SMART SUSTAINABLE CITIES AND CIRCULAR ECONOMY KNOWLEDGE CREATION

Potentials of smart cities for circular economy and sustainable development

Cities around the world are finding ways to promote and sustain a circular and sustainable living. Circular economy principles focus on eliminating waste, circulating products & materials, and regenerating nature. Circular economy models have become fundamental principles to smart cities development and sustainable life. Early smart cities planning stages require data and understanding of its current waste, energy, and water flows. City planners can spread awareness, develop impactful policy planning and efficient decision-making for a smart sustainable city and circular economy.

Smart cities require effective strategy communication to citizens, private sectors, and public entities. At the core of the smart city, developments are people, private enterprises, and the public sectors who shape the outcome. Smart cities concept which involves innovation, technology, sustainability, and partnership can be startedfrom an office/small group and scale up to organizational level building pockets of micro circular economy and sustainable practice. Micro smart cities applications are the building blocks and supportive environment for sustainability. Successful smart cities deploy simple technological solutions in combination with innovation and strong partnership. With the right technology, smart cities can reduce their negative environmental impact and build a sustainable living.

While technology applications (IoTs, AI, Big Data, and other communication technologies) are key enabling factors, smart cities implementation strategies are key success factors allowing for sustainable practice. Innovative ideas from smart cities development improve networks, social services, and environment and cities sustainable living. Enabling the environment from policy development, financial investment, technology implementation is necessary; circular economy business models and stakeholders' involvement are the foundational groundwork for a successful smart city. This course will cover the guiding principles for developing a smart city to enable the environment to replicate and scale good practices for smart city success and a sustainable lifestyle.

Project Objectives

This course aims to create an enabling environment (including policies, financing, technologies, business models, and stakeholder engagement) to replicate and scale up good smart cities practices on sustainable lifestyles. The course builds on Sustainable Smart Cities solutions that link Sustainable Development Goals (SDGs) and technological solutions.

Topics:

- Sustainable Cities plans begins with data, people, and partnerships

- Smart Cities aspects Environment, Energy, Economy, Governance, Living, Mobility and People

- Financial and Economic impact calculation

- Smart Cities Solutions – How do smart cities create opportunities to improve cities and the challenges faced?

- Smart Cities good practices and plans for replicating

Expected Results

Sample 1

Webinar Series:

Webinar Topic 1: Knowledge of waste, energy, and water flow in cities and people-centric planning shape smart city planning: How it promotes circular economy?

Webinar Topic 2: Smart cities policies that enable circular economy and sustainable lifestyle

Webinar Topic 3: Knowledge and attitude: Key correlations in sustainable smart city planning and implementation

Webinar Topic 4: 7 Smart cities themes that promote wide adoption (Smart Environment, Smart Energy, Smart Economy, Smart Governance, Smart Living, Smart Mobility, and Smart People)