



Land Governance in an Interconnected World

ANNUAL WORLD BANK CONFERENCE ON LAND AND POVERTY
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Land and Poverty Conference 2018 Masterclass on

14-09 | Smart Sketch Maps for the Documentation of Land using Hand Drawn Maps

Friday, March 23, 2018 | 1:30 - 3:00 pm | MC 9-100, World Bank

INSTRUCTORS

Malumbo Chipofya, Dr. – Institute for Geoinformatics, University of Münster

Cristhian Murcia – Institute for Geoinformatics, University of Münster



Summary

In this Master Class we will present new tools designed to support bottom-up land tenure, land rights, and land resource mapping using hand drawn maps. These tools which form part of a system called *Smart Sketch Maps*, SmartSkeMa (pronounced **smärt skē-mə**) in short, facilitate automatic and semi-automatic interpretation of free-hand sketches (Chipofya et al., 2017). This fills a gap in the community mapping workflow which was traditionally solved through manual digitization. But SmartSkeMa is not only concerned with digitizing objects drawn in the sketch map, it is designed to allow meaningful interpretation of these objects and geo-localization using existing map data of the area depicted in the sketch map.

The goal of the Master Class is to demonstrate how SmartSkeMa can be used to harness the power of sketch maps in capturing relevant information from a community's perspective. We will do so by first giving a brief background of SmartSkeMa and outlining how it fits within the general community mapping workflow. Then we will dive into the details of using SmartSkeMa presenting each of the tool's components with a demo and discussing their shortfalls. The master class will leave ample time for discussions, during which attendees can comment on, critique and suggest future improvements to the tool.

While SmartSkeMa is still under development, all implemented modules have been prepared as jupyter notebooks which allow users to execute the functions of the system from a web-based console with ease. These will be used for our live demos during presentations and will also be made available online.

Target audience: Practitioners, researchers, and decision makers in the domains of land rights/land resource documentation, land administration, and participatory / community mapping.

Masterclass program overview: 1. Introduction and background | 2. A community mapping workflow for SmartSkeMa | 3. Components of SmartSkeMa | 4. Plenary discussion | 5. Closing

Reference:: Chipofya, M. C., Jan, S., Schultz, C. and Schwering, A. (2017). Towards Smart Sketch Maps for Community-driven Land Tenure Recording Activities. AGILE 2017, Wageningen, the Netherlands.