FIG Commission 7

Annual Meeting

25 – 27 October 2022

Seville Spain

FIG Commission 7
2023-26 Planning Update

26th October 2022

FIG C7 Annual Meeting | Seville Spain

Rohan Bennett | Incoming Chair 2023-26

FIG Commission 7
After Pandemic
After Paez

kadaster

FIG

FIG Commission 7
2023 - 2026

Reboot | Rejuvenate | Reclaim

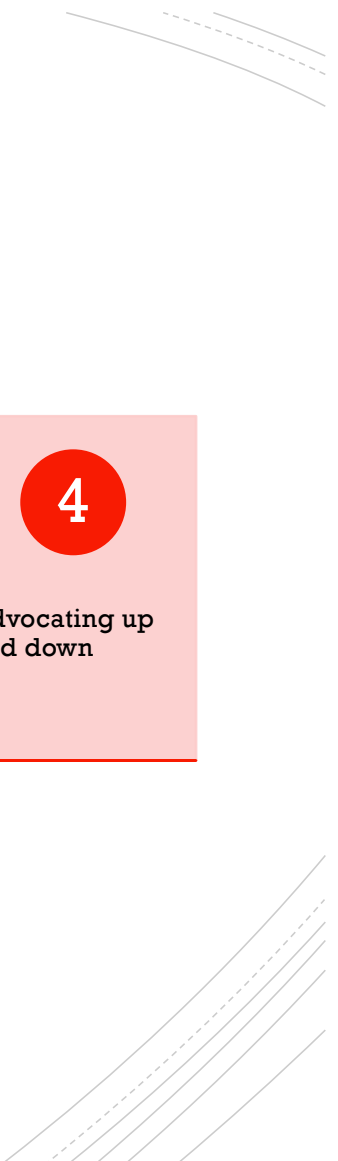# Why is C7 FIG important?

1 Building the global community

2 Sharing lessons between countries

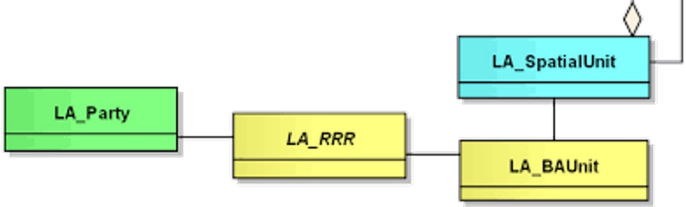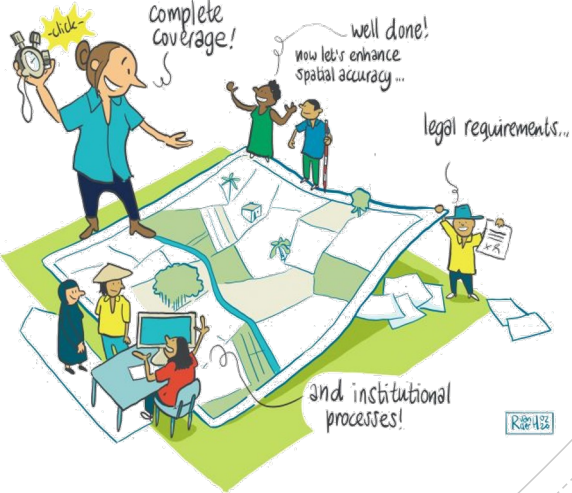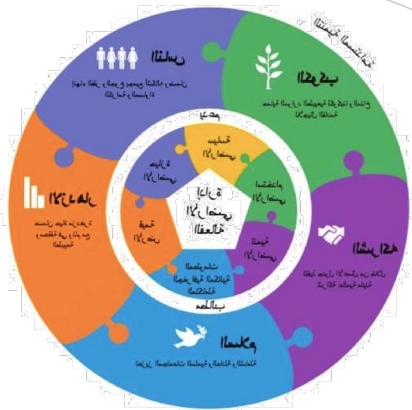**3** Creating knowledge together

4 Advocating up and down

- Global **conflicts** and **unrest**

- Resource **scarcity** and economic impacts

- **Digital transformation** …and disruption … and cyber attacks

- SDGs and the '**cadastral divide**'

- **Skills** and **labour shortage** …… equal representation

What is influencing right now?

What has been the land administration response?

- VGGTs … Continuum … FELA
- FFPLA … Remote Sensing
- LADM and STDM
- 3D and Digital Twins
- Renewal and Maintenance

complete coverage!

well done! now let's enhance spatial accuracy …

legal requirements …

and institutional processes!

LA_Party

LA_RRR

LA_SpatialUnit

LA_BAUnit

Where are we going?

- What needs to be the **focus** of FIG C7 right now?

- Should FIG C7 play to its **strengths**, or brand into **new domains**, or **both**?

- Where can FIG C& have the **biggest impact**, both globally, but, also nationally, and locally?
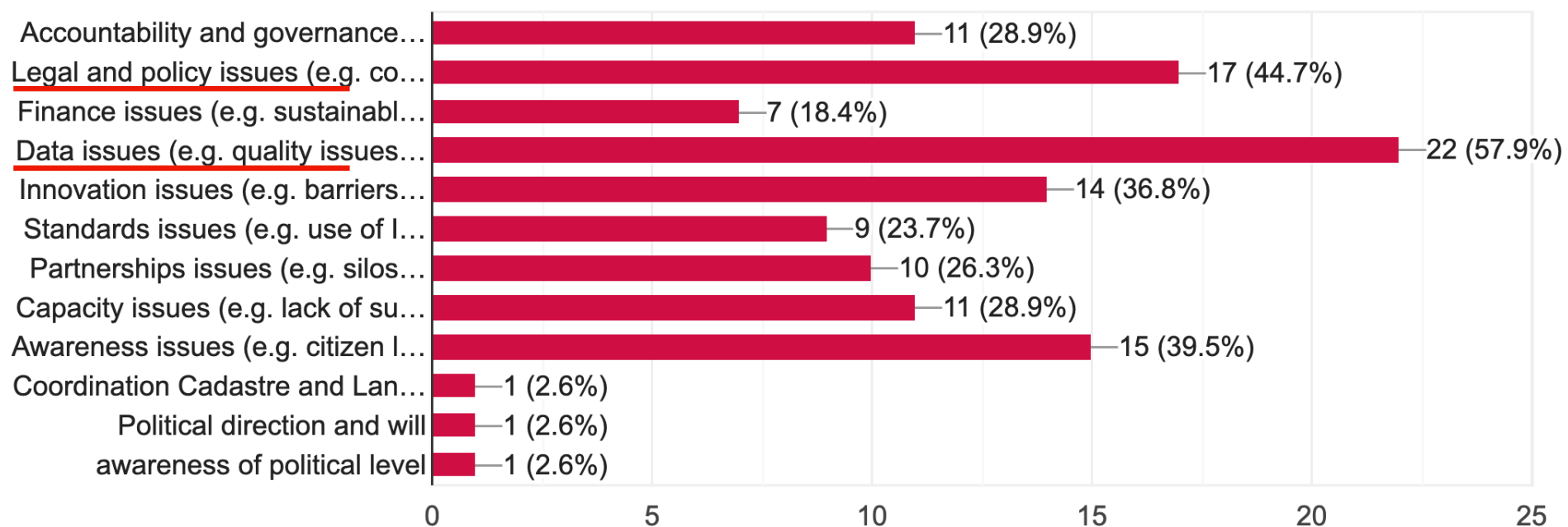
What about you?

What do you think?

What are your challenges?

Where would you like us to focus?

First, what are the most pressing land administration challenges your country faces? (Select your top 3)

38 responses

Category	Count
Accountability and governance…	11 (28.9%)
Legal and policy issues (e.g. co…	17 (44.7%)
Finance issues (e.g. sustainabl…	7 (18.4%)
Data issues (e.g. quality issues…	22 (57.9%)
Innovation issues (e.g. barriers…	14 (36.8%)
Standards issues (e.g. use of I…	9 (23.7%)
Partnerships issues (e.g. silos…	10 (26.3%)
Capacity issues (e.g. lack of su…	11 (28.9%)
Awareness issues (e.g. citizen l…	15 (39.5%)
Coordination Cadastre and Lan…	1 (2.6%)
Political direction and will	1 (2.6%)
awareness of political level	1 (2.6%)

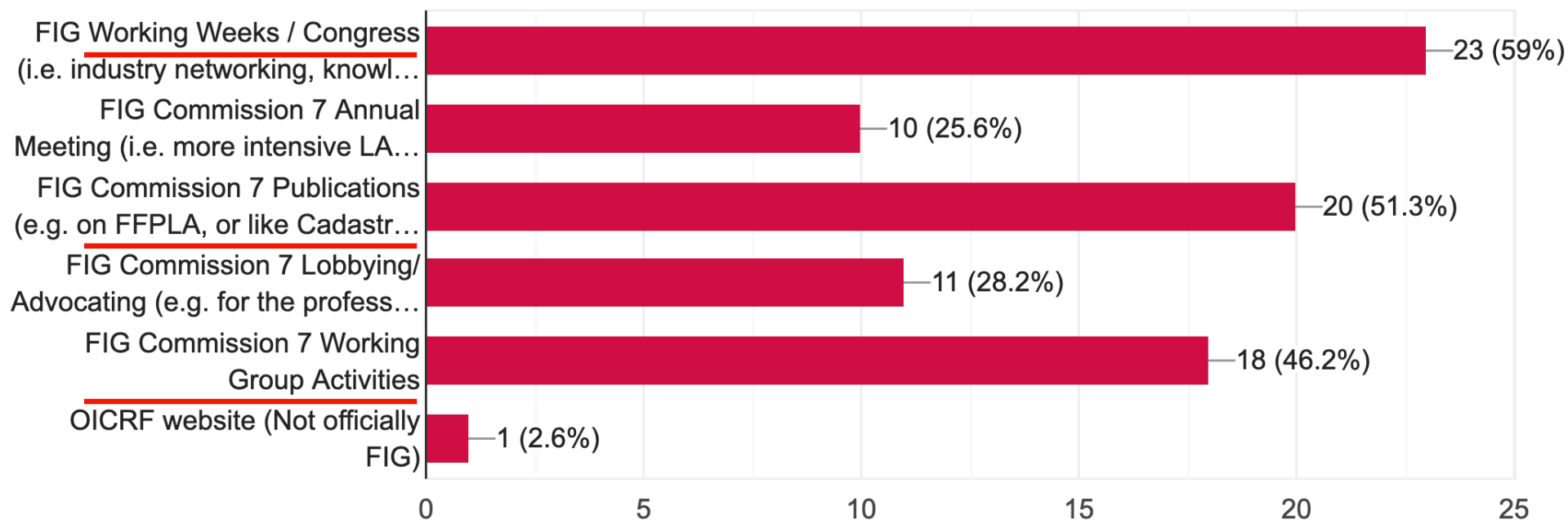Second, what topics would you like to see Commission 7 focus on for the coming period? (Select your top 3)

39 responses

| Topic	Value
Sustainable Development G…	18 (46.2%)
Framework for Effective Lan…	10 (25.6%)
Fit-for-Purpose Land Admini…	13 (33.3%)
Gender Gap in Land Adminis…	4 (10.3%)
Land Administraiton Domain…	8 (20.5%)
3D Cadastres	14 (35.9%)
PPPs and Land Administrati…	8 (20.5%)
Digital Twins	3 (7.7%)
Artificial Intelligence (AI) and…	6 (15.4%)
Skills shortage / reciprocal s…	7 (17.9%)
Blockchain for Land Administ…	4 (10.3%)
Digital Transformation of Lan…	17 (43.6%)
crowdsourching, land consoli…	1 (2.6%)
FELA	1 (2.6%)
Climate change	1 (2.6%)
data science, platforms, eco…	1 (2.6%)
Sustainability in the cadastre…	1 (2.6%)

Third, what FIG activities or outputs are most useful in supporting your work? (Select your top 2)

39 responses

Category	Value
FIG Working Weeks / Congress (i.e. industry networking, knowl…)	23 (59%)
FIG Commission 7 Annual Meeting (i.e. more intensive LA…)	10 (25.6%)
FIG Commission 7 Publications (e.g. on FFPLA, or like Cadastr…)	20 (51.3%)
FIG Commission 7 Lobbying/ Advocating (e.g. for the profess…)	11 (28.2%)
FIG Commission 7 Working Group Activities	18 (46.2%)
OICRF website (Not officially FIG)	1 (2.6%)

Fourth, what regions are you most interested to learn about in terms of land administration innovation? (Select you top 2)

38 responses
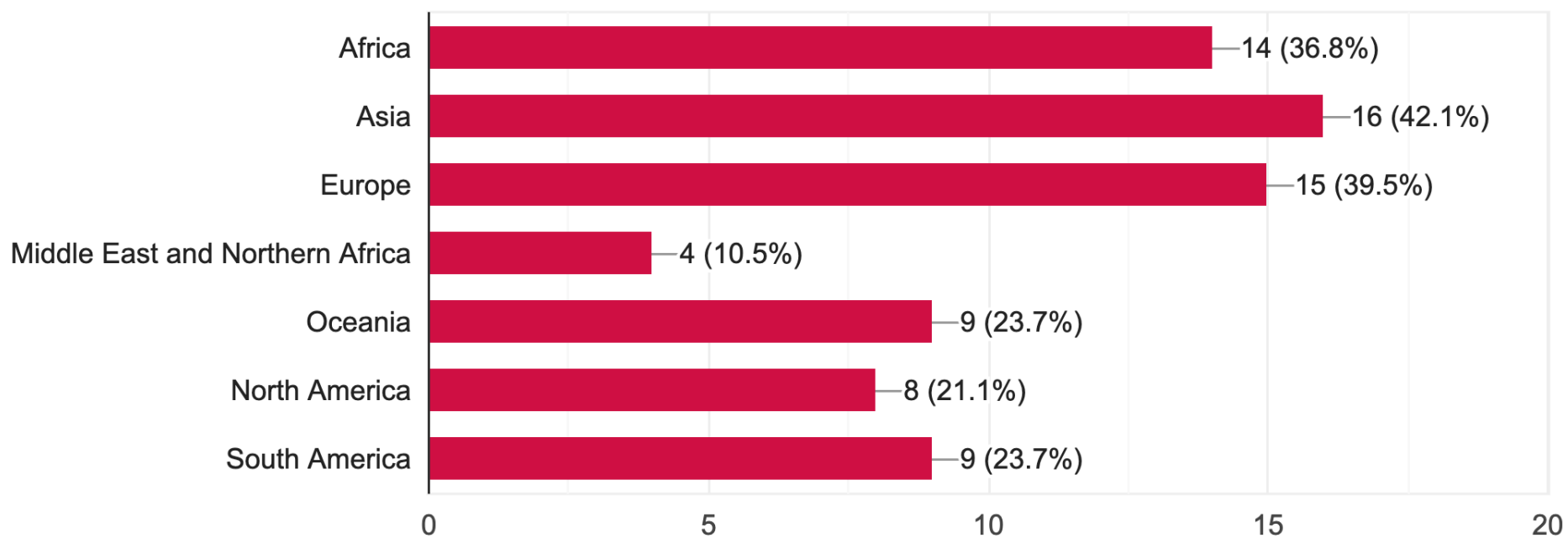
Potential Working Groups…

- **Women's Access to Land**
  - Support S4HL initiative and updating FIG Publication 20
  - World Bank; Commission 1; esri

- **Framework for Effective Land Administration (FELA)**
  - Implementation; Country-Actions
  - UNGGIM; Medici

- **Integrated Land Management via Digital Transformation**
  - FAO; Commission 8

- **Technology Innovation in Land Administration**
  - Digital Twins; AI; AFE; Cybersecurity Issues
  - GLTN; UN-Habitat; Trimble

- **3D and LADM**
  - Marine / Land Use Planning
  - TC2011, ISO19152, and OGC

- **Cadastral Template Reboot**
  - Indicators; Maintenance
  - Land Portal; OICRF; Cadasta

What next?

Timeline...

- <s>**September 2022**</s>
  - <s>FIG Congress: final delegate inputs for 2023-26 workplan</s>
  - <s>Working Groups + Annual Meetings + Ouputs</s>

- **October 2022**
  - Spain, Annual Meeting: first draft 2023-26 workplan

- **November 2022**
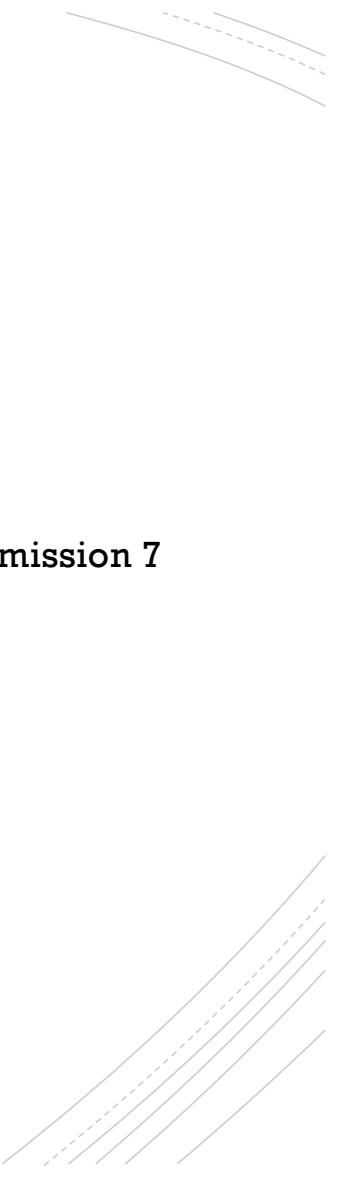 - Abstracts/Papers for FIG WW 2023

- **January 2023**
  - Kick-Off

- **May 2023**
  - FIG Working Week, Orlando: formal endorsement of 2023-26 Work Plan
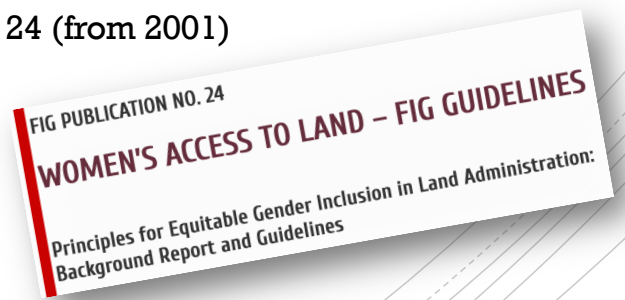
Thanks for your time!

- Look forward to your involvement in FIG Commission 7

- Reboot | Rejuvenate | Reclaim

Theme 1
Stand 4 Her Land
(Administration)

- **Why?**
  - Women's participation and representation
  - All aspects of LA - continuing major issue
  - SDGs 1 and 5

- **Who?**
  - Victoria Stanley; Esther Mwaura-Muiru, Beth Roberts, 'The Kates', Paula Dijksta, Marisa Balas, Linda Foster; Claire Buxton

- **What?**
  - Linking FIG to S4HL, and other global initiatives
  - Updating Fig Publication 24 (from 2001)
  - FFPLA

esri

STAND FOR **HER LAND**
HER RIGHTS. HER LAND. A BETTER FUTURE FOR ALL.

Landesa
Rural Development Institute

Land Equity
International

FIG PUBLICATION NO. 24
WOMEN'S ACCESS TO LAND – FIG GUIDELINES
Principles for Equitable Gender Inclusion in Land Administration:
Background Report and Guidelines

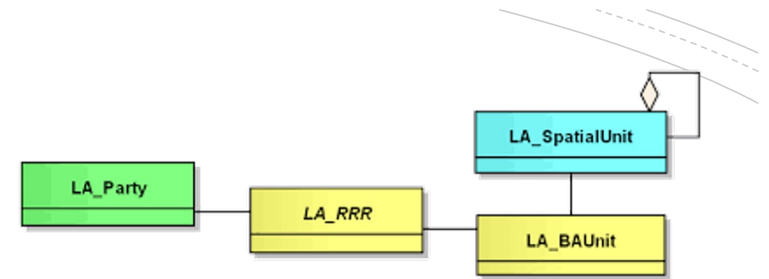## Theme 2
Cadastral Intelligence and Innovation

- **Why?**
  - Automation; Artificial Intelligence; Feature Extraction; 3D Data Capture; Indoor Mapping, Cloud-based mobile mapping; Cadastral Analytics

- **Who?**
  - Mila Koeva, Linda Foster, Markus Koper, Jeroen, John Gitau, Danillo Antonio

- **What?**
  - Collate emerging techniques, successes, challenges, best practices
  - Next Gen FFPLA…?
  - Linkages to ISPRS

UNIVERSITY OF TWENTE.

Trimble

esri

Theme 3
3D and LADM

- **Why?**
  - LADM 2.0
  - 3D Land Administration

- **Who?**
  - Peter van Oosterom, Eftychia Kalogianni, Abdullah Kara, Chrit Lemmen; Commission 3

- **What?**
  - ISO19152 contribute and inform developments
  - Contribute to FIG Standards Committee and OGC

Theme 4
Implementing FELA

Medici Land

kadaster

SLA

- **Why?**
  - FELA endorsed by UNGGIM in August 202[
  - Now for implementation: national-level

- **Who?**
  - UNGGIM Expert Group on LAM (Singapore Land Authority); Didier Sagashya; Eva-Maria Unger;

- **What?**
  - FIG Publication on FELA Implementation
  - Case stories
  - Best practices

Theme 5
Integrating land tenure and land use

- **Why?**
  - Disconnection and silos = poor land management
  - Digital transformation: the enabler
  - SDGs: All?

- **Who?**
  - Walter de Vries (TUM), Claudia Stocker (Smart Land Maps), Kwabena Asiama (KNUST/C8)

- **What?**
  - Leverage and extend from FIG Publication FAO/FIG/UN-ECE, country cases, and good practices
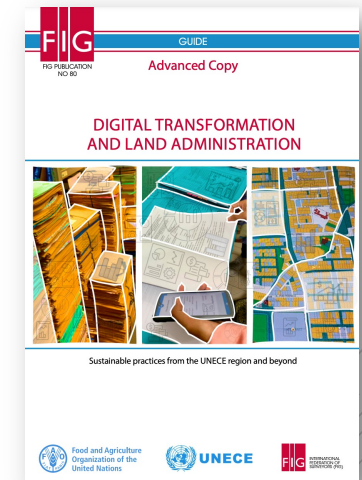
Theme 6
Cadastral Template Reboot

- **Why?**
  - Cadastral Template – a great resource, needing a sustainable reboot
  - Do the indicators need an update?

- **Who?**
  - Wambayi Wabwire, Laura Meggiolaro, Charl-Thom Bayer, Frank Pichel, Daniel Steudler, Jaap Zevenbergen, Others (e.g., UniMelb)

- **What?**
  - Stakeholder re-engagement
  - Gap assessment
  - Solution proposal/implementation