

Building Efficient Smart Cities

Juan M. Corchado

University of Salamanca

IoT Digital Innovation Hub (Spain)

corchado@usal.es

Current technological developments offer promising solutions to the challenges faced by cities such as crowding, pollution, housing, the search for greater comfort, better healthcare, optimized mobility and other urban services that must be adapted to the fast-paced life of the citizens. Cities that deploy technology to optimize their processes and infrastructure fit under the concept of a smart city. An increasing number of cities strive towards becoming smart and some are even already being recognized as such, including Singapore, London and Barcelona.

Our society has an ever-greater reliance on technology for its sustenance. This will continue into the future, as technology is rapidly penetrating all facets of human life, from daily activities to the workplace and industries. A myriad of data is generated from all these digitized processes, which can be used to further enhance all smart services, increasing their adaptability, precision and efficiency. However, dealing with large amounts of data coming from different types of sources is a complex process; this impedes many cities from taking full advantage of data, or even worse, a lack of control over the data sources may lead to serious security issues, leaving cities vulnerable to cybercrime. Given that smart city infrastructure is largely digitized, a cyberattack would have fatal consequences on the city's operation, leading to economic loss, citizen distrust and shut down of essential city services and networks. This is a threat to the efficiency smart cities strive for.

Building an efficient smart city must therefore start with using a robust and secure data management system which is going to enable governments to rapidly extract valuable information and use it to enhance the technology deployed in a smart city. The Deep Intelligence platform or Deepint.net for short, has been designed precisely for this purpose. The efficiency of this tool greatly contributes to creating efficient smart city management.

Smart cities implement technology in all areas of city life. For example, within mobility, there may be areas such as Transportation Control, Logistics Planning, Traffic Control, Crowd Management. To achieve efficiency in all these areas, it is necessary that they be dedicated equal amount of attention. However, given their vastness, certain issues may be easy to overlook if proper management is not established. Deepint.net addresses this problem through its modular design, enabling the city's government to divide all city services into separate modules on the platform. This facilitates the analysis of data and the attainment of a clear picture of the state of each service, identifying the possible improvements to be made or problems to be solved. Nevertheless, it is also possible to analyse the relationships between the different city services, as the tool's centralized Management Platform makes it possible for the modules to exchange data.

In addition, the modular design makes Deepint.net scalable, which is essential for efficient smart city management, given that cities are dynamic and rapidly developing environments. As new city services are created it must be possible to easily include them in the city's management system. Deepint.net makes it possible to eliminate, modify or add new modules, without having to disintegrate the entire smart city management structure. The swiftness of this process means that smart city management and development become easier.

Furthermore, some cities may already be using some sort of Smart City or Internet of Things platform for data governance. If they wish to enhance their management capabilities with Deepint.net, they may do so without having to take down their other infrastructure. Instead, they may integrate Deepint.net with their current platform, as Deepint.net has a large part of the connectors needed for this purpose.

Deepint has been designed for use by smart city governments. It incorporates a wizard which assists the platform user in processes such as data ingestion, management, creation of AI models (random forest, neural networks, etc.), analysis, visualization and exportation, so much so that it can even be operated by users who have no experience in data analysis, machine learning or artificial intelligence. This entails considerable savings both time- and money-wise.

Thus, ease of use, ease of integration with other platforms, modularity and scalability all contribute to efficient smart city management.

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