, 2010-2014:

-1.4%

Brookings Metro

CHALLENGES

In order to successfully enhance the adoption of innovations and deploy smart city solutions in Portugal or elsewhere, market barriers such as lack of integrated and coherent public policies, poor urban planning and city management, resistance to change and innovation, lack of demonstration smart city projects, standards and interoperability issues, and lack of funding sources must be addressed.

FEATURED CITIES AND/OR PROJECTS

Évora:

Population: 43.000;
Contact: Mayor Carlos Pinto de Sá

Évora is one of the first Smart Cities with about 31,000 residential customers taking advantage of billing system based on actual consumption (in relation to overall consumers) and also enabling consumer control via a computer or smartphone.

Lisbon:

Population: 2.8 million;
Contact: Mayor Fernando Medina

The integrated Lisbon transport system comprises a large amount of transport combination tickets, and several paying options, including web, applications, and ATM. The public transport system has a series of modern public information systems and Lisbon has one of the world's strongest route calculators, Transporlis to integrate all operators.

BIG Smart Cities by Vodafone Power Lab is co-organized with the City of Lisbon. A program with an international competition to accelerate startups where the startups get to pitch investors and earn fantastic prizes to launch and scale their businesses. The city and its sponsor, Vodafone look for technologies that use the Vodafone New Generation Networks to solve challenges in 4 different categories: smart mobility, energy, tourism, living.

Porto:

Population: 1.7 million;
Contact: Mayor Rui Moreira

Board any bus in Portugal's second-largest city, and free Wi-Fi is available courtesy of a network of routers affixed to more than 600 municipal vehicles. It's the biggest Wi-Fi-in-motion network in the world.

Desafios Porto is a competition created by the City of Porto in partnership with NOS, EDP, CEIIA and EY, that aims to identify the biggest challenges faced by the city of Porto and to find the tech solutions that give the most innovative and scalable answers. The Future Cities Project is an FP7 funded project intended to expand the Center of Competence for Future Cities of the University of Porto (Future Cities UP).

Other

FI-WARE accelerator is a project funded by the European Commission aims to grow innovative web-based solutions for smarter urban life of Europe's citizens.

UPCOMING EVENTS CALENDAR

- May 18-19, 2016: Zoom Smart Cities – <http://www.zoomsmartcities.com/en/>
- March, 2017: Green Business Week - <http://greenbusinessweek.fil.pt>

KEY ORGANIZATIONS

- Inteli - <http://www.inteli.pt>
- InovCity - <http://www.inovcity.com/en>
- APDC – Portuguese Association for the Development of Communications; <http://www.apdc.pt>

RESOURCES

Commercial Service: Pedro Ferreira – pedro.ferreira@trade.gov