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

FIGURE OMMISSION 7 2024 Working Week Meeting

Tuesday 21st May

12:15 – 13:15 Adae Kesie, La Palm

Rohan Bennett (Chair) Kirsikka Riekinen (Vice Chair)















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Your World, Our World: Resource Management

What is Commission 7?

- Cadastre and Land Management
- Represents (many) thousands of cadastral surveyors globally
- **Advocacy**
- **Networking**
- **Knowledge Creation**
- Known for 'Cadastre 2014' + FFPLA + LADM + STDM
- ...and a bit of **fun** along the way





















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Your World, Our World: and Sustainable Resource Management

What *isn't* Commission 7?

- **Individual** membership
- Professional accreditation
- **Licensing** and mandates
- Enforceable standards
- **Education** and training
- **Donor** agency / projects















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

What is changing?















Less volunteerism

Packed workloads

Budget and **travel** restrictions

Easy information exchange

Diversified community of practice

Skepticism of the international agenda















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Your World, Our World: and Sustainable Resource Management

Why get involved?



Individual

Build your network

Job opportunities

Give back

Have some fun...



Business

Identify Clients

Meet partners and collaborators

Find new talent



Government

Influence and affirm policies

Compare and benchmark

Identify ready-made solutions















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Your World, Our World: and Sustainable Resource Management

Agenda today...

- Where are Cadastre and Land Management at?
- What did we do last year?
- What are we doing this year?
- What about **next year**?...and after that?
- What about **dinner**? What about music?

Working Groups

















State of the Cadastre 2024

Rohan Bennett, Paula Dijkstra, Eva-Maria Unger Christelle van den Berg

State of the Cadastre 2024

Rohan Bennett (Australia), Paula Dijkstra (Netherlands), Eva-Maria Unger (Austria) and Christelle Van den Berg

Key words:

Cadastre; Digital cadastre; Land management; Security of tenure; Keyword 1; Keyword

SUMMARY

Cadastres and systems for land administration and management remain integral to building sustainable and prosperous communities. FIG Commission 7 provides the global platform for advocating, creating and knowledge, and professionalizing the domain. This paper provides a snapshot of key recent developments influencing the field, and demonstrates how via Member Associations, Commission 7's 2023-26 is responding at the global level. This includes teams working on forwarding FELA, FFPLA, 3D land administration, LADM, AI and remote sensing, women's access to land, digitally transformed land management, land administration education, and sharing comparative cadastral data. Specific country cases are drawn upon to color the narrative, including relevant examples from the Netherlands, Moldova, Armenia,

State of the Cadastre 2024 (12685)

Rohan Bennett (Australia), Paula Dijkstra (Netherlands), Eva-Maria Unger (Austria) and Christelle Van den Berg

FIG Working Week 2024

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Where are the cadastre and land management at?









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Where are we at globally?

- Growing wealth inequality
- Regional **conflict** and instability
- Energy, climate change, towards Net Zero
- **Depopulation**
- Automation and Al





Cadastre and land management are central to all, but, struggle for attention... Why?























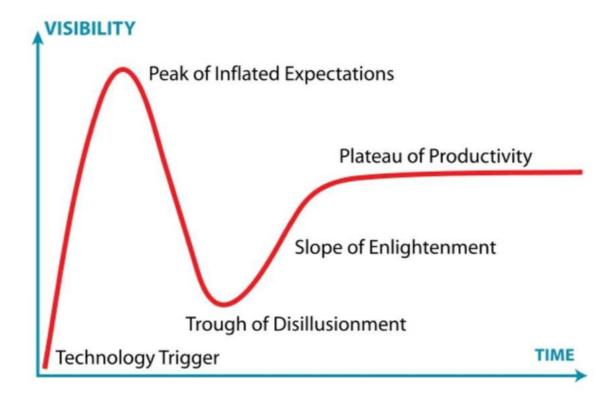




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Gartner Hype Cycle









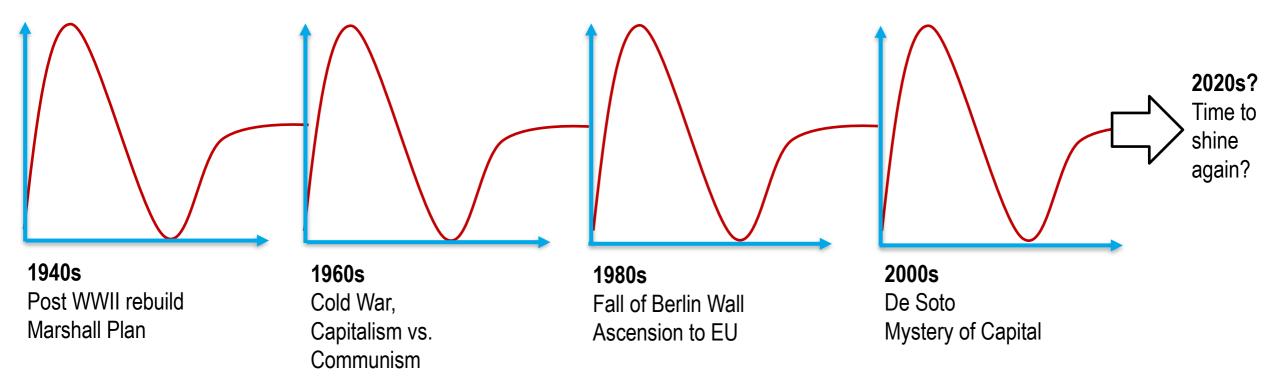






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...but, growing skepticism of global agenda



17 GOALS TO TRANSFORM OUR WORLD































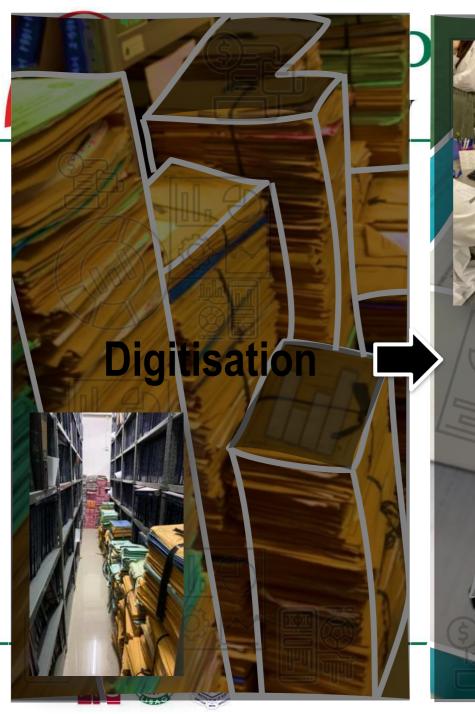


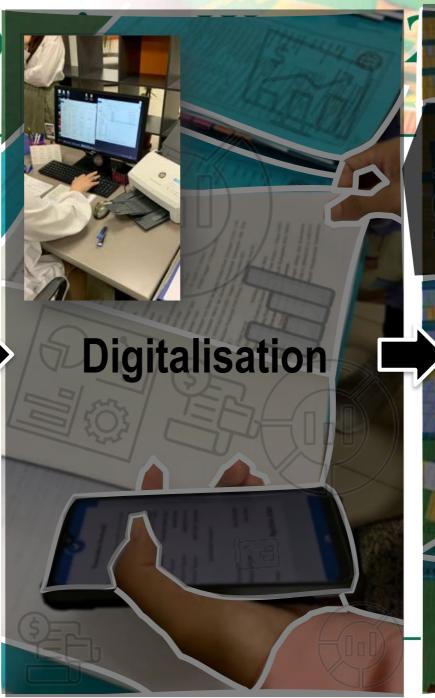














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Strategic Foresight Kadaster 2032

Declining trust in authority, politics and institutions

The digital world is increasingly prominent

Digitization contributes to social divisions

Importance of (geo)information for societal issues increases

Cybercrime

EU increasingly in the lead and control













Courtesy: Martin Salzman Large societal impact of digitalisation

















Centralization → **Sovereignty**

What are we going to see?



e-services → Cybersecurity



Digital Addiction → **Digital Detox**

Your World, Our World: Resource Management

What did we do last year?









Renewing, Reimagining, & Recommitting for Relevance

What is planned for the 2023-26 period?

What are the 2023-26 Work Groups?



Your World, Our World: Resource Management

Our top 10 activities in 2023...

- Welcomed new C7 Chair and Vice Chair and WG Officers in January
- Attended the FIG 2023-26 kick-off workshop in Copenhagen, Denmark in February
- International workshop in **Nepal on Integrated and (de)Centralised Land Management and Administration** in **March**
- Collaborated with UNGGIM EG-LAM and AP at events in Singapore (March) and Indonesia (November)
- 67th UN Commission on the Status of Women 67 (March) + Conference on Land Policy in Africa (November)
- **FIG Working Week in Orlando** in **May**, with over 100 C7 papers
- FIG 2023 C7/C2 Annual Meeting in Deventer, Netherlands in October with +100 participants and almost 50 papers
- Co-organised the 11th International Workshop on LADM & 3D Land Administration in Sweden in October
- Kicked-off or contributed to many academic **Special Issues** in the domain of Land Administration
- 10. Updated website, regular news briefs, new C7 FIG LinkedIn pages, social media, and added 10 new verses to C7 song













International Workshop on Integrated LUP and LA

- Co-Organiser, International Workshop, Feb 16-17, Nepal
- 2 days, full program
- 10 sessions, technical
- More than 50 presentations, papers and presenters
- More than 150 participants
- Also, special sessions, demonstrations, trade show
- ...Drone crashes, meditation, cultural evening, and dancing!





4. UNGGIM EG-LAM International Workshop on Geo-Enabled Effective Land Administration, February 14, Singapore



As part of the GeoConnect Asia 2023
Conference - taking place between 15-16
February 2023, Singapore - C7 was privileged
to take part in the UNGGIM side event,
international workshop on 'Geo-Enabled
Effective Land Administration', hosted by our
good friends at the Singapore Land Authority
(SLA) on February 14. The workshop included
speakers from OGC, World Bank, and the land
administration and geospatial authorities from
India (Survey of India), Japan (GGIA), Korea

3. Women's Access - Claire Buxton attends CSW67, UN HQ, New York



Linked to C7's 'Women's Access to Land' Working Group, FIG Council's own 2023-26 Workplan, and supported by the Stand for Her Land Campaign (S4HL), former VSCP Lead and now regular FIG'er, Claire Buxton attended the 67th 'Commission on the Status of Women 67' in New York, between 6-17 March. You'll hear more about the event in the upcoming FIG newsletter. Claire has compiled a full report. But, in her own words: "I joined thousands of representatives from around our globe at the Commission on the Status of Women 67 at UN HQ in New York. The experience was humbling, moving, and educational. As a

representative of FIG, I personally shared some concrete ideas on how surveyors are key and will continue to

be key as we embrace innovations and digital technology to advance gender equality and ensuring that secure women land rights and properties is central to the work we do towards a sustainable world ... Seek opportunities to bring women (especially marginalised rural women) to the table with you in your professional work. Join the working group on women's land rights, Commission 7 FIG, we need a few more people to join Marisa Balas, Kate Fairlie, and I". Here, here! As mentioned above, these themes will be pickup upon in Orlando 2023.

































FIG Commission 7 & 2 Annual Meeting 2023

2-4 October 2023, Deventer

Summary

3 day full technical program16 sessions

4 keynote sessions

45 full or abstracted papers

113 attendees

27 countries represented

0 international incidents

0 deaths (so far)



Organized by

Gold sponsor:

Silver sponsor:

Bronze sponsors:













Your World, Our World: Resource Management

What are we doing this year?









Your World, Our World: and Sustainable Resource Management

What are we doing this week?

- Total of **15** full or joint Commission 7 sessions
- Over **100** Commission 7 papers
- All 8 Working Groups covered
- Different modes: presentation, panels, participation
- Collaboration: Climate Compass, SDGs, Women's Access
- Side Event: **FFPLA**
- It's a real 'Working Week'!

















Joint International Conference

- FIG Commission 7 Annual Meeting,
- FIG Land Administration Domain Model (LADM)
 and 3D Land Administration (LA),
- UN-Habitat Social Tenure Domain Model (STDM),
- Geoinformation Week 2024, and
- Pre-conference Tutorial (23rd Sept) & Exhibition



Assoc. Prof Dr. Rohan Bennett, Chair FIG Commission 7



Prof Dr. Peter van Oosterom, Chair FIG LADM & 3D LA



John Gitau, Chair UN-Habitat STDM



Prof Dr. Alias

Abdul Rahman,

Chair Geoinformation Week













Date : 24th - 26th September 2024

Venue : Riverside Majestic Hotel,

Jalan Tunku Abdul Rahman, 93756, Kuching, Malaysia

Conference website:

https://www.geoinfo.utm.my/geoweek/

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Your World, Our World: and Sustainable Resource Management

Working Group 7.1 – FELA

Chair: Amalia Velasco

FELA Resource Centre

- OICRF collaboration, digital repository and interface
- Post-2020 FIG proceedings with FELA content included
- Overviews, tools, country applications

FELA Publication

Draft skeleton for the FIG publication, collaboration with UNGGIM EG-LA

Events and Collaboration

- Sessions at FIG 2023 Orlando, C7 Deventer, and FIG 2024 in Ghana
- Also attended UNGGIM Latin America and Asia-Pacific meetings in Mexico, Singapore and Indonesia
- Looking to engage with GLTN and UN-Habitat



Figure 6: Nine Pathways of the Framework for Effective Land Administration















European Spatial Data Research

February 2023

EuroSDR Advancing FELA – The Framework for effective Land Administration

Eva-Maria Unger, Rohan Bennett, Joep Crompvoets, Anka Lisec, Frédéric Cantat

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Working Group 7.2 – FFPLA

Chair: Israel Taiwo

Start-Up 2023

Developed workplan + sessions at each FIG event

Action and Events 2024

- Review of 2019-2022 interview data
- Survey deployment and Publication ToC: FIG 2024
- Side-event Towards Upscaling of FFPLA approaches
- Writing and compilation of the publication

Deliver in 2025

- Writing and compilation of the publication.
- More workshops on upscaling















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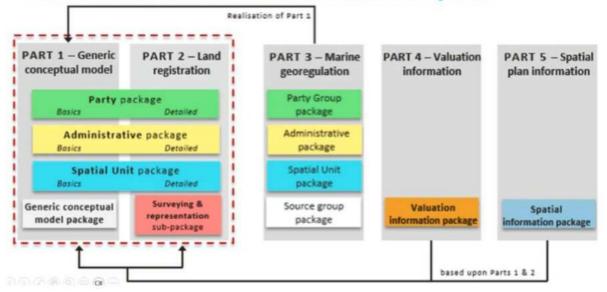
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Working Group 7.3 – 3D and LADM

Chair: Peter van Oosterom (and C3)

- **LADM Revision**
 - Part 1 published as ISO standard 19152-1:2024,
- **OGC Linkages**
 - Forming the OGC Standards Working Group on LADM
- 11th FIG LADM & 3D LA Workshop
 - Sweden 2023
- **World Bank Land Conference 2024**
 - Washington DC, 2024, last week
- **FIG WW 2024**
 - Accra, Ghana, May 2024
- 12th FIG LADM & 3D LA Workshop
 - Joint event in Kuching, Malaysia, 24-26 September 2024.

ISO 19152 LADM Edition II, multi-part















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Working Group 7.4 – Al and RS

Chair: Mila Koeva

Topics

Innovative geospatial solutions for land tenure mapping; Digital Twins; Automatic feature extraction

Activities

- 2023: Kick-Off: FIG 2023 Working Week Orlando, Florida, USA
- 2023: Advances and Cases: 5-7 July 2023, TU Delft, Netherlands, CAAD Futures 2023; C7 Annual Meeting
- 2023&2024: ISPRS 3DGeoInfo October 2023 Munich, July 2024 Vigo
- 2024: Advances and Cases: ISPRS TC IV Mid-term Symposium, 22-25 Oct 2024, Australia

Outputs and Collaborations

- Remote Sensing for Land Administration, MDPI Special Issue in Remote Sensing—still open for submissions
- Special Issue with Survey Review and FIG; Cooperation with ISPRS/IEEE













CITESCOR FACTOR 5.0

an Open Access Journal by MDPI

Editorial Board Members' Collection Series: Remote Sensing for 3D Land Administration

Dr. Mila Koeva

Dr. Rohan Bennett

Dr. Claudio Persello

Prof. Dr. Peter Van Oosterom

Submission link:

https://susy.mdpi.com/user/manuscripts/upload/ 72a7e20f5931db2fd136ae0af8a0ef51?journal=rem

otesensing



This Special Issue welcomes manuscripts addressing:

- Innovative remote sensing AI-based methods in support of cadastral mapping
- 2D and 3D land registration, valuation and taxation
- Geospatial data acquisition, processing and modelling in support of 2D and 3D land tenure recording
- Design and testing of innovative methods based on remotely sensed data for cadastre boundary extraction

Keywords:

- artificial intelligence for LA
- machine learning for LA
- 2D/3D land data
- automatic feature extraction
- land valuation and taxation
- 2D/3D land use planning and development







IMPACT CITESCORE 7.9

an Open Access Journal by MDPI

Aims and Scope

Remote Sensing (ISSN 2072-4292) is a peer-reviewed, open access journal about the science and application of remote sensing technology, and is published semimonthly online by MDPI. The Remote Sensing Society of Japan (RSSJ) and the Japan Society of Photogrammetry and Remote Sensing (JSPRS) are affiliated with Remote Sensing, and their members receive a discount on the article processing charge.

SCIE (IF 2021: 5.0) High Visibility

gh Visibility High Visibility

Scopus

(CiteScore: 7.9)

23 days
Submission to First

2.7 days

Acceptance to publication (median values for papers published in

this journal in the second half of 2023)





an Open Access Journal by MDPI





Land is an international and cross-disciplinary, peer-reviewed, open access journal of land system science, landscape, soil–sediment–water systems, urban study, land–climate interactions, water–energy–land–food (WELF) nexus, biodiversity research and health nexus, land modelling and data processing, ecosystem services, and multifunctionality and sustainability etc., published monthly online by MDPI. The International Association for Landscape Ecology (IALE), European Land-use Institute (ELI), Landscape Institute (LI), and Urban Land Institute (ULI) are affiliated with Land, and their members receive a discount on the article processing charge.

SSCI (IF 2022: 3.9) High Visibility

14.8 days
Submission to First Decision

Scopus (CiteScore 2022: 3.7) High Visibility

2.7 days Acceptance to publication



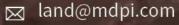








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Land, Innovation and Social Good 2.0

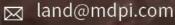


Research areas may include (but are not limited to) the following:

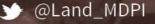
- Emerging technologies in land administration;
- Knowledge transfer and innovation in land administration;
- · Participatory approaches to land administration and management;
- Decision support systems in urban and regional planning;
- Land value modeling;
- Land Tools to support global goals;
- The link between land and global challenges (including, but not limited to rapid urbanization, food insecurity, climate change, disaster risk management, gender inequality);
- The influence of the COVID-19 pandemic on settlement planning, property values, and the global land challenges.



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Survey Review















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Working Group 7.5 – Women's Access to Land (Administration)

Chair: Marisa Balas and Kate Fairlie (and C1)



- **DONE**: Initial assessment, Literature research
- **DOING**: Data Gathering questionnaire launched in four languages. Field guides A list is being validated within the questionnaire. Needs volunteers to write specific parts and to peer-review the document

2. Promote Partnerships and Synergies

- **S4HL Campaign** An MOU was signed. Joint session with ARN in CLPA2023 Addis Ababa.
- **DOING**: List of themes for grassroots women training to be provided by ARN national associations. Development of training materials. Launch pilot of Clinic days in a country
- G20 GLI cooperation in WG activities
- DONE: Events participation: UN Women (Claire), CLPA 2023 (Marisa), WB Land and Poverty (Kate)

3. Reinforce WLRs within FIG

NEEDS ATTENTION!



FIG PUBLICATION NO. 24 WOMEN'S ACCESS TO LAND - FIG GUIDELINES

Principles for E Background Re















FIG Working Week 2024 Resilient Environment and Sustainable Accra, Ghana Resou for All

Your World, Our World: and Sustainable Resource Management

FIG Commitment to WLRs -Gender and Women's Land Rights (WLR) are mainstreamed across commissions, working groups and member associations - needs attention.

Opportunities to link with other commissions, TFs and FIG sponsors:

- Commission1: Women in Surveying attracting, retaining, supporting female students and professionals
- Commission 2: Embedding WLR into education in surveying (Rosario Casanova)
- Commission 3: Gendered data understanding how data both entrenches and addresses inequalities (Roshni Sharma)
- Commission 4: Joint with Comm1 'how to bring more women into hydrography'
- Commission 5/6: Joint Comm1 on profession and/or 'how does technology impact gender and land'
- Commission 8: What is a gender sensitive spatial plan?
- Commission 9/10: joint Comm 1 or e.g. Do we need gender sensitivity in valuation?
- SDGs Task Force Focusing on SDG5
- Climate Compass Task Force Highlight importance or WLRs in fighting climate change and land restoration
- Com 7 working groups LADM (Eftychia Kalogianni) and FFPLA (Israel Taewo)















Land Use Policy



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Your World, Our World: and Sustainable Resource Management

Working Group 7.6 – Digital Transformation for Integrated Land Administration Chair: Claudia Linder and Walter de Vries (with C8)

- Kick-Off in 2023
 - Sessions in Orlando and Deventer; expanded the group; survey design
- **Year of Action 2024**
 - Contribution to UNECE Webinar in April
 - Publications planned for C7 Annual Meeting and FIG Regional Conference
 - Definition of focus areas for research and webinar series
 - Survey
 - Launch March; Open until May 26th; Analysis of results planned for June
 - Sorting statements about digital transformation according to YOUR perception



















What does integrated land management mean? Is it happening?



Publication Literature review Special Issue? Identification of challenges and opportunities offered by DT



Q Sort Survey

Discussion on best practices, tools and technologies



Policy-Practice-Science Dialogues Webinar/Side Event at FIG events Publication on DT for integrated land management

Webinar/Side Event at FIG events

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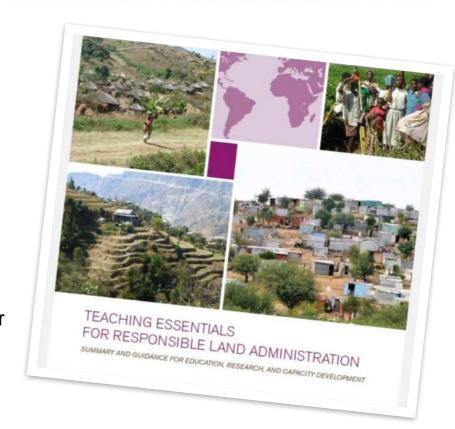
Working Group 7.7 – Land Administration Education Chair: Simon Hull (with C2)

Topics

- Review of global land administration curricula
- Teaching Essentials for Responsible Land Administration (TERLA) development
- Support educational institutions to meet context-specific land administration needs

Activities

- SWOT análisis, Deventer, October 2023, developed for the ILMC in March 2024: Draft Paper
- FIG 2024 Workshop (this week):
 - Educational level
 - Core knowledge areas
 - Scope of work

















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Working Group 7.8 – Comparative Cadastres

Chair: Charl-Thom Bayer (with OICRF)

- On Semantics and Thesauri
 - Started discussion with CaLaThe which is ongoing to publish it in AGROVOC. Two meeting were held with CaLaThe and with AGROVOC.
- On Comparative Land Data:
 - Met with Land Portal and Kadaster to identify and co-host webinar series on data and standards.
- **Future**
 - Integrate CT Data on the Land Portal Land Governance Portfolios.
 - Land Administration Roundtable at FIG Ghana. Can this be a catalyst for a plan of action for the review and needs analysis of comparative land data.













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What about next year?

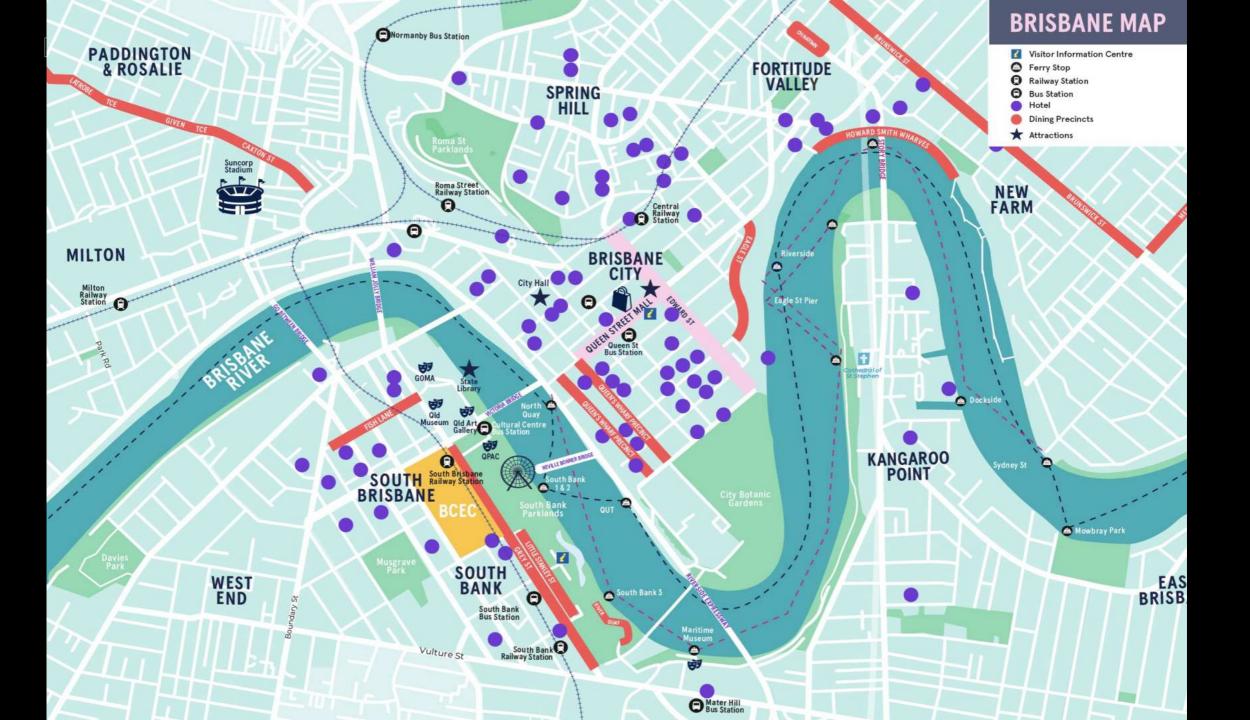














- Enjoy our sub-tropical lifestyle
- Dedicated networking hub bars for delegates
- Australia's only man-made inner-city beach
- Free entry to galleries and museums
- Free Brisbane Greeters guided walking tours in over 20 languages
- Access to free ferry network
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UNIQUE CONVENTION PRECINCT























Over 21,000 hotel rooms across the city



5-star international brands, boutique hotels, budget accommodation and apartment options



Walking distance to BCEC, dining, entertainment and PT



An array of Budget Accommodation options located within Southbank and the CBD





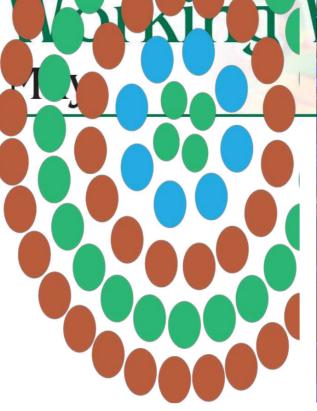
















Local Organising Committee

- Local Organizing Committee has been formed and has commenced monthly meetings
- We are designing the plenary sessions in conjunction with FIG to attract our Locate conference delegates that attracts all geospatial disciplines

















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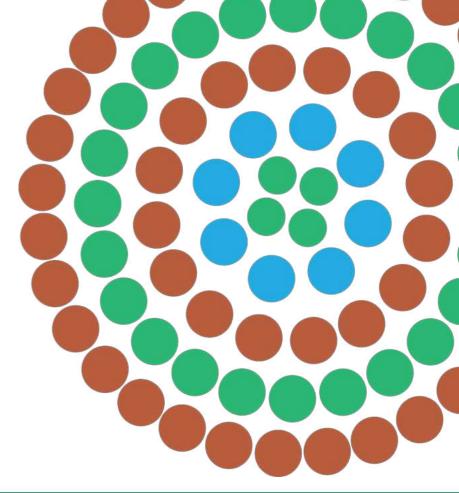
Your World, Our World: and Sustainable Resource Management

Why come to **Brisbane?**

Here is why...





















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Your World, Our World: and Sustainable Resource Management

FIG Commission 7 Annual Meeting 2025 and 2026















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What about dinner? What about the song?









Commission 7 Dinner

 Ghanaian Village, La Palm ... no need for transport

• Time: Tuesday 21st May, 7:00pm

• Collaboration: C7 (and C9, C8)

• **Menu**: Al la carte (NOT buffet)

• Food payment: Own cost

• **Drinks:** Yes, on your own account...

• **Sign up:** Sign-up sheet, registration desk, or at 12:15 meeting – places are limited!

Essential: Good spirit and vocals



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Thanks Q & A See you tonight!







