



**First Expert Forum for Producers and Users of Disaster-related Statistics**  
(7, 8 and 10 June 2021)  
**Session 3: The Geospatial Dimension, 10 June 2021**

# Related activities of UN-GGIM

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



Full Video Presentation:  
<https://www.youtube.com/watch?v=ITjn1BKln2c&list=PLe6uBaBVebZAEaeHxILG7ffReN60d224-&index=5>



# 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

# 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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# Global Fundamental Geospatial Data Themes



Global Geodetic  
Reference Frame



Geographical  
Names



Addresses



Functional Areas



Buildings and  
Settlements



Land Parcels



Transport  
Networks



Elevation and  
Depth



Population  
Distribution



Land Cover  
and Land Use



Geology and  
Soils



Physical  
Infrastructure



Water



Orthoimagery

Document: <https://ggim.un.org/documents/Fundamental%20Data%20Publication.pdf>

StoryMap: <https://undesa.maps.arcgis.com/apps/Cascade/index.html?appid=4741ad51ff7a463d833d18cbcec29fff>



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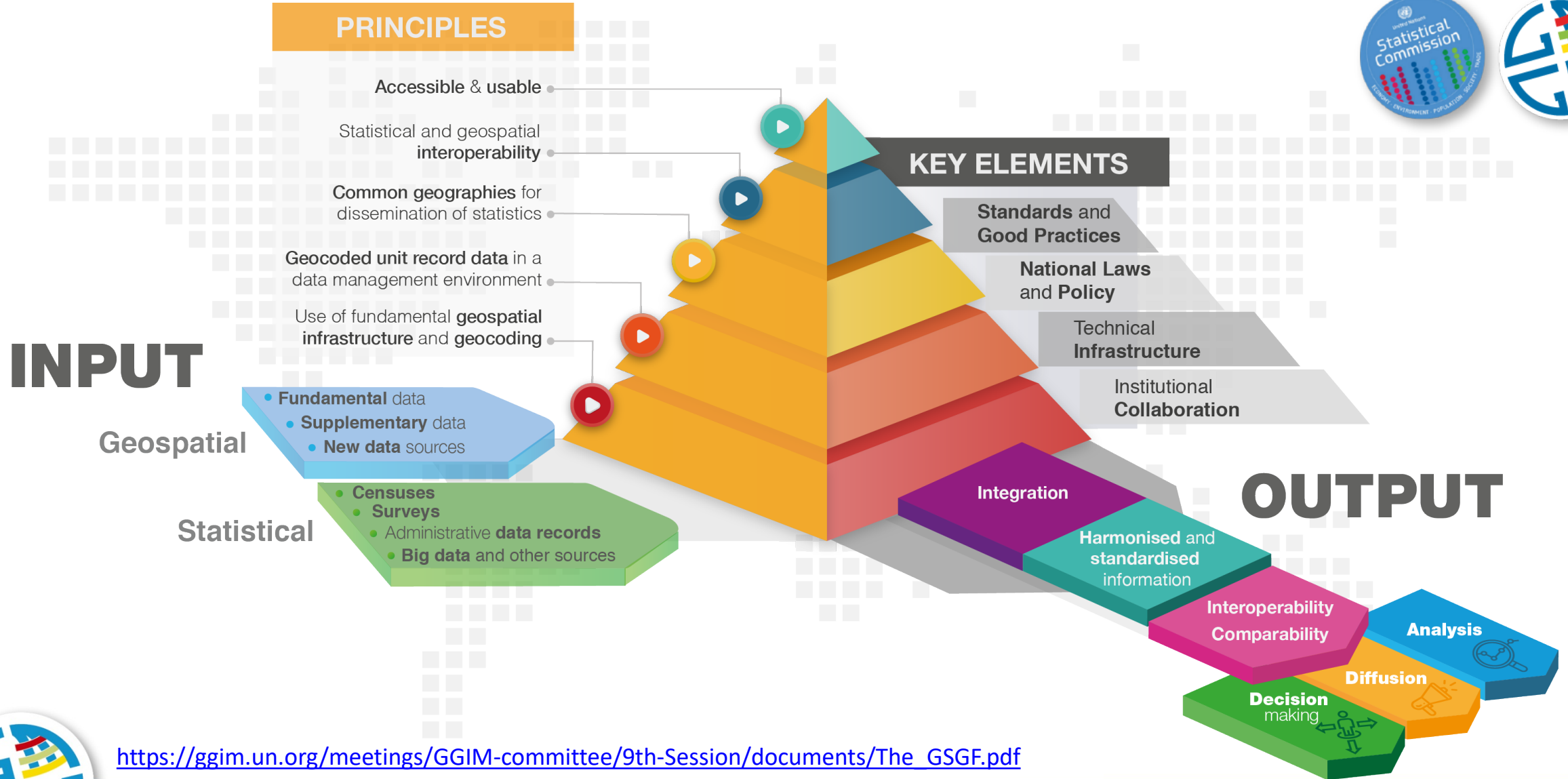
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# Global Statistical Geospatial Framework (GSGF)



[https://ggim.un.org/meetings/GGIM-committee/9th-Session/documents/The\\_GSGF.pdf](https://ggim.un.org/meetings/GGIM-committee/9th-Session/documents/The_GSGF.pdf)



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# Strategic Framework on Geospatial Information and Services for Disasters

## Scope and Purpose

The strategic framework aims to guide all stakeholders and partners in the management of geospatial information and services in all phases of disaster risk management

## Expected Outcome

The social, economic, and environmental risks and impacts of disasters are prevented or reduced through the use of geospatial information and services

## Goal

Quality geospatial information and services are available and accessible in a timely and coordinated way to support decision-making and operations within and among all stakeholders and partners and in all phases of disaster risk management

## Priorities for Action

Member States with the support of regional and international organizations as well as other relevant organizations should focus their action on the following 5 priorities for action:



### Priority 1 Governance and Policies

Policies, collaborative agreements and legal frameworks aiming at improving the availability and accessibility of quality geospatial information and services among all stakeholders and partners established and implemented in all phases of DRM



### Priority 2 Awareness Raising and Capacity Building

Awareness is raised among concerned entities on the importance of geospatial information and services and all necessary technical and human capacities are built and/or strengthened



### Priority 3 Data Management

Geospatial databases and information products are developed based on common standards, protocols and processes as important tools in every decision-making process across all phases of DRM



### Priority 4 Common Infrastructure and Services

Common facilities and services are established for all key stakeholders and partners to have a common operational picture of emergency scenarios



### Priority 5 Resource Mobilization

All necessary technical, human and financial resources are available to sustain all the activities of DRM

## Guiding Principles

The strategic framework is guided by the 2030 Agenda for Sustainable Development, International Strategy for Disaster Reduction, Sendai Framework for Disaster Risk Reduction (2015-2030), the UN-GGIM Global Statistical Geospatial Framework, UN General Assembly resolution on international cooperation on humanitarian assistance in the field of natural disasters, from relief to development and other relevant instruments. It is also guided by the principles of open data and requirements of national data infrastructure, and by the UN-GGIM's Statement of Shared Guiding Principles for the Management of Geospatial Information.

During disaster situations, the data-sharing mechanism to support decision-making is generally not in place. As a result, the many actors and stakeholders simultaneously engaged in response are not only gathering volumes of concurrent and inconsistent geospatial datasets, but they are also concerned with issues of coordination and communication. This underscores the strong relevance of a Strategic Framework.



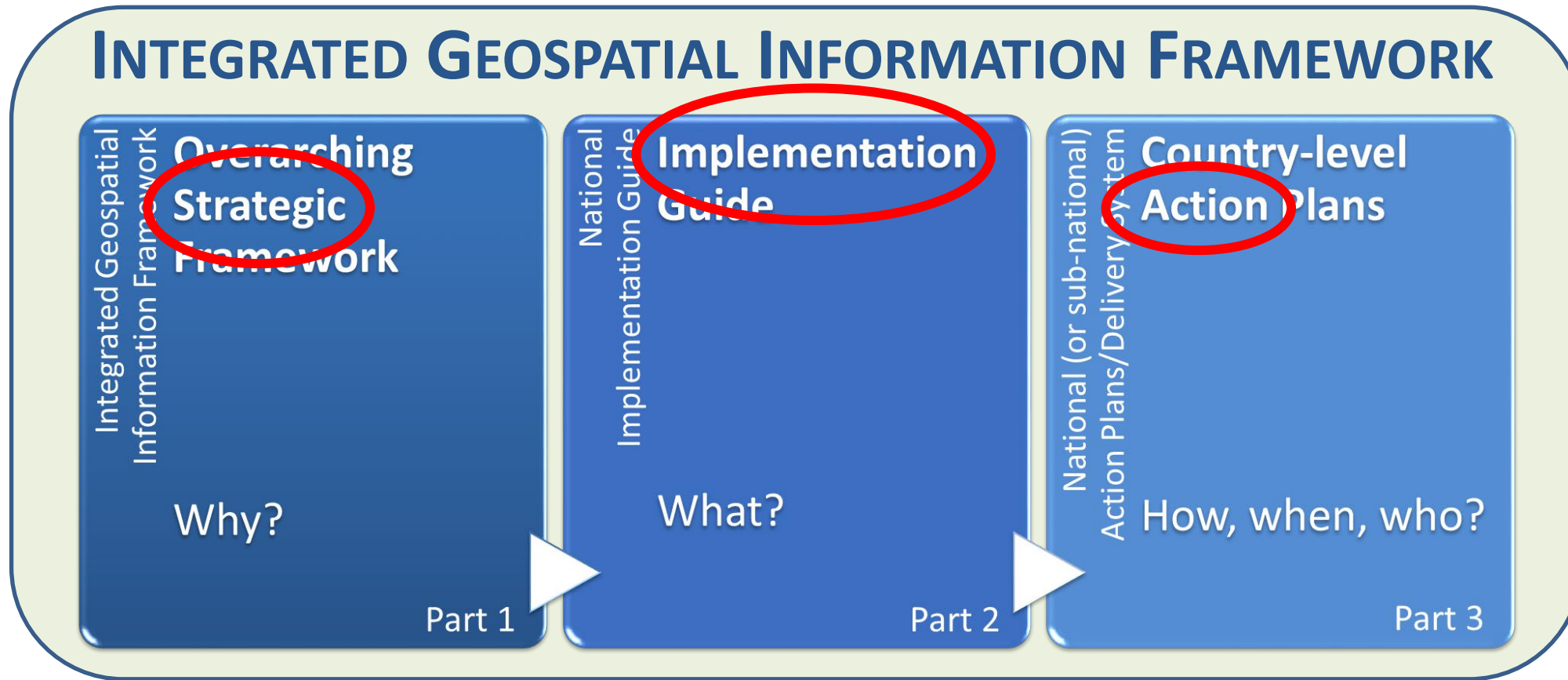
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# INTEGRATED GEOSPATIAL INFORMATION FRAMEWORK



Part 1: Overarching Strategic Framework - **WHY** geospatial information is a critical element of national social and economic development, and needs to be strengthened.

Part 2: Implementation Guide - **WHAT** actions can be taken to strengthen geospatial information management.

Part 3: Country-level Action Plans - **HOW** the actions will be carried out, **WHEN** and by **WHOM**.



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The 7 Principles are the key characteristics and values that provide the compass for implementing the Framework, and allow for methods to be tailored to individual country needs and circumstances.



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## VISION

The efficient use of geospatial information by all countries to effectively measure, monitor and achieve sustainable social, economic and environmental development – leaving no one behind

## MISSION

To promote and support innovation and provide the leadership, coordination and standards necessary to deliver integrated geospatial information that can be leveraged to find sustainable solutions for social, economic and environmental development.

## STRATEGIC DRIVERS

National Development Agenda • National Strategic Priorities • National Transformation Programme • Community Expectations • Multilateral trade agreements • Transforming our World: 2030 Agenda for Sustainable Development • New Urban Agenda • Sendai Framework for Disaster Risk Reduction 2015–2030 • Addis Ababa Action Agenda • Small Island Developing States Accelerated Modalities of Action (SAMOA Pathway) • United Nations Framework Convention on Climate Change (Paris Agreement) • United Nations Ocean Conference: Call for Action

## UNDERPINNING PRINCIPLES

Strategic Enablement	Transparent and Accountable	Reliable, Accessible and Easily Used	Collaboration and Cooperation	Integrative Solution	Sustainable and Valued	Leadership and Commitment
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## GOALS

Effective Geospatial Information Management	Increased Capacity, Capability and Knowledge Transfer	Integrated Geospatial Information Systems and Services	Economic Return on Investment
Sustainable Education and Training Programs	International Cooperation and Partnerships Leveraged	Enhanced National Engagement and Communication	Enriched Societal Value and Benefits



The 8 Goals reflect a future state where countries have the capacity and skills to organize, manage, curate and leverage geospatial information to advance government policy and decision-making capabilities.

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# THE IGIF IS ANCHORED BY 9 STRATEGIC PATHWAYS TO GUIDE GOVERNMENTS TOWARDS IMPLEMENTATION



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

STRATEGIC PATHWAYS								
<b>Governance and Institutions</b>	<b>Policy and Legal</b>	<b>Financial</b>	<b>Data</b>	<b>Innovation</b>	<b>Standards</b>	<b>Partnerships</b>	<b>Capacity and Education</b>	<b>Communication and Engagement</b>
<b>Governance</b>				<b>Technology</b>			<b>People</b>	
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
<b>BENEFITS</b>								
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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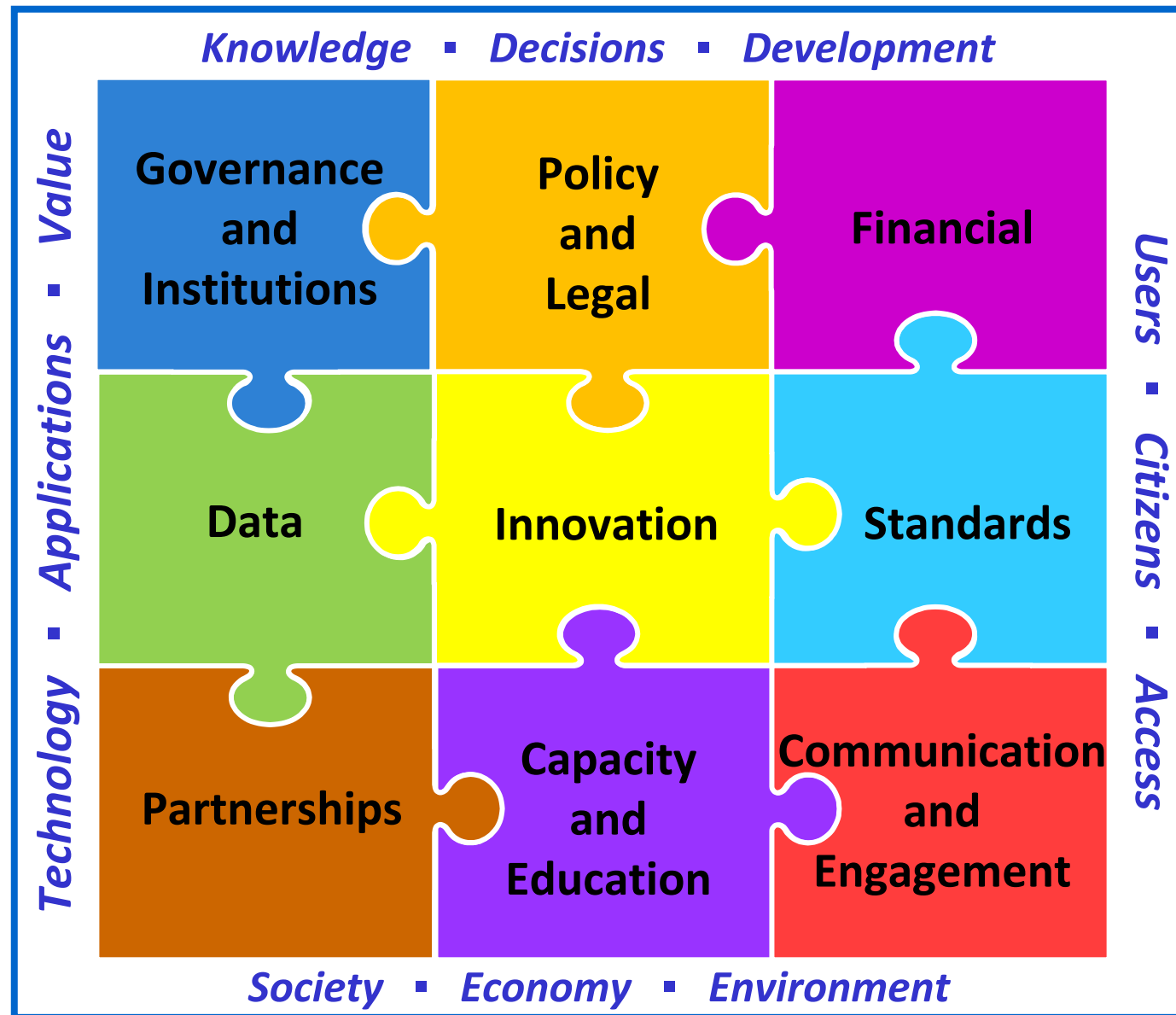


# 9 Strategic Pathways

Governance →

Technology →

People →



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**Developed by the IAEG-SDGs' Working Group  
on Geospatial Information (WGGI)**



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# The SDGs Geospatial Roadmap

## Its Vision and Purpose

### Vision:

*“To see geospatial and location-based information being recognized and accepted as official data for the SDGs and includes key strategic messages and facts”*

### Purpose:

*The Roadmap **communicates** the value of the support already provided to the IAEG-SDGs, UN custodian agencies, and Member States and elaborates on the vision **to see geospatial and location-based information being recognised and accepted as official data for the SDGs and their global indicators.***

### How:

*The Roadmap **outlines how to ‘build the bridge’ between the statistical and geospatial actors working within the global indicator framework, through three phases:***

- 1. Prepare and Plan*
- 2. Design, Development and Testing*
- 3. Measuring, monitoring and reporting geospatially enabled SDG indicators*

For both **Users (ie. Countries)** and **Providers** (ie. Regional Commissions, SDG Custodian Agencies and other Experts) of the SDGs and their global indicators.







Transforming our world -  
The 2030 Agenda for  
Sustainable Development



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Thank You for Listening 😊



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