

**WORKING WEEK 2021 20-25 JUNE** 

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Fit-For-Purpose Land Administration In Ethiopia - Ten Years of Success

24 June, 11:00 — 12:30

















#### Ethiopian Land Certification

Land registration and certification followed two fast and inexpensive stages

- Stage 1: First level land certification (1 USD per parcel) paper-based containing parcel size and landholders' details (20 million plots registered and certified)
- Stage 2: Second level land certification (6 USD per parcel) with the spatial cadastral land boundaries and landholders' details including women as (joint) landholders (at least 20 million plots registered and certified)

Both stages are fit-for-purpose land administration (FFP-LA) approaches

















#### Ethiopian Land Certification

Second level land certification carried out under

- Ethiopian Land Administration Strengthening Program (ELAP)
- Responsible and Innovative Land Administration Project (REILA I & II), and
- Land Investment for Transformation (LIFT) Program

Mass registration achieved the 20 million+ parcels













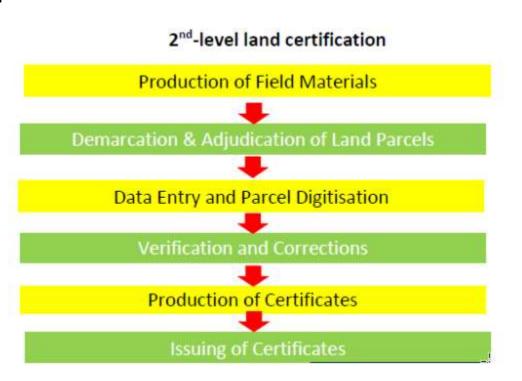




#### Ethiopian Land Certification

Mass Registration Approach Applied

Field materials included plots of orthophotos (produced from satellite / aerial photography)















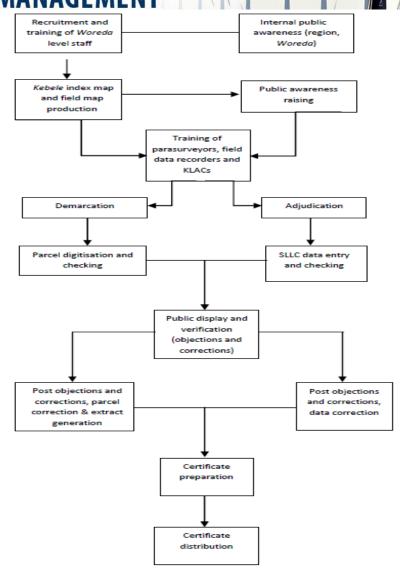


#### SMART SURVEYORS FOR LAND AND WATER MANAGEMENT

**CHALLENGES IN A NEW REALITY** 

#### Ethiopian Land Certification

Mass Registration Workflow implemented by LIFT Program, which certified 16 million parcels in 6 years















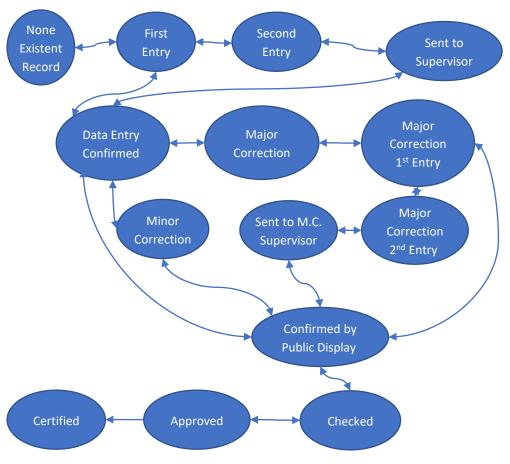




#### Ethiopian Land Certification

Mass registration software / application is a module of the National Rural Land Administration Information System – NRLAIS

Diagram showing stages of data registration



















#### Ethiopian Land Administration

National Rural Land Administration Information System - NRLAIS

- Developed by Hansa Luftbild AG between 2015 and 2017 under fit-for-purpose approach and based on open source software and ISO 19512 Land Administration Domain Model – LADM
- NRLAIS currently is under maintenance and support contract by Hansa Luftbild
- Local IT company is integrated in the maintenance process so that this company can take over maintenance after Hansa Luftbild's contract expires















**SMART SURVEYORS FOR LAND AND WATER MANAGEMENT** 

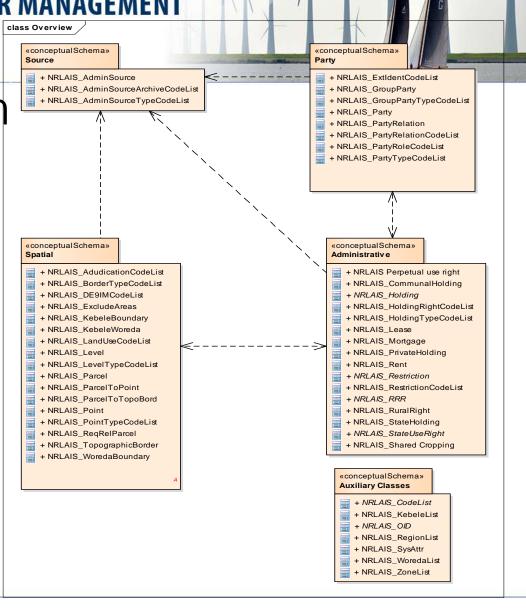
**CHALLENGES IN A NEW REALITY** 

Ethiopian Land Administration

### NRLAIS Conceptual Data Model based on LADM

Data model based on ISO 19512 LADM and structured as four main packages plus one support package.

- Party
- Administration
- Source
- Spatial
- Auxiliary classes



















#### Ethiopian Land Administration

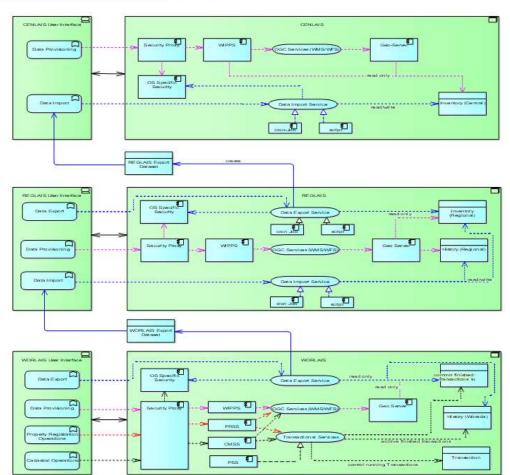
CENLAIS

#### **NRLAIS System Overview**

- CENLAIS: Federal government platform
- REGLAIS: regional government platform
- WORLAIS: local government platform which administers all land parcels within the jurisdiction of the concerned county

REGLAIS

WORLAIS



















Ethiopian Land Administration

New Application +

40

Thematic Map ▼

& WELCOME: Officer ▼

# NRLAIS implemented transactions

Initially 21 transactions implemented now includes mortgage transactions (5 transactions) allowing landholders to obtain loans through financial institutions offering their landholdings as collateral











25

26 Marriage

PLATINUM SPONSORS





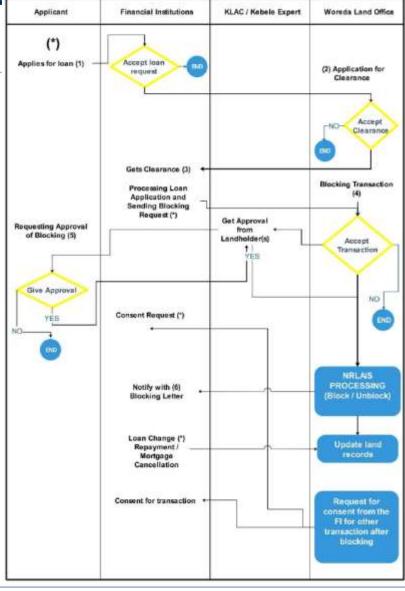


#### SMART SURVEYORS FOR LAND AND WATER MANAGEMENT

**CHALLENGES IN A NEW REALITY** 

### Ethiopian Land Administration

Loan application procedure in relation to NRLAIS mortgage transactions



















In summary FFP-LA has been successful in Ethiopia

















Thank you for your attention

















#### Questions

- Does land legislation need to be adapted to allow FFP-LA?
- Does the land legislation in your country allow the FFP-LA approach?
- Do you have experience with FFP-LA?
- Do you have experience with open source software, such as QGIS, PostgreSQL, etc.?
- Any aspects of FFP-LA you need to discuss?











