7. Digitalisation in Municipalities

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Training Overview

**Digitalisation in Municipalities**

**Scenario:** Your mayor wants to be known for innovative solutions.

**Question:** What are the ways you can use digitalisation to further reduce urban energy use and improve urban services?
Training Overview

1. Activity 1: Digital solutions in different sectors of the city

2. Activity 2: Delivering digital solutions, barriers and solutions

3. Group presentation

10 mins
30 mins
15 mins
Activity 1: Digital solutions in different sectors of the city
Activity 1: Digital solutions in different sectors of the city

- Arrange yourself into three groups and list out digital solutions that can help lower energy use in the following sectors:
Activity 1: Digital solutions in different sectors of the city

• Some of the examples:

- **Transport**
  - Smart Mobility as a service

- **Water**
  - Leakage and energy management systems

- **Lighting**
  - Intelligent lighting systems

- **Urban Design**
  - Mapping and other data tools for planning

- **Buildings**
  - Smart building controls

- **Waste**
  - Smart bins
Activity 2: Delivering digital solutions, barriers and solutions
Activity 2: Map out what is needed for the following smart solutions

Select one solution, then break it apart and determine the barriers and solutions to each component

- Elaborate the issues that you might face in infrastructure, data, and service delivery (privacy, cost, ownership, legal authority?) then what are the solutions?
- Use the internet if necessary
- 5-minute presentation per group afterwards
Sample: Breaking apart the elements of a digital solution

**SERVICE**

**DATA**

**INFRA-STRUCTURE**

- Building temperature and humidity sensors
- Electricity meter
- Lighting systems
- Motion detectors

**Smart building controls**

**Servers**
Group Presentation
Key Resources

MOOC: Smart Cities – Management of Smart Urban Infrastructures

Learn about the principles of management of urban infrastructures in the era of Smart Cities. The introduction of Smart Urban technologies into legacy infrastructures has already resulted and will continue to result in numerous challenges and opportunities. This course will help you to make the best out of the introduction of these smart technologies in your cities’ legacy infrastructures.

https://www.coursera.org/learn.smart-cities