Framework for Effective Land Administration (FELA)

Unlocking FELA

A global dialogue on land administration 17th July 2025, Online

Presentation is based on documents and presentations from UN-GGIM and EuroSDR

https://ggim.un.org; http://www.eurosdr.net





The Committee of Experts transmitted to ECOSOC its report, pursuant to resolution E/RES/2016/27 entitled 'Enhancing global geospatial information management' (E/2022/68) in June 2022. The comprehensive report described the process of 'transition' marking the Committee's work, starting with an initial five-year period (2011 - 2016) on initiated/establishment; the report then detailed its second five-year period (2017-2021) on institutionalization; and then considers the Committee's future in the coming five-year period - on implementation of the Committee's frameworks, anchored by the UN-IGIF.



Source: https://ggim.un.org/meetings/2025/Maputo/documents/l-1.1_UN-GGIM_Mandates.pdf by Guillaume Le Sourd

The Committee of Experts transmitted to ECOSOC its. report, pursuant to resolution E/RES/2016/27 entitled 'Enhancing global geospatial information management' (E/2022/68) in June 2022. The comprehensive report described the process of 'transition' marking the Committee's work, starting with an initial five-year period (2011 - 2016) on initiated/establishment; the report then detailed its second five-year period (2017-2021) on institutionalization; and then considers the Committee's future in the coming five-year period - on implementation of the Committee's frameworks, anchored by the UN-IGIF.



UN-GGIM Global Geospatial Frameworks

2030 AGENDA FOR SUSTAINABLE DEVELOPMENT

Sendai Framework for Disaster Risk Reduction 2015-2030 Paris Agreement on Climate Change SDGs Geospatial Roadmap INTEGRATED GEOSPATIAL INFORMATION FRAMEWORK (IGIF)

Strategic Framework on Geospatial Information and Services for Disasters Global Statistical Geospatial Framework (GSGF) Framework for Effective Land Administration (FELA)

SAMOA Pathway for SIDS Addis Ababa Action Agenda

Habitat III New Urban Agenda

Our Ocean, Our Future: Call for Action Global Fundamental Geospatial Data Themes

Global Geodetic Reference Frame (GGRF)

National Institutional Arrangements in Geospatial Information Management

Role of Standards in Geospatial Information Management

Compendium on Licensing of Geospatial Information

Statement of Shared Guiding Principles for Geospatial Information Management



Source: https://ggim.un.org/meetings/2025/Maputo/documents/l-1.1_UN-GGIM_Mandates.pdf by Guillaume Le Sourd

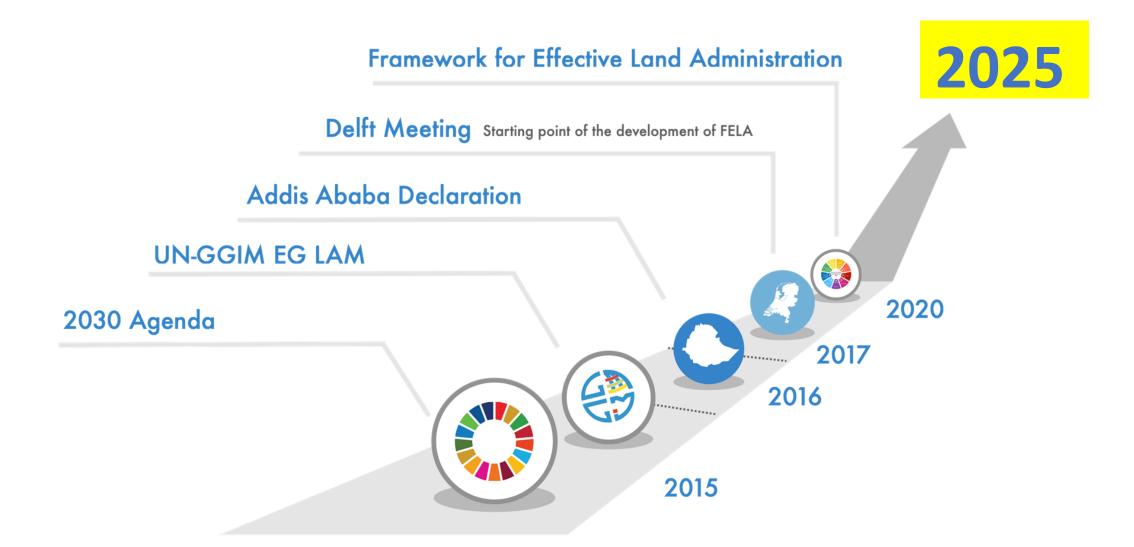


Sustainable development demands effective land administration





Sustainable development demands effective land administration





Sustainable development demands effective land administration

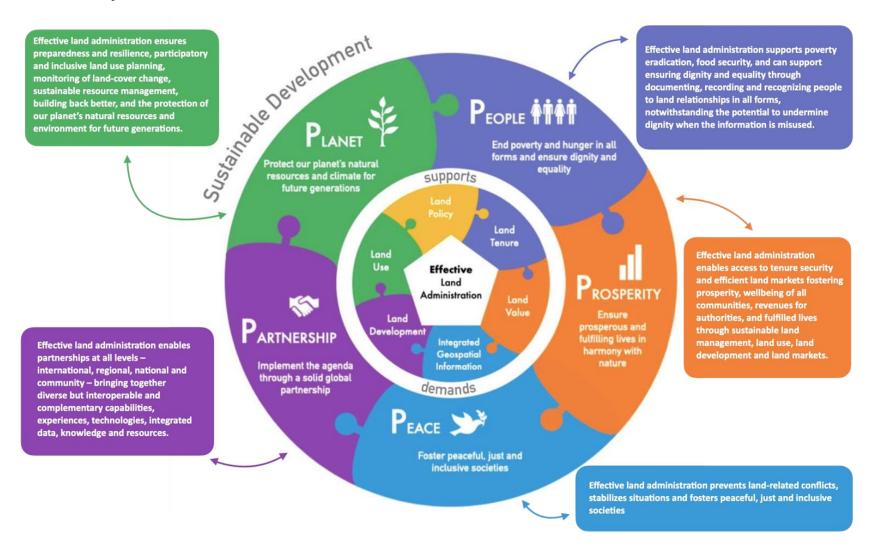


Figure: FELA in relation to the 5Ps, adapted from (UN-GGIM, 2020) by Unger, E.M.



Sustainable development demands effective land administration



Figure: FELA in relation to the 5Ps, adapted from (UN-GGIM, 2020) by Unger, E.M.



Sustainable development demands effective land administration

2025 Systalia Development 1.3 million km2 of forest lost Only 30% of the worlds population has Effective land administration ensures documented or legally recognised land between 1990-2020 (FAO 2020) preparedness and resilience, participatory rights (World Bank 2017) eradication, food security, and can support and inclusive land use planning, monitoring of land-cover change, ensuring dignity and equality through 24 billion tonnes of fertile soil lost Less than 15% of landowners globally are documenting, recording and recognizing people sustainable resource management, annuallz (UNCCD 2022) women (FAO 2022) to land relationships in all forms, building back better, and the protection of PEOPLE *** notwithstanding the potential to undermine our planet's natural resources and Land degradation affects 3.2 billion dignity when the information is misused. Only 10% of rural land in Sub-Saharan environment for future generations. Africa is formally registered (UN-Habitat people (UNCCD 2022) End poverty and hunger in all forms and ensure dignity and equality supports Land **Effective land administration** Land registration can increase Use enables access to tenure security **Effective** value by 200% (World Bank 2006) Land ROSPERITY prosperity, wellbeing of all Administration Over 60% of urban land authorities, and fulfilled lives Land PARTNERSHIP transactions in African cities occur prosperous and through sustainable land Less than 40% of countries ulfilling lives in informally (UN-Habitat 2016= Integrated Geospatial Information management, land use, land Effective land administration enables harmony with regularly report on land indicators partnerships at all levels -Implement the agenda for SDGs (1.4.2, and 5.a.1) international, regional, national and through a solid global (UN-GGIM 2022) community - bringing together demands partnership diverse but interoperable and complementary capabilities, Many countries lack capacity in PEACE > experiences, technologies, integrated cadastre, geospatial data, and land data, knowledge and resources. 50-80% of civil disputes in some valuation (FAO/World Bank 2021) countries are land-related Foster peaceful, just and (USAID 2014) inclusive societies Effective land administration prevents land-related conflicts, Over 70 million people are forcibly stabilizes situations and fosters peaceful, just and inclusive displaced globally, many due to land or resource conflict (UNHCR 2023) Where are we now? FELA in relation to the 5Ps, by Morscher-Unger, E.M.



Sustainable development demands effective land administration

Effective land administration caters to all people, and must:

- Develop confidence and trust, promote security, safety, peace and peace building;
- Accelerate the proportion of population with tenure security;
- Allow economic development by supporting land value capture revenue systems that are equitable and transparent;
- Strengthen multi-disciplinary and multi-sectoral participation to achieve integrated geospatial information;
- Contribute to smart and resilient rural and urban societies, with equitable spatial/land vuse planning, and land development;
- P Ensure participatory and inclusive land use, and land use planning;
- Promote the recognition of the inherent rights of indigenous and vulnerable peoples to their lands, territories and resources, and recognise collective traditions, customs and customary tenures, consistent with existing obligations under national and international law:
- Encourage efficient, sustainable and fair land markets, where appropriate, that take into account land tenure, value, use and land development aspects;
- Cater to all circumstances, situations and people in times of peace and prosperity, in times of stress and hardship (including disaster and conflicts, forced migration and human displacement, poverty, food and water scarcity);
- © Enable partnership, bringing and building together knowledge, skills and experiences on land tenure, land value, land use and land development; and
- Promote preparedness and resilience on climate change issues and support biodiversity, conservation and ecosystem sustainability.

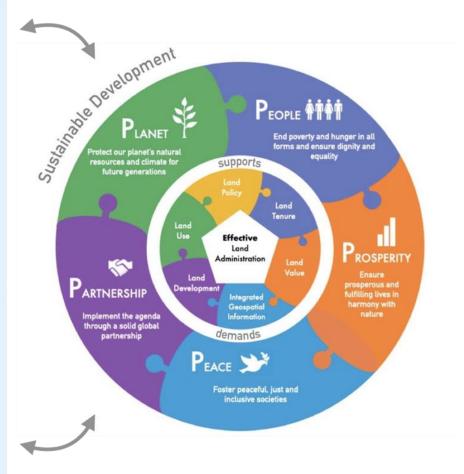
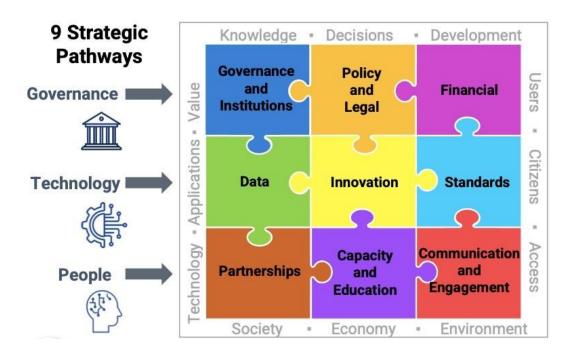


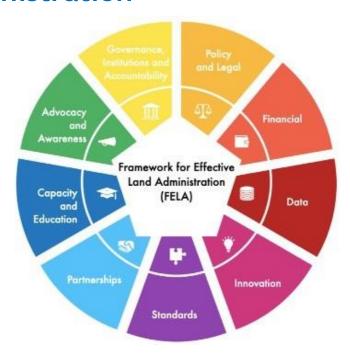
Figure: Effective Land Administration, adapted from (UN-GGIM, 2020) by Unger, E.M.



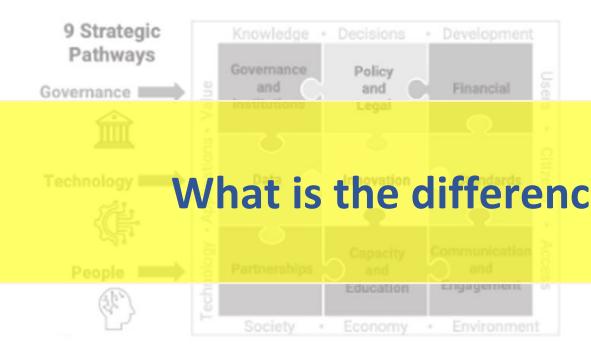
- Overarching Framework adopted at 8th Session (2018)
- Implementation Guide 2020 adopted at 10th Session
- 9 Strategic Pathways
- 36 Key Elements

• IGIF

Framework for Effective Land Administration



- Adopted at 10th Session (2020)
- No Implementation Guide
- 9 Pathways FELA is fully aligned with the IGIF*
 *I: Accountability; IX: Advocacy and Awareness
- FELA implements the IGIF for the land sector
- FELA



- Overarching Framework adopted at 8th Session (2018)
- Implementation Guide 2020 adopted at 10th Session
- 9 Strategic Pathways
- 36 Key Elements
- IGIF

Framework for Effective Land Administration



- Adopted at 10th Session (2020)
- No Implementation Guide
- 9 Pathways FELA is fully aligned with the IGIF* *I: Accountability; IX: Advocacy and Awareness
- FELA implements the IGIF for the land sector

Framework for Effective Land Administration

9 Strategic Pathways



IGIF is an umbrella framework and when you work with the IGIF and entering the domain of land administration you can work with the FELA because it is all part of the puzzle.

When implementing the IGIF at the country-level FELA is preferred when we have to address land and property rights, as FELA references land related guidelines/publications and standards.

- Implementation Guide 2020 adopted at 10th Session
- 9 Strategic Pathways
- 36 Key Elements
- IGIF

- No Implementation Guide
- 9 Pathways FELA is fully aligned with the IGIF
 - *I: Accountability; IX: Advocacy and Awareness
- FELA implements the IGIF for the land sector
- FELA

Framework for Effective Land Administration



Why is IGIF talked about/applied/promoted often



- Overarching Framework adopted at 8th Session (2018)
- Implementation Guide 2020 adopted at 10th Session
- 9 Strategic Pathways
- 36 Key Elements

- Adopted at 10th Session (2020)
- No Implementation Guide
- 9 Pathways FELA is fully aligned with the IGIF* *I: Accountability; IX: Advocacy and Awareness
- FELA implements the IGIF for the land sector

Framework for Effective Land Administration





Policy ond Lagal



Technology I



today's challenges?



- Overarching Framework adopted at 8th Session (2018)
- Implementation Guide 2020 adopted at 10th Session
- · 9 Strategic Pathways
- 36 Key Elements
- IGIF

- Adopted at 10th Session (2020)
- No Implementation Guide
- 9 Pathways FELA is fully aligned with the IGIF*
 *I: Accountability; IX: Advocacy and Awareness
- FELA implements the IGIF for the land sector
- FELA

Current Gaps and Challenges of FELA

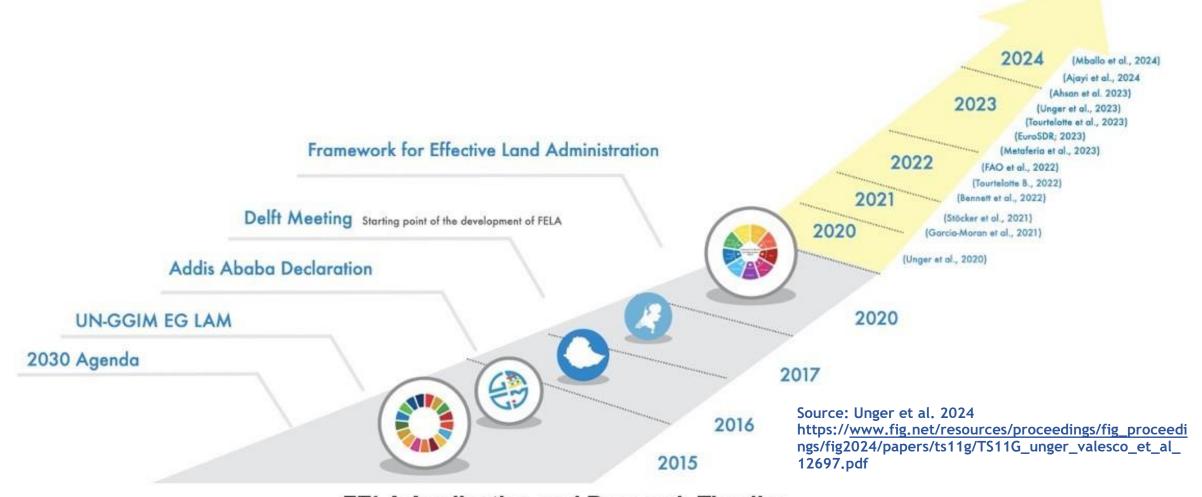
- Overlap with IGIF and lack of clear differentiation
- Limited awareness among stakeholders and practitioners what can you actually do with it
- Absence of implementation tools and country level guidance would that be needed or too
 much duplication of IGIF? or better to ask what is missing in IGIF specifically for Land
- Insufficient alignment with donor strategies and funding priorities though WB/FAO etc. were included
- Update needed? Tech, AI, map production, marine, space...

Unique Value Proposition

- It is an adopted UN Framework
- FELA provides a policy level perspective on institutional coordination etc. Unlike more technical or thematic frameworks
- FELA focuses on institutional effectiveness and strategic alignment
- FELA promotes and links to other policies, guidelines etc.



Sustainable development demands effective land administration

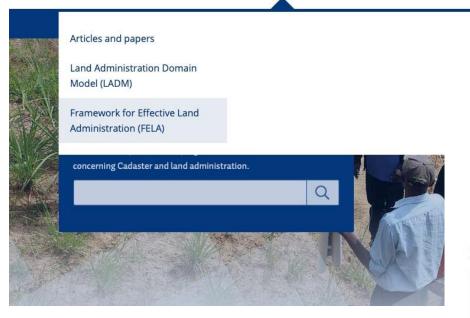


FELA Application and Research Timeline









Find articles, research papers and documents on the application of the Framework for Effective Land Administration (FELA). The United Nations uses the FELA as a policy guide for UN member states.

31 documents matched your search query.

<u>Land 2024, 13, 528 - Navigating the Terrain of Digital Transition: Ghana's Journey of Developing a Digital Land Information System</u>

Author: Rosemond Owusu Ansah, Zaid Abubakari, Benjamin Quaye, Dimo Todorovski, Chipofya Malumbo, Christiaan Lemmen (2024)

Marco para la Administración Efectiva del Territorio Referencia para desarrollar, reformar, renovar, fortalecer, modernizar y monitorear la administración del territorio

Author: UNGGIM (2020)

Leveraging FELA Sharing examples from the Netherlands

Author: Paula Dijkstra (2022)



Articles and papers 🔺

rents About us 🔻

UPDATE needed - Repository of FELA Application and Implementation Model (LADM) Framework for Effective L General del Administration (FELA) Catastro UFSC (Federal Congress of Multifinalial Cadastre and España. International and national frameworks that link the Multifinality Amalia Velasco, Mari University of Santa Territorial Management - COBRAC Territorial Cadastre with the Sustainable Development Goals Piumetto de Córdoba English concerning Cadaster and la MEETING 2024 Framework for Effective Land Administration (WG7.1 FELA) + Fit for Purpose Land Fit-for-Purpose Land Administration Solutions from Trimble https://fig.net/resour_Showcasing Fit-for-Purpose Land Administration Solutions from Trimble. FIG COMMISSION 5, 7 ANNUAL MEETING 2024 Framework for Effective Land Administration (WG7.1 FELA) + Fit for Purpose Land Where things are at with the FELA Working group 24-26 September-2024 MEETING Sarawak Malaysia Administration (WG7.2 FFPLA) https://fig.net/resour In 2024, the working group actively promoted the FELA through events, workshops, and publications, focusing on real implementation FIG COMMISSION 5, 7 ANNUAL MEETING 2024 Framework for Effective Land Administration (WG7.1 Kean Huat Soon & Victor 24-26 September-2024 MEETING Sarawak Malaysia tration (WG7.2 FFPLA) A prilminary UN-GGIM Work to integrate Land and Sea Authority https://fig.net/resour The UN-GGIM, through EG-LAM and other groups, is developing a phased guidance paper on integrating terrestrial, maritime, built, an FIG COMMISSION 5, 7 ANNUAL MEETING 2024 Framework for Effective Land Administration (WG7.1 FELA) + Fit for Purpose Land From no Cadastre to 3D Cadastre: The evolving role of THE SWEDISH PCC + CLRKEN Permanent Committee on Cadastre in MAPPING, 17-19 June-2024 Conference Brujes, Belgium the European Union (PCC) mework for Effective Land Administration (FELA) Amalia Velasco UN-GGIM Eva-Maria Unger , Amalia FIG Woorking Week 2024 - Land Policy Framework for Effective Land Administration (FELA) /alesco, Joep Crompvoets 19-24 May-2024 Congress Accra. Ghana Issues and Innovations and Rohan Bennett https://www.fig.net/n the espeakers examine the global adoption and impact of the FELA, highlighting its integration into national land systems. It analyzes Opeyemi Michael Ajayi, AALTO FIG Woorking Week 2024 - Land Policy Kirsikka Riekkinen & 19-24 May-2024 Finland UNIVERSITY English https://www.fig.net/n The speakers evaluate Nigeria's land administration system through the lens of the FELA, focusing on technology integration. It review Congress Accra Ghana Issues and Innovations Exploring Technology Integration Through FELA in Nigeria Oluwafemi Adekola Effective Land Administration (FELA): a Case Study for Mamadou Mballo, Serge FIG Woorking Week 2024 - Land Policy Customary Land Registry Implementation in the Democratic Vuteghal Gitau John, Oumar Republic of Congo **UN-Habitat** 19-24 May-2024 Sylla & Hellen Ndung'u GLTN https://www.fig.net/n This case study examines the implementation of the Framework for Effective Land Administration (FELA) in the Democratic Republic of Fifth meeting of the Expert Group on Land Administration and Management The Lands and the International Seminar on and Survey 8-11 April-2024 LINLOGIM CPCI Leandre Murrell-Forde https://ggim.un.org/r The speaker outlines Barbados implementation of the FELA through digital transformation initiatives. Key projects include the National i Fifth meeting of the Expert Group on

Leveraging FELA Sharing examples from the Netherlands

Author: Paula Dijkstra (2022)



Implementing the Framework for Effective Land Administration

EuroSDR with the support of UN-GGIM Europe and the UN-GGIM EG-LAM, initiated a small project in summer 2021 to raise awareness of the merits and benefits of effective land administration and to share knowledge and experience leveraging the FELA as overarching policy guidance



- Joep Crompvoets, KU Leuven, Belgium
- Anka Lisec, University of Ljubljana, Slovenia
- Frédéric Cantat, IGN, France



- Eva-Maria Morscher- Unger, Kadaster, the Netherlands
- Rohan Bennett, Kadaster, the Netherlands

Survey Results

UN-GGIM FELA Pathways on Data, Innovation and Standards



Introduction

This infographic presents key insights from the EuroSDR Survey of the UN-GGIM FELA Pathways on Partnerships, Capacity and Education, and Advocacy and Awareness in land administration. Explore how organisations manage essential land data, drive innovation, and adopt international standards to enhance interoperability and integration.

Participation

In this EuroSDR initiative > 32 organisations from 22 European countries participated.



In total

22

Countries participated

Quick Facts

85% of organisations manage parcel data 78% continuously monitor data security



Survey Results

UN-GGIM FELA Pathways on Data, Innovation and Standards

UN-GGIM FELA Pathway: Data

Land Data Themes Coverage











Buildings Addresses Land Use Others.. **Parcels**

"Parcels" is the most prominent theme at 84.85%, with high percentage themes like "Buildings" and "Addresses" also being essential. In contrast, lower-percentage themes, such as "Land Use" at different levels at 21.21% are less commonly managed. The "Others" category (24.24%) includes niche data such as cable and pipelines etc.

Data Security Organised

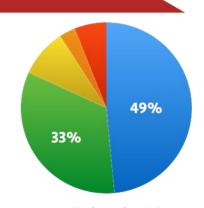
Organisational Level: 49%

Country Level: 33%

Partially Outsourced: 9%

Outsourced: 3%

Other: 6%



Most organisations manage data security internally (49%), while 33% use centralised, country-level control. A small number outsource security fully (3%) or partially (9%).

UN-GGIM FELA Pathway: Innovation

Sources of Innovation Process



Government Requests: 45%

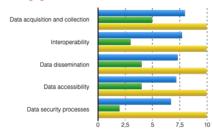


Innovation Board: 36%



Property Citizen Requests: 30%

Opportunities for Innovations



The participating organisations saw many opportunities for innovations, particularly in the domain of data acquisition and data collection processes and in the domains related to interoperability, but fewer opportunities are associated with data dissemination and security.



Survey Results

UN-GGIM FELA Pathways on Data, Innovation and Standards

UN-GGIM FELA Pathway: Standards

Spectrum of engagement with standardisation

Initial planning phase

Well-established engagement

Suggesting ongoing global efforts to enhance data and technology standards are critical for efficient land administration and management. Room for some organisation to improve their coordination practiced to enhance overall standardisation processes in their specific country.

Participation in standardisation organisation



66.67%



63.64%



60.61%



9.09%

Others

21.21%

Conformity with FELA Goals and Requirements



Data

Goal - Reliable data and service quality attained: conform Requirement - Data maintained, secure and not duplicated: partial conform



Goal - Responsible and innovationoriented: partial conform Requirement - Upgradable system and approaches: partial conform



Standards

Goal -Interoperability and integration supported: partial conform Requirement - Considers internationally agreed standards: conform

Authors





Implementing the Framework for Effective Land Administration

SIGFU and FELA's key strategic pathways

Assessment of current progress applied to Ivory Coast Urban Land Administration



Facts

SIGFU Decree: implementation of institutional land administration policy through the implementation of SIGFU

Project monitoring and audits by the Prime Minister's Office

Potential reduction of corruption through full process automation and securing of land and spatial data



2 Law and Policy

New laws and regulations: Urban land code Massive titling reform Unique parcel identifier



Fivefold increase in direct revenue thanks to the implementation of new processes and LIS

Strong investment in land administration technology infrastructure

Affordable and accessible land services (portal and e-payment)

1 Governance, Institutions and Accountability



4 Data (and Processes)

Full up to date urban high resolution digital cartography

Digitalization and integration of textual and spatial land information Data sharing with institutions and partner agencies



5 Innovation

Integration of state of the art geospatial data and processes

High capacity digitalization processing chain integrated in the LIS

New geodetric reference system integrated into ITRF

Acquisition of high technology tools for survey, mapping and land processes



6 Standards

Various founadtional standards established and applied:

LADM

IDUFCI (unique parcel identifier)

Exchange of information between land administation institutions

Precision classes for topographic surveys and geodetic operations

New geodetic reference netzork



Joint actions between MCLU and finance ministers for the modernization aof land administration processes

Involvement of all reebant agencies for the establishment of norms and standards

Participation of boards of surveyors, urbanists, notaries, banks



Group o 600 personnel from land administration entities trained on the principles and usage of the LIS

Training of professionals on the use of new techiques and ability to benefit from the system

Sustaiability and retention of sdkilled personnel is stil a challenge



9 Advocacy and Awareness

Many communication campaigns anf awareness activities have been realized

Internal communication still to improve

Engagement and adoption of the new prcesses and system by the land administration personnel – work in progress



8 Capacity and Education

Slide from: Making land information systems the cornerstone of FELA implementation in Africa by Aurélia Decherf & Jean-Philippe Lestang, IGN FI

Possible Impact of such initiatives/implementations

- Provide evidence-based insights to the GGIM CoE on emerging trends, successful practices and existing gaps in LA
- UN Member States initiate/guide future/update of FELA through request—statements to the EG-LAM during High Level Meetings
- WB/FAO/FIG/EuroSDR/Eurogeographics etc. to take a more prominent role (through the MS) to guide these developments?
- Generate actionable knowledge to support and influence the post 2030 Agenda
- ...



Sustainable development demands effective land administration

Practical recommendations from EuroSDR FELA Workshop in June 2025, Paris

1. EuroSDR Questionnaire

- Tailor questionnaires to different stakeholder groups (e.g. scientists, academics).
- Redefine questions if reused in different context/region—ensure clarity on what results are expected.

2. Engagement & Stakeholder Involvement

- Some stakeholders feel excluded: "This is not our document nobody asked us."
- Better representation of different languages and contexts Important to speak the language of others

3. Capacity Building & Education

- FELA as a reference framework, not a tool needs contextual adaptation.
- Initial result of FELA should be mutual understanding across countries.

4. Data for SDGs & Impact Analysis

- Use SDG time series data to track, Environmental impact, Financial impact, Dynamics and trends over time
- Need clear benchmarks and effective ways to present data

5. Working Group Results

- Collaborate with entities like FIG to expand the Cadastral Template with FELA.
- WPLA has past guidelines leverage them by using FELA.

6. Strategic Alignment & Partnerships

- Several times suggestion to combine FELA with Cadastral Template, work with: FIG C7 WB (World Bank) and FAO
- FELA should be enhanced with country-specific examples -Consider FELA in post-2030 agenda.

7. Knowledge Dissemination & Communication

- FELA as a living document: Include recommendations or trends per pathway, Should be a digital living version.
- Submit FELA-related papers to OICRF repository

Introduction to the UN-GGIM Framework for Effective Land Administration



iments and presentations from UN-GGIM and

EuroSDR http://www.eurosdr.net

Presented by: Eva-Maria Morscher-Unger, Kadaster, the Netherlands

