Session 1B: Future Geospatial Information Ecosystem

UNWGIC, Hyderabad, India. 10-14th October 2022

Moderated by Dr. Greg Scott, Inter-regional Advisor, UN-GGIM
Session Outline

- **Welcome and opening remarks** – Dr. Greg Scott

- **Geospatial ecosystems and how they differ from SDI’s** - Dr. Zaffar Sadiq Mohamed Ghouse

- **Drivers for change and technologies enabling change** - Ms. Ananya Narain

- **Bridging the digital divide with knowledge on-demand** - Dr. Lesley Arnold

- **Discussion – Are we moving in the right direction?**
  Ms. Barbara Ryan, Ms. Meizyanne Hicks, Ms. Ingrid Vanden Berghe, Mr. David Henderson and Mr. Sanjay Kumar
Drivers for change and the technologies enabling change

Ms. Ananya Narain
Director, Consulting, Geospatial World
Positioning geospatial information to address global challenges

**Macro Drivers for Change**

- **Unified solutions to global problems**
  - Harness geospatial intelligence from a local to global level
  - Integrated solutions to address common challenges
  - Benefit of ripple effect
  - Leverage global Innovation

- **Equitable access to knowledge on-demand**
  - Societal expectations for knowledge on-demand
  - Designed for general users
  - Innovation will require data to be processed and contextualised for the individuals in real time.

- **Bridge the geospatial digital divide**
  - An ecosystem accessible and usable to all
  - Knowledge available to everyone
  - Design the future ecosystem with a priority on putting developing nations at the centre of everything we do
Mega Drivers of Change

- Digital Technology Advancements
- New Geospatial Data Sources and Geospatial Technology Innovations
- Emphasis on Geospatial Data and its Dynamics
- Focus on Strategic National Priorities and SDGs
- Evolving Role of Federal Geospatial Data Providers
- Advancing User Demand and Expectations
- Progressing to Become a Multi-Stakeholder Ecosystem
- Realignment of Business Models
- Analysis and Automation
- Unearthing the ‘Economics’ of Geospatial

Source: UN-GGIM Discussion Paper on Future National Geospatial Ecosystem
Positioning geospatial information to address global challenges

Source: GeoBuiz Report 2022
The Changing Geospatial Ecosystem

1\textsuperscript{st} Generation
Data/Product Based
Linkages of existing and future database

2\textsuperscript{nd} Generation
Process Based
Creation of an Infrastructure to facilitate the management of info assets

Driven by data sharing and re-using data collected by wide range of agencies for a diversity of purpose

Role
Profound impact of Technology (Moving towards 4\textsuperscript{th} Industrial Revolution and Way Forward)

National Government

Future Generation
Knowledge Based
Real-time generation and integration of data
Integration of data from private (geospatial and other digital/data economy generated data), citizen and academia

Knowledge

Changing geospatial landscape
- New geospatial data sources and services
- Technological advances
  - (Digital Twin/Metaverse)
- More automation, analytics, and intelligence
- Changing user expectations
- Transforming Organizations vision and mission

Private Sector
The Knowledge Management Cognitive Pyramid demonstrates the relationship between data and knowledge. 4IR technology increasingly enable knowledge to be generated ‘automatically’, improving decision making and adding value.
Discussion - Are we moving in the right direction?

Moderator Dr. Greg Scott Inter-regional Advisor, UN-GGIM, United Nations

Panellists

Ms. Barbara Ryan, Executive Director, World Geospatial Industry Council

Ms. Meizyanne Hicks, Director Geospatial Information Division, L&S Dept, Fiji

Ms. Ingrid Vanden Berghe, Administrator General, National Geographic Institute, Belgium, Co-Chair, UN-GGIM

Mr. David Henderson, Chief Geospatial Officer, Ordnance Survey, UK

Mr. Sanjay Kumar, CEO, Geospatial World