Chapter 14

Smart Cities in Spain –
Policy, Sustainability, and
the National Plan:
New Political Measures, Agents,
and Sustainability

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ABSTRACT

According to the United Nations Conference on Sustainable Development in Rio de Janeiro in 2012, half of humanity lives in cities. The urban population has increased from 750 million people in 1950 to 3,600 million in 2011. It is estimated that by 2030 almost 60% of the population world will reside in urban areas. In Spain already does more than 80%. This will lead to significant growth in the coming years, and cities must be prepared to serve new services on a sustainable way: from meeting the needs of potable water or clean air transport will be a challenge of extraordinary magnitude and an opportunity for the industry. The Spanish National Plan for Smart Cities is a continuation of different initiatives proposing to do a set of new political measures that involve the mobilization of resources that will put special emphasis on sustainability.

Cities are engines of human and economic development. At the same time, most greenhouse gas emissions are produced in cities. Building solutions with the evolving needs and nature of citizens will create an adaptable foundation on which to shape the future of cities. Smart cities acting as catalysts of the foreseen energy, environmental and social revolution are expected to play a key role in order to achieve the new European objectives by 2020. – European Innovation Partnership on Smart Cities and Communities.

DOI: 10.4018/978-1-5225-0094-0.ch014
INTRODUCTION

According to the European 2020 Strategy Document (European Commision, 2010b), Europe is suffering a period of structural transformation in the socio-economic framework. The priorities to favor the new model that Europe needs are:

1. **Smart Growth**: Defined as the necessity of developing an economy based on knowledge and innovation;
2. **Sustainable Growth**: Achieved after to have promoted an economy that makes more efficient use of resources, is greener and more competitive;
3. **Inclusive Growth**: That is achieved when the economy reaches high employment levels while delivering social and territorial cohesion.

To this end, and in the same document, the European Commission proposes the following objectives:

1. 75% of the population between 20 and 64 years should be employed;
2. 3% of European Union’s Gross Domestic Product (hereinafter, GDP) should be invested in R & D;
3. The 20/20/20 Objective (20% reduction of greenhouse gases until 20%, 20% reduction of energy consumption, and 20% increase of using renewable energy) should be achieved in terms of climate and energy;
4. The percentage of early school leavers should be under 10%, and at least 40% of the younger generation should have a tertiary degree; and
5. The risk of poverty should threaten no more than 20 million fewer people.

To achieve these objectives seven flagship initiatives are proposed: innovation, youth employment, access to internet, efficient use of resources, business competitiveness, qualification of labor and social, and territorial cohesion.

To address the main challenges in implementing the Europe 2020 Strategy, member countries have a vital instrument: the Structural Funds and the European Investment (FEIE) for period 2014-2020. Both Structural Funds and the Cohesion Fund are the financial instruments of European Union (EU) regional policy, which is intended to narrow the development disparities among regions and Member States. The Funds participate fully, therefore, in pursuing the goal of economic, social and territorial cohesion. In Spain, the Partnership Agreement to join the Europe 2020 strategy to be applied to the Foreign Earned Income Exclusion (hereinafter, FEIE), recognizes the central role that cities play as the engine of the economy, as they are places of connectivity, creativity and innovation, as well as service centers. Therefore, urban development becomes a priority area within the cohesion policy of the EU.

Given the importance of Smart Cities, it is mandatory to define and standarize indicators to measure the evolution of our cities to the challenge of achieving higher competitive rates while being sustainable cities.