AC208 - Advanced Community and Participatory GIS Course

Course Duration: 6 Days
Training Fee: KSH 48,000 | USD 480
Course Registration: **Register Here>>**

1.0. Introduction

Participatory mapping is one of the popular spatial data collection tools, to support equitable development of communities. Participatory GIS(PGIS) is basically the practice of gathering data through traditional methods such as interviews, questions, focus groups and by using paper maps to record spatial details. This information is then digitized so that it can be analyzed using GIS software, and the results are communicated using computer drawn maps. One of the achievements of participatory GIS is the development of user-friendly interfaces in order to increase accessibility of GIS, and as a consequence, GIS has been disseminated to a broader circle of users, thus democratizing the technology.

1.1. Course Overview

In this training participants will explore the applicability of public participation for mapping community and GIS analysis to enhance their DRM efforts.

1.2. Course Objectives

1) To understand participatory methods for community mapping
2) To use various GIS tools and methods to streamline various types of data and inputs for decision making including capturing, exploring, editing, analyzing and mapping spatial data

1.3. Course Content/Outline

1. Introduction to Participatory GIS; Putting spatial reference to community engagement
2. Why P-GIS – Applications & Considerations?
3. Participatory methods for Community Mapping
4. Applications and limitations of community maps
5. Community Mapping Process; Preparation; Training Data Collectors; Field Survey; Data Processing; Map Finalization; Support for using Maps
6. Use of Open Source and Proprietary Applications and Data for participatory mapping; Data collection tools – Collector for GIS, GeoODK, Survey123, EpiCollect; Mapping and Data Management – OpenStreetMaps, ArcGIS, GIS Cloud, QGIS
7. P-GIS Quality Assurance/ Quality Control Process

1.4. Case Study

Community/Participatory GIS mapping of Health Facilities in Kibera slums

1.5. Expected Outcomes

At the end of this learning module, learners should;

- Understand Participatory GIS, and its importance for equitable and sustainable development
- Be able to organize and carry out Participatory GIS assignments.
- Be able to use GeoODK and ArcGIS/QGIS to carry out Participatory GIS

1.6. Training Material (Hardware and Software)

- ArcGIS/QGIS
- GeoODK
- Kobo ToolBox
- A laptop/PC

1.7. Who should attend?

- NGOs and CBOs e.g. Red Cross, WFP, UNHABITAT
- Government bodies such as Ministry of Lands and Urban Planning
- GIS and Geospatial Students
- Urban Planners