

## Chapter 9

# Smart City Governance: From E-Government to Smart Governance

**Maria do Rosário Matos Bernardo**

*Universidade Aberta, Portugal & CAPP-ISCSP Universidade de Lisboa, Portugal*

### ABSTRACT

*Smart governance is one of the characteristics of smart cities, having its roots in e-government, in the principles of good governance, and in the assumptions of citizens' participation and involvement in public decision-making. This chapter aims to answer the question: "What smart governance practices are being implemented in smart cities" through an extensive literature review in the areas of e-government, good governance, smart cities and smart governance, and content analysis of the websites of seven smart cities: Amsterdam, Barcelona, Copenhagen, Lisbon, Manchester, Singapore, and Stockholm. The objective was to identify the presence of factors related with e-participation; e-services; and public administration functioning on the cities' websites. The chapter ends with directions for future research and the conclusion that all the smart cities analyzed presented some factors related with smart governance, but with different levels of development and application.*

### INTRODUCTION

The smart city concept was recently introduced in the political arena and in academic research in order to highlight the relevance and importance of information and communication technologies (ICT) in the development, growth, productivity and competitiveness of modern cities (Caragliu, Del Bo & Nijkamp 2011). This is often associated with the idea of a digital city, with high use of technologies, particularly in terms of:

- Security,
- Communication infrastructure,
- Transport,
- Health,
- Education, and
- Governance (Cebreiros & Gulin, 2014; Giffinger et al., 2007; Jucevicius, Patasiené & Patasius, 2014).

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## **Smart City Governance**

However, the concept of a smart city goes beyond the technology and is also related with other determinants of sustainability and urban growth, namely:

- Human capital,
- Education,
- Social and relational capital,
- Sustainability and environmental issues (Caragliu et al., 2011; Cohen, 2012; Walravens, 2015).

Considering governance as one of the relevant aspect of smart cities (Cohen, 2012; Giffinger et al., 2007), due to the importance of city administration and management, and collaboration between the various stakeholders to achieve the desired levels of development, growth, sustainability and quality of life, the main objective of the present study is to analyze how smart cities are implementing smart governance.

Adopting the view of smart governance as emerging from the evolution of e-government, in a context of modernization, continuous growth and integration of ICT in public administration and from citizens' involvement in public decisions, this study raises one research question:

- What smart governance practices are being implemented in smart cities?

The answer to the research question was achieved through accomplishing the research objectives:

- To consolidate the concepts relevant to the study, based on a literature review of the topics of: smart cities, governance, e-governance and good governance.
- To analyze, based on the literature, the evolution of ICT in public administration and the different development stages of e-government.
- To identify the role of ICT in local government and the concept of smart governance.
- To establish a set of categories to be included in a framework to analyze smart governance in smart cities.
- To identify and select smart cities to be included in the case study.
- To apply the framework proposed for identification of the smart governance practices adopted in the selected smart cities.

This chapter is organized into six sections including this introduction to the research question and main objectives. In the second section, "Background", the concepts relevant to this study are presented and discussed, and the third section, "Methodology", deals with the methodology adopted to achieve the research objectives, the proposed framework of analysis, and the strategies applied to select the seven smart cities:

- Amsterdam;
- Barcelona;
- Copenhagen;
- Lisbon;
- Manchester;
- Singapore; and
- Stockholm.

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