



EXECUTIVE COURSE –MOBILE BASED DATA COLLECTION USING OPEN DATA KIT (ODK)

Contact Persons

Victor Kiwujja
Executive Director
+256773384364/+256704767858
victor@lidaafrica.org
victorkiwujja@gmail.com

Ronald Waiswa
Director, Research & Training
+256703096203
rwaiswa@lidaafrica.org
waiswaronald2012@gmail.com

COURSE INFORMATION

Course Name:	Mobile Based data collection Using Open Data Kit (ODK)
Total Course hours:	24 hours (In class=18, Exercises=6)
Language:	English
Training type:	Hands on training

INTRODUCTION

The growing International demand for transparent and quantifiable development results has led to pressure to measure intervention results and improve program responses. M&E are symbiotic processes that are used to measure results and thereby improve aid effectiveness. Monitoring and Evaluation is crucial in supporting programme and project implementation, contributing to organizational learning, upholding accountability, providing opportunities for stakeholder feedback to be captured and promoting evidence-based decision making.

Capturing data in the field usually means using paper. By using an Android smartphone or an Android tablet, field data can be collected with all the advantages that electronic data gathering brings (value input control, skipping irrelevant sections, elimination of transcribing errors from paper, etc.). Data is gathered in situ with the data records stored on the device. Once the surveyor is within range of a WiFi or mobile phone data connection, he/she can send the data to a central server.

Open Data Kit (ODK) is a set of open source applications which allow one to create a questionnaire form in the Xform format, fill it out on a mobile phone or tablet running the Android operating system, store and view the aggregated information on a central server, and retrieve the aggregated data to one's computer for analysis. Data capture includes GPS coordinates for real-time mapping of responses in Google Maps, or near-real time once the surveyor has an Internet connection to send the collected forms back to the server.

[Lida Africa](#), has therefore organized a training aimed at equipping participants with knowledge and skills for designing and implementing technologically enhanced M&E Data collection.

WHO SHOULD ATTEND?

This training is ideal for managers and researchers from development organizations, foundations, governments and non-governmental organizations, as well as M&E professionals and students. It's for people wanting to have a wide exposure to the use of technologies for enhanced project monitoring, evaluation and learning. **No Prior attendance of any M&E course is required.**

LEARNING OBJECTIVES

- To equip trainees with the understanding of concepts, tools and processes for designing mobile data collection forms.
- To equip participants with skills of ensuring quality assurance while using technology in M&E.
- To share knowledge, experiences & best practices in data management and project monitoring, evaluation and learning.

COURSE SESSIONS

Session 0: Introduction to the course

- Registration, Introduction , Expectations, General norms, Pre-test
- Workshop goals & Time table

Session 1: Fundamentals of Mobile Data collection

- Introduction to mobile phone data collection
- Rationale for Mobile vs Paper based data collection

Session 2: Designing & building Surveys using ODK

- Setting up aggregate server with Google App Engine
- Working with Excel dropdown list
- Basic Excel function to enable survey designs

Session 3: Uploading the form to aggregate & send to Android phone

- Uploading surveys
- Validating skip patterns and other formatting
- Setting server preference on android phone

Session 4: Data Collection Using ODK

- Installing and managing ODK App
- Enter primary field data
- Capturing GPS coordinates, take photos, record audio sounds and videos
- Saving data
- Submitting completed data to aggregate server

Session 5: Exporting data from ODK aggregate as CSV

- Types of File formats for exporting
- Maintaining Data quality
- Importing ODK - CSV file into statistical applications
- Exporting GPS data for Mapping/Visualizing (fusion map)

Session 6: Working with other Applications

- Basics of survey design using MWATER
- Basics of Using Survey CTO

Session 8: Workshop Closure

- Participant presentations, Final assessment
- Post-test & Final workshop evaluation