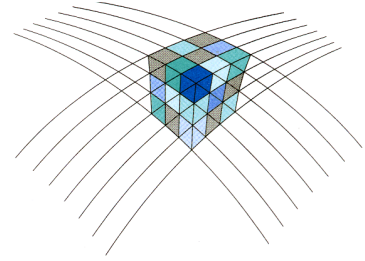


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Netherlands Center for Geodesy and Geo-informatics

Abstract submission for the NCG Symposium 2019

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Presentation title: Innovative remote sensing applications to support land tenure mapping in Kenya

Abstract: There is a clear demand for effective land administration systems that can support the protection of unrecorded land rights, thereby assisting to reduce poverty and support national development. Within the framework of the its4land project, we developed and tested innovative remote sensing applications to support land rights mapping in response to local needs in Kenya. We applied Unmanned Aerial Vehicles (UAV) and developed a method for an automated delineation of visible boundaries based on the acquired UAV images (Figure 1 and 2). For our test areas in Kenya, UAVs were identified as having a high potential for creating up-to-date base maps that can support various current land administration tasks. The automated boundary delineation was found to be useful to simplify the digitization of visible cadastral boundaries.

Figure 1. UAV data acquired in Kenya.

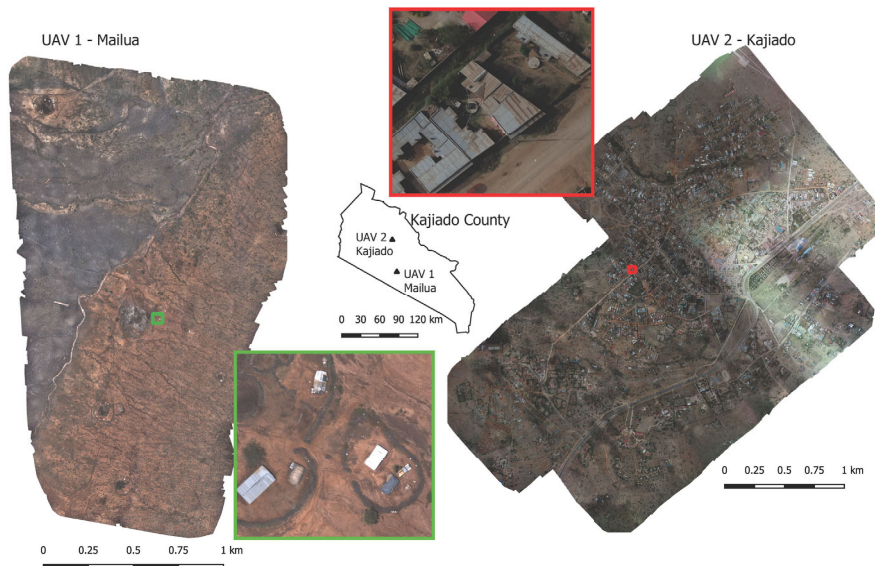


Figure 2. Boundary Delineation Workflow.

