OPEN TENURE SOFTWARE FOR COMMUNITY TENURE RECORDING, LAND ADMINISTRATION & POST DISASTER RESPONSES

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Paper Conclusions

Open Tenure, UAV & Crowd Sourcing provide valid solutions in post disaster situations as they are quick to mobilise, low cost and can be implemented at community level. However:

1. One technology solution is unlikely to fit all situations
2. Community engagement including “free, prior and informed” consent should be mandatory
3. Use of Local Software Developers
4. Resolution of map imagery used needs to be appropriate
5. Boundaries should be defined in terms of physical features visible on map imagery
Voluntary Guidelines on Responsible Governance of Tenure of Land, Fisheries and Forests

The first global soft law instrument on tenure

Negotiated by governments, with participation of civil society and private sector

FIG & FAO Joint Technical Session – Thursday 11-12.30
Voluntary Guidelines on Responsible Governance of Tenure of Land, Fisheries and Forests (VGGT)

Open Tenure open source software is an Enabling Technology for the implementation of the VGGT in that:

- **Identifies and safeguards** tenure rights not recorded by formal land administration
- **Engages with all** tenure right holders in tenure governance processes
- **Exercises self-governance** for communities with customary tenure systems
- **Protects against unauthorized** use of land, fisheries and forest resources
- ** Ensures citizen and community involvement**
The SOLA Open Source Software

**REGISTRY**
Integrated registration and cadastral functions in a typical district land office including case management of service requests.

**OPEN TENURE**
Provides for the in-the-field capture of tenure rights by communities and individuals using mobile devices.

**COMMUNITY**
Stores and provides web access to community collected tenure data. Also manages processes leading to the community recognition of tenure rights.

**SYSTEMATIC**
Systematic (first time) registration tasks to produce public display listings and maps, generate title certificates and digital transfer of this data to a district land office.

**STATE LAND**
State land tasks for lease administration, acquisition, disposal and management of state land and other properties.

**ADMIN**
System administration functionality.
Completed Open Source Software Solutions
Open Tenure Key Features

Open Tenure was specifically designed to support community tenure recording that includes the following features:

- Mobile application for Android and iOS devices
- Allows citizen recording of tenure rights (crowd sourcing)
- Record claimant (and share) details, mapping of boundaries and collect documents and photos to support claims
- Display various map imagery data sources
- Online and offline operation
- Ability to add further fields (and tabs) to record community
- Claims uploaded to the Community Server for moderation by the community
Open Tenure – Welcome Page and Community Map
Open Tenure – List of Claims & Claim Details

- Open Tenure software for Land Administration & Post Disaster Responses

Claim name *
Demonstration Example

Claim type *
Ownership
Land Use
Residential

Date claim applies from (YYYY-MM-DD)
1958-03-16

Area
990 m2

Notes
Insert Claim’s notes

Claimant *
Neil Pullar
Modify Claimant

Select Claim to Challenge
Open Tenure – Claim Map & Claim Documents
Open Tenure Reserve Mapping, Kebbi, Nigeria

SOLA COMMUNITY SERVER v1.3

Claim #15110032

Claimant

Documents
Owners
Adjudications
Comments
Certificate of Occupancy
Gazetted Reserves

Layers

Current claim
Community area
Claims
- Unmoderated claims
- Claims for review
- Reviewed claims
- Moderated claims

Google Map
Google Earth
Post Disaster Considerations

1. Crowd source mapping was used after Haiti earthquake
2. Open Tenure captures full range of STDM data plus community/situation specific data fields without software changes
3. Open Tenure is designed for use by “Community Recorders”
4. By default UAV generates (super) high resolution imagery
5. Pre disaster and post disaster map imagery needs to be geo-referenced consistently
6. Need for community solutions as land affected by disaster is often outside formal land administration systems
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Acknowledgements

The support of the Resource Partners involved in the Open Source Software and Technology initiatives undertaken by FAO and mentioned in this presentation is gratefully acknowledged and includes the following donors:

- Ministry of Foreign Affairs, Finland
- UK DFID
- Millennium Challenge Corporation
- Government of Germany
- Government of Italy
Open Tenure software for Land Administration & Post Disaster Responses

FOR INFORMATION

www.flossola.org

Copy of this paper and power point is available on the SOLA Open Source Community website

Plus access to demonstration versions of the SOLA desktop software

User Name / Password test/test

DOWNLOAD OPEN TENURE FROM: