## Figure 24 May Sector Anagement for All

#### Community Land Registers for Internally Displaced Persons, South Darfur, Sudan: ICT Solution(12615)

Presented by

Ahmed Hemoudi, Malumbo Chipofya, and Dimo Todorovski (The Netherlands)











# FIG 19-24 May Vour World, Our World: Accra, Ghana Vour World, Our World: Resilient Environment and Sustainable Resource Management for All

## The aim of the paper

- Identification of the information system requirements for the Native Administration system in the customary tenure system in South Darfur, Sudan.
- Evaluated some FFPLA tools that have been experimented within similar contexts.
- Recommendations for the best ICT solution (FFPLA tool (s)) that aligned with the identified requirements.





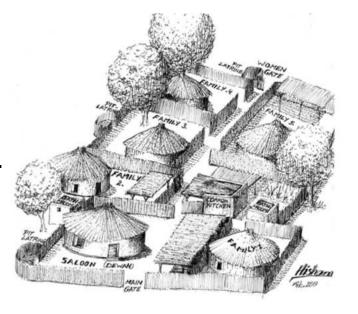




# Fig 19-24 May Vour World, Our World: Accra, Ghana Vour World, Our World: Resilient Environment of All

#### Background

- Two parallel land administration systems.
- Only 1% of customary rights are recorded.
- All Sudanese Land Acts do not acknowledge the customary land rights.
- Few papers and verbal agreement.
- Up to date 2.4 million IDPs in Sudan, 7 % in South Darfur, live in temporary camps.
- The Native Administration System lack innovative solution.
- Lack of historical records and access to public institutions.
- Occupancy of lands by host communities.
- Lacks innovative solution to minimize conflicts
- Lacks solution to capture people to their land relation.



Source of the picture GLTN (2020), Fieldwork, and OCHA (2023)

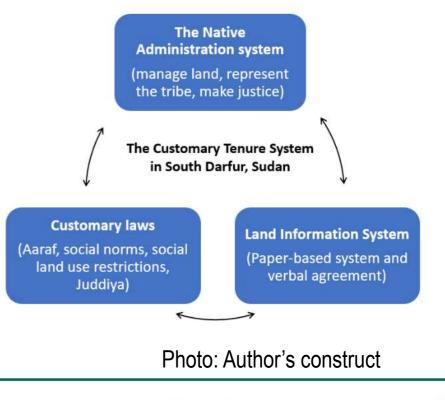




### FIG FIG Working Week 2024 19-24 May Accra, Ghana Your World, Our World: Resilient Environment Accra, Ghana

#### **Customary Land Tenure Institutions and Process in South Darfur**

The Dar, Hakora, and Housh are managed traditionally by tribal leaders.Land is allocated only for the need of any member of the community.Land can be allocated for IDPs temporarily.Communications, either verbally or handwritten letters.Manage land through Aaraf, customs, social restrictions.Land relations though the community recognition.







### FIG Norking Week 2024 19-24 May Vour World, Our World: Resilient Environment Accra, Ghana

#### **Governance Institutions and Structures**

- The Native Administration is a hierarchical system, headed by The Nazir, Omda, and the Shiekh.
- The Native Administration is the governance structure of a particular tribe, a Nazara or Shartaya.
- The Nazir leads a Nazara (people and land) over the dar (hakura) of the tribe.
- Each Omda is responsible for a part of the territory of the Dar.
- The Sheikh is responsible for the day-to-day management of communal affairs including allocatting land for community and IDPs.
- The Sheikh facilitates customary land tenure processes at the local level involving individual land users.

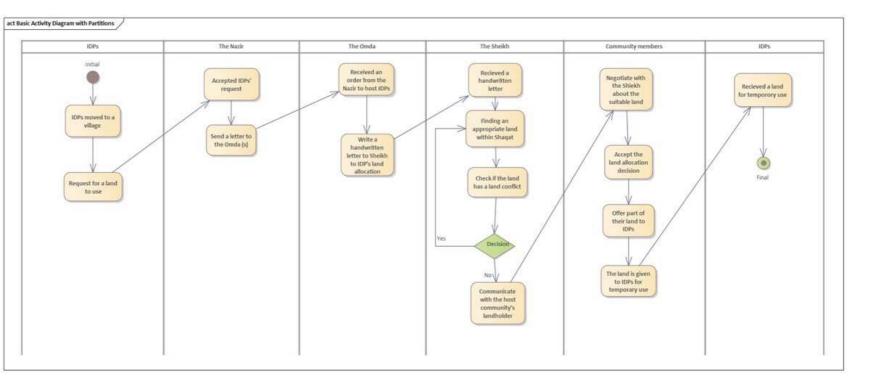




### FIG FIG Working Week 2024 19-24 May Vour World, Our World: Resilient Environment Accra, Ghana

#### Land governance processes and land information

- 1- Land Governance processes:
- Land Conflict solved through Juddiya.
- An example of allocating land for IDPs.



The activity diagram for allocating a land for IDPs





### FIG Norking Week 2024 19-24 May Vour World, Our World: Resilient Environment Accra, Ghana

#### Land governance processes and land information

2- The Information system requirement for the Native Administration System:

**Functional Requirements:** 

(what the system should do)

- land recordation.
- Land management.
- Solutions for conflict resolutions(Juddiya)
- Technical and operational.

#### **Non-Functional Requirements**

(Shows the quality of the system)

- Security.
- Performance.





#### FIG Working Week 2024 Your World, Our World Resilient Environment and Sustainable Your World, Our World: 19-24 May Resource Management Accra, Ghana Resou

#### **Fit-for-purpose land administration**

The alignment of some evaluated FFPLA tools with the identified information system requirements:

Functional and functional requirements LA tools	Functional requirement (Land recordation)	Functional requirement (Land management)	Functional requirement (conflict resolutions)	Functional requirement Technical and operational	Non-functional requirement (Performance)	Non-functional requirement (Security)	Number of higher alignment
STDM	Н	М	М	М	Н	Н	3
UAV	М	М	М	М	Н	L	1
SmartLandMaps	Н	М	Н	Н	Н	Н	5
SmartSkeMa	Н	М	Н	Н	Н	Н	5
Cadasta	Н	М	М	М	Н	Н	3
Smartphone Esri collector	М	М	М	L	Н	L	1
Field arxes app	М	Н	Н	М	H Platinum społ		<b>⊗∙Trimble</b>

#### FIG Norking Week 2024 19-24 May Vour World, Our World: Resilient Environment Accra, Ghana

#### The alignment with the capacity of the community

The capacity of											
the community	(p <sub>2</sub>										
LA tools	Land management (paper-based)	Customary land tenure rights	Different customary land use rights	Customary land law (Araf)	Land disputes (neighbours, farmers, shepherds)	Land agreements records	Lack of maps	Social land use restrictions	Lack of technical support	Lack of trained land specialist	Number of checked boxes
STDM	✓	✓	×	×	×	×	×	<ul> <li>✓</li> </ul>	×	×	3
UAV technology	×	✓	✓	×	✓	×	<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>	×	6
SmartLandMaps	×	✓	✓	×	✓	×	<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>	✓	7
SmartSkeMa	×	✓	✓	✓	✓	×	<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>	✓	✓	8
Cadasta	<ul> <li>✓</li> </ul>	✓	×	×	×	<ul> <li>✓</li> </ul>	×	<ul> <li>✓</li> </ul>	×	×	4
Smartphone-Esri collector	×	✓	✓	×	×	×	×	✓	1	√	5
Field surveyapp	×	✓	✓	×	×	×	×	TINUM SPONSORS	esri	<b>Trim</b>	5 GEOSA

ORGANISED BY

THE SCIENCE OF WHER

#### FIG Vor World, Our World 19-24 May Vour World, Our World Accra, Ghana Vour World, Our World Accra, Ghana Provision Accra, Ghana

#### Recommendations

The implementation of SmartSkeMA, the Field Survey App, and UAV together

#### Through:

1-Capacity strengthening of the community to participate in the implementation of these suggested LA tools in South Darfur based on the characteristics of these selected tools.

2- Capacity strengthening of some land professionals in Nyala as an external reliable partner for supporting the implementation of these recommended LA tools.







#### FIG Working Week 2024 Resilient Environment and Sustainable 19-24 May Accra, Ghana Resou

Your World, Our World: Resource Management

SUSTAINABLE G ALS International Federation of Surveyors supports the Sustainable Development Goals

## **Commission #**

**Commission's name** 

Serving Society for the Benefit of People and Planet









