



**International Workshop and Seminar on United Nations Global Geospatial Information Management**

***The Data Ecosystem for Sustainable Development***

**Deqing, Zhejiang Province, China**

**Technical Learning Event on Data Ecosystem for Sustainable Development -  
Integrative Technologies and Processes**

**17-19 October 2019**



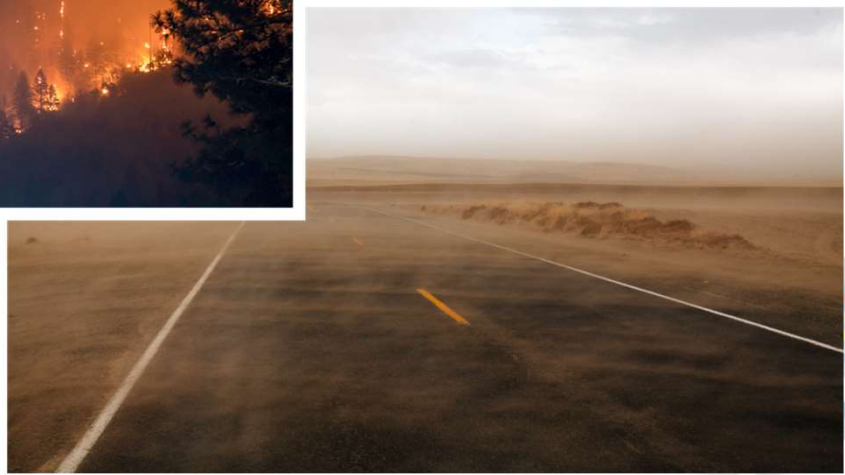
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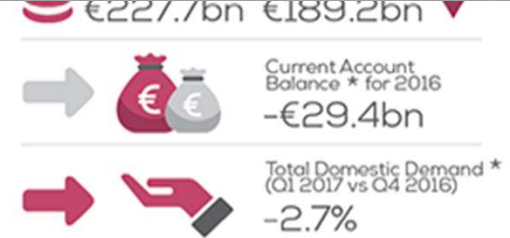
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# Ireland's Economy 2016 AND QUARTER 1 2017

## How is our economy doing?

## What are we spending our money on?

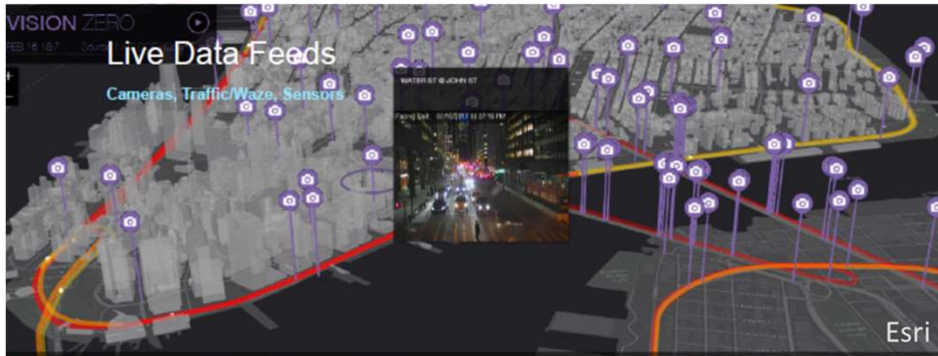


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What is Smart Society?

JD.COM



Smarter City

Information  
Communication-  
IoT

What is Smart Society?

JD.COM



Smarter Society

AI  
Big Data  
Cloud  
IoT



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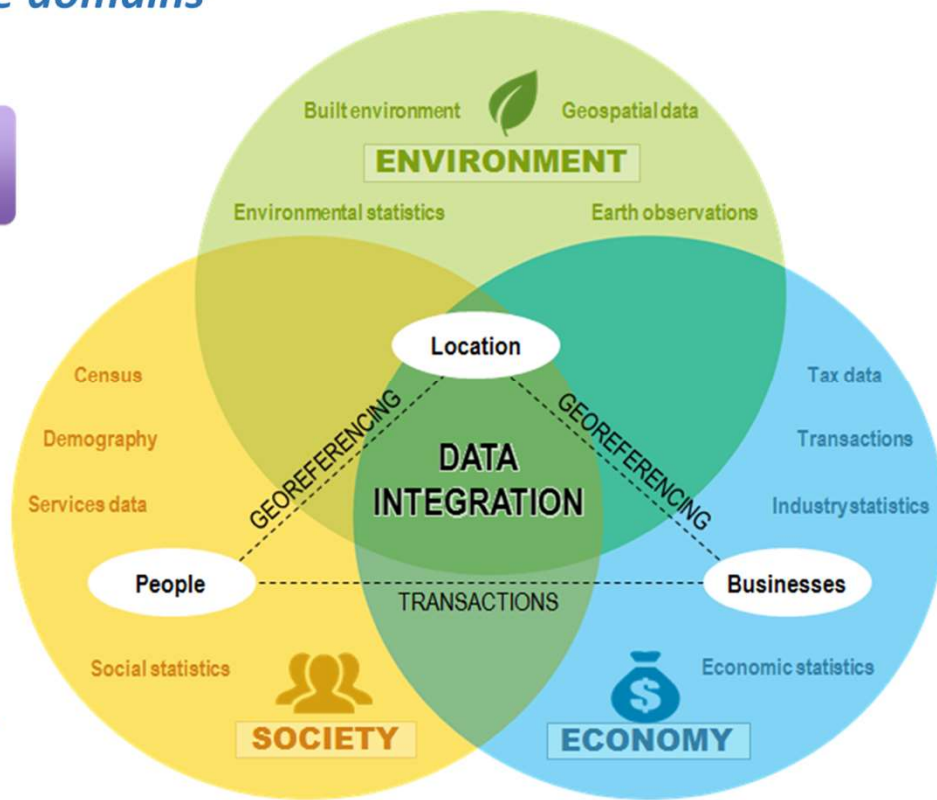
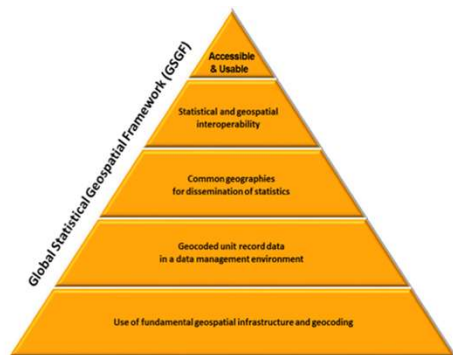
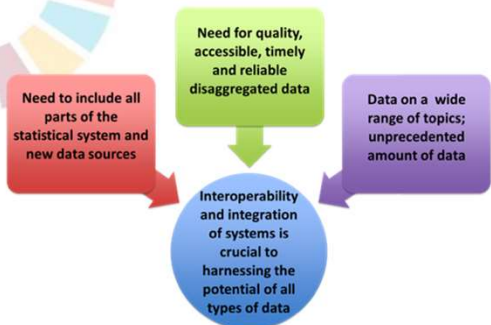
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# Addressing the data needs for national development priorities, and national implementation of the 2030 Agenda for Sustainable Development

... .. bridging the three domains



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.



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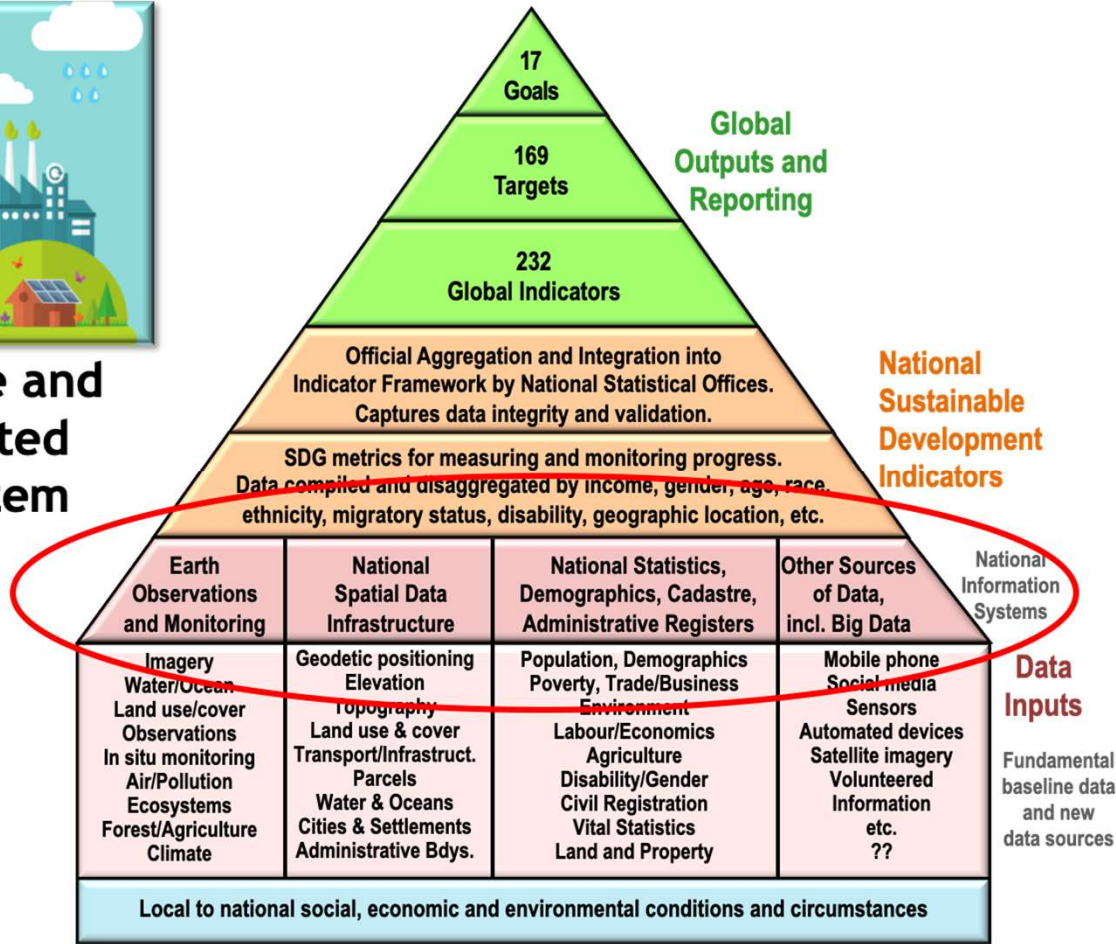
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## An integrative and interconnected data ecosystem



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



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Global Statistical Geospatial Framework (GSGF)

Accessible & Usable

Statistical interoperability

Common standards for dissemination

Geocoding in a data management environment

Use of fundamental geospatial infrastructure and geocoding

Foundational for the integration of statistical and geospatial information

### Accessible and useable geospatially enabled statistics

Identification and development of policies, standards and guidelines to support the release and use of geospatially enabled information.

### Statistical and geospatial interoperability

Efficient creation, discovery,

The Global Statistical Geospatial Framework is an important bridge that enables a range of data to be integrated from both statistical and geospatial communities and, through the application of its five principles and supporting key elements, permits the production of harmonized, standardized and integrated geospatially enabled statistical data to enable data-driven decision making

*(Decision 9/106 (d), Ninth Session of UN-GGIM)*

Statistics

Supporting and analysis of statistical and

### Data management environment

Storage of the unit record statistical data linked to a geocode within a data management environment will ensure flexibility over time and protect privacy and confidentiality.

### Use of fundamental geospatial infrastructure and geocoding

A common and consistent approach to establishing a location and temporal description of each unit in a dataset, using national fundamental datasets.



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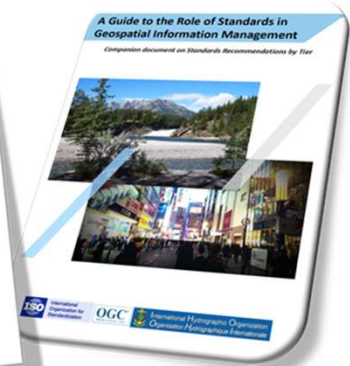
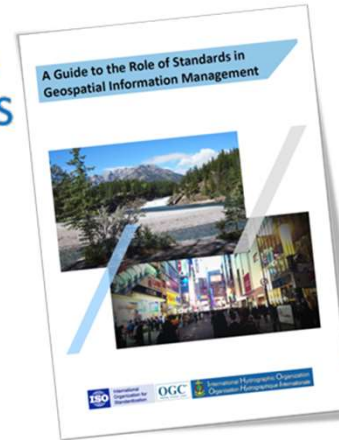
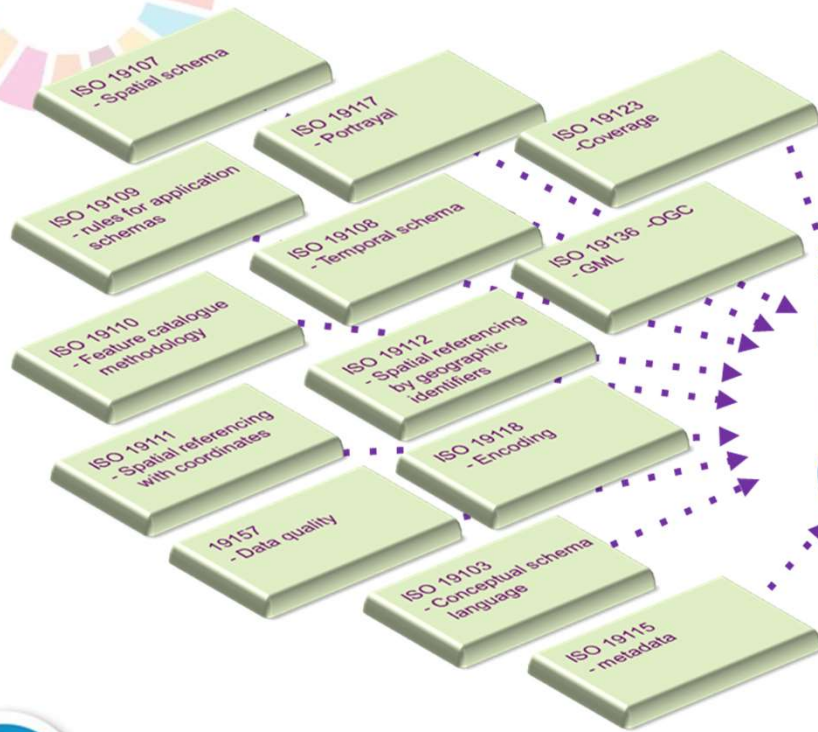
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## STANDARDS SUPPORT FUNDAMENTAL GEOSPATIAL DATA WHICH SUPPORT THE DATA NEEDS OF SDGS



Global Geodetic Reference Frame



Addresses



Buildings and Settlements



Elevation and Depth



Functional Areas



Geographical Names



Geology and Soils



Land Cover and Land Use



Land Parcels



Physical Infrastructure



Population Distribution



Orthoimagery



Transport Networks



Water

Global  
Fundamental  
Geospatial Data  
Themes



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Elements to consider in a standard geospatial information licensing arrangement or agreement -



- What Geospatial Information is Being Licensed
- Rights Granted To the Licensee
- Payment/Fees
- Representations and Warranties
- Covenants
- Limitations on Liability
- Indemnification
- Term; Termination
- Compliance with Law
- Data Protection/Privacy
- Taxes
- Confidentiality
- Delivery/Inspection/Acceptance
- Updates/Modifications/ Corrections
- Export Compliance
- Government Contracts
- Force Majeure
- Governing Law; Jurisdiction; Dispute Resolution
- Assignment; Transferability
- Survival



Addressing and strengthening policy and legal provisions towards legislative interoperability and policy coherence for an enabling environment that maximizes the usefulness and utility of geospatial information



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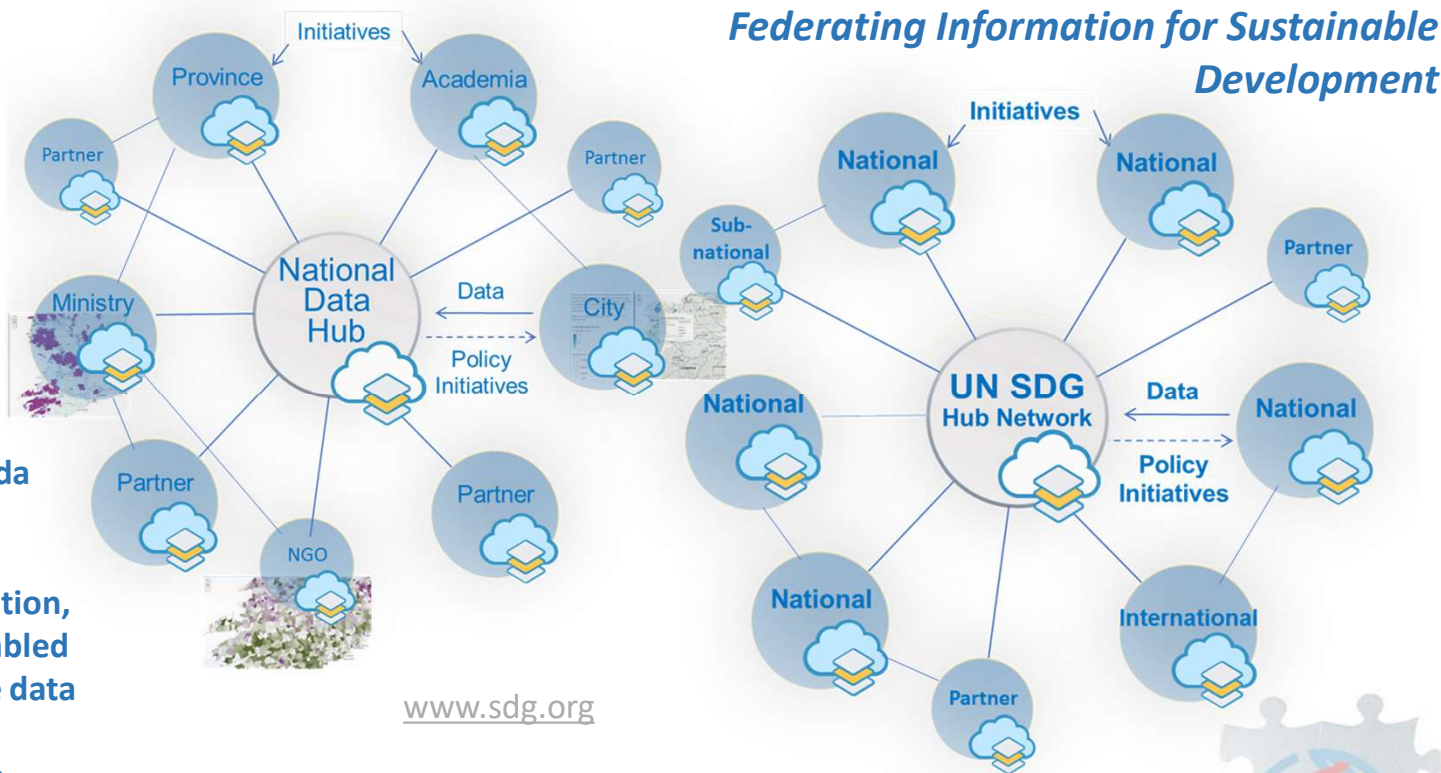
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**Vision:**  
 Implementing the 2030 Agenda through the effective dissemination and use of integrated geospatial information, statistical and other data, enabled by technologies that facilitate data sharing, interoperability and collaboration to report on the SDGs across local, national and global data hubs.



[www.sdg.org](http://www.sdg.org)

helping Member States to implement national development priorities, the 2030 Agenda for Sustainable Development, make decisions, and measure and monitor outcomes



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# Integrated Geospatial Information Framework: Strategic Pathways

- The Framework is anchored by **nine Strategic Pathways** in three main areas of influence: Governance; Technology; and People.
- The objective of the Strategic Pathways is to guide governments towards implementing integrated geospatial information systems in a way that will deliver a vision for sustainable social, economic and environmental development.
- Each Strategic Pathway is augmented by specific objectives to assist countries in achieving the required results.
- The Strategic Pathways are presented as separate pieces of a jigsaw puzzle in recognition that there are many aspects and dimensions to each individual pathway, and that when joined together, the Framework is connected, integrated and implemented.
- Each of the nine Strategic Pathways are explained in more detail, along with specific guidance, in Part 2: Implementation Guide.



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



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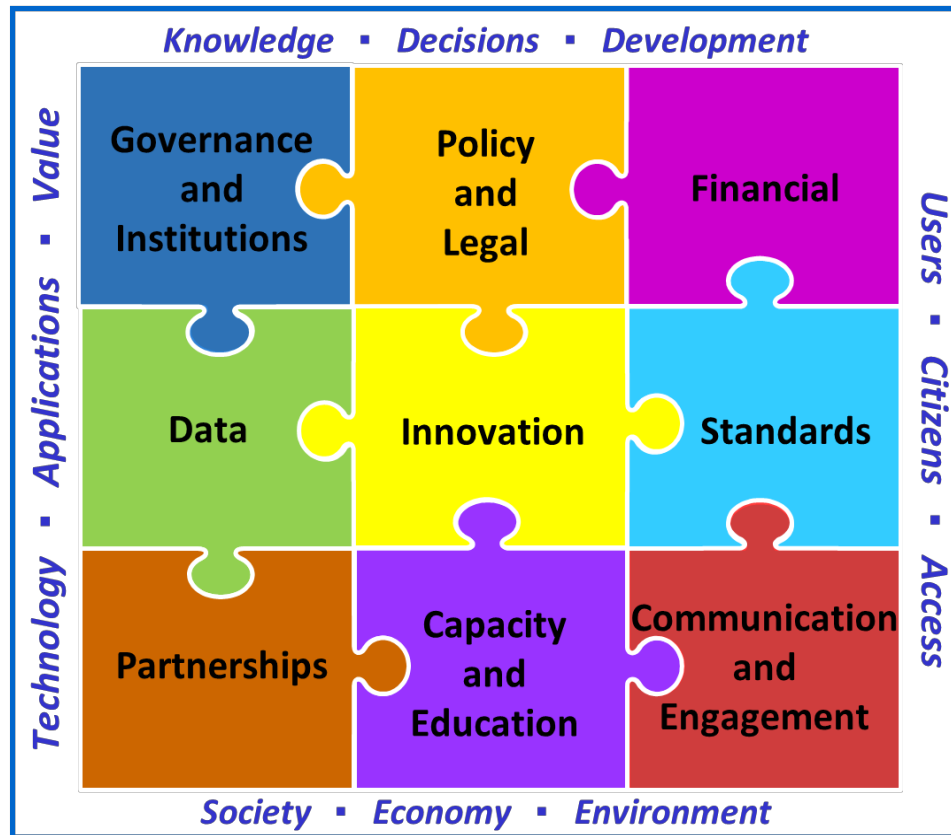
# United Nations Integrated Geospatial Information Framework



Governance →

Technology →

People →



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providing the data for development; for evidence-based policy and decision making



Recognizing that all events and activities have a temporal and geographical context

“Knowing where people and things are and their relationship to each other is essential for informed decision-making. Comprehensive location-based information is helping Governments to develop strategic priorities, make decisions, and measure and monitor outcomes.”



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The learning event sought to strengthen nationally integrated information for sustainable development, integrating geospatial, statistical, and other information for national development priorities and national implementation of the 2030 Agenda, a system-of-systems approach that delivers the evidence on 'where' people interact with their place, events, activities for evidence-based and accountable actions to leave no one behind



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**Did the learning event provide the means –  
for federating information – geospatial, statistical and other  
information;**

**for adopting and applying integrative geospatial technologies  
and processes;**

**as a nexus for delivering evidence on ‘where’ people interact with  
their place, events, activities for evidence-based decisions and  
accountable actions, and to leave no one behind**



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



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**It is possible!**

**What is one thing you will do upon returning to your capital?**

**What do you need to sustain the momentum?**

**and to succeed!**



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**“If you want to go quickly, go alone. If you want to go far, go together”**

*(African Proverb)*



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