

Transforming our world -
The 2030 Agenda for
Sustainable Development



GIS Day 2021: UN Geospatial Network



UN GEOSPATIAL NETWORK
UNITED NATIONS COMMITTEE OF EXPERTS ON
GLOBAL GEOSPATIAL INFORMATION MANAGEMENT

THE INTEGRATED GEOSPATIAL INFORMATION FRAMEWORK: STRENGTHENING NATIONAL GEOSPATIAL INFORMATION MANAGEMENT – WHAT DOES IT MEAN FOR US?

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Global Geospatial Information Management

Positioning geospatial information to address global challenges

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United Nations Committee of Experts on Global Geospatial Information Management



Established in 2011, reports annually to ECOSOC, an intergovernmental United Nations Committee of Experts to:

- Discuss, enhance and coordinate global geospatial information management activities by involving Member States at the highest level.
- Make joint decisions and set directions on the use of geospatial information within national, regional and global policy frameworks.
- Address global issues and contribute collective knowledge as a community with shared interests and concerns.
- Develop effective strategies to build geospatial capacity in developing countries.
- Make accurate, reliable and authoritative geospatial information readily available to support national, regional and global development.

<https://ggim.un.org/Mandates/>



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THE ARCHITECTURE OF UN-GGIM



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Geospatial
Societies

Academic
Network

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Network

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Geospatial
Network

T h e m a t i c G r o u p s

High-Level Group on the IGIF; Subcommittee on Geodesy; Expert Groups on the Integration of Statistical and Geospatial Information and Land Administration and Management; Working Groups on Geospatial Information and Services for Disasters, Policy and Legal Frameworks for Geospatial Information Management and Marine Geospatial Information

F u n c t i o n a l G r o u p s



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CONTEXT: GLOBAL DEVELOPMENT

Global Development Frameworks

SUSTAINABLE DEVELOPMENT GOALS



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

The transformative nature of the 2030 Agenda requires new and innovative data sources and integration approaches to implement the SDGs and to 'leave no one behind'.

The SDGs are highly dependent on geospatial information and enabling technologies as the primary data and tools for relating people to their location, place and environment, and to measure 'where' progress is, or is not, being made, especially at local levels.



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THE SUSTAINABLE DEVELOPMENT GOALS REPORT 2021

The Sustainable Development Goals Report
2021

“ The SDGs were already off track even before COVID-19 emerged. Progress had been made in poverty reduction, maternal and child health, access to electricity, and gender equality, but not enough to achieve the Goals by 2030. In other vital areas, including reducing inequality, lowering carbon emissions and tackling hunger, progress had either stalled or reversed...

... the availability of high-quality data is also critical, helping decision makers to understand where investments can have the greatest impact; but improved data collection will not happen without increased data financing, from both international and domestic resources.

António Guterres
Secretary-General, United Nations



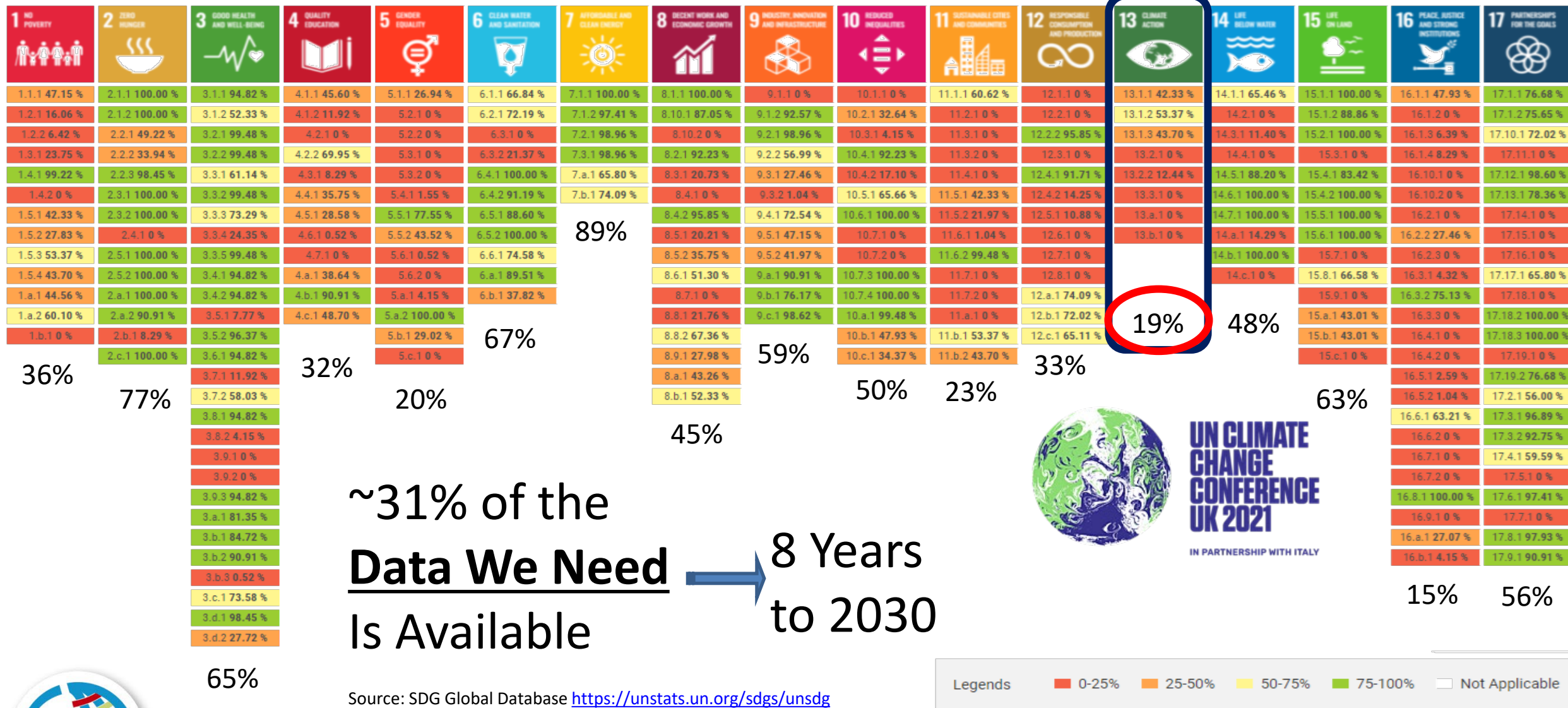
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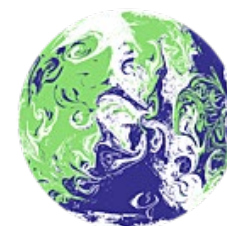
TAKING STOCK: THE DATA GAP



~31% of the Data We Need Is Available → 8 Years to 2030

Source: SDG Global Database <https://unstats.un.org/sdgs/unsdg>

Legends 0-25% 25-50% 50-75% 75-100% Not Applicable



UN CLIMATE CHANGE CONFERENCE UK 2021

IN PARTNERSHIP WITH ITALY



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FRAMEWORKS

Global Development Frameworks

UN-GGIM Global Geospatial Frameworks

2030 Agenda for Sustainable Development

Sendai Framework for Disaster Risk Reduction 2015-2030

Paris Agreement on Climate Change

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HABITAT III New Urban Agenda

Our Ocean, Our Future: Call for Action



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

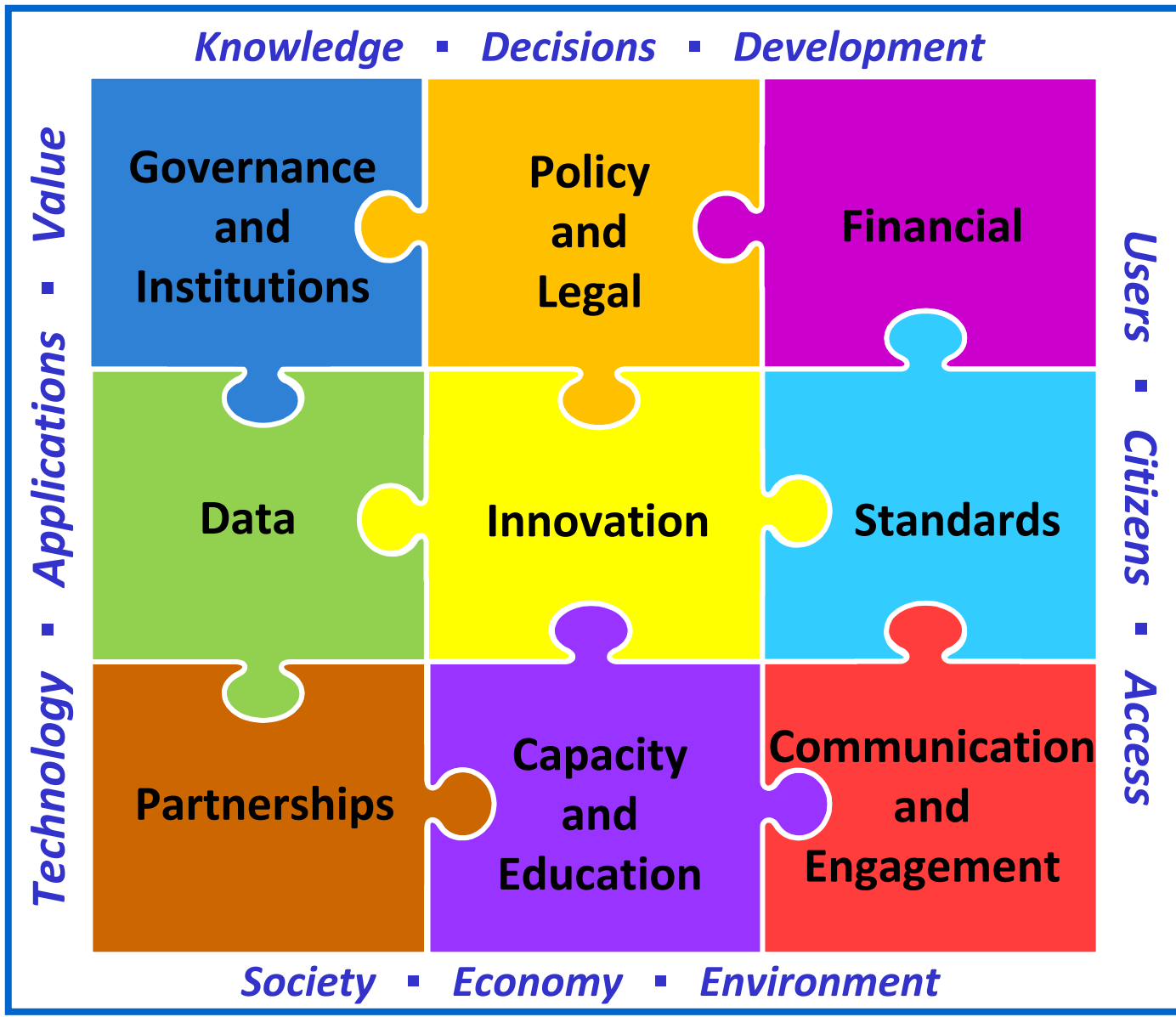
Statement of Shared Guiding Principles for Geospatial Information Management



Governance →

Technology →

People →



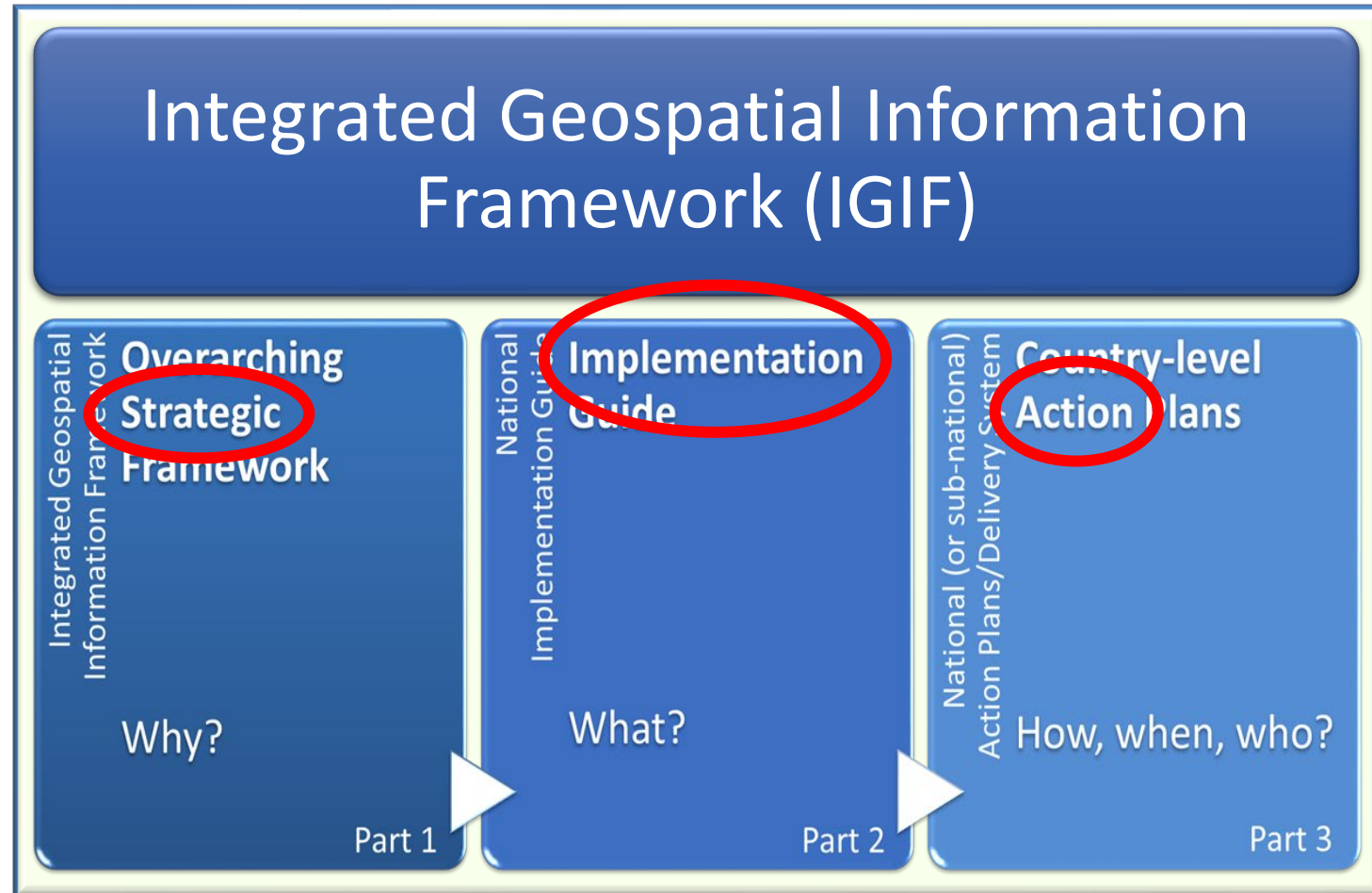
9 Strategic Pathways solve the IGF puzzle



UN-GGIM Global Geospatial Frameworks

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.

With a focus on the ability for geospatial information to be integrated with any other meaningful data to solve societal and environmental problems, the IGIF acts as a catalyst for economic growth and opportunity and stimulates improved understanding and decision-making for national development priorities and the SDGs.



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

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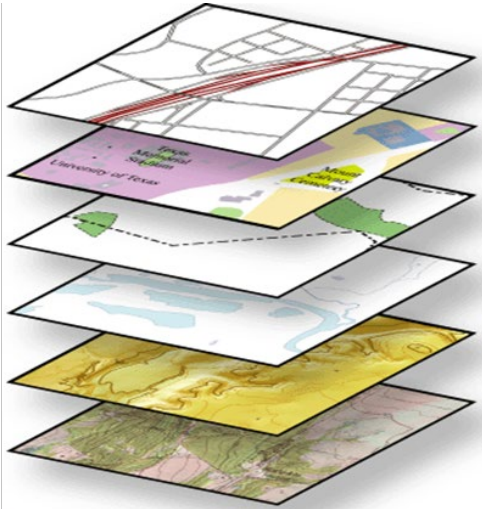
CONTEXT: WHY THE IGIF WAS NEEDED

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

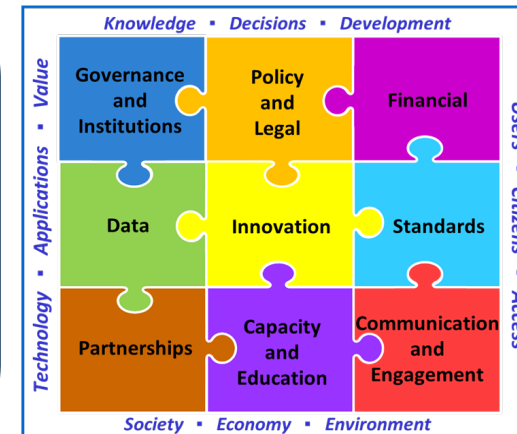
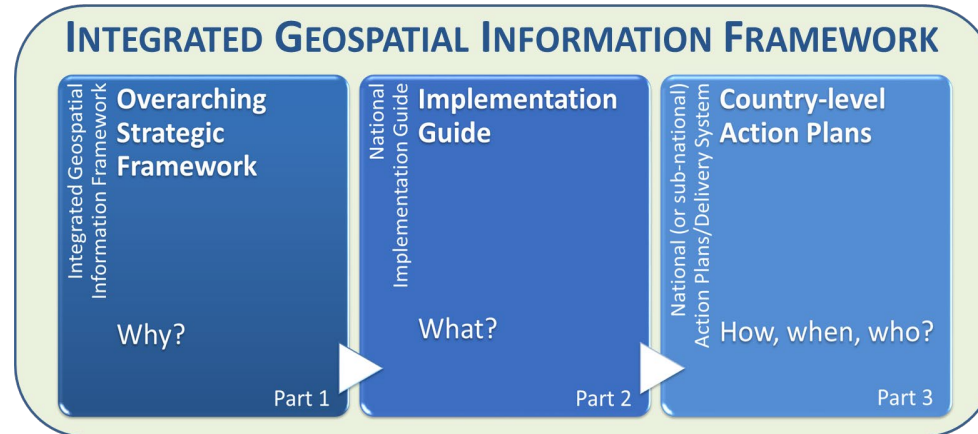
Yet there is still a considerable lack of awareness and understanding of the vital and integrative role of geospatial information and related enabling architectures, such as National Spatial Data Infrastructures (NSDIs), in contributing to local, national, regional, and global development.



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



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.



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



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IGIF: 9 STRATEGIC PATHWAYS



Geospatial information has immense social and economic value. Citizens, communities, business sectors, governments, and many other stakeholders benefit every day.

STRATEGIC PATHWAYS								
Governance and Institutions	Policy and Legal	Financial	Data	Innovation	Standards	Partnerships	Capacity and Education	Communication and Engagement
Governance			Technology			People		
Governance model Leadership Value proposition Institutional arrangements	Legislation Policies, norms and guides Data protection, licensing and sharing Governance and accountability	Business model Opportunities Investment Benefits realization	Data themes Custodianship, acquisition and management Data supply chains Data curation and delivery	Technological advances Process improvement Innovation and creativity Bridging the geospatial digital divide	Standards governance and policy Technology and data interoperability Compliance testing and certification Community of Practice	Cross-sector and interdisciplinary cooperation Private sector and academia collaboration International collaboration Community participation	Awareness Formal education Professional training Entrepreneurship	Stakeholder and user engagement Strategic messaging and engagement Communication strategy, plans and methods Monitoring and evaluation
BENEFITS								
Knowledge Decisions Development Society Economy Environment Users Citizens Access Technology Applications Value								



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.



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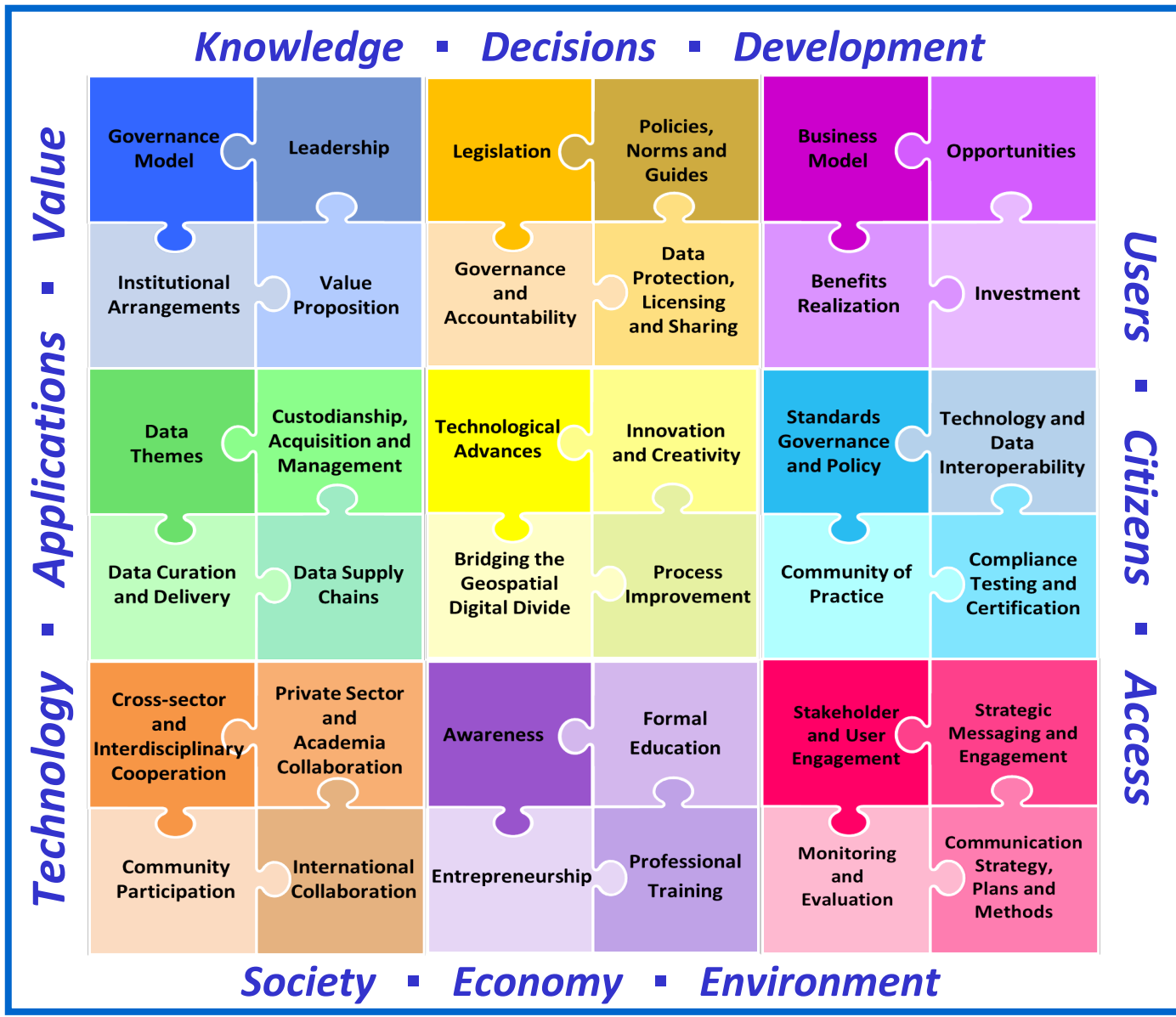
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Governance →

Technology →

People →



9 Strategic Pathways solve the IGF puzzle ...with 36 Key Elements



IGIF: STRATEGIC DRIVERS

Addis Ababa Action Agenda

Multilateral trade agreements

Transforming our World: 2030 Agenda for Sustainable Development

INSPIRE

National Strategic Priorities

United Nations Ocean Conference: Call for Action

National Development Agendas

Sendai Framework for Disaster Risk Reduction 2015–2030

New Urban Agenda

Small Island Developing States Accelerated Modalities of Action (SAMOA Pathway)

United Nations Framework Convention on Climate Change (Paris Agreement)

National Transformation Programmes

National Transformation Programmes



National to Global Development Frameworks are a major driver for maintaining quality geospatial data to better inform policy and demonstrate national progress globally.



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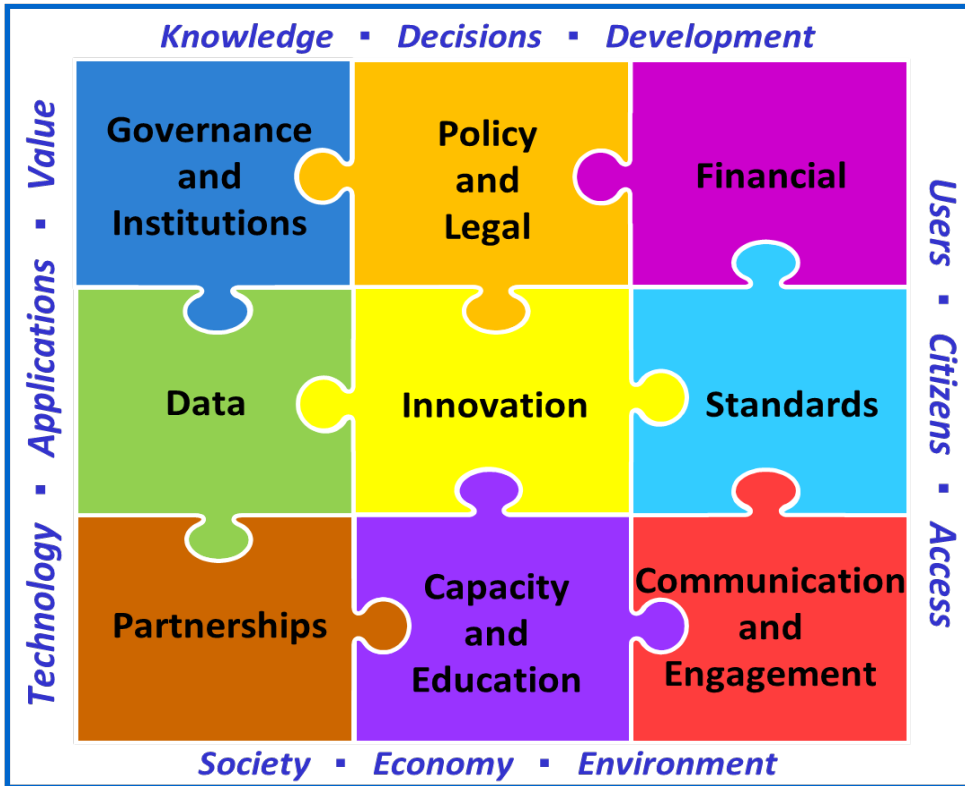
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SUMMARY



Strengthening geospatial information management will assist countries in bridging the geospatial digital divide, secure socio-economic prosperity, and leave no one behind.

A Framework for the World, the **Integrated Geospatial Information Framework (IGIF)** is a reference guide for developing and strengthening national arrangements in geospatial information management. It has been designed specifically for developing countries and small island developing States but is now being implemented by developed and developing countries.

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