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# Geospatial Technology Innovations for Land Tenure Security in East Africa



its4land delivers an innovative suite of land tenure recording tools that responds to sub-Saharan Africa's immense challenge to rapidly and cheaply map millions of unrecognized land rights in the region. ICT innovation will play a key role. Existing approaches to land tenure mapping have failed: disputes abound, investment is impeded, and the community's poorest lose out. its4land reinforces strategic collaboration between the EU and East Africa via a scalable and transferrable ICT solution.

## How does it work?

Set in the East African development hotbeds of Rwanda, Kenya, and Ethiopia, its4land combines an innovation process with emerging geospatial technologies, including smart sketch-maps, UAVs, automated feature extraction, and geo-cloud services, to deliver land recording services that are end-user responsive, market driven, and fit-for-purpose. its4land has 3 major phases: contextualization, design, and land sector transformation. The transdisciplinary work develops supportive models for governance, capacity development, and business capitalization. In line with Living Labs thinking, localized pilots and demonstrations are embedded into the work. The experienced consortium is multi-sectorial, multi-national, and multi-disciplinary. It includes SMEs and researchers from 3 EU countries and 3 East African countries. Gender sensitive analysis and design is also incorporated.

## Key objectives

The specific objectives are to: 1) capture the specific

needs, market opportunities, and readiness of end-users in the domain of land tenure information recording; 2) co-design, adapt, integrate, demonstrate, and validate a land tenure recording suite based on small unmanned aerial vehicles (UAVs), smart sketch-maps, automated feature extraction, and geocloud services; and 3) develop and valorise a governance model that realizes the innovation process by aligning end users' conditions, technological opportunity, business models, and capacity building requirements.

## How to get involved?

its4land is building multiple dissemination, exploitation, and valorisation channels - for the tech-industry, international agencies, governments, researchers, and small-holder groups. We want our data and tools to reach the widest possible audience. If you would like to learn more, visit [its4land.com](http://its4land.com) or contact the project coordinator.

## Project Facts

**CALL:** Collaborative Projects Call 2 - ICT12 | **EXECUTION:** From February 2016 to February 2020

**COORDINATOR:** Rohan Bennett (University of Twente)

**PARTNERS:** University of Twente (Netherlands), University of Munster (Germany), Katholic University of Leuven (Belgium), Hansa Luftbild (Germany), INES (Rwanda), Technical University of Kenya (Kenya), Bahir Dar University (Ethiopia), esri Rwanda (Rwanda)