Spatial Data Science for Urban Planning

Instructors

**Shaily Gandhi
ITU Linz,
Austria**

**Neema Simon Sumari
Sokoine University of
Agriculture (SUA),
Tanzania**

**Felix Emeka Anyiam
University of Port
Harcourt, Nigeria**

Workshop Objectives

- Understand the role of data science in urban planning

- Gain familiarity with key urban challenges and data-driven approaches

- Learn ethical practices and data sharing standards (e.g., FAIR principles)

Modules Overview:

1. Fundamentals of Urban Systems & Data
2. Data Collection & Management
3. Analytical Methods
4. Visualization & Communication
5. Case Studies

Students Introduction

Name

Organization

Interest area

Country

Data you use in your work / Research

Language known

Why Urban Planning Needs Data Science

- Urban areas face complex, interlinked challenges: transportation, housing, pollution, energy, equity, health and so on …

- Data science provides tools to:
  - Reveal hidden patterns
  - Enable evidence-based policymaking
  - Monitor and evaluate interventions