

Presented at the FIG Congress 2022,  
11-15 September 2022 in Warsaw, Poland

Kadaster



# Support Activities for the Development of a Sustainable Geospatial Information Management by Kadaster

presented by Dr. Eva-Maria Unger

## Global Development Frameworks

## UN-GGIM Global Geospatial Frameworks

2030 AGENDA FOR SUSTAINABLE DEVELOPMENT

INTEGRATED GEOSPATIAL INFORMATION FRAMEWORK (IGIF)



Sendai Framework for Disaster Risk Reduction 2015-2030

Paris Agreement on Climate Change

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*



# UN-GGIM

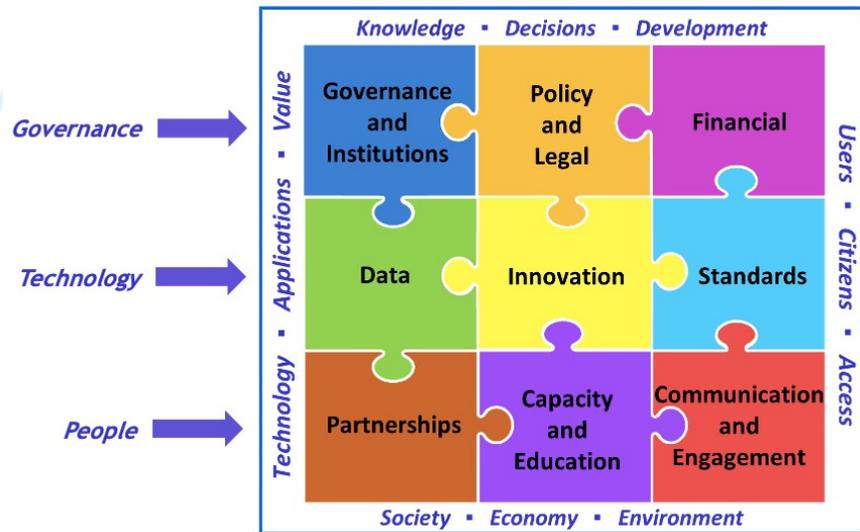
United Nations Committee of Experts on Global Geospatial Information Management



# UN-GGIM Global Geospatial Frameworks

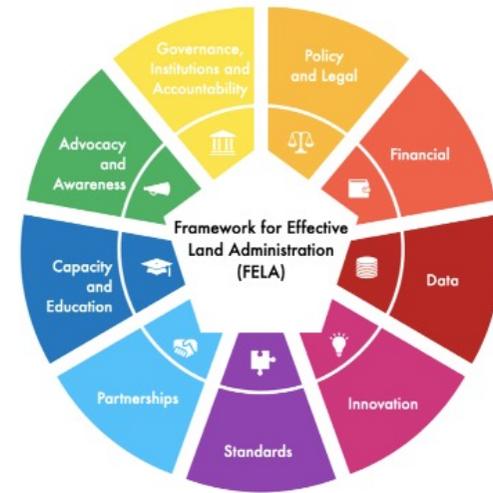
Sustainable development demands effective land administration

## Integrated Geospatial Information Framework



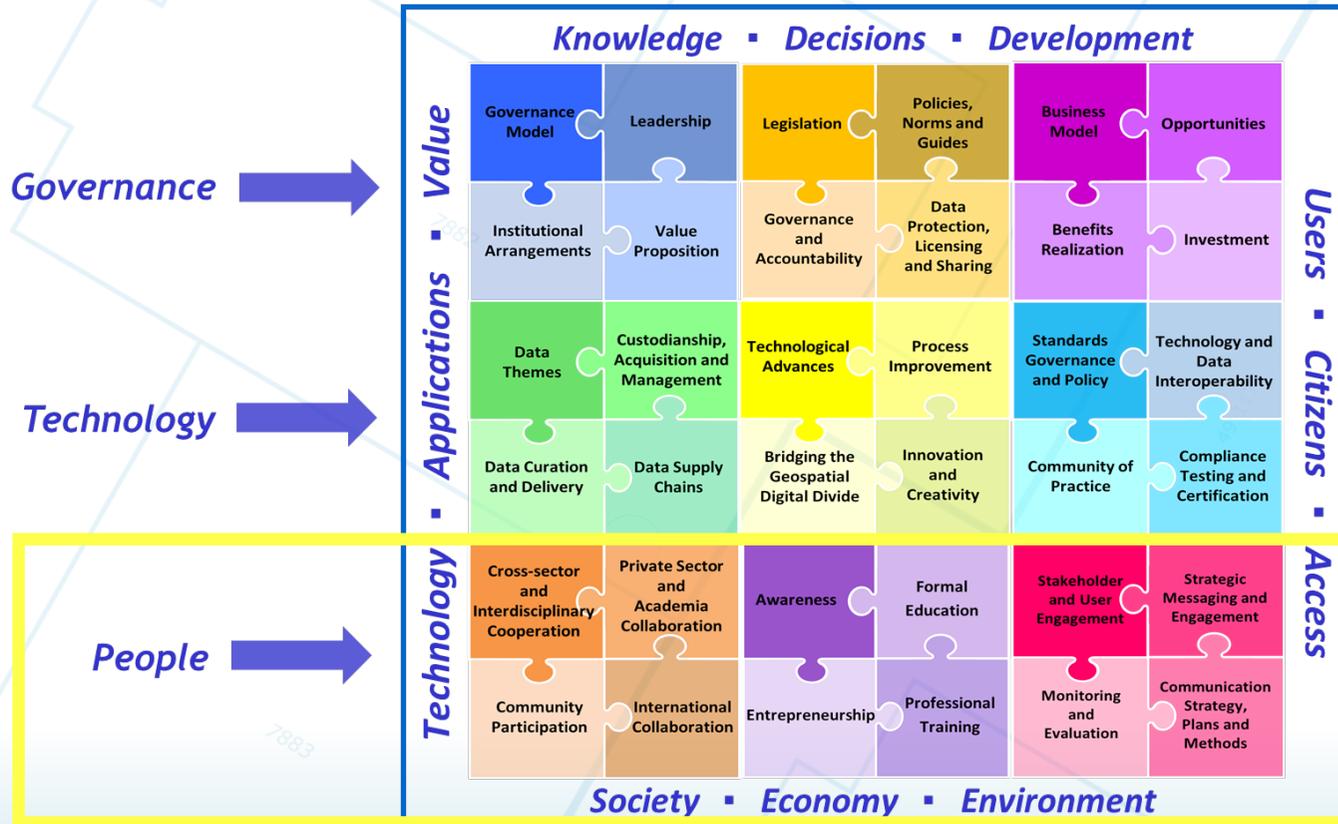
- Overarching Framework adopted at 8<sup>th</sup> Session
- Implementation Guide 2020 adopted at 10<sup>th</sup> Session
- 9 Strategic Pathways
- 36 Key Elements
- [IGIF](#)

## Framework for Effective Land Administration



- Adopted at 10<sup>th</sup> Session
- FELA is fully aligned with the IGIF\*
- \*I: Accountability; IX: Advocacy and Awareness
- FELA implements the IGIF for the land sector
- [FELA](#)

# Integrated Geospatial Information Framework



# The Netherlands supports towards the Implementation



## Online Webinar Series with StateGeoCadaastre Ukraine November 23rd to 25th 2020



### Aim

To undertake several collaborative deep-dives, via webinars, into specific IGIF strategic pathways, and the Implementation Guide, as they may apply to Ukraine.

The webinars focused on the IGIF strategic pathways:

Strategic Pathway 4: Data,

Strategic Pathway 6: Standards; and

Strategic Pathway 9: Communication and Engagement.

**Participants:** around 25 - 30 participants

# The Netherlands supports towards the Implementation



## IGIF Workshop under SPATIAL II

Skopje, North Macedonia February 4th to 8th 2020



### Aim

Workshop aimed to introduce participating organizations to the IGIF in terms of overarching aim, structure, content, implementation, and further its use within a given organisational context, and across the Western Balkan region more generally. It provided also a contemporary and useful exchange and shared language for the upcoming work in SPATIAL II.

### Participants and Partnering Organisation: around 25 - 30 participants

- State Authority for Geospatial Information from Albania
- Federal Administration for Geodetic and Property Affairs from Bosnia – Herzegovina
- Republic Administration for Geodetic and Property Affairs from Republika Srpska
- Kosovo Cadastral Agency
- Real Estate Administration from Montenegro
- Republic Geodetic Authority from Serbia
- State Cadastre Agency from Albania
- Agency for real estate cadastre
- Eurogeographics
- Kartverket
- Lantmäteriet



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## FELA – Digital Transformation Jakarta, Indonesia – project ongoing

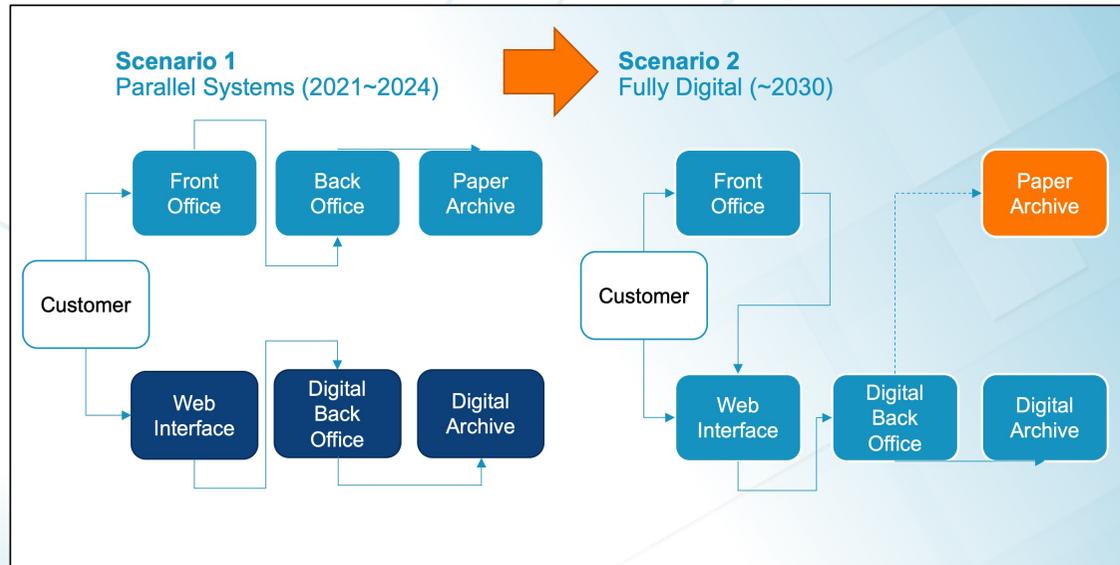
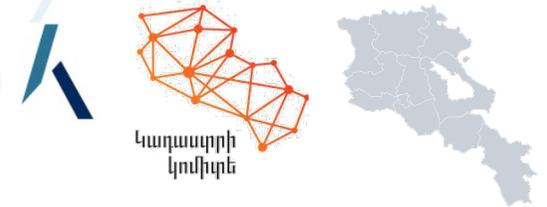


Pathway	Opportunities and Challenges
<b>Governance, Institutions and Accountability</b>	<b>Vision</b> for ATR/BPN digital transformation that is holistic Digital transformation <b>champions</b> at multiple levels <b>Alignment</b> of digital strategies with ATR/BPN and with external stakeholders
<b>Law and Policy</b>	Legislative and regulatory <b>harmonisation</b> Assessment of a <b>positive system</b> of land registration Ensuring workable, enforceable, and are adequately <b>resourced law</b>
<b>Finance</b>	<b>Sustainable business model</b> post-2025 <b>Government business enterprise</b> model exploration Audit and assessment of <b>PPP</b> service models <b>Performance metrics</b> redesign around benefits realisation and SDGs
<b>Data</b>	<b>Vision</b> for data governance across ATR/BPN, post-2025 <b>R&amp;D</b> audit and review on cadastral and land registration data <b>Fast-tracking</b> mapping 126M parcels by 2025 (keep going!) Developing and implementing better <b>quality assurance</b> standards Ensuring a robust federated <b>database infrastructure</b> is developed
<b>Innovation</b>	Formalised innovation <b>bench making</b> program across ATR/BPN <b>Incentive schemes</b> at all levels Formalise <b>R&amp;D</b> collaborations across sector <b>Digital divide</b> audit
<b>Standards</b>	Audit <b>governance</b> of standards in ATR/BPN Assess range of <b>technology</b> and data initiatives in terms good practices Development of both internal and industry-wide <b>certification</b> protocols Fostering of a <b>community of practice</b> to support awareness raising



# The Netherlands supports towards the Implementation

FELA – Digital Transformation  
Yerevan , Armenia – project ongoing





## Implementing the Framework for Effective Land Administration

Sustainable development demands effective land administration

The selection of participants was restricted to European countries, with an existing relationship with EuroSDR and/or UN-GGIM Europe.

### Participating countries:

- Austria,
- Belgium,
- Bosnia & Herzegovina,
- Bulgaria,
- Cyprus,
- Czech Republic,
- Denmark,
- England and Wales,
- Estonia,
- Finland,
- Germany,
- Italy,
- Latvia,
- Luxembourg,
- the Netherlands,
- Portugal,
- Scotland,
- Slovenia,
- Spain,
- Sweden
- Switzerland,

In total  
**21**  
countries  
participated

The participating countries represent all regions of Europe: Central and Eastern, Northern, Southern and Western Europe.





# Implementing the Framework for Effective Land Administration

Sustainable development demands effective land administration

- Online survey approach aimed to create an **overview of the different stages of awareness and uptake** of the FELA by the Members of EuroSDR and/or UN-GGIM Europe
- Done by **converting the FELA framework into a series of questions**
- Each FELA strategic pathway question set would allow for a **mix of quantitative and qualitative data** to be collected
- Questions were created **based on insights** provided through the development of the FELA, as well as the specific context and discussions during the various EG-LAM meetings
- Survey included **both closed and open-ended questions**
  - Closed-ended questions provided multiple choice answer option, therefore a set of answers was offered (Whilst this might be considered a constraint, it was felt the benefits of enabling comparison between countries outweighed the prescriptive nature of the responses provided)
  - Open-ended questions provided for **more in-depth insights** at a country-specific level to be provided

*Draft - published soon via EuroSDR*

# The Netherlands supports towards the Implementation



## SP7: Partnerships

- ... with other agencies and sister organisations
- ... with universities
- ... with industry
- ... with Member States through UN-GGIM and EG LAM



## SP8: Capacity and Education

- ... ensure the next generation of professionals and practitioners
- ... Co-Chaired UN-GGIM and Co-Chaired EG-LAM
- ... secondment to the UN-GGIM Secretariat



## SP9: Communication and Engagement

- ... with ministers, policy- and decision-makers
- ... with the public and other stakeholders
- ... through translation of key messages and documents