Geospatial Technology Innovations for Land Tenure Security in East Africa

ITS 4 LAND
innovations for land tenure

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.
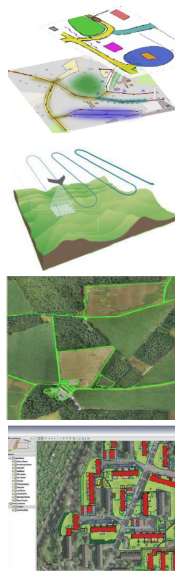
How does it work?

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 - facilitates automatic and semi-automatic interpretation of free-hand sketches.

UAVs are fixed-wing or rotary technologies, remotely piloted, and capable of carrying positioning and imagery sensors for data collection of smaller areas.

An **automated feature extraction** algorithm supports image-based identification and vectorization of visible cadastral boundaries.

Geocloud services are information infrastructures that enable remote storage, analysis, and presentation of geo-information.

The aim is to deliver land recording services that are end-user responsive, market driven, and fit-for purpose.

Key objectives

u needs, market opportunities, and readiness of end-users; 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, inter-national agencies, governments, researchers, and small-holder groups. If you would like to learn more, visit or contact the project coordinator.

Project Facts

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

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