



#### **Transforming Our World**



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

#### FIG Vision & Agenda 2023-2026:

- The need for a sustainable profession that
  - delivers sustainable services to clients
  - addresses the 2030 agenda,
  - including acting now to address the Climate agenda

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# SDG's Sustainability To Resilience Professionals Imperative



Picture: Jack Dangermond ESRI President ESRI UC, July 2023

SDGs our 'imperative' to act:

- Sustainable impact & measure,
- Resilience, capacity to withstand
- And, <u>adding value</u> requires us to step up...

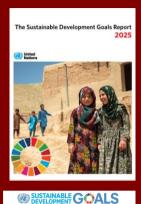
To ensures we,

- Connect,
- Collaborate and
- Creating a meaningful Contribution

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# Geospatial sector greater contribution is now an imperative....



Sobering report:

- · 35% of targets are on track
- · Nearly half progress too slowly, and
- 18% targets are regressing.
- In response UN call for ambitious action in six critical areas\*: Including Digital transformation
- · How we add value is explained...

\*6 = Food systems, energy access, digital transformation, education, jobs and social protection, and climate and biodiversity

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#### **Overview**

- 1. Community
- 2.Connect
- 3. Collaborate
- 4. Creating our Contribution

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- 1. Community FIG: Who What and How
- 2. Connectivity
- 3. Collaborate
- 4. Creating our Contribution

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# Who and What: International Federation of Surveyors



#### FIG:

- Members organisation (incl Host Ghana/ LiSAG), Academics, Affiliates and Corporate members
- Drawing from over 120 countries
- **Delivering:** Knowledge generation, Outreach and Capacity building i.e......

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#### **How: Depth of experience**



- · Professional: Build capacity
- · Global: Standards, Best practice
- Institutional Development: Regional and International

#### Strength in Africa

- Capacity Development Network
- Young surveyors Africa Region
- D&I Task Force: incl 'Kids Conference'
- Senior Leadership

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### Commissions are our engine

Activity and outputs with Commissions:

- 1.Professional standards & practice
- 2.Professional Education
- 3. Spatial information management
- 4. Hydrography
- 5. Positioning and measurement
- 6. Engineering surveys
- 7.Land management & cadastre
- 8. Spatial planning and economic development
- 9. Valuation and real estate
- 10.Construction economics

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# Spatially Enabled Land Management (LM) activities....



Land Administration Functions

> Land Tenure, Land Value Land-Use, Land Development

.. reflect drivers of globalization and technology.

 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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# LIM: Applied in Geospatial Ecosystem GIS Digital Twin Infrastructure Ourstruction development Utrian Paramy Valuation & Taxation Land Records Cadastre Land Poster, President NSPS, ESRI.- Conference Paper delivered at FIG Brisbane 2025 Appendix 1 FIG President Dr Diane Dumashie, Accra November 2025







- 1. Community FIG
- 2. Connectivity Geospatial Transformation
- 3.Collaborate
- 4. Creating our Contribution

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# Innovating in the Geospatial Sector to meet todays Sustainability Challenges



- WG 3.1: Geospatial data: professionalism, technology, and services
- WG 3.2: Urban challenges in developing countries (joint WG with Commission 9
- WG3.3: GIS for sustainable (geo-)spatial planning (joint WG with Commission 8
- WG3.4: LADM and 3D LA (joint WG with Commission 7)
- WG3.5: Geospatial next (joint with the Young Surveyors Network)





Collaborative Joint AfricaGis 2025 & UN GGIMAfrica

#### FIG Spotlight:

- Commission spatial Information Mgt
- Geospatial Task Force (TF)
- Informed by TF's SDG and Climate

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#### **How we Gather & Deal with our Data**

# Positioning (Geodetic) Address (Buildings) Cadastre (Fearure) Names (Gazettere) Water (Phydrology) Administrative Boundaries Transport Bathymetry (Phydrogophy) Land cover (Vegetation) Clevation Imagery (Satellite & Photo)

Gregg Scott ED SDG Alliance PVBLIC Foundation. April 2025 Melbourne

#### We are

- Building Geospatial Intelligence into our Cities
- Innovating Geospatial Data, Modelling and Analytics
- Combining with Disruptive & Transformations Technologies, (Innovation Geo Ai & Smart Digital)
- Linking geospatial data with e.g climate, land administration, and disaster risk data.
- But our Added Value is
  - The shift from data collection to data integration and analysis
- But, .....

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#### **Addressing Critical Challenges**







..... these Digital Technologies and Solutions

- Seeing a Growing Digital Divide
- Challenges: interoperability, data standards (ISO& OGC), ethics, and the evolving skillsets.
- Need to contextually regionalise measurement and impact of SDGs (S.K. Annim- Dir African Centre for Statistics)

Addressing these will,

 reinforce the shared areas of the GIS and surveying disciplines, recognising that a resilient profession lies in working together.....

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#### **Digital Trending: AGI\* Foresight report 2025**

**Top Trends for next 5 years:** 

- · Data Growth: demand and management.
- Al Integration : Especially ethics, security.
- · Infrastructure: from traditional to modern needs.
- Earth Systems Revolution: Innovating tomeet the challenges of Earth's systems
- Skills upskilling for evolving needs
  - **Collaboration among geospatial** stakeholders.







- 1. Community FIG
- 2. Connectivity
- 3. Collaborate Geospatial stakeholders
- 4. Creating our Contribution

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#### **Collaboration: Partnerships**



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







FIG relationships;

- Effective (All) member engagement (
- Building and working for mutual benefit with external partners, and
- · Providing Institutional capacity development

UN Agencies, and UN GGIM.....

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#### **UN GGIM & FIG**



UN-GGIM: Geospatial Societies UNITED NATIONS COMMITTEE OF EXPERTS ON

- Observer status & Geospatial Societies (e.g ISPRS, ICA)
- Subcommittees on Geodesy (FIG Chair, commission for Positioning and Measurement)
- Regional working (Africa, Asia Pacific & Americas)
  - Africa: AfREF and Land Administration
- Other Working Groups (LAM- Framework for Effective Land management (FELA) DM + Hydro
- Assisting Centres of Excellence and engagement by Heads at FIG Conference plenary
- And...... Integrated Geospatial Framework (IGIF)....

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# Geospatial sector The Professionals 'Value –add'...



Image courtesy Gregg Scott SDG Alliance

...**Is** Information TO Intelligence
Assist Government :

- Capacity building
- Data Integration
- International collaboration
- Geo support SDG monitoring (indicators)
- Awareness and Training

#### And

 To meet expectations of Society (IoT etc)

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- 1. Community FIG
- 2. Connectivity
- 3. Collaborate
- 4. Final Words, our Contribution

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#### Spatially Enabled Land Governance ...



Image courtesy Gregg Scott SDG Alliance

RICS Sept 2018 Modus

Arguably,

"As we look to the future,

it will become increasingly apparent that the payoffs from

Geo data + smart infrastructure will be even more dependent on the intelligence of our decision making today.....,

Rather than on the application and technologies we deploy"

Imperative our role
Information to Intelligence

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# Geospatial imperative to contribute to sustainable development



It is all about People!

What does this look like? A Conscious emphasis:

- Community Survey and geospatial Professional working
- Connectivity Data information leading to Data intelligence
- Collaboration Purpose and reliability with a visible approach
  - Power of Partnership: Stronger together

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# Harnessing Geospatial Intelligence And, Step- up to remain relevant & demonstrate our resolve.



We are trusted

- To navigate in a changing and challenging world:
- To be agile and brave as we steer our survey and geospatial Profession
- Evidenced by our desire for Africa to be a powerhouse by providing;

Inclusive and sustainable development in unity, that benefits the prosperity of All.

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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 do the very best we can over the coming decades

Our professional added value to society is in our collective, partnership hands

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FIG

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#### Thank You

- President
- FIG: Dr D Dumashie
- <a href="mailto:dddpresident@outlook.com">dddpresident@outlook.com</a>
  - WWW.fig.net



Look forward to seeing you FIG Congress Cape Town 24/ 29th May 2026

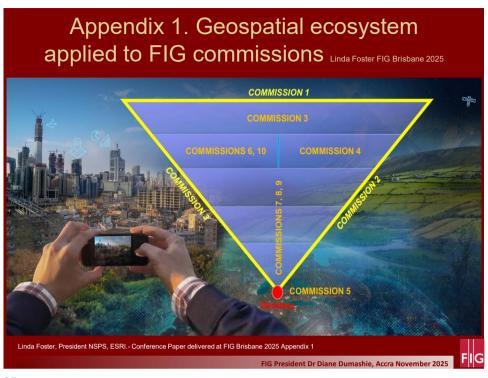




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#### Appendices 1 & 2

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# Appendix 2 Foresight Trending AGI 2020- 2025



2020 – five year Foresight Trends Significant impact on economy, environment and society

- Open data
- Big Data
- BIM assets, future cities -
- Technologies for consumer servicesdata collection iot real time data
- Policy and cultural
- The Association for Geographical Information – https s://www.agi.org.uk

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