



Land Governance in an Interconnected World

ANNUAL WORLD BANK CONFERENCE ON LAND AND POVERTY
WASHINGTON DC, MARCH 19-23, 2018



Land and Poverty Conference 2018 Masterclass on

12-07 | Fit-for-Purpose Technology for Cadastral System

Friday, March 23, 2018 | 9:00 -10:30 am | MC 7-100, World Bank

INSTRUCTORS

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Overcome the challenges of collecting, managing and sharing cadastral data in challenging environments. Attend this class and learn how to leverage fit-for-purpose principles with LADM and get started....no programming required. Bring your mobile phone. You'll leave the class ready to begin collecting and sharing data while easily publishing web maps.

Targeted audience:

NGOs, land agencies, surveyors, service providers, land administration consultants, non-technical people who want to make a difference.

Actions required:

Bring your smart phone, Android, tablet, iPad/iPhone



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Class Description:

Managing technology in the rugged environments of the developing world is difficult - poor or nonexistent internet connectivity, intermittent power, expensive cell coverage, and access to technology professionals just to name a few. What is needed is a low-cost, easy-to-configure, no code, standards based, open platform that supports land data acquisition, management and dissemination solution that is standards-based, data rich and accessible globally. Configurable, no code, easy-to-support, commercial off-the-shelf (COTS) systems are globally available, affordable, secure and scalable.

No special tools are needed. Using available technology – android phones, the ArcGIS platform provides a complete solution to deliver data collection and management tools leveraging the global standard Land Administration Domain Model (LADM).

Accuracy is not a problem. Connecting GPS receivers to the android Collector app via Bluetooth, you can collect survey accurate data, store and manage it in ArcGIS Online. Choose sub-meter, single centimeter – choose your own GPS. But the cloud and apps require wireless or an expensive cellular connection, right? A wireless or cellular connection is required to set up the work project area, but then all aspects of field data collection work offline, so you can collect data worry free and synchronize when you have a connection, cellular or wireless.

The difference here is configuration - not programming. There is no longer a need for custom programming, complex implementations, and special skills. Configurations of LADM are freely available on the GitHub open source repository.

This is a sustainable, scalable, supported system, not a project. What you configure and use will be sustained over time and can grow and evolve with new requirements. No programmers needed to expand, extend or scale the system.

This new approach addresses many past challenges of system cost, intermittent internet connectivity, accurate GPS use, scalability and security. This master class will discuss spatial platform and app technologies for collecting data with androids, high accuracy GPS, producing, managing and sharing cadastral data. This master class will present all the technology necessary to get started. Details and lessons learned from deploying this approach in Kenya and Colombia will be shared.