



## IO2 - Training Program

The course is estimated in **25 hours of learning time**. The learning will take place in a hybrid format with 10 hours of live sessions and 15 hours will be self-guided. Every Module is estimated in 3 hours each self-guided including micro-learning sessions (5 to 10 minutes) together with performing tasks such as interactive exercises and questionnaires. The live sessions will be based on more practical activities using methodologies such as problem-solving, creative thinking, and design thinking based on real problems.

### **MODULE 1: Introduction - Smart Cities**

The idea of the Smart City has occupied the public bodies in recent years, which, seeing the transition of more and more people to urban centers is increasing. Nowadays governments are looking for smart ways to make cities more functional, to improve the quality of life, always with respect for the environment.

Smart city means a city with proper organization, which, taking advantage of the evolution of technology, develops the internal structures such as the economy, governance, quality of life of the people through the smart solutions it provides as well as the protection of the environment, emphasizing that without it, societies would not exist in the future. The basic idea of a smart city is based, as mentioned above, on the use of technology. Cities around the world rely on technological advances, based on which they adapt their ideas to the needs of the city and its citizens, such as the development of the economy, the facilitation of public transport or the protection of the environment.

In order to cities to succeed in their goal, that is, to create a smart city, they must first educate its citizens. This guide aims to educate citizens to learn to live and maintain a smart city. The sectors that will be developed below will contribute to the change of cities and the expansion of the whole society.

### **MODULE 2: Smart Governance**

Utilization of technology in public services for the better service of the citizens. The use of smart governance can help to facilitate the bureaucratic affairs of the citizens. By creating a technology system, citizens can arrange their appointments online, to avoid congestion in the public services and the irritation that arises from it. As a result, we have well-structured services and ensure the smooth completion of citizens' affairs.



### **MODULE 3: Smart Environment**

To protect the environment, cities must take advantage of technology by using smart devices and special sensors. In many countries that have adopted the idea of the smart city and specifically the smart environment, they use special devices and sensors that inform the citizens levels of pollutants and allow the authorities to control and react against the problem at the origin. In this way they educate the citizens on the preservation and protection of the environment.

### **MODULE 4: Smart Transport**

Smart transport has many areas, initially the first thing one notices in a smart city is smart traffic. Creating a smart application that informs citizens about available parking spaces near location of stations of bicycles for hire, maps of bike lanes and parking for them in the downtown. This will result in a health improvement for citizens as well as reducing environmental pollution. To achieve the above, great importance must be given to the creation of proper structures for bike lanes, which will protect both the cyclist and the driver.

### **MODULE 5: Smart life**

Smart life is the result of all the above, if a city uses technology properly, educates its citizens, teaches them to use smart technology and its devices, it will achieve its goal and consequently create smart cities.

## **TRAINING PROGRAM SUMMARY**

<b>Module</b>	<b>Title</b>	<b>Description</b>
1.	Introduction	<ul style="list-style-type: none"><li>▪ The basic idea of a smart city is based, as mentioned above, on the use of technology</li></ul>
2.	Smart Governance	<ul style="list-style-type: none"><li>▪ Utilization of technology in public services for the better service of the citizens.</li></ul>
3.	Smart Environment	<ul style="list-style-type: none"><li>▪ Utilization of technology, smart devices, special sensors, for city and village environmental control</li></ul>
4.	Smart Transport	<ul style="list-style-type: none"><li>▪ Infrastructure for smart transport in cities and villages and organization for bike lane</li></ul>
5.	Smart Life	<ul style="list-style-type: none"><li>▪ Utilization of modern technology</li><li>▪ Smart devices</li></ul>