DECADE OF ACTION

Joint Session of the Statistical Commission for Africa and the Regional Committee of the United Nations Global Geospatial Information Management for Africa
25 October 2022, Addis Ababa, Ethiopia

STATISTICAL GEOSPATIAL INTEGRATION: CHALLENGES AND OPPORTUNITIES

Greg Scott, UN-GGIM Secretariat
Environmental Statistics and Geospatial Information Branch
United Nations Statistics Division
Department of Economic and Social Affairs
United Nations, New York

INTEGRATION

Organizations: Leadership, Purpose, Relevance, Impact

Data: Collection, Quality, Accuracy, Sustainability, Impact

SDGs: Frameworks, Implementation, Measuring, Impact

Through: Partnerships, Collaboration, Cooperation, Interoperability, Shared Purpose, Benefits, Impact

Global Development Frameworks

2030 AGENDA FOR SUSTAINABLE DEVELOPMENT

Sendai Framework for Disaster Risk Reduction 2015-2030

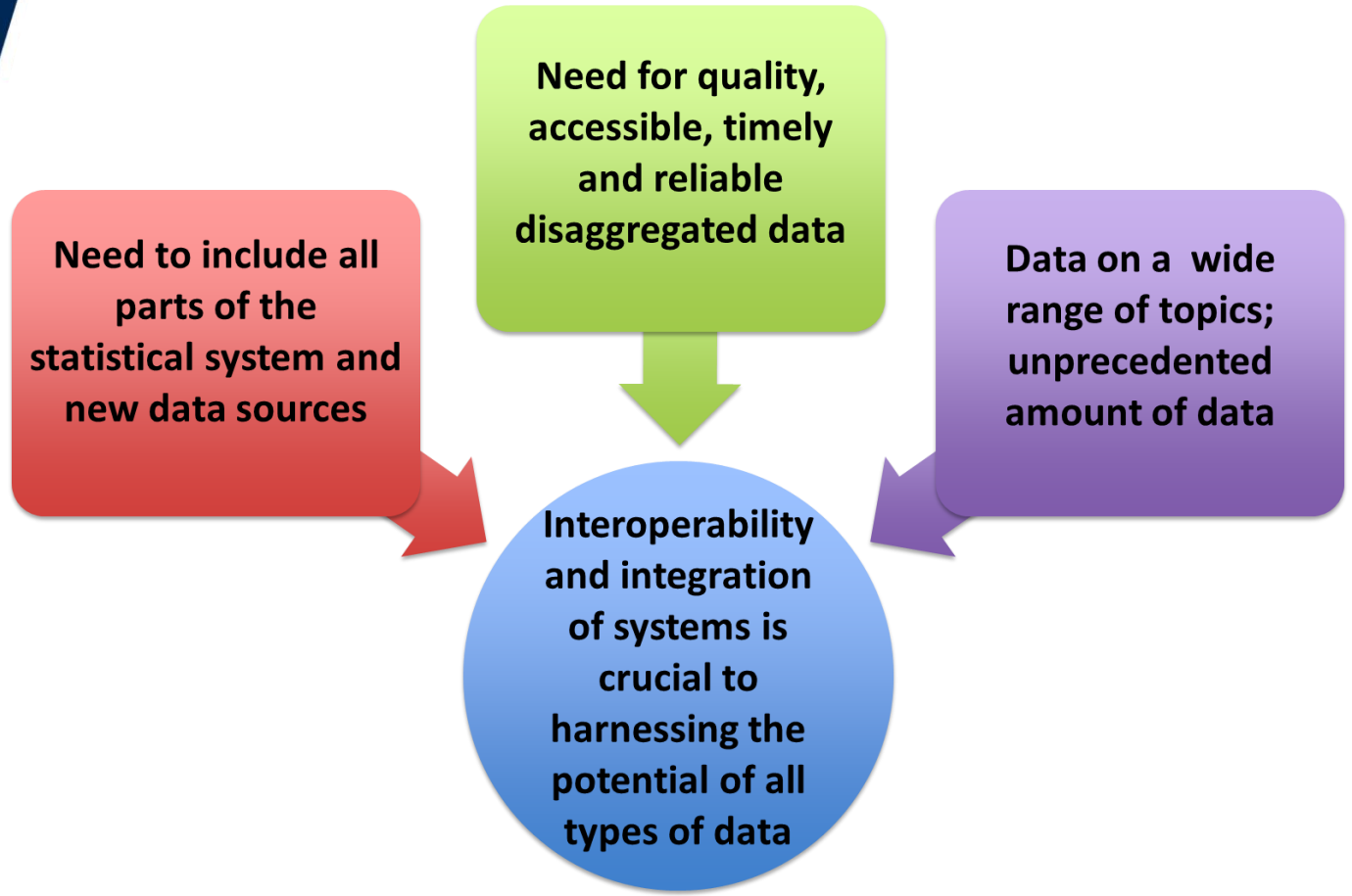
Paris Agreement on Climate Change

SAMOA Pathway for SIDS

Addis Ababa Action Agenda

Habitat III New Urban Agenda

Our Ocean, Our Future: Call for Action



UN-GGIM

United Nations Committee of Experts on Global Geospatial Information Management

Interoperability and Integration

UN-GGIM Global Geospatial Frameworks

INTEGRATED GEOSPATIAL INFORMATION FRAMEWORK (IGIF)

- Strategic Framework on Geospatial Information and Services for Disasters
- Global Statistical Geospatial Framework (GSGF)
- Framework for Effective Land Administration (FELA)

Global Fundamental Geospatial Data Themes

Global Geodetic Reference Frame (GGRF)

National Institutional Arrangements in Geospatial Information Management

Role of Standards in Geospatial Information Management

Compendium on Licensing of Geospatial Information

Statement of Shared Guiding Principles for Geospatial Information Management

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United Nations Committee of Experts on Global Geospatial Information Management

UN-GGIM Global Geospatial Frameworks

Global Geodetic Reference Frame

Geographical Names

Addresses

Functional Areas

Elevation and Depth

Population Distribution

Land Cover and Land Use

Geology and Soils

Buildings and Settlements

Land Parcels

Transport Networks

Physical Infrastructure

Water

Orthoimagery

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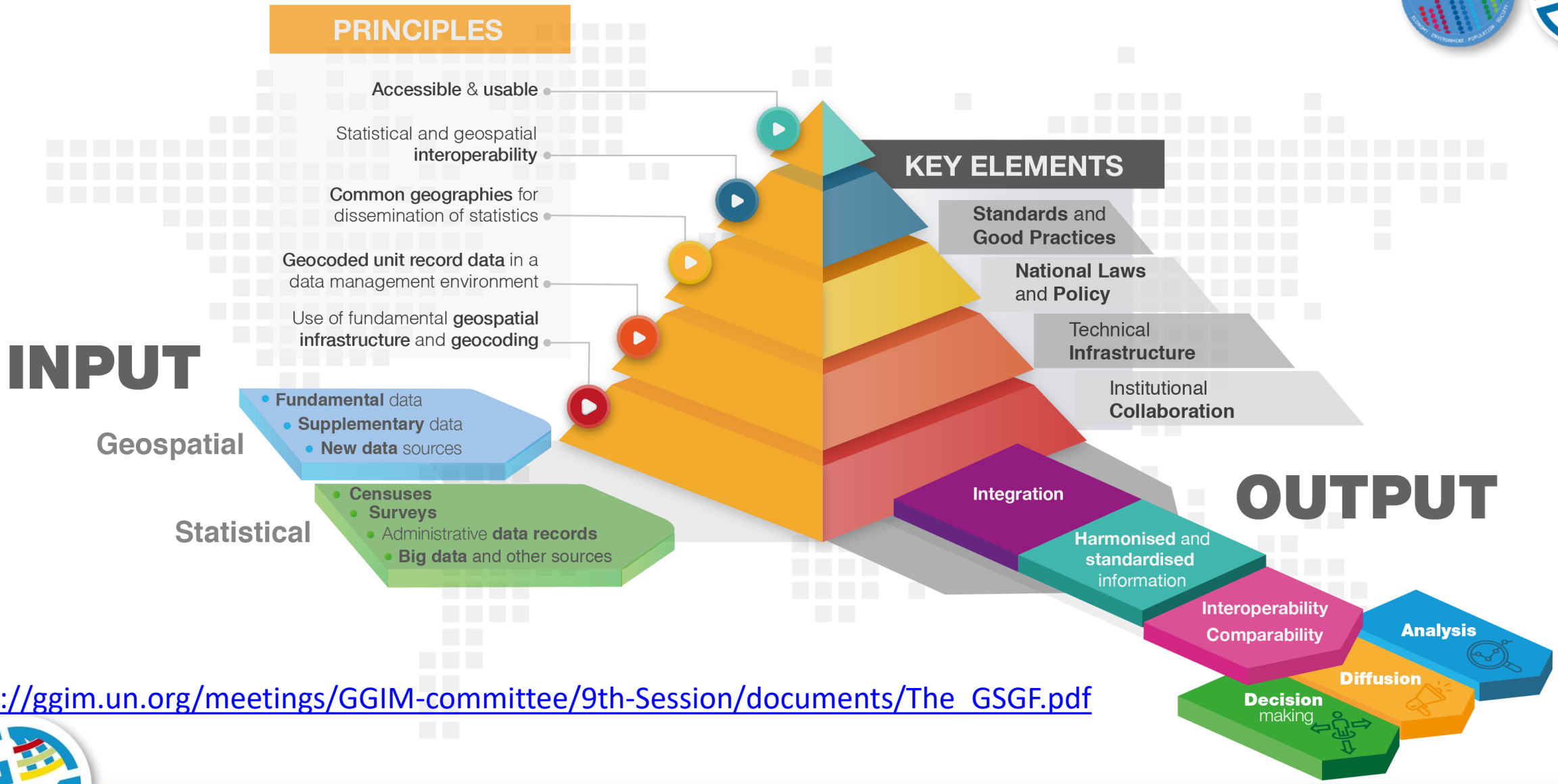
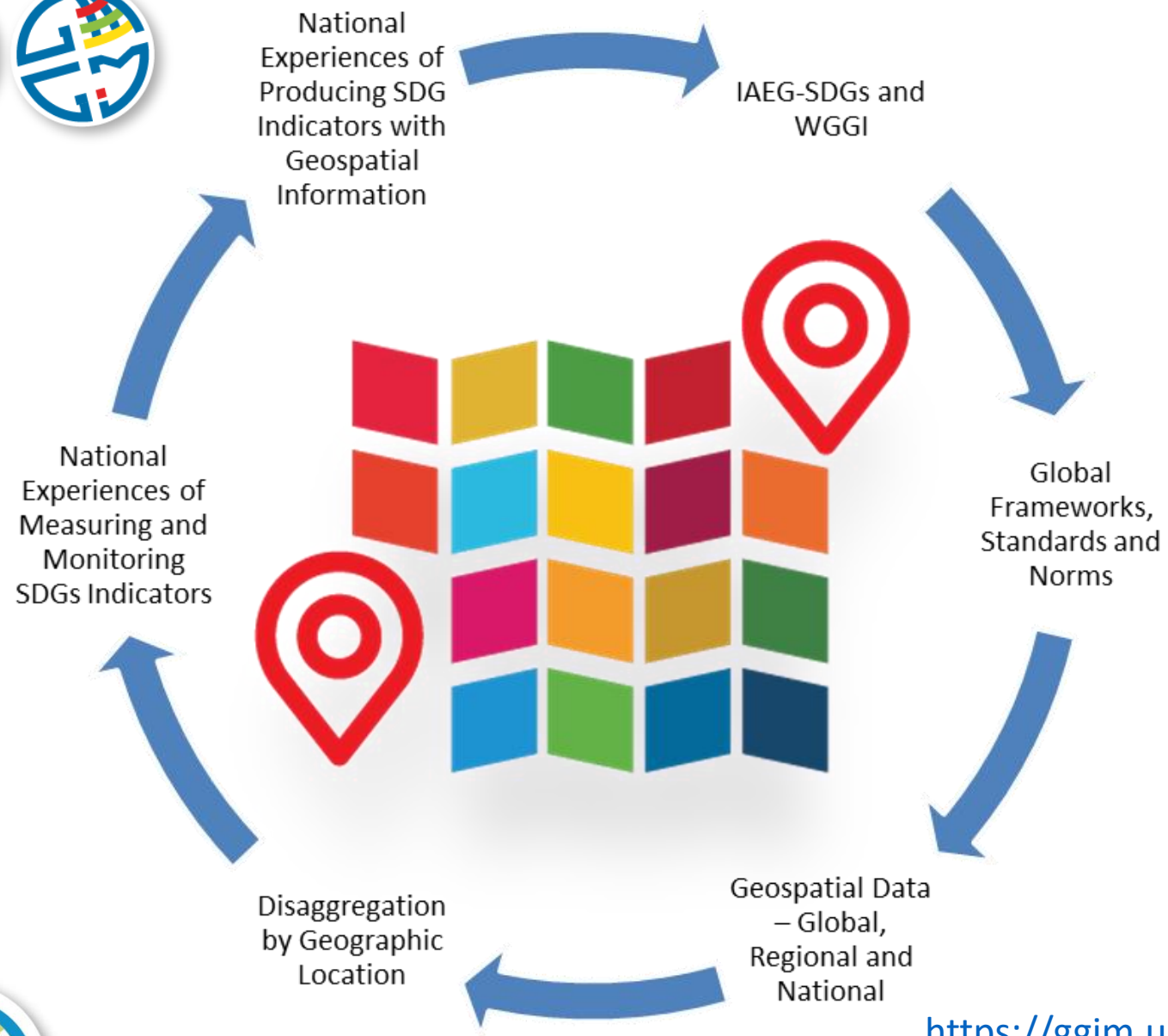
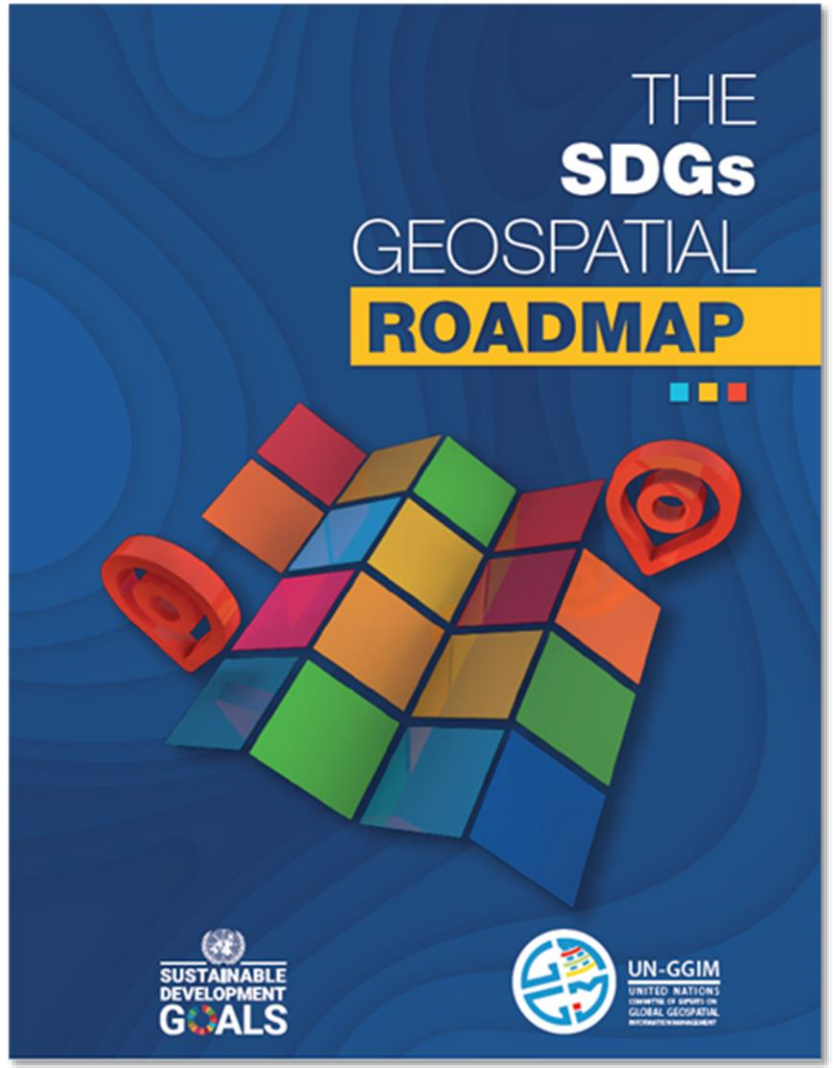


https://ggim.un.org/meetings/GGIM-committee/9th-Session/documents/The_GSGF.pdf





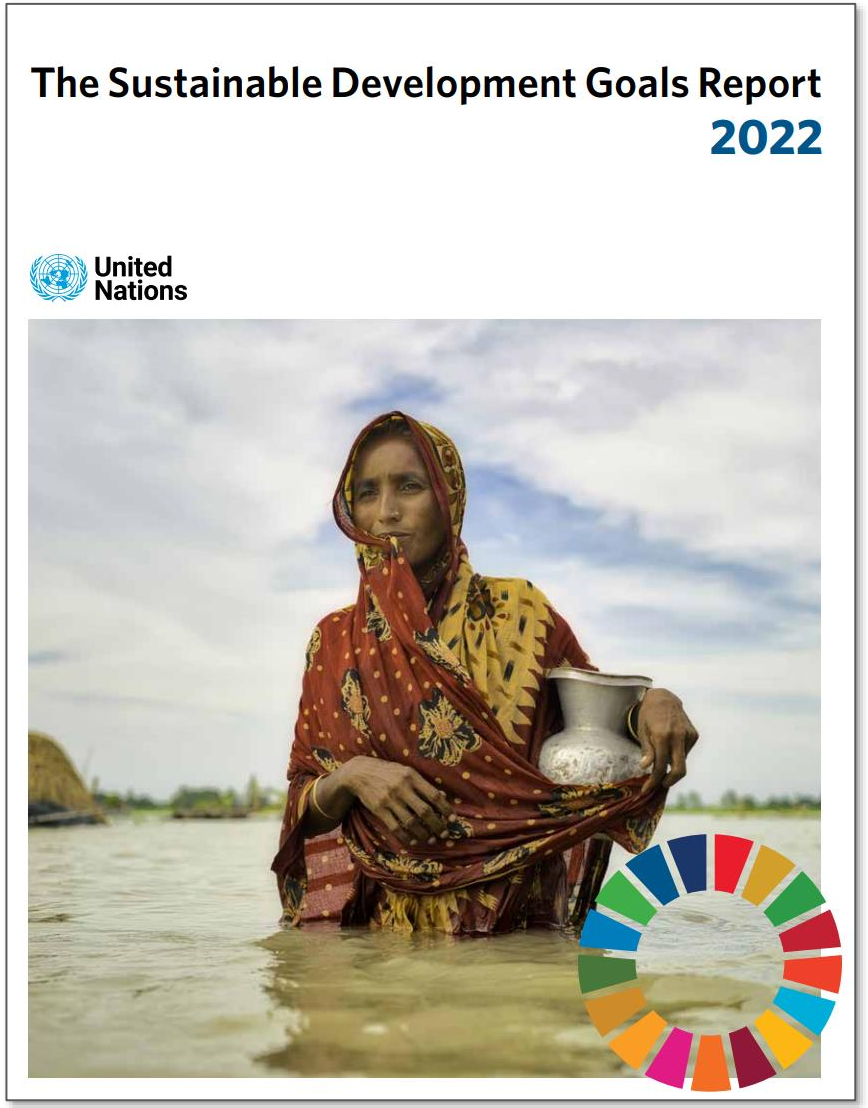
https://ggim.un.org/documents/SDGs-Geospatial-Roadmap.pdf

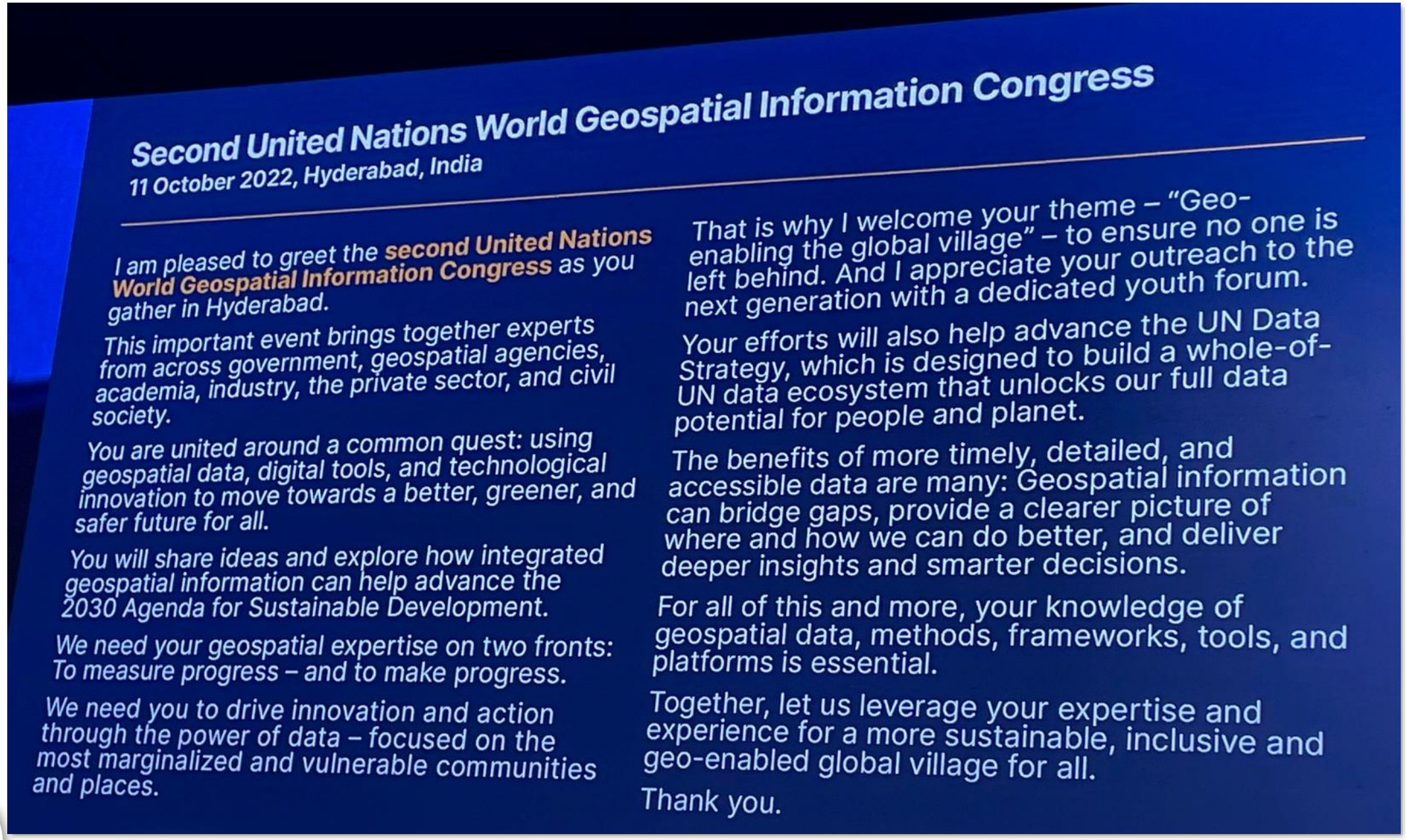
THE SUSTAINABLE DEVELOPMENT GOALS REPORT 2022

" We must rise higher to rescue the Sustainable Development Goals – and stay true to our promise of a world of peace, dignity and prosperity on a healthy planet…

... However, significant data gaps still exist in terms of geographic coverage, timeliness and level of disaggregation, making it difficult to fully comprehend the pace of progress towards the realization of the 2030 Agenda, differences across regions, and who is being left behind… "

António Guterres
Secretary-General, United Nations




Second United Nations World Geospatial Information Congress
11 October 2022, Hyderabad, India
I am pleased to greet the second United Nations World Geospatial Information Congress as you gather in Hyderabad.
This important event brings together experts from across government, geospatial agencies, academia, industry, the private sector, and civil society.
You are united around a common quest: using geospatial data, digital tools, and technological innovation to move towards a better, greener, and safer future for all.
You will share ideas and explore how integrated geospatial information can help advance the 2030 Agenda for Sustainable Development.
We need your geospatial expertise on two fronts: To measure progress – and to make progress.
We need you to drive innovation and action through the power of data – focused on the most marginalized and vulnerable communities and places.
That is why I welcome your theme – "Geo-enabling the global village" – to ensure no one is left behind. And I appreciate your outreach to the next generation with a dedicated youth forum.
Your efforts will also help advance the UN Data Strategy, which is designed to build a whole-of-UN data ecosystem that unlocks our full data potential for people and planet.
The benefits of more timely, detailed, and accessible data are many: Geospatial information can bridge gaps, provide a clearer picture of where and how we can do better, and deliver deeper insights and smarter decisions.
For all of this and more, your knowledge of geospatial data, methods, frameworks, tools, and platforms is essential.
Together, let us leverage your expertise and experience for a more sustainable, inclusive and geo-enabled global village for all.
Thank you.

"The COVID-19 pandemic should have been a wake up call for the world in taking everyone along. Billions of people in the developing world needed diagnostics, medicines, medical equipment, vaccines, and more. Yet, they were left to their own fate. There is a need for an institutional approach by the international community to help each other during a crisis. Global organisations like the United Nations can lead the way in taking resources to the last mile in every region.

Even in fighting climate change, hand-holding and technology transfer are crucial. We share the same planet. I am sure we can share best practices for saving our planet too. The possibilities that geospatial technology offers are endless. Sustainable urban development, managing and even mitigating disasters, tracking the impact of climate change, forest management, water management, stopping desertification, food security.

There is so much that we can do for our planet through geospatial technology."

Global Development Frameworks

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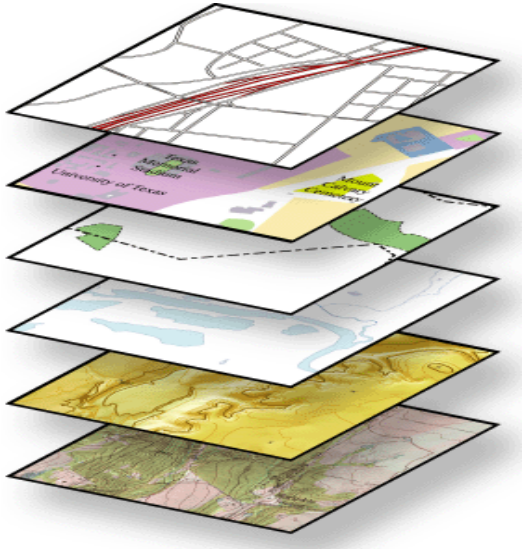
WHY WAS THE IGIF NEEDED?



Geospatial information is a critical component of the national infrastructure and knowledge economy; a blueprint of what happens where, and the means to integrate a wide variety of government services.

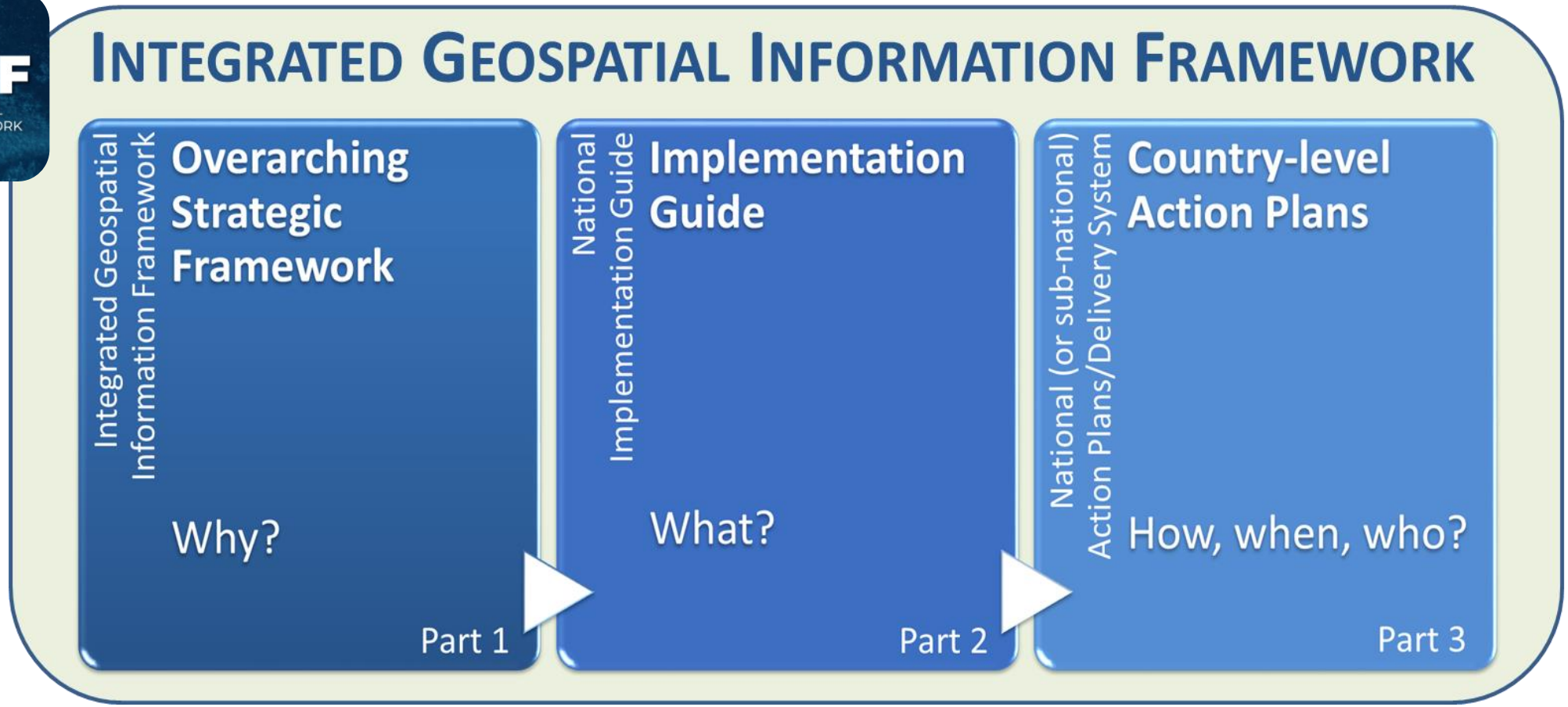
Geospatial information has emerged as a major contributor to economic transformation in many countries, including e-government, e-service and e-commerce.

Yet there is still a considerable lack of awareness and understanding of the vital and integrative role of geospatial information and related enabling architectures, such as National Spatial Data Infrastructures (NSDIs), in contributing to national development.

There needs to be more institutional collaboration, coordination, interoperability and integration across the various national data information systems and platforms.

UN·IGIF
INTEGRATED GEOSPATIAL INFORMATION FRAMEWORK

WHERE GEOGRAPHY MEETS HUMANITY



The IGIF is a multi-dimensional Framework that is aimed at strengthening national geospatial information management in countries, developing countries in particular. It comprises an overarching **Strategy** – from local to global, **Implementation** guidance, and **Action** plans at the country level. The IGIF explains the Why, What, How, When and Who of a nation's geospatial information program.

http://ggim.un.org/IGIF/

9 Strategic Pathways

Governance →

Technology →

People →

Knowledge ▪ *Decisions* ▪ *Development*

Value ▪ *Applications* ▪ *Technology*

Users ▪ *Citizens* ▪ *Access*

Society ▪ *Economy* ▪ *Environment*

Governance and Institutions	Policy and Legal	Financial
Data	Innovation	Standards
Partnerships	Capacity and Education	Communication and Engagement

Anchored by 9 Strategic Pathways, the IGIF is a mechanism for articulating and demonstrating national leadership in geospatial information, and the capacity to take positive steps. The Strategic Pathways 'implement' the IGIF through actions.

SDG DATA ALLIANCE

SDG Data Alliance

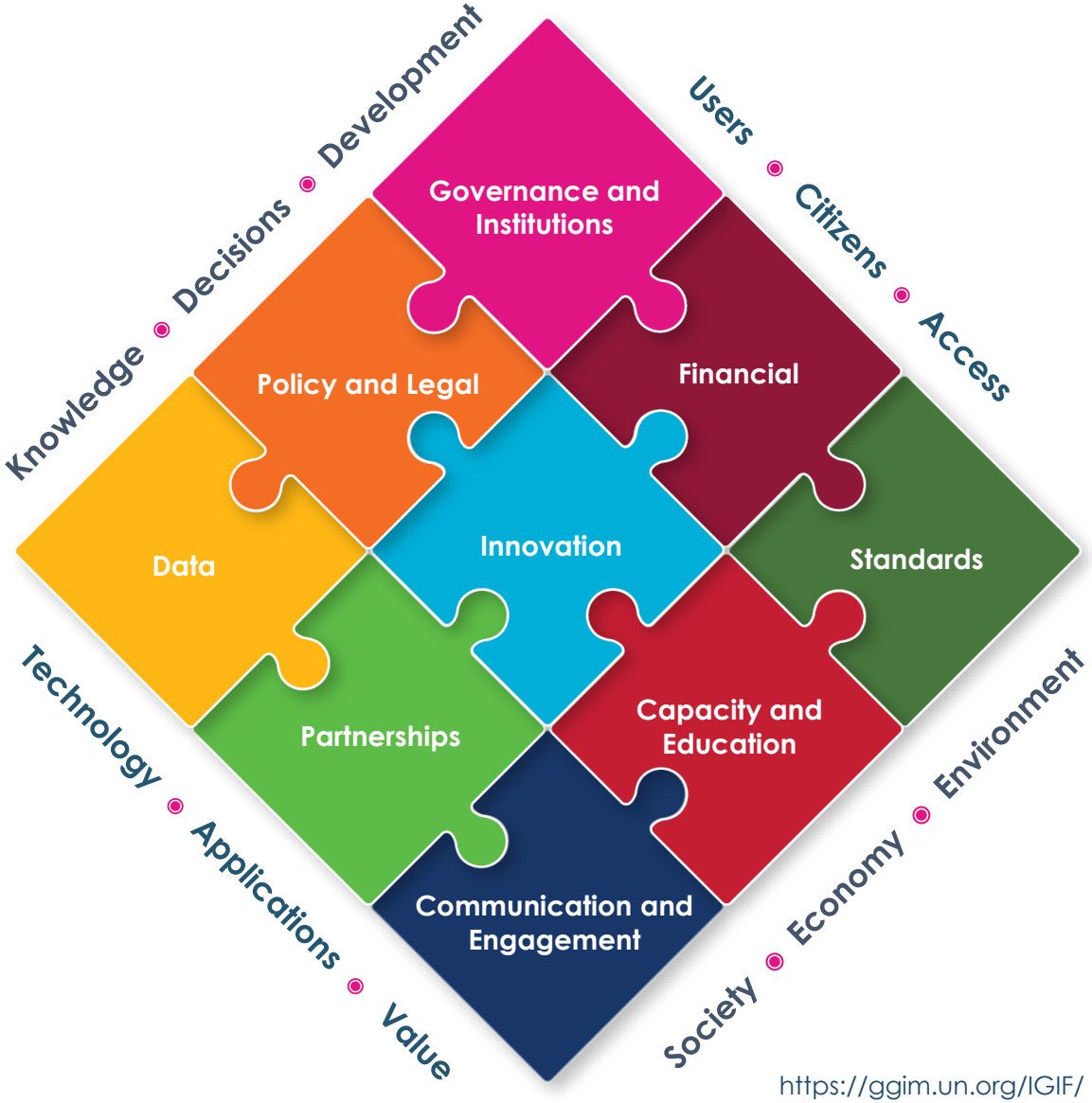
Based on the foundational principle of reducing inequalities of all kinds, the **W.K. Kellogg Foundation, Esri, Chia, PVBLIC Foundation, the United Nations** Global Geospatial Information Management Section in the Statistics Division, Department of Economic and Social Affairs (DESA), joined forces in 2021 to form **the SDG Data Alliance**.

Using the power of **purpose-driven collaboration** and leading GIS technology, this influential group of partners **will accelerate achievement of the SDGs** by creating SDG Data Hubs and Country-level Action Plans across developing countries in Africa, Asia and the Pacific and Latin America and the Caribbean.

SDG DATA ALLIANCE

Objectives and Outcomes

- **Leverage and strengthen** the in-country expertise from geospatial experts within and across governmental agencies and organizations leveraging the data hubs
- **Address national and global reporting** requirements to report on the SDGs with specific focus on SDG 10
- **Accelerate achievement of the SDGs** by accurately identifying areas for focus and investment



https://ggim.un.org/IGIF/

The SDG DATA ALLIANCE began country-level engagement with an **initial group of countries.** There are a total of 30 candidate countries

Candidate Countries

Africa

Burkina Faso*
Cameroon*
Comoros
Congo DRC
Eswatini*
Ethiopia*
Kenya
Madagascar
Morocco*
Mozambique*
Niger
Rwanda*
Senegal*
South Africa*
Tunisia

Asia and The Pacific

Fiji*
Indonesia
Nepal
Philippines
Tonga*

Latin America and The Caribbean

Chile*
Colombia
Dominican Republic*
Ecuador
El Salvador
Guatemala*
Haiti*
Honduras*
Panama*
Saint Lucia

*Currently working with Alliance

INTEGRATION

Organizations: Leadership, Purpose, Relevance, Impact

Data: Collection, Quality, Accuracy, Sustainability, Impact

SDGs: Frameworks, Implementation, Measuring, Impact

Through: Partnerships, Collaboration, Cooperation, Interoperability, Shared Purpose, Benefits, Impact