Geospatial technology innovations for land tenure security in East Africa

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Snapshot

• **Program:** Horizon 2020-ICT-2015
• **Type of Action:** Research and Innovation (RIA)
• **Topic:** International partnership building in low and middle income countries
• **Acronym:** its4land
• **Number:** 687828
• **Duration:** 48 months
• **Start Date:** 2016-02-01
• **Consortium:** 8 partners
• **Budget:** 3.9 million Euro
Ethiopia – Rural Land Certification

Kenya – Pastoralist Land Rights

Rwanda – Urban and Rural Smallholders

Problem

Land Tenure Insecurity

- Food Insecurity
- Inadequate Housing
- Disputes and conflict

Effects

- Ethiopia: 35% undernourished
- 51.2 Million displaced people in 2013
- Global slum population: 1.4 Billion
- 75% globally without formal land tenure system
- 4 billion unrecorded or land interests

Causes

- Land Policies: Do not exist
- Land Laws: Do not recognize all tenures (e.g. customary)
- Land Institutions: Are corrupted and suffer inertia
- Land Processes: Are neither customer nor market oriented
- Cadastral / Registration Tools: Are costly, take too long, and accuracy-centric
- Socio-Economic Capacity: Is growing, but skilled workers still lacking

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Project objective

To develop an innovative suite of land tenure recording tools inspired by geo-information technologies, that responds to end-user needs and market opportunities in sub Saharan Africa, reinforcing an existing strategic collaboration between EU and East Africa.
we’re creating seven new tools to make land rights mapping faster, cheaper, easier, and more responsible
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 UAVs, smart sketchmaps, automated feature extraction, and geocloud services

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
Our novelty, Our innovation
• Transcending countries and continents Transcontinental
• Transcending disciplines
• Transcending technologies
Transcending societal layers
UNIVERSITY OF TWENTE.
its4land
Ambitious and inspiring research project
Driven by real societal demands and advancing technical opportunity
Results contribute to achieve the 2030 Agenda
Thank you for your attention.