OVERVIEW OF LAND ADMINISTRATION: CONCEPTS AND FRAMEWORKS

A CAPACITY DEVELOPMENT LECTURE IN COOPERATION BETWEEN

ARAB LAND INITIATIVE AND

ARAB ACADEMIC NETWORK FOR LAND GOVERNANCE (ARA-LG)

Al-Quds University, 30 April 2025 University of Duhok, 20 May 2025





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OVERVIEW

- About The Arab Land Initiative
- Land Administration What Is It?
- International Frameworks and Models
 - FAO VGGTs
 - Fit For Purpose Land Administration (FFP LA)
 - Land Administration Domain Model (LADM)
 - UN-GGIM FELA
- Q&A
- Resources

ABOUT THE ARAB LAND INITIATIVE





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Arab Land Initiative

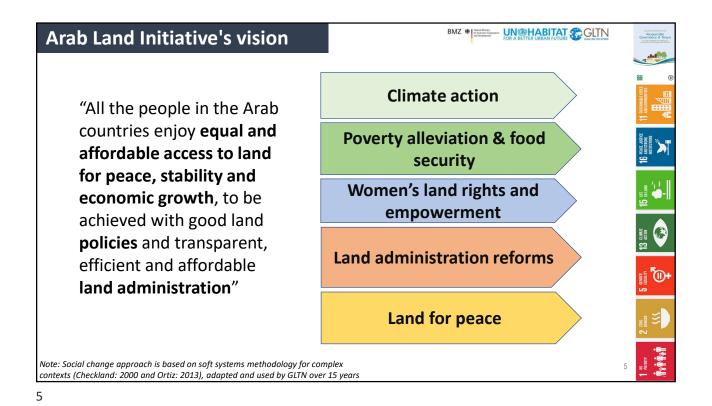
The Arab Land Initiative, established in 2016 by a group of Global Land Tool Network partners led by UN-Habitat, aims to tackle land governance challenges in the Arab region, promoting sustainable land management and equal access to land for peace, stability, climate resilience, and economic growth.

Since its establishment, the Initiative reached noticeable achievements by increasing the visibility of land issues among decision makers and empowering land governance champions through increased coordination, collaboration, capacity, knowledge and information sharing.

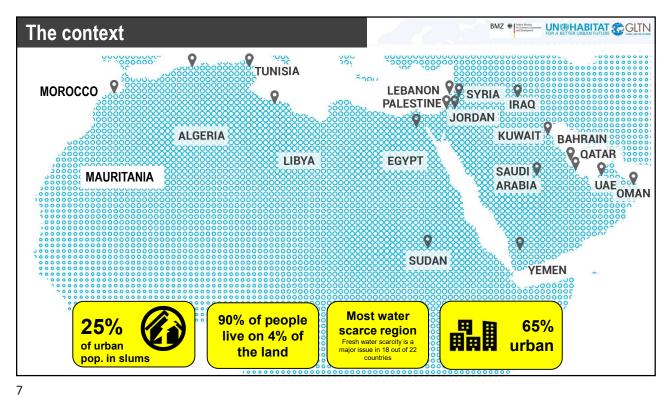


مالاراضي العربية مrab Land Initiative

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Support own processes The Initiative's change model Research Conferences Advisory Enhanced education **Empower & develop** curricula capacities of land **Events & expert Group** governance champions Meetings from the region (individuals & organisations) Training & ToT Information & knowledge International exposure



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The context: FOOD INSECURITY

Undernourished people in the MENA region:

2005: 28.3 million (7.1%) **2**022: **51.2 million** (9.2%)

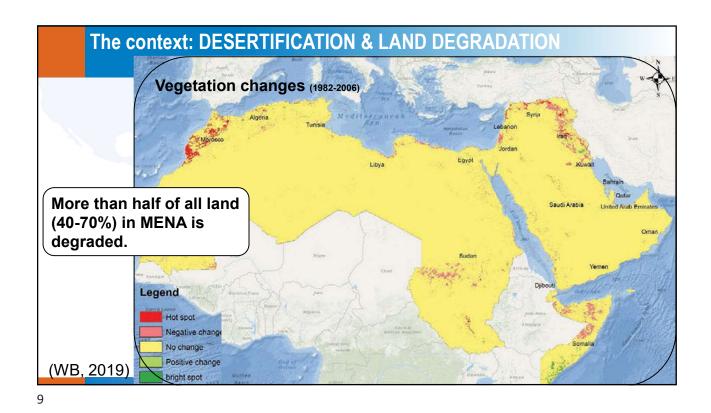
Severely food insecure people: 61.4 m (11%)

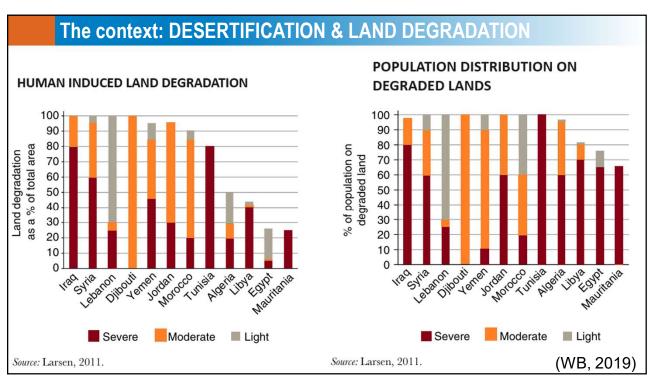
Moderately to severely food insecure people: 188.7 m (34%)

(2022, FAO, WFP, UNICEF, IFAD, WHO)





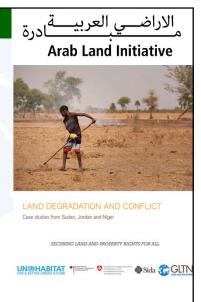


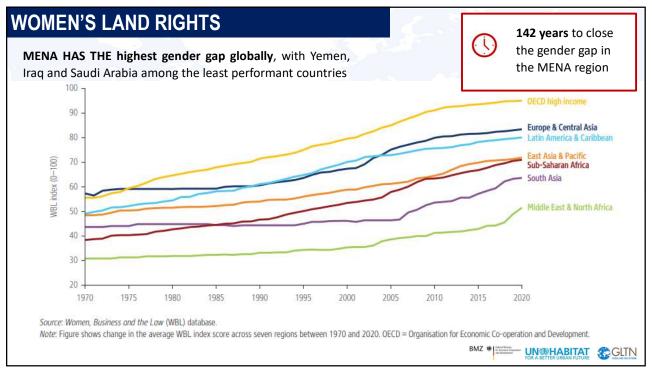


LAND FOR CLIMATE ACTION & FOOD SECURITY

Key findings

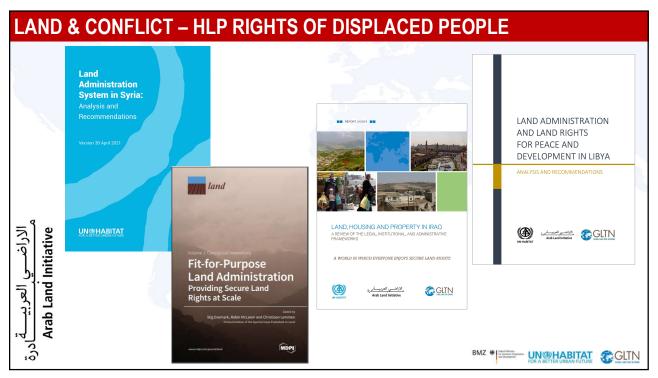
- Land degradation and conflict are deeply intertwined: land degradation fuels conflict and leads to mass displacement. Conflict accelerates land degradation and jeopardizes the LDN investments.
- Prerequisites to solutions: national commitment, local leadership, & active participation of communities. Securing land rights of individuals and communities. Fitfor-purpose land administration.





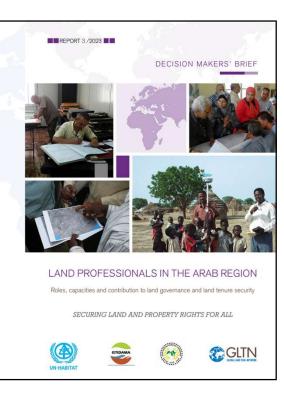








Land Professionals in the Arab Region: roles, capacities and contribution



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Way Forward in the region



- Empowerment and support to organisations / institutions, experts and practitioners through coordination & collaboration, capacity and knowledge development
- 2. Catalyse and support country / partners' interventions
- 3. Leaders & decision makers' attention
- 4. Regional leadership & institutionalization.









LAND ADMINISTRATION - WHAT IS IT?





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LAND ADMINISTRATION ISO 19152*

Process of determining, recording and dissemination information about the relationship between people and land

This International Standard deals with **real rights** and **personal rights**. Real rights are rights over or in respect of **spatial units** (e.g. ownership, or usufruct). Personal rights are rights that parties have (e.g. fishing rights, grazing rights, or use rights).

KEY CONCEPTS IN LAND ADMINISTRATION

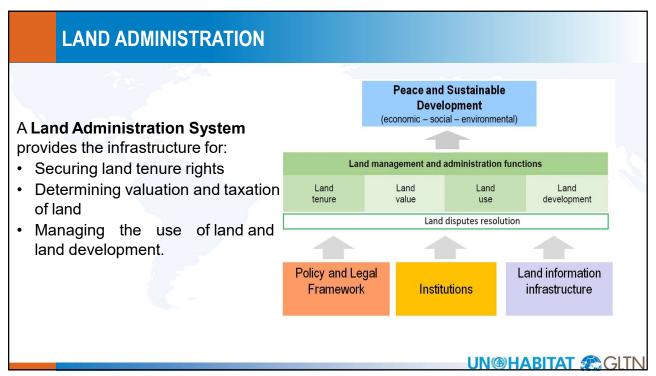
Land administration encompasses the processes and institutions through which land rights are recorded, transferred, valued, and managed.

It includes four key functions:

- Land tenure: securing and recording ownership and use rights
- Land value: property valuation and taxation
- Land use: control and regulation of land utilization
- Land development: planning and construction

Actors include government agencies, private firms, and civil society.

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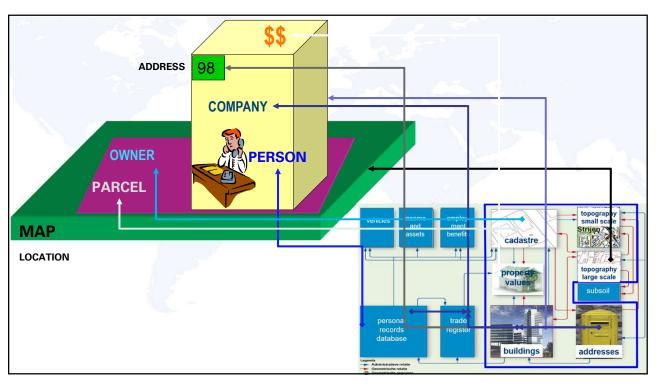
LAND ADMINISTRATION SYSTEMS (LAS)

LAS refer to the infrastructure for implementing land policies.

They manage data on land parcels and rights through cadastral maps and legal registries.

Effective LAS combine legal, spatial, and institutional components. Differences exist between countries in formal vs. informal tenure systems and institutional arrangements.

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GLOBAL CHALLENGES IN LAND ADMINISTRATION

- 70% to be done (worldwide)
- Institutional setting
- Transparency
- Paper based systems
- Legacy
- Information management
- Decentralisation
- Poor and vulnerable
- Gender



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GLOBAL CHALLENGES IN LAND ADMINISTRATION

- Outdated, complex & opaque land systems exacerbate informality
- Lack of modern systems in many countries
- Onerous registration procedures and low registration
- Low coverage of registries
- Governments fail to manage land to generate public revenues
- Land sector disproportionately occupied by state actors / elites
- Shrinking space for civil society engagement
- Little collaboration among sectors (e.g. climate experts, planners, surveyors)

INTERNATIONAL FRAMEWORKS AND MODELS





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INTERNATIONAL FRAMEWORKS AND MODELS

Land administration is shaped by international standards and best practices developed by organizations like UN-Habitat, FAO, FIG, UN-GGIM.

This section introduces the current major frameworks:

- Food and Agriculture Organization (FAO) <u>V</u>oluntary <u>G</u>uidelines on the Responsible <u>G</u>overnance of <u>T</u>enure of Land, Fisheries and Forests in the Context of National Food Security (VGGTs).
- Fit-For-Purpose Land Administration (FFP LA)
- Land Administration Domain Model (LADM)
- United Nations Global Geospatial Information Management (UN-GGIM) Framework for Effective Land Administration (FELA)

These models promote transparent, inclusive, and interoperable systems.

FAO VOLUNTARY GUIDELINES (VGGTS)

The <u>Voluntary Guidelines</u> on the Responsible <u>Governance</u> of <u>Tenure of Land, Fisheries and Forests in the Context of National Food Security (VGGTs) provide principles for the responsible governance of tenure. Developed by FAO in collaboration with governments and civil society, they:</u>

- Promote secure access to land, fisheries, and forests
- Emphasize transparency, equity, and accountability
- Integrate tenure with food security and sustainable development

FAO. 2022. Voluntary Guidelines on the Responsible Governance of Tenure of Land, Fisheries and Forests in the Context of National Food Security. First revision. Rome. https://doi.org/10.4060/i2801e

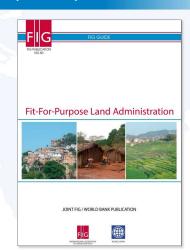
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FAO VOLUNTARY GUIDELINES (VGGTS) VGGTs are widely used to guide policy reforms. Implementation tools include national الخطوط التوجيهية الطوعية بشأن assessments, legal reviews, and capacity **VOLUNTARY GUIDELINES ON THE** الحوكمة المسبؤولة RESPONSIBLE building. **GOVERNANCE OF TENURE** في سياق الأمن الغذائي الوطن OF LAND, FISHERIES AND FORESTS IN THE CONTEXT OF NATIONAL FOOD SECURITY The VGGTs align with the Sustainable Development Goals (SDGs) and support good land governance. anniversary of the VGGT These Guidelines were endorsed by the CFS at its Thirty-eighth (Special) Session in May 2012

FIT-FOR-PURPOSE LAND ADMINISTRATION (FFP LA)

A fit-for-purpose approach includes the following elements:

- Flexible in the spatial data capture approaches to provide for varying use and occupation.
- Inclusive in scope to cover all tenure and all land.
- Participatory in approach to data capture and use to ensure community support.
- Affordable for the government to establish and operate, and for society to use.
- Reliable in terms of information that is authoritative and up-todate.
- Attainable to establish the system within a short timeframe and within available resources.
- Upgradeable with regard to incremental improvement over time in response to social and legal needs and emerging economic opportunities



http://www.fig.net/pub/figpub/pub60/figpub60.htm



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FIT-FOR-PURPOSE - WHAT IS IT?

- Fit-For-Purpose Designed for serving the basic purposes - provide secure tenure for all, control of the use of land
- Flexibility Scale and accuracy relate to geography, density of development, and budgetary capacity; the legal and institutional framework should be designed to accommodate both legal and social tenure rights
- Incremental Improvement Meet basic needs today , incremental upgrading





LAND ADMINISTRATION DOMAIN MODEL

LADM is a detailed data model that defines the structure, content, and relationships between different types of land-related data. It provides a common language for describing land administration information and facilitates interoperability between different systems

INTERNATIONAL 1SO 19152

Front edition 2012-12-09

Geographic information — Land Administration Domain Model (LADM)

Information pleaguague — Modelle du domaine de l'autenisidation des traves (LADM)

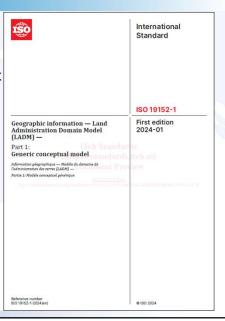
Reference number de 1918-1919 (1918) (19

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LAND ADMINISTRATION DOMAIN MODEL

LADM is the ISO 19152 standard that provides a unified model for describing land administration data. It

- Parties (people, organizations)
- Rights, Restrictions, Responsibilities (RRRs)
- Spatial units (parcels, areas)



LAND ADMINISTRATION DOMAIN MODEL LADM EDITION II MULTIPART

LADM supports software development for land registries. It enables modular systems that are interoperable and scalable. Extensions include:

- Valuation - Marine spaces - Planning and land use

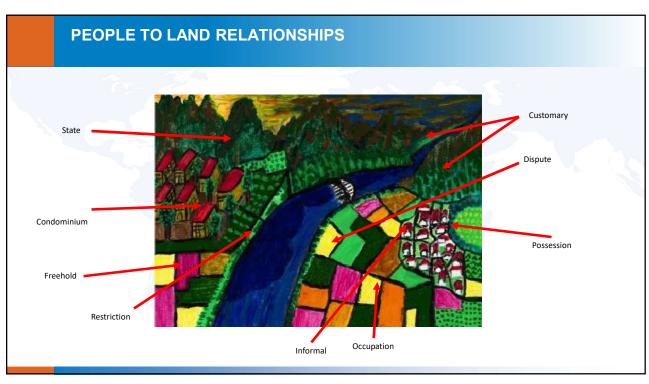
PART 1 – Land Administration Fundamentals

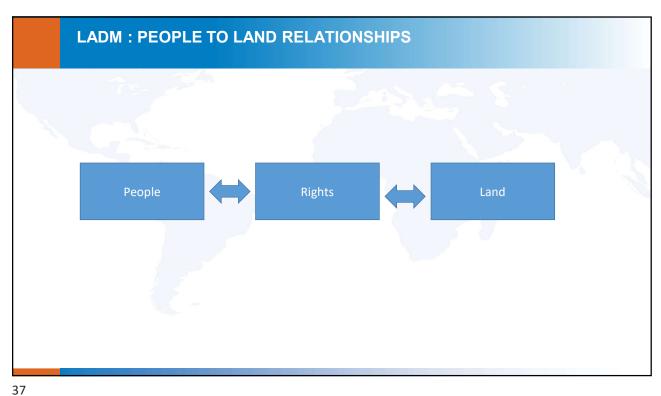
PART 2 – Land Registration PART 3 – Marine Space Geo Regulations

PART 4 – Valuation Information PART 5 – Spatial Plan Information

PART 6 – Implementations

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LADM: PEOPLE: RIGHHOLDER-TYPES

Natural Person

- Individual
- Group with non-defined membership/Tribe
- Group/Family
- Group of groups
- Natural Person
- Married couple

Non Natural Person

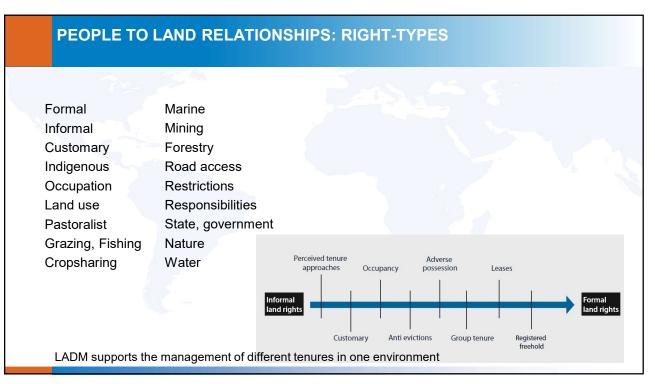
- Village
- Municipality
- Ministry/State
- Farmers co-operatives
- Company
- **Religious Community**

SPATIAL UNITS: TYPES AND WAYS OF REPRESENTATION

- Parcel
- Apartment
- Building
- Customary Area

- One Point inside polygon
- One point street axes
- · Set of Lines
- Polygon (low accuracy)
- Polygon (high accuracy)
- 3D Volume

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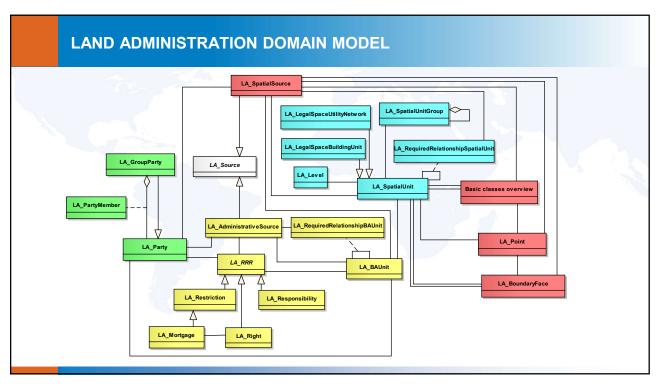
LADM RRR CLASSES

Right: action, activity or class of actions that a system participant may perform on or using an associated resource

Restriction: formal or informal entitlement to refrain from doing something

Responsibility: formal or informal obligation to do something

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UN-GGIM FELA FRAMEWORK FOR EFFECTIVE LAND ADMINISTRATION

Framework for Effective Land Administration (FELA)

A reference for developing, reforming, renewing, strengthening, modernizing, and monitoring land administration. FELA seeks to provide the reference and guidance for Member States when establishing, strengthening, coordinating and monitoring their land administration nationally or sub-nationally.

The Framework is developed for all countries, both developing and developed, all jurisdictions and all other stakeholders.

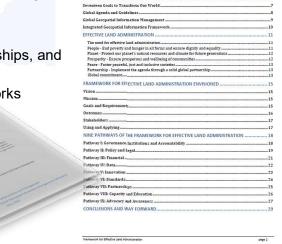
Prepared by: Expert Group on Land Administration and Management United Nations Committee of Experts on Global Geospatial Information Management

(UN-GGIM) - May 2020

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FELA provides a global reference for designing effective land administration systems. Developed by the UN-GGIM, it emphasizes:

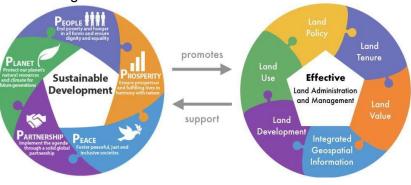
- People-centered and transparent systems
- Strategic pathways for governance, partnerships, and innovation
- Alignment with global development frameworks



FELA FRAMEWORK FOR EFFECTIVE LAND ADMINISTRATION

FELA encourages governments to develop modular and interoperable land data infrastructures. Its pillars include:

- Institutional frameworks
- Legal and policy alignment
- Technological innovation and integration



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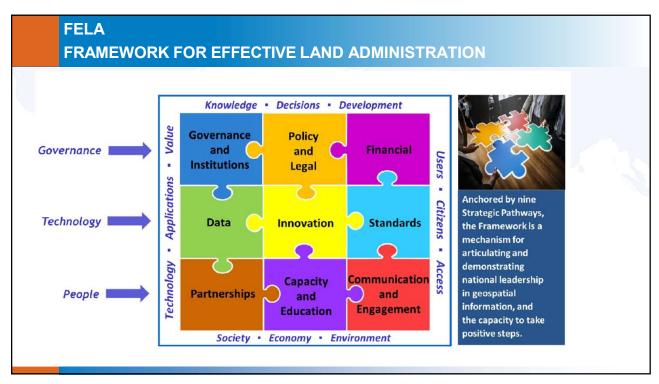
FELA FRAMEWORK FOR EFFECTIVE LAND ADMINISTRATION

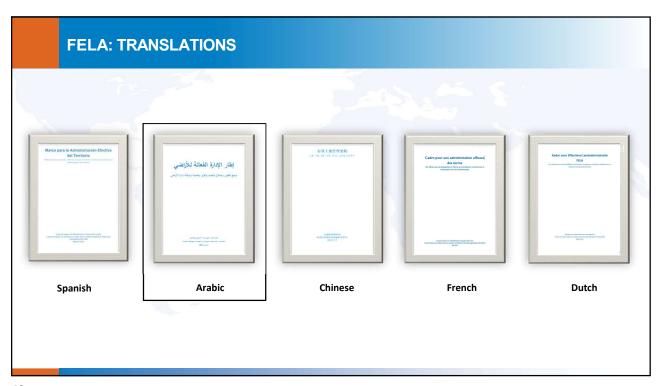


The Framework for Effective Land Administration (FELA), acts as an overarching policy guide, which provides a reference for Member States when developing, renewing, reforming, strengthening, modernizing, or monitoring land administration.

FELA with nine pathways aligned to the nine strategic pathways of the IGIF, seeks to provide the reference and guidance for Member States with regard to administering the relationships between people and land, and when establishing, strengthening, coordinating and monitoring their land administration nationally or sub-nationally.







RESOURCES

FAO VGGTs:

https://www.fao.org/tenure/voluntary-guidelines/en

UN-GGIM FELA

https://ggim.un.org/meetings/GGIM-committee/10th-Session/documents/E-C.20-2020-29-Add_2-Framework-for-Effective-Land-Administration.pdf

- Fit-For-Purpose Land Administration https://www.fig.net/resources/publications/figpub/pub60/Figpub60.pdf
- ISO 19152 LADM

https://www.iso.org/standard/51206.html







THANK YOU! For more information visit: arablandinitiative.gitn.net www.gitn.net www.unhabitat.org مالاراضي العربية المربية المرب