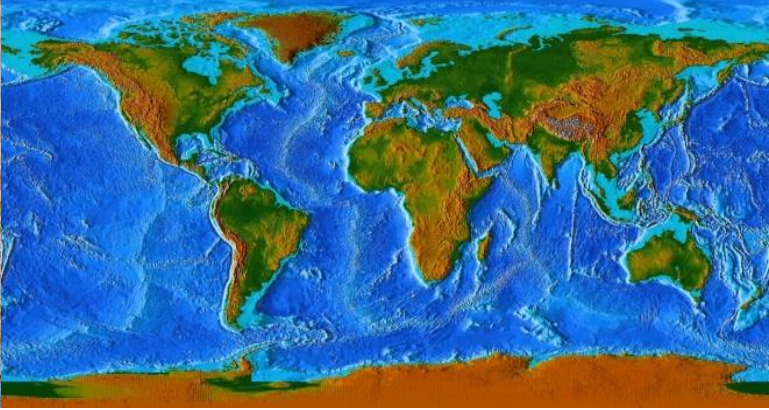


Transforming our world -
The 2030 Agenda for
Sustainable Development



International Workshop and Seminar on United Nations Global Geospatial Information Management
17-22 October 2019, Deqing, Zhejiang Province, China

The Data Ecosystem for Sustainable Development

Nationally Integrated Geospatial Information Management

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



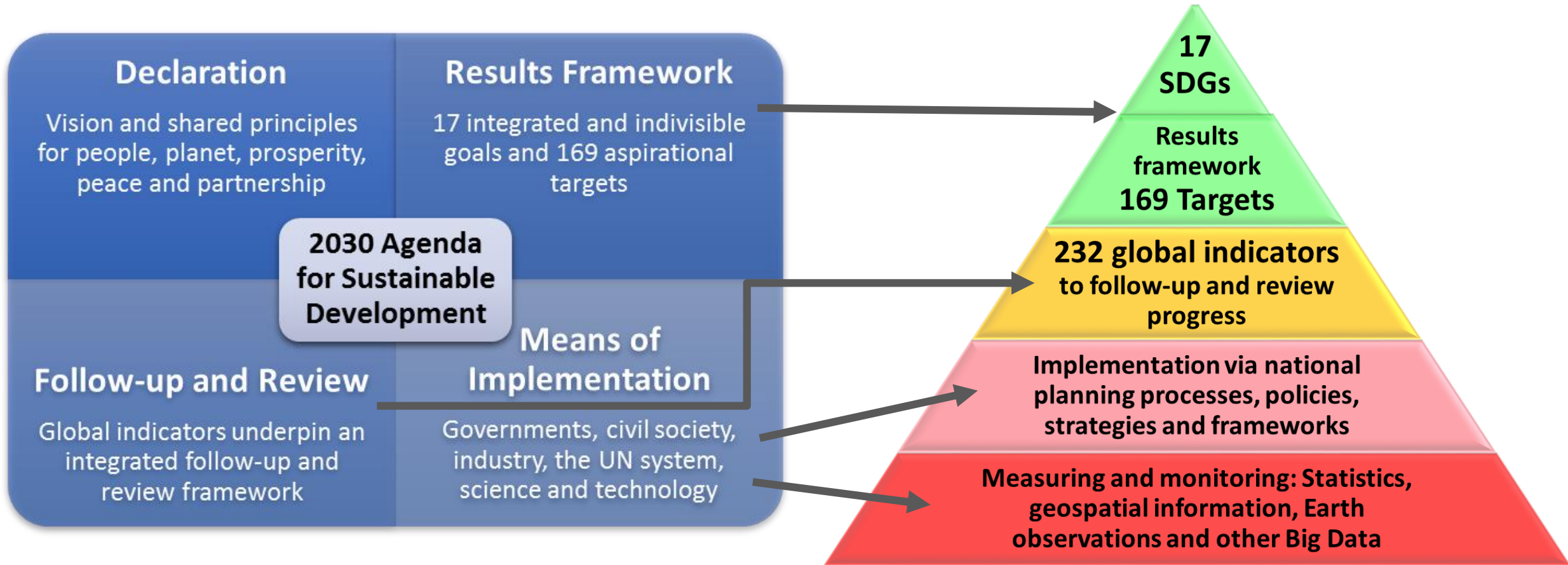
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2030 Agenda: Goals, targets, indicators... and data!!

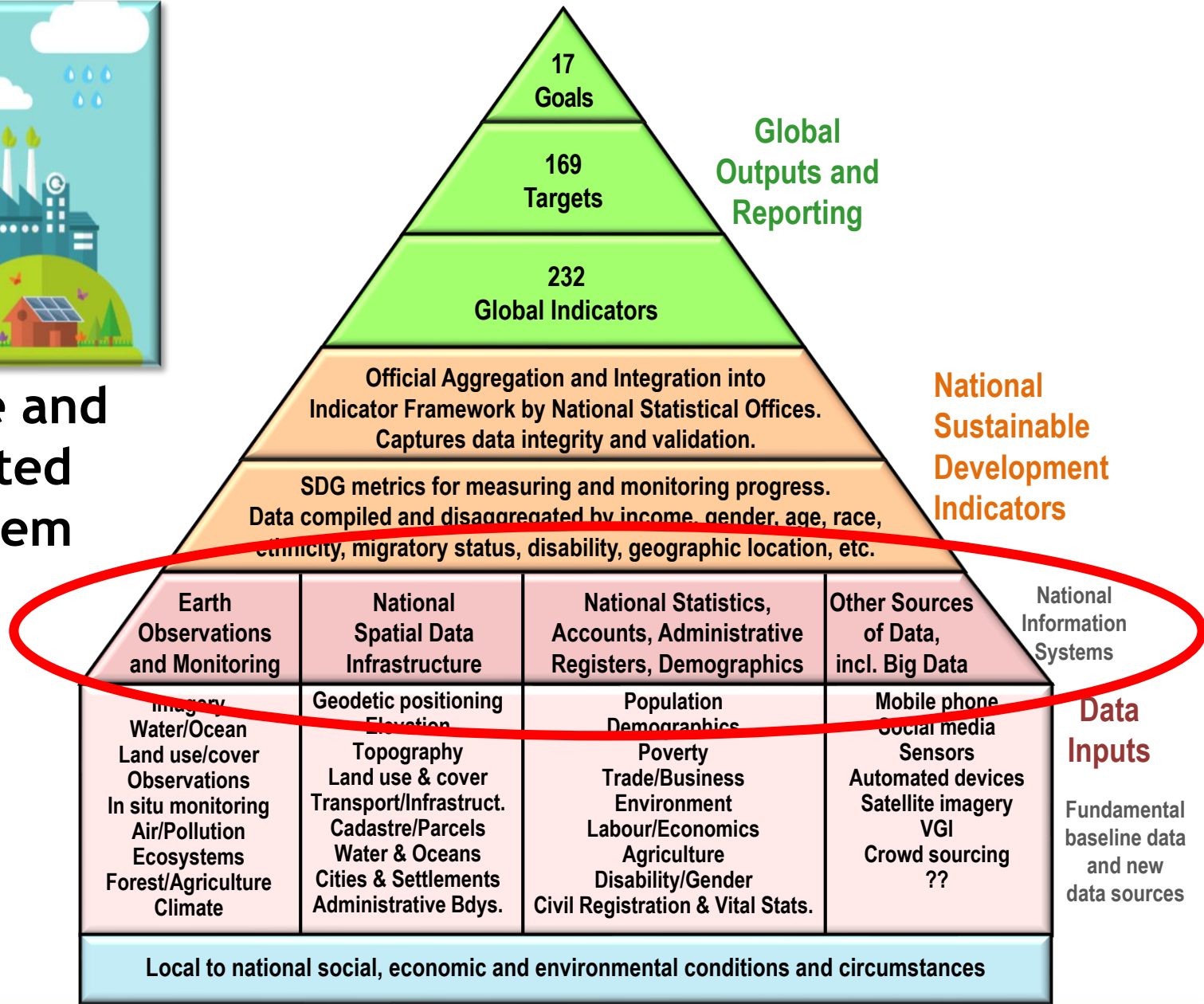


Any national SDG implementations will be sub-optimal without strategies and frameworks to integrate statistics, geospatial information, Earth observations, and other new data into the measuring, monitoring and reporting processes. An integrated data ecosystem is needed.





An integrative and interconnected data ecosystem

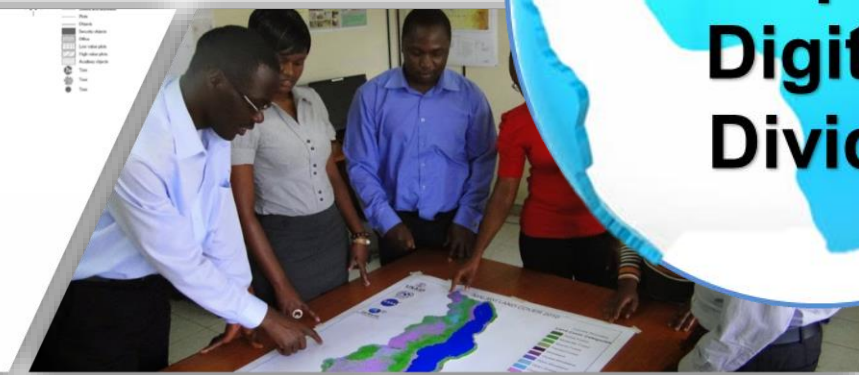
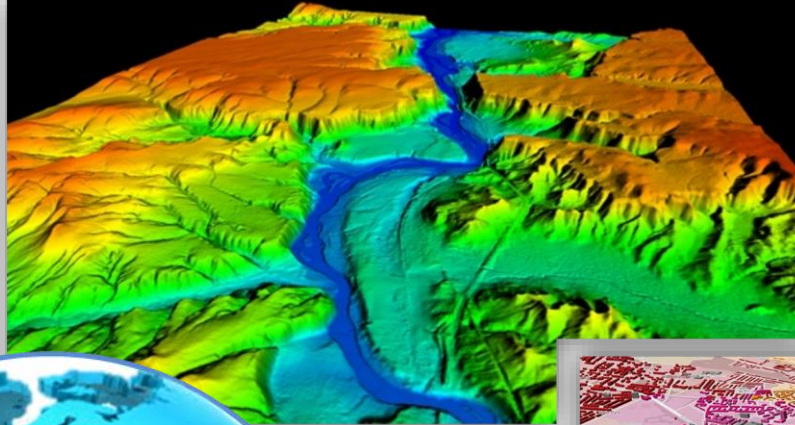


There needs to be more institutional collaboration, coordination and integration across the various national data frameworks, information systems and platforms.



Within the past generation, hundreds of millions of people have emerged from extreme poverty, and access to education has greatly increased for both boys and girls. Further, the spread of information and communications technology and global inter-connectedness has great potential to accelerate human progress, to bridge the digital divide, to develop knowledge societies, and to drive scientific and technological innovation.

2030 Agenda for Sustainable Development



...ing and exploiting the new data needs, information systems, analytics and associated enabling technologies and tools to support the implementation of the SDGs is going to take strategic policy leadership and transformational change - a digital transformation that is able to bridge the 'geospatial digital divide' which continues to inhibit development progress for all developing countries.

Greg Scott, November 2016



**“develop an overarching
Geospatial Framework.....”**

**“prepare and implement
country level Action Plans.....”**



ROADMAP FOR COLLABORATION

BETWEEN

**WORLD BANK’S GLOBAL PRACTICE ON
SOCIAL, URBAN AND RURAL DEVELOPMENT,
AND RESILIENCE**

AND

UNITED NATIONS STATISTICS DIVISION

**TO ASSIST COUNTRIES TO BRIDGE
GEOSPATIAL DIGITAL DIVIDE**



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The Integrated Geospatial Information Framework provides a basis and guide for developing, integrating and strengthening geospatial information management.



INTEGRATED GEOSPATIAL INFORMATION FRAMEWORK

A STRATEGIC GUIDE TO DEVELOP AND STRENGTHEN NATIONAL GEOSPATIAL INFORMATION MANAGEMENT

PART 1: OVERARCHING STRATEGIC FRAMEWORK



The Overarching Strategic Framework is a mechanism for articulating and demonstrating national leadership, cultivating champions, and developing the capacity to take positive steps.

<http://ggim.un.org/UN-GGIM-Intergrated-geospatial-information-framework/>

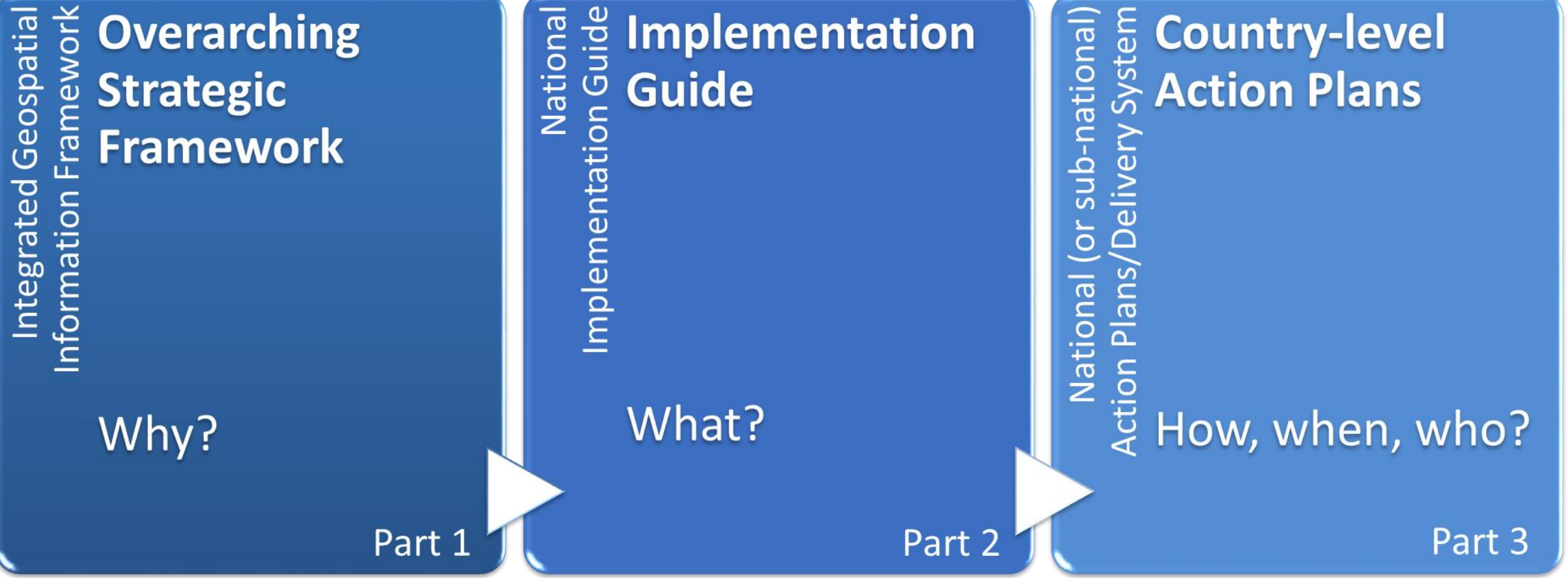


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Part 1: Overarching Strategic Framework - **WHY** geospatial information management needs to be strengthened.
 Part 2: Implementation Guide - **WHAT** actions can be taken to strengthen geospatial information management.
 Part 3: Country-level Action Plans - **HOW** the actions will be carried out, **WHEN** and by **WHOM**.



Overarching Strategic Framework: Vision and Mission

The **Vision** recognizes the responsibility for countries to plan for and provide better outcomes for future generations, and our collective aspiration to ‘leave no one behind’.

The **Mission** is designed to stimulate action towards bridging the geospatial digital divide; to find sustainable solutions for social, economic and environmental development; and to influence inclusive and transformative societal change for all citizens according to national priorities and circumstances.

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.





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.

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.

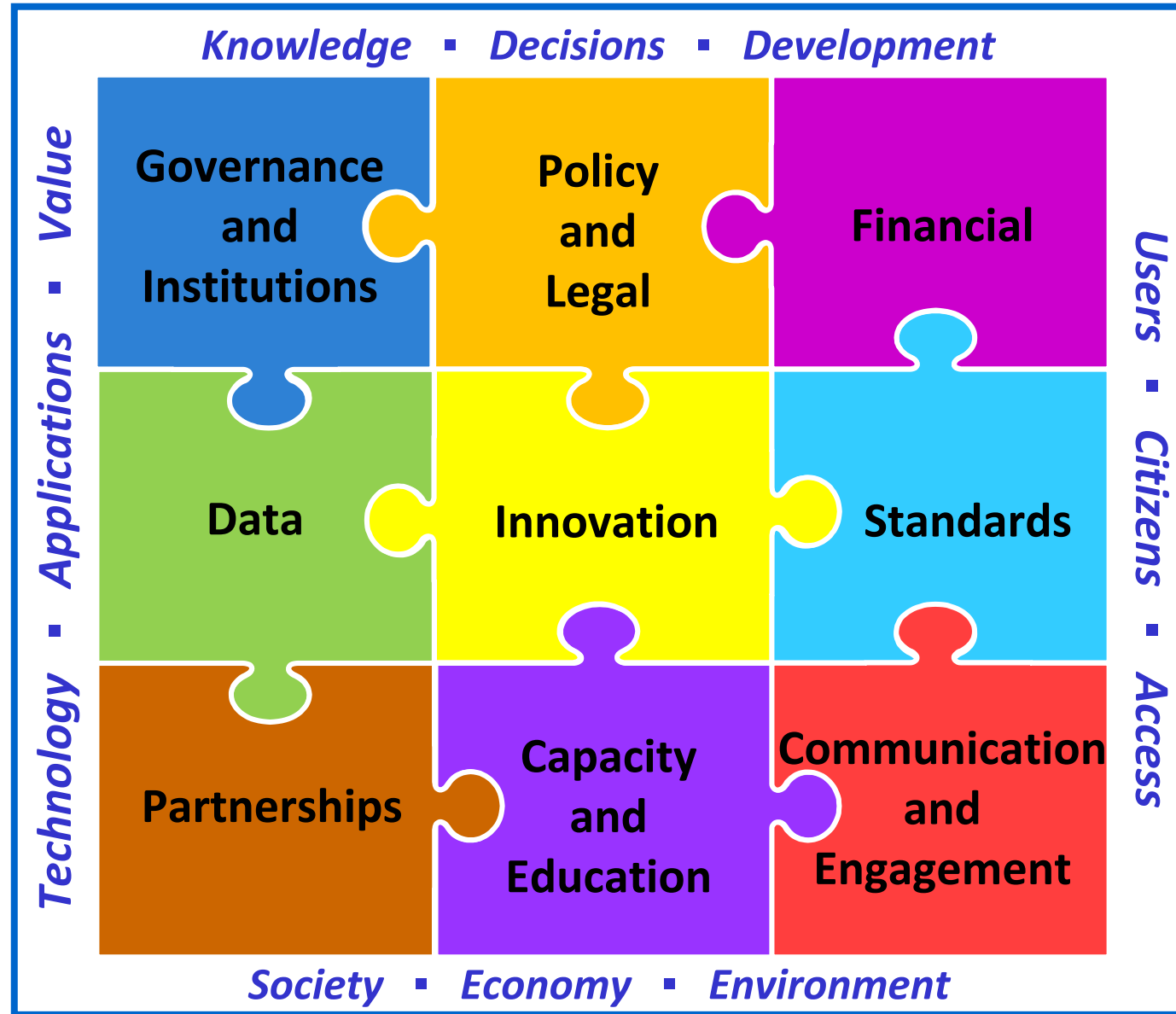


9 Strategic Pathways

Governance →

Technology →

People →



Anchored by 9 Strategic Pathways, the Framework is a mechanism for articulating and demonstrating national leadership in geospatial information, and the capacity to take positive steps.



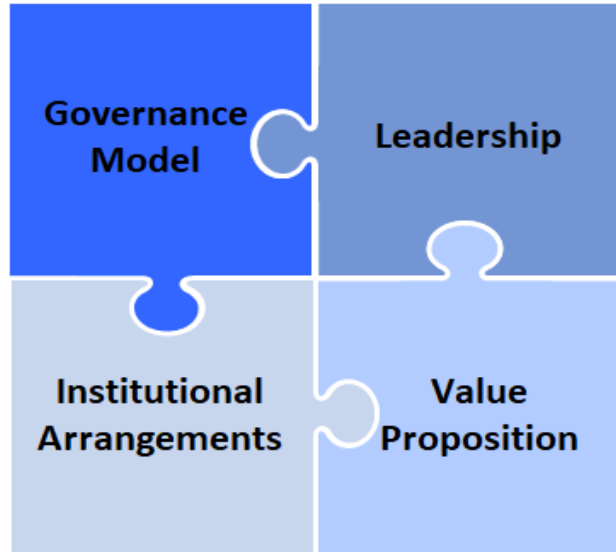
Strategic Pathway 1: Governance and Institutions



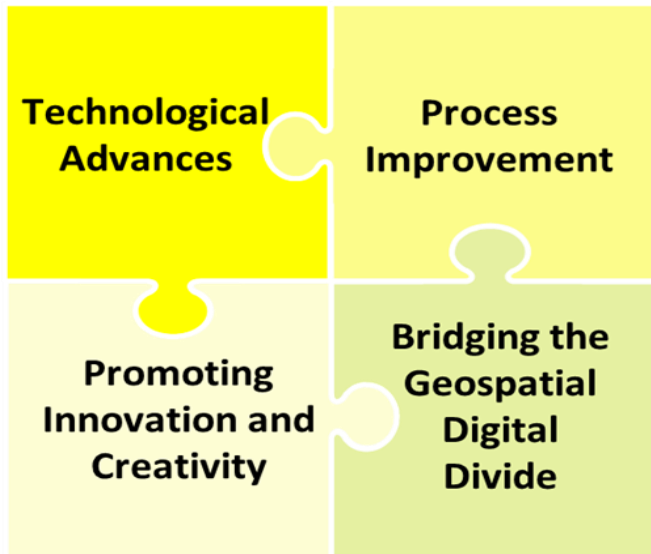
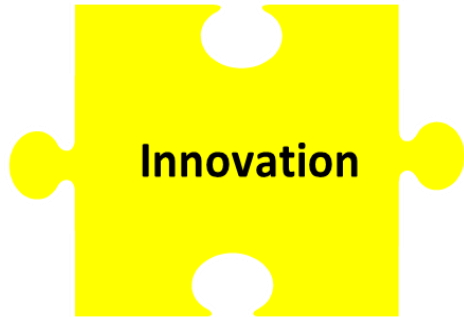
Establishes the leadership, governance model, institutional arrangements and a clear value proposition to strengthen multi-disciplinary and multi-sectoral participation in, and a commitment to, achieving an Integrated Geospatial Information Framework.

The objective is to attain political endorsement, strengthen institutional mandates and build a cooperative data sharing environment through a shared vision and understanding of the value of an Integrated Geospatial Information Framework, and the roles and responsibilities to achieve the vision.

Leadership drives change. It is realized by having a vision, the capacity to take positive steps, and knowing the tactics to achieve the vision. With strong leadership, anything is possible; without leadership, very little is achievable.



Strategic Pathway 5: Innovation



Technology and processes are continually evolving, providing enhanced opportunities for innovation and creativity that enable governments and citizens to quickly bridge the geospatial digital divide.

The objective is to stimulate the use of the latest cost-effective technologies, innovations and process improvements so that governments, businesses and society, no matter what their current situation, may leapfrog to state-of-the-art geospatial information management systems and practices.

This is why ‘Innovation’ is at the centre of the 9 Strategic Pathways. Innovation has the potential to have the most significant impact on stimulating and triggering rapid change and being able to bridge the geospatial digital divide.

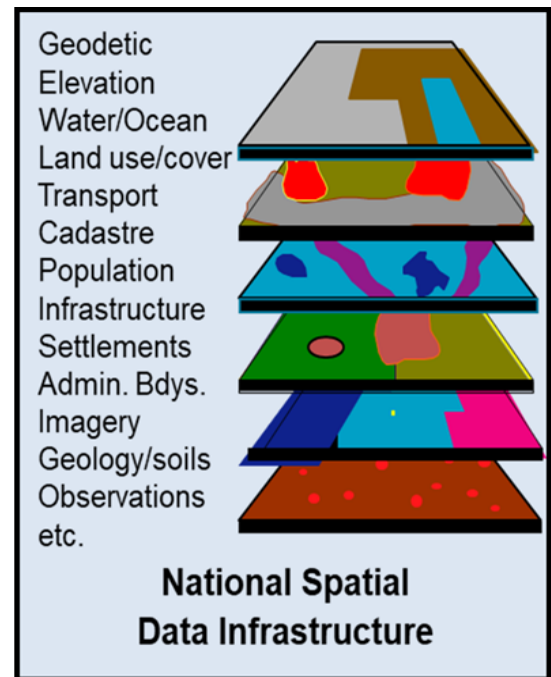
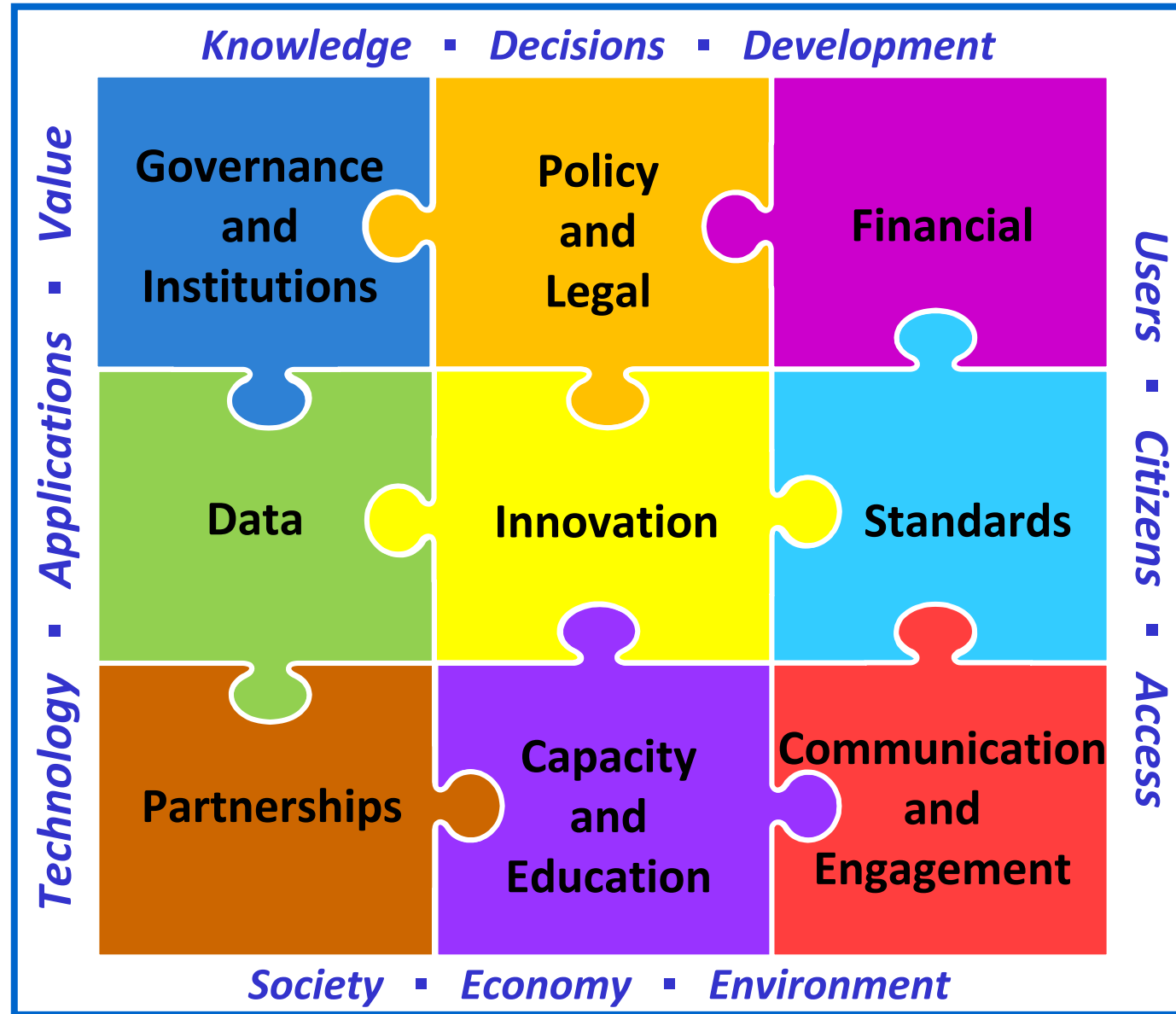


9 Strategic Pathways

Governance →

Technology →

People →



The Framework will augment and build upon existing NSDI arrangements, providing a holistic, integrated national information system-of-systems approach to the data life cycle

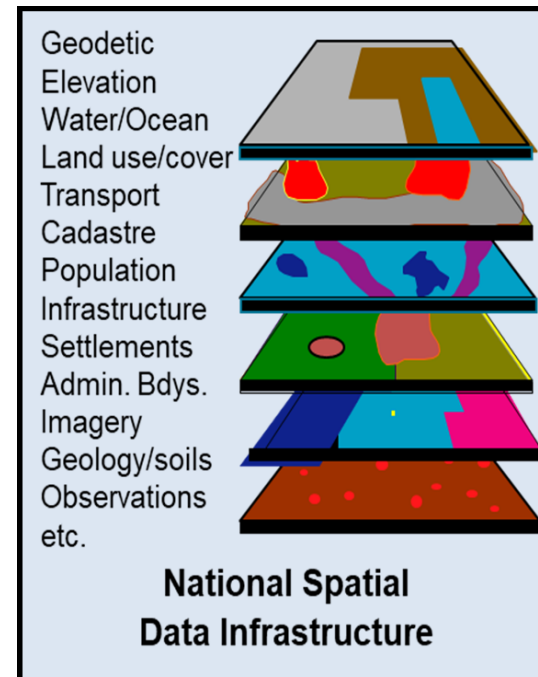
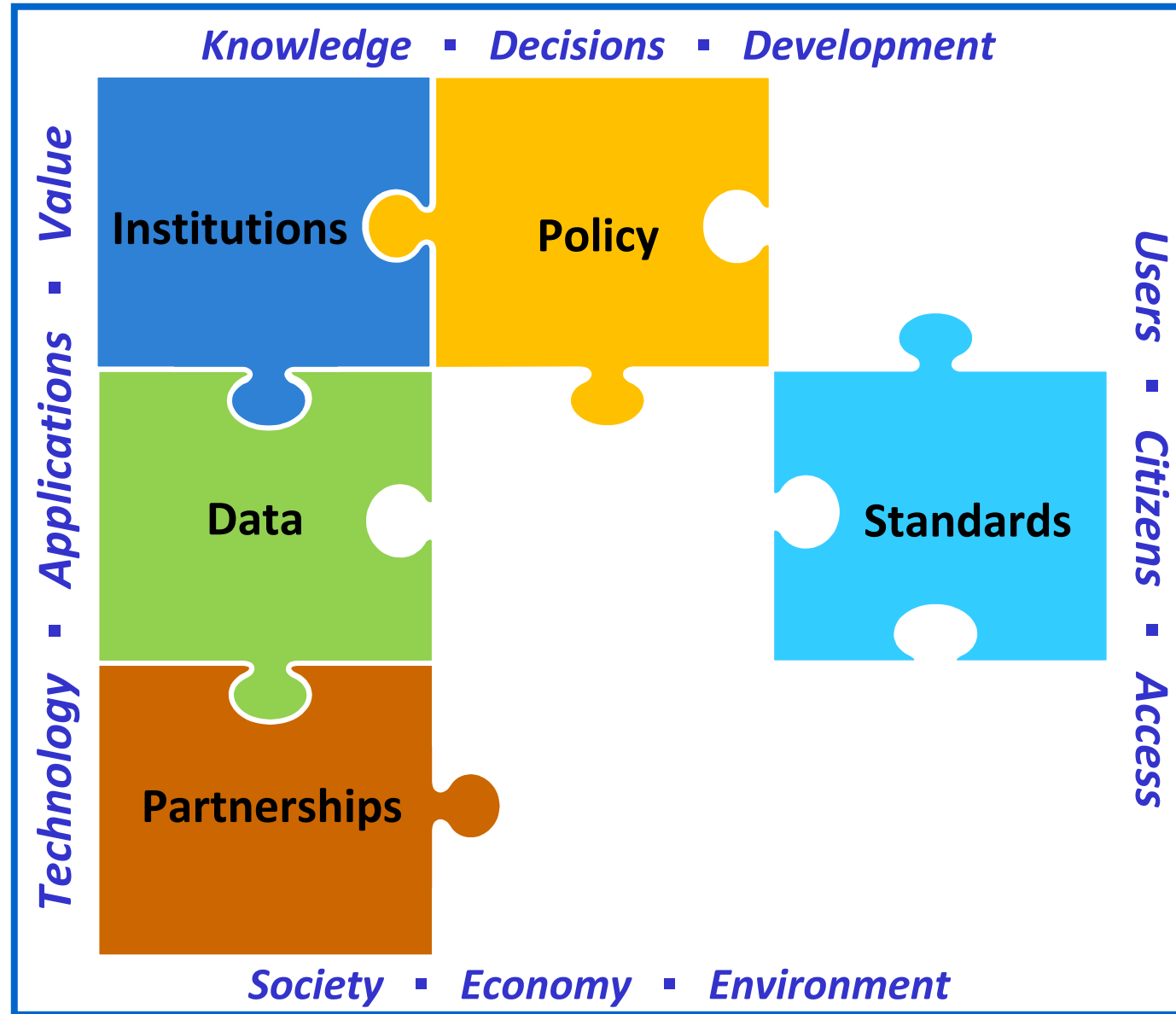


9 Strategic Pathways

Governance →

Technology →

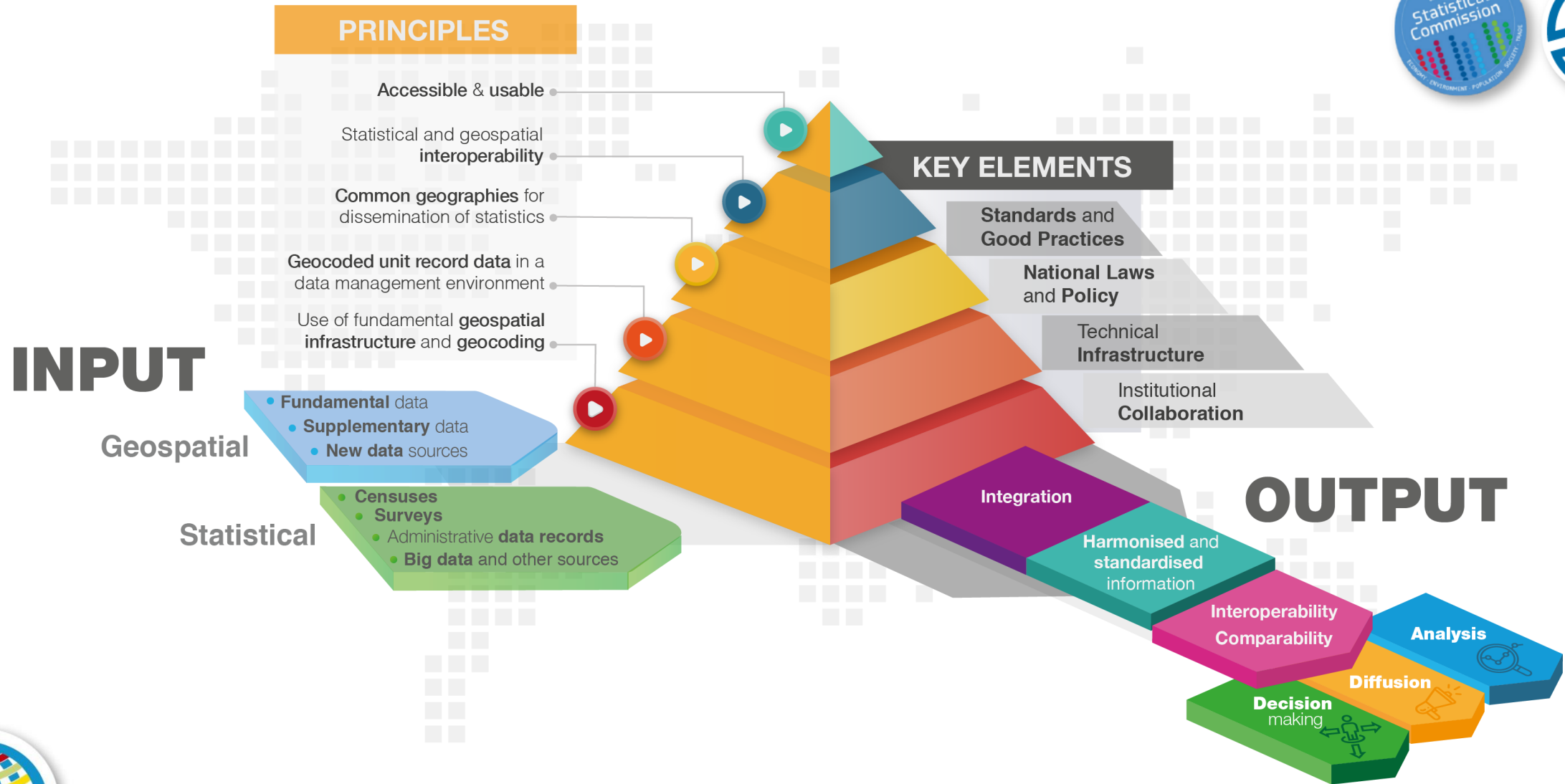
People →



“The technology, policies, standards, human resources and related activities to acquire, process, distribute, use, maintain and preserve spatial data” (OMB 2002).



IGIF: Linkages to the GSGF





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



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