

# Chapter 9

## Smart Cities That Use Technological Solutions Efficiently

**Juan Carlos Huerta Mendoza**

 <https://orcid.org/0009-0005-4713-5759>

*Autonomous University of Tamaulipas, Mexico*

**Sanjuanita C. Ortiz Valadez**

*Autonomous University of Tamaulipas, Mexico*

**David Tomas Vargas Requena**

 <https://orcid.org/0000-0003-4426-5214>

*Autonomous University of Tamaulipas, Mexico*

### **ABSTRACT**

*Technology continues to evolve day by day at an astonishing pace, and artificial intelligence has had a significant impact on the lives of humanity and different sectors of society. AI has undoubtedly made it possible to improve people's performance. Simply having a smart mobile phone saves many daily tasks. In the labor sector, there has also been significant progress, causing workers to be more productive and improve their quality of work, and thus different areas such as sports, government, and schools have benefited in one way or another by implementing AI in their processes. Different cities have also implemented artificial intelligence and*

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*different digital technologies for the benefit of their community, whether to improve reliable infrastructure, update government services, improve public safety, or boost the economy. Particularities like these make for the formation of a smart city. For a smart city to remain in operation, technological solutions are necessary that can be connected to provide service to the community.*

## **INTRODUCTION**

It has been seen previously that, throughout history, power has resided in countries. However, with globalization, that power has descended to lower levels, such as cities. Although the problems are global, the solutions are local, hence the importance that these territories have acquired worldwide. The United Nations (UN) states that by 2050, the global urban population will grow by up to 70%, meaning that almost 2.5 billion people will live in cities. In this way, cities turn out to be important and key pieces in the economy, since they are the engine of growth, which according to the UN, contribute 80% to the global GDP, but on the other hand they consume 75% of global primary energy and are responsible for 70% of greenhouse gas emissions (ONU, 2015).

The advantages of large cities are indisputable: population diversity, strong economic activity and great employment opportunities, complex infrastructure and public services, culture and entertainment, etc. However, rapid and unplanned growth contributes to increased pollution, congestion and poverty. That is why urban growth trends impose the need for strategic and innovative approaches to city design, planning, management and governance. Globalization today has led to transformations and advances in all kinds of areas, where there is talk of designing sustainable and smart cities, those where natural resources must be cared for and used efficiently, and where technology plays a fundamental role in their development. This is to achieve stability, guarantee future resources and support business functions, logistics, city networks, transportation, basic services, environmental management systems, government operations, the financial sector and interaction between people (ONU, 2015).

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