

FIG WORKING WEEK 2019

22–26 April, Hanoi, Vietnam



"Geospatial Information for a Smarter Life
and Environmental Resilience"



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Protecting Customary Land Rights In Sierra Leone Open Tenure Spatial Mapping Technology

Maria Paola Rizzo: UN FAO

**Buawah Jobo Samba: Government of Sierra Leone
Ministry of Lands, Housing and Environment
22-26 April, 2019**

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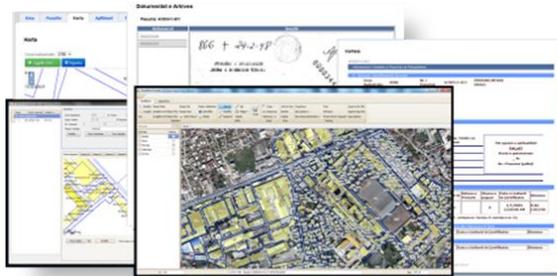
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SOLA suite of applications consists of



- SOLA REGISTRY
- SOLA SYSTEMATIC REGISTRATION
- SOLA STATE LAND

To support cadastre and property registration operations



To record customary tenure and field data collection

- OPEN TENURE



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Use in countries



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Open Tenure comparative solutions

Green	Available	SOLA OT	Cadasta	MAST	STDM	ODK
Yellow	Partly available					
Red	Not available					
Functionality						
Workflow management		Yellow	Red	Green	Red	Red
> Dispute handling		Green	Red	Red	Yellow	Yellow
Property management		Green	Green	Green		
> Systematic Registration		Red	Red			
Spatial unit management		Green	Green			
Map spatial information						
Manage rights and right holders		Green	Green			
Digital document management		Green	Green			
Search, retrieve and display		Green	Green			
Reporting		Green	Green			
System Qualities						
Security		Green	Green			
Maintainability/Flexibility						
> System administration		Green	Green			
> Survey form templates		Green	Green			
> Multiple languages		Green	Green			
Other						
> Multiple operating systems		Yellow	Yellow	Red	Red	Red
> E-mail notifications		Green	Red	Red	Red	Red
> Data import/export		Green	Green			
> Offline use of data		Green	Green	Yellow	Yellow	
> Downloadable Installers		Green	Green	Red	Red	
> Host Web data server		Yellow	Green	Red	Red	Green
> Support		Green	Green	Yellow	Green	Red

Review SOLA suite of applications:

<https://bit.ly/2SHydZi>

- SOLA REGISTRY, SOLA SYSTEMATIC REGISTRATION and SOLA STATE LAND have no alternative
- OPEN TENURE has only one similar alternative, CADASTA, which is no longer Open Source

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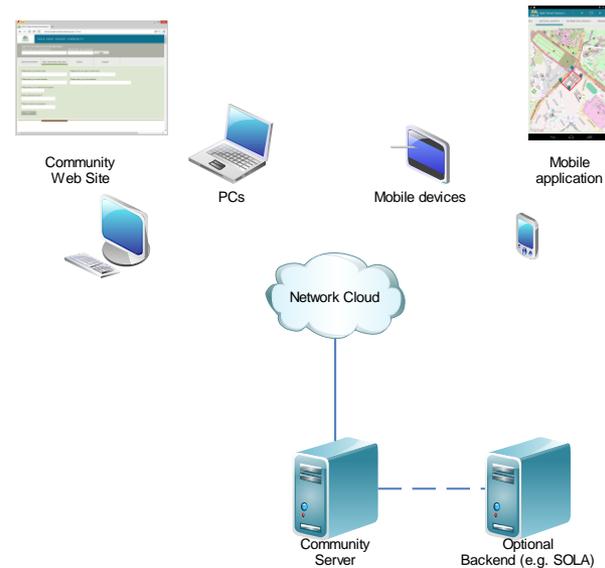
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What is Open Tenure?

- Strengthens local tenure governance in the frame of the VGGT
- Helps communities to record tenure relationships existing in their community
- Uses tablet devices and Open Tenure open source software to record in the field a range of tenure relationships and map them using satellite imagery and GPS measurements
- Uses a web based Community Server to store Open Tenure claims from Community Recorders and to update those claims when they are accepted and recognized by the community



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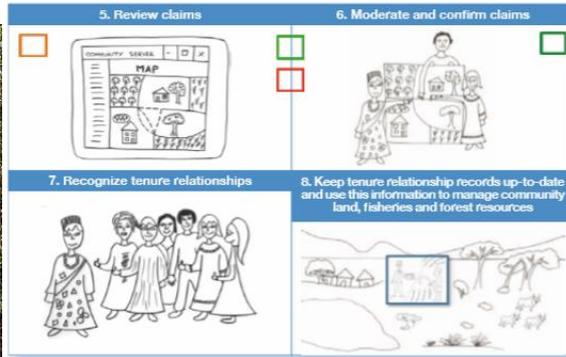
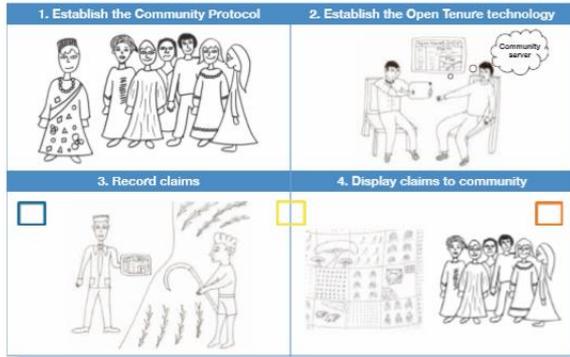
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Open Tenure in 8 Steps



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SIERRA LEONE - Brief Country Profile

- Total population is 7,092,113
- 5 Regions (North, North-West, South and East, Western Area/Freetown), 16 districts, 190 chiefdoms
- Land Mass of Sierra Leone is 71,740 km²
- Two separate land tenure system (Freehold/English law in Western Area/Freetown; Custmary regime in provinces)
- 90% of land in Sierra Leone falls under customary regime

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Key Achievement

- ❑ In 2018, Financial support from Irish & German Government and Technical support from FAO, Government of Sierra Leone piloted a project to generally understand the dynamics involved in the protection of customary land rights
- ❑ The project was piloted in 4 districts across the country using Open Tenure Mapping Technology
 - 1) Bombali – Norther Region
 - 2) Port Loko - North West Region
 - 2) Bo – Southern Region
 - 4) Kenema – Eastern Region

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Key Achievement

Open Tenure Mapping Project Pilot Areas

District	Chiefdom	Village	Number of Parcels	Size of Land Mapped (Acres)
Bombali	Paki Massabong	1. Mafina	9	1,925.69
		2. Masima 'Mashema'		
		3. Rosint		
Bo	Selenga	1. Sembahun	13	
		2. Mobonday		
		3. Njaluahun		
Kenema	Kandu Lekppiama	1. Missila	13	1,720.10
		2. Topuwuma		
		3. Mathru		
Port Loko	Bureh	1. Rosint	25	4,118
		2. Rokupr Wose		
		3. Matatie		
Total area of Mapped Land in the four (4) chiefdoms (Acres)			60	11, 745.79

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Key Achievement

Resources & stakeholders Mobilization

- ✓ Less time involved; less expensive; promote dialogue involving tribal authorities; land users, land owners, youths and women

Capacity Building & Field data collection

- ✓ Over 500 local actors capacity built in gender and land rights issues across the four districts
- ✓ 120 youths trained as para-surveyors
- ✓ Less 24 hours to 10 youths per settlement to use android tablets
- ✓

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Key Achievement

- Methodology for identifying & mapping of customary land rights established
 - ✓ Legal empowerment of communities (90% successful) – Stage 1
 - ✓ Governance strengthening initiatives, community by-laws development (90% successful) – Stage 2
 - ✓ Boundary Harmonization and Mapping (90% Successful) – Stage 3
 - ✓ Community validation of customary land parcel maps (90% successful) – Stage 4
- Enabling environment for the legal and institutional reforms required to improve the tenure governance system (SOLA/Open Tenure)

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Key Achievement

Cluster & Individual family land parcel thematic maps

✓ Total of 12 family cluster maps produced & Validated



✓ Amounting to 60 family land holdings (12, 000 acres) recorded and mapped in 6 months

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Challenges

- Limited resources to cover a chiefdom, a chiefdom is considered a complete administrative unit.
- Poor weather conditions and forest cover canopy in certain cases affected GPS signals of the android tablet.
- Difficult terrain pose serious challenges the recording and mapping process.
- Boundary misunderstanding also posed challenges to the process.

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Next Steps

- Scale up recording and mapping of customary land holdings to cover an entire chiefdom.
- Introduce in the mapped chiefdom a secure system for loading/register validated customary land claims.
- Import validated customary land claims in SOLA Registry .
- Review Provinces Land Act, Cap 122
- Develop Customary Land Act

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Join the
Learning Session
on the Use of Open Tenure Technology
Thursday,
25 April
16:00–17:30

207abc ("FIG FOUNDATION ROOM"), Vietnam
National Convention Center

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THANK YOU!

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