FIG

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Dr Diane Dumashie, RICS FIG President

FIG Vision Toward 2030: Partnership in Geospatial working

2024 Geospatial Intelligence Software Technology Conference: Geospatial Intelligence. **Driving Quality Development**

25-26 June 2024 Beljing, China

Geospatial is Everywhere



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Geospatial is Everywhere Generate and image of 'geospatial is everywhere' 🧑 Copilot As we look to the future, I'll try to create that it will become increasingly apparent that the payoffs from data (smart / geo) infrastructure, will be even more dependent on the intelligence of our decision making today..... Rather than on the application and technologies we deploy We are navigating in a changing & challenging world

Our Profession: Serving People and Planet



It is all about People!

The 2030 Agenda: agreed and united global policy to transform the social, economic and environmental dimensions of humanity and our planet

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· Context of considerable global challenges Geospatial Intelligence: Driving Quality Development

· Why Partnerships matter

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Overview

1. FIG: Who What and Why

- 2. Shaping the Future: How
- 3. Partnerships: What and Who





How: Depth of experience Survey and Geospatial Activity and outputs with Commissions:

 Professional standards & practice
 Professional Education
 Spatial information management
 Hydrography
 Positioning and measurement
 Engineering surveys
 Land management & cadastre
 Spatial planning and economic development
 Valuation and real estate

10.Construction economics

and, FIG Networks, Permanent Inst

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• in our collective hands:.....

In partnership
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 Fig.

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and the planet

Profound changes in longevity and demography

The Next Decade: Act on the Trends

The SDGs were the crowning global achievement of 2015 and 2030 is close;

but survey professionals deal in global and local realities.

Are we still relevant?

Yes, with Purposeful and Continuing intent; In Survey and Geospatial......

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2. How: The Future We want to shape

Our work plan aims to deliver and Demonstrate our resolve

- Vision:
 - Serving Society, benefitting people and the planet

Theme:

- Tackling the Global Challenges (Trends and crisis)
- Continue to develop <u>capacity</u> and grow to ensure that as individuals and a federation of members we remain <u>relevant and capable</u> <u>of benefiting people and the planet</u>

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Pillar i: Planet

Sustainability aim is making sure:

- We make the best use of land and marine resources, and
- Our cities and settlements are resilient and adaptive
- Play a more prominent role in the climate agenda

TF: 2030 Agenda & SDG's,

Chair: Paula Dijkstra (Holland)

• TF: Climate Compass, Co-Chairs: Roshni Sharma & Clarissa Augustinus

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Pillar ii: People

Sustainability is about making sure we demonstrate Equlity, Diversity & Inclusion, leaving no one behind in our profession..... And build and maintaining our professional competence to ensure societal relevance

TF: Role in Trends and Geospatial Information Ecosystems

Chair: Prof Abbas Rajabfard (Australia)

TF: Diversity and inclusion in the Surveying Profession

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Chair: Stephen Djaba (Ghana)



FIG Working Weeks; Pillars & Member Partners Build on Pillars • 2023 Orlando – Sustainability & Climate – Protecting our world Conquering New Frontiers

- 2024 Accra Planet & Resources – Building resilient environment
- 2025 Brisbane Geospatial/ People
 Collaboration, Innovation and Resilience: Championing a Digital Generation
 2026 Cape Town - Congress

AND: FIG Katmandu, Nepal 12th November https://www/fig.net/nepal2024



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4. Final Words





3. Pillar iii: Partnerships

Sustainability is about making sure that both internal and external partnerships are working effectively and cultivating stronger engagement

Our relationships;

- · Effective (All) member engagement
- You: M L&R+ CSGPC, CIREA, CLSS + Academic + lap and more
- · Building and working for mutual benefit with external partners, and
- Providing Institutional capacity development And, with UN But note

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Connectivity - Critical Questions

- · Connected society; yet our connectivity is lacking? with a trillion plus connected objects; a continuous stream of data, how to handle all that information?
- E.g car journeys: gathered by automobile manufacturers
- Governments and business: To: attract, retain and grow means it is an imperative to have globally competitive broadband speeds......
- Data poverty: Un even access to internet across the world
- Ethics: Frameworks and standards in Geo spatial data

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Addressing (some) global challenges Commission 3 spatial data and 9 Appraisal WG 3.1: Geospatial data: pro Connectivity: We require better v, and servic WG 3.2: Urban challenges in deve solutions es (joint WG with Co WG3.3: GIS for sustainal planning (joint WG with C able (geo-)spatia will it be used? how secure is the WG3.4: LADM and 3D LA (joint WG with Co IoT? WG3.5: Geospatial next (joint with the Young Surveyors Network) Technology is racing to make Definition of Transparency on Real Estate

Markets (WG 9.1) Best practice Cases on Transparent Rea estate Markets (WG 9.2)

ated Valuation Modelling (AVM) with machine learning and artificial intellige (WG 9.3)

- thought-out and more transparent
- Who has access to our data? how

possibilities, but there is a <u>need to</u> take decisions based on factors we could never considered or even captured before

Land management (LM) activities reflect drivers of globalization and technology.



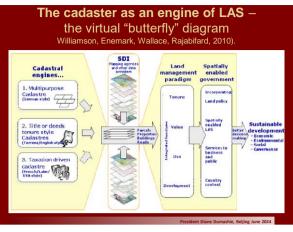
Land governance: policies, processes and institutions key to achieve agenda 2030 The Land management paradigm: LA functions (land tenure, value, use + development)

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Importantly,

- LM activities establish multifunctional information systems, incorporating our technical diversity and other useful data.
- In turn:
- Sustainable development, demands comprehensive data information about environmental, social, economic, and governance conditions along with other land related data.



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Spatial Data Infrastructure – Comm 3



- The cadaster as an engine of LAS the virtual "butterfly" diagram (Williamson, Enemark, Wallece, Rejabilited, 2010).
 Represented by one wing the cadastral processes, and the other the outcome of using the processes to implement the land management paradium.
- Once the cadastral data are integrated within the SDI (body of the butterfly), the full multipurpose benefit of the LAS/LM, so essential for sustainability, can be achieved.

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UNGGIM Centres of Excellence

Geospatial intelligence

- Deqing, China:
 Established the UN Global Geospatial Knowledge and Innovation Centre (UN-GGKIC)
- Bonn, Germany: Global Geodetic Center of excellence

 Riyadh, Saudi Arabia: Global Geospatial Ecosystem Centre of Excellence

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IMPLEMENTING URBAN AGENDA URBAN AGENDA

Collaboration with UN Habitat

- Engagement promoting housing & sustainable urbanization: • World Urban Forums attendance
 - Presenting and Habitat Professionals Forum
 - 2024 Egypt WUF. Note Nanjing 2008 harmonious urbanization and balanced territorial development.
 Who & What:
 - FIG/ GLTN Urban & Rural interface
 - UN-Habitat China office has collaborations with national agencies and cities in China, on urban planning and design/ regeneration, heritage, smart cities, urban/ rural revitalization and other topics.
 - Chinese partners on the spatial challenges of metropolitan cities and neighborhoods and promotes participatory planning and design tools.

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Serving People and Planet 2030 and Beyond

Tackling the Global Challenges

Faced with the magnitude of change in our World, on our Planet:

- We can strengthen our skills in the use of geospatial information in all its forms
- lf
 - We do the very best we can over the coming decades

Our professional relevance to society, is in our collective, partnership hands

FIG



 • WWW.fig.net

 • President

 • FIG: Dr D Dumashie

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