



FIG Working Week 2024

19-24 May

Accra, Ghana

Your World, Our World:
Resilient Environment
and Sustainable
Resource Management
for All

Presented at the FIG Working Week 2024,
19-24 May 2024 in Accra, Ghana

GLTN Workshop - Application of Fit-For-Purpose Land Administration in the Arab Region 5-8 December 2023

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WORKSHOP: Application of Fit-For-Purpose Land Administration in the Arab Region, December 2023



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TS04A: Academic Networks for Knowledge Sharing
20 May 2024, Accra Ghana
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Background - Global Land Tool Network (GLTN) Workshop

Organizers: with support from GLTN together with
Regional Centre for Remote Sensing of North African States – CRTEAN Tunisia
The School for Land Administration Studies – SLAS, a joint venture between
Kadaster and
Faculty ITC University of Twente, from the Netherlands

Nine Arab countries participated:

Libya, Morocco, Syria, Sudan, Iraq, Jordan, Egypt, Mauritania, and
Tu



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Objective of the workshop

- to explore, engage and exchange experiences and views on the **Fit-For-Purpose Land Administration (FFPLA)** and its implementation with a particular focus on governance issues, technical solutions, the integration of tools and approaches as well as the adaptation of FFPLA in the Arab context.



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Methodology

- Pre-workshop survey on the state of affairs related to Land Administration in Arab States
 - Status and Land Challenges in the Arab Region
- DAY 1: showing the results from the Pre-Workshop Survey; Expectations; theory on FFPLA and A LOT of Interaction
- DAY 2: Data Collection; Aerial + Fieldwork with Handheld and Antenna GNSS
- Day 3: Land Information Systems for FFPLA; Emerging Techniques and Trend; Next - Scaling and Governance



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Results from the pre-workshop survey

A	B	C	D	E	F	G	H	I	J
6	Start time	What is the name of your organization?	Which country are you from?	In no more than three words, describe the current land administration situation in your country.	What is the coverage of the land administration system in your country?	Which organisations/institutions are involved in land administration in your country?	Does the land administration system recognize digital land records?	Estimate the number of digital land records in your country.	How does the current land administration system handle digital land records?
2	11-21-23 18:07:01	Sirte municipality	Libya - Sirte	Lands in Libya are owned by the state	41-60%	Organizations or institutions	Yes	Unavailable	It recognizes by examining physical documents
3	11-21-23 18:09:52	University of Tripoli	Libya	The real estate situation is not clear	0-20%	The Real Estate Register	Yes	1000 to 1500	the majority of documents are digital
4	11-21-23 22:21:31	Law Hassan 2	Morocco	The land administration system is not clear	21-40%	ANCFC	Yes	1200	The agency delivers digital land records
5	11-23-23 21:43:54	Department of Lands and Survey	Jordan	The Department of Lands and Survey is the main authority	81-100%	The Department of Lands and Survey	No	Approximately 1,500 land records	The government in Jordan is not using digital land records
6	11-24-23 9:14:54	Land Portal Foundation	Egypt	The local administrative system is not clear	41-60%	RPRA/ GOPP/ NUCA/	Yes	not announced	Egypt is actively modernizing its land administration system
7	11-24-23 9:54:11	Sirte municipality	Libya - sirte	Lands in Libya are owned by the state	41-60%	Institutions or organizations	Yes	Unavailable	It recognizes by examining physical documents
8	11-24-23 10:54:20	ISTIDAMA for Land and Urban Planning	Sudan	The land administration system is not clear	0-20%	There are many organizations	Yes	It is roughly plus or minus 1000	There is a recognition of digital land records
9	11-24-23 18:43:33	Directorate General of Land Administration	Lebanon	Land administration in Lebanon is not clear	61-80%	Ministry of finance and economic affairs	No	~2000	Digital land documents are not used
10	11-24-23 19:57:51	Damascus University	Syrian Arab Republic	Land administration functions are not clear	81-100%	Under the coordination of the Ministry of Land Administration	Yes	no estimate is available	A functioning cadastral system is not in place
11	11-28-23 21:48:38	National Authority for Land Administration	Egypt	Land administration in Egypt is not clear	61-80%	Same three institutions	Yes	many	In progress It is not yet fully digital
12	11-28-23 23:02:07	جامعة بغداد	العراق	ادارة الاراضي في العراق	61-80%	وزارة الاسكان والبلديات	Yes	6000	من خلال دائرة التسجيل العة
13	11-29-23 10:50:15	Office de la Topographie	Tunisia	There are multiple interveners in land administration			I don't know.	200	
14	11-29-23 11:25:28	OTC	TUNISIA						



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Programme – day 1

- We started with: Land Challenges in the Arab Region (presenting the results from pre-workshop survey)
- Engaging - The FFPLA Solutions from theory/literature
- Showcasing - FFPLA example cases
- Women land rights - positive support on the topic from the participants



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DAY 1 FFPLA WORKSHOP (ARAB) COUNTRY CASES + CHALLENGES

EGYPT

Levels of Competence
Legal & institutional
Spatial
Time
The Ministry of Land
The Ministry of Agriculture
The Ministry of Planning

IRAQ

JORDA

LIBYA

MAU

MOROCCO

SYRIA

TUNISIA

LEGAL
INSTITUTIONAL
SPATIAL

DIGITAL TRANSFORMATION
LEGAL ISSUES
ALIGNMENT TO UN-SDG (SUSTAINABLE DEVELOPMENT)
3 FFPLA FRAMEWORKS

EXPECTATIONS - PARTICIPANTS

FFPLA CONCEPT

More industry of the concept
FFPLA is a...
I think you will help me to understand the Land Adminstration in my country so we can...
Learning about local needs and context
Have new insights provide ideas
Practical Solutions for Policy Integration (FFPL)

NATIONAL & LOCAL CHALLENGES

POLICY + LEGAL SOLUTIONS

FFPLA TECH + TOOLS

LINKS TO PLANNING + VALUATION

CASES + IMPLEMENTATION

INDIGENOUS + COMMUNITY CUSTOMARY

Have an idea about the tools for FFPLA

Know the new technologies for registering plots?

The New Technology applications
FFPLA Applications to be implemented

Drinking Water
Urban Planning
Alternative Courts in old city

Ideas for land valuation in the context of Data Limitation

BEST PRACTICES FOR LA

Expectations
- Importance of FFPLA
- Applications (B)
- How to implement it in the country context

How to Scale & spread up LA in country context

Scale attention to community - community level Tribal Land

Indigenous and local community



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Programme – day 2

- Aerial Capture Options and Demos
- Field Capture Options
- 5 teams - FFPLA experimenting in the field different example
- After fieldwork assessment of the Possibilities of Technology usability per country

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Outcomes – day 1



DAY 2 <small>SLAS ARAB FFPLA</small> OVERVIEW DATA CAPTURE	MOSTLY IRRELEVANT	SOMEWHAT RELEVANT	RELEVANT	VERY RELEVANT
GNSS field solution	MAU	MOR	EGY	EGY, IRA, LIB, JOR, SYR, TUN
Participatory mapping		TUN	TUN, EGY	LIB, JOR, MAU, IRA, SYR
UAV imagery		MAU	TUN, EGY, MOR, JOR, SYR	JOR, IRA, MAU, LIB
Aerial imagery	MOR		LIB, JOR, TUN	EGY, IRA, TUN, SYR, LIB
Satellite imagery	MOR, MAU	MOR, TUN	JOR	EGY, JOR, SYR, LIB, IRA, TUN



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Programme – day 3

- Land Information Systems for FFPLA - Integration Options and Demos
- FFPLA Next - Emerging Techniques and Trends
- FFPLA Next - Scaling and Governance
- [Closing and Workshop evaluation](#)

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2024 Sustainable Development Goals na Your World, Our World: Resilient Environment and Sustainable Resource Management for All



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Workshop evaluation

- The workshop was conducted in a friendly ‘family feel’ atmosphere
- Interactive sessions and participants eager to reflect on current land administration challenges in their home countries
- Different country examples and developments in legislation, governance, hardware, software, and processing solutions that support FFPLA
- **Continuation of similar workshops in the region is needed on technological solutions and with more hands-on**

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Country	Spatial Framework	Institutional Framework	Legal Framework
Egypt	Urban areas: building footprint extraction	Allow intra-data sharing among related institutions	Issuing legal articles that allow the registration with minimum fees for a limited period
	Rural areas: using new technical devices (e.g. Trimble solution)	Integrating CSOs, NGOs and community participation	Support legal “data sharing” with policies
Iraq	Use of modern surveying equipment and software licensed by international companies	All institutions responsible for land management document their paper archives and convert them into digital documentation with the assistance of specialized organizations	establishment of a legal entity responsible for consolidating the country's real estate assets
Jordan	Enhance the qualification of the public institutions and teams to comprehend the modern development in their relevant work	Digitalisation of the public institutions work to provide excellent services to the public easily in an accessible way	Developing the current legislations in coordination will all relevant stakeholders
	Reduce the change-resistant influence of the public institutions and people level to adopt the modern technicians and technologies		
Libya	Land administration legislation should be Fit For Purpose	Easy for capacity building	Cost effective and implementation of procedures where less skills are needed
		Develop tools and procedures	
Mauretania	Equality among citizens in accessing adequate housing ownership	Establishment of institutions capable of organizing and digitizing land ownership	Enforcement of the arsenal of laws governing the real estate sector, increasing their activity regarding property ownership while limiting ownership that impedes development in the country
		Elimination of slums within cities and replacing the horizontal system with the vertical one	
Morocco	Reinforce capacity to use UAV images and material of GNSS in the FFPLA operations	Create a unity of FFPLA in the National Agency of Cadaster	Allow the possibility in the legislation to use technics of FFPLA in systematic registration
	Make trainings for students on FFPLA, technics and approaches	Supervise projects in academic context	
Syria	Development of a spatial frameworks, i.e. cadastral map, maintenance and protection of data	Cultural and behavioural change among key land sector actors	Review the legal framework to accommodate the flexibility FFPLA to be implemented
		Development of the national capacities to scale up the reform deeded	Development of mechanisms for restoration of ownership to resolve HLP-related disputes
Tunisia	Digital transformation – Tunisian LIS	Create a national spatial data infrastructure to make	Alignment to the IGIE standards while taking



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SUSTAINABLE DEVELOPMENT **GOALS**

International Federation of Surveyors supports the Sustainable Development Goals

Commission 2

Professional Education

Serving Society for the Benefit of People and Planet

