International Seminar on United Nations Global Geospatial Information Management "Geospatial Information for Sustainable Development"

6 – 7 December 2018 Nairobi, Kenya



UNITED NATIONS COMMITTEE OF EXPERTS ON GLOBAL GEOSPATIAL INFORMATION MANAGEMENT http://ggim.un.org/



Federated Information System for the SDGs

- Rationale and Vision

TEO CheeHai Statistics Division, Department of Economic and Social Affairs United Nations



The 2030 Agenda for Sustainable Development

Declaration

Vision and shared principles for people, planet, prosperity, peace and partnership

Results Framework

17 integrated and indivisible goals and 169 aspirational targets

2030 Agenda for Sustainable Development

Follow-up and Review

Global indicators underpin an integrated follow-up and review framework

Means of Implementation

Governments, civil society, industry, the UN system, science and technology





Addressing the data needs for the 2030 Agenda for Sustainable Development

New data sources and technologies for data collection will need to be explored, including through partnerships with civil society, the private sector and academia. The integration of geospatial information and statistical data will also be essential for the production of a number of indicators.

(Sustainable Development Goals Report, 2016)

Towards this end, national statistical systems need to invest in the technology and skills necessary to collect and integrate data from multiple sources, including integration of geospatial information with statistics and other data.

(Sustainable Development Goals Report, 2017)

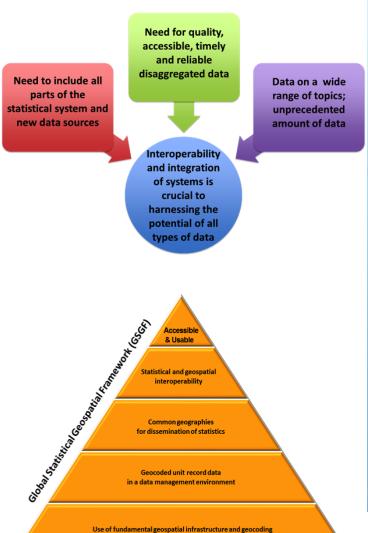
Need to include all parts of the statistical system and new data sources

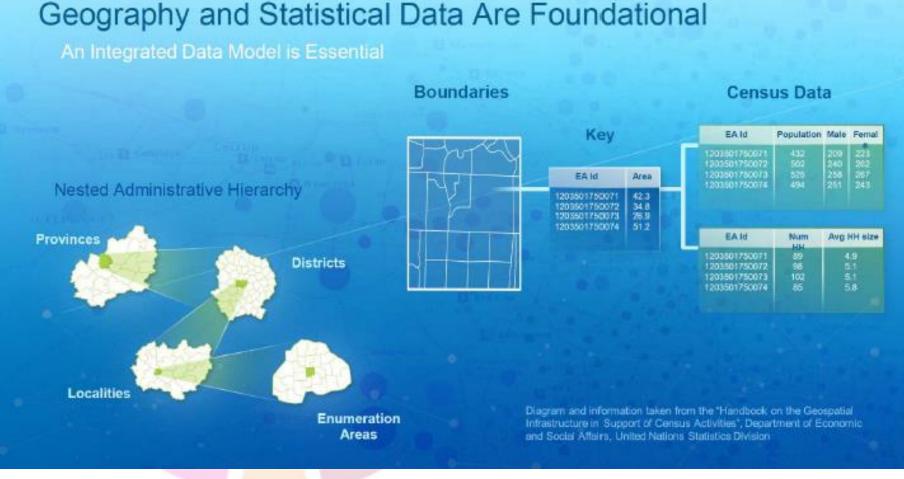
Need for quality, accessible, timely and reliable disaggregated data

Interoperability
and integration
of systems is
crucial to
harnessing the
potential of all
types of data

Data on a wide range of topics; unprecedented amount of data

helping Member States to implement national development and strategic priorities, make decisions, and measure and monitor outcomes

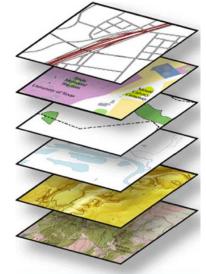




helping Member States to implement national development and strategic priorities, the 2030 Agenda for Sustainable Development, make decisions, and measure and monitor outcomes



bridging the three domains Need for quality, accessible, timely and reliable **Builtenvironment** Geospatial data disaggregated data Need to include all Data on a wide parts of the range of topics; **ENVIRONMENT** statistical system and unprecedented new data sources amount of data Environmental statistics Earth observations Interoperability and integration of systems is crucial to harnessing the potential of all types of data Location Tax data Census A CONTROL OF SEA Transactions Demography & Usable DATA tatistical and geospatial INTEGRATION interoperability Services data **Industry statistics** Common geographies for dissemination of statistics People Businesses TRANSACTIONS Geocoded unit record data in a data management environment Economic statistics Social statistics Use of fundamental geospatial infrastructure and geocoding **ECONOMY**



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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TRANSFORMING OUR WORLD: THE 2030 AGENDA FOR SUSTAINABLE DEVELOPMENT General Assembly Resolution A/RES/70/1

Para. 76; Follow up and Review

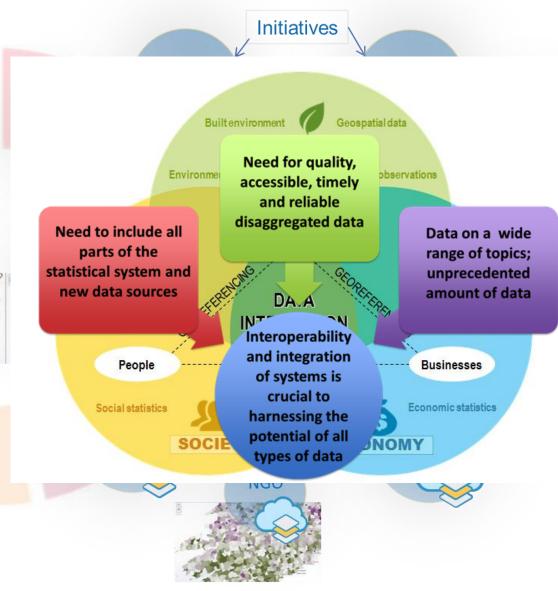
We will support developing countries, particularly African countries, LDCs, SIDS and LLDCs, in strengthening the capacity of national statistical offices and data systems to ensure access to high quality, timely, reliable and disaggregated data. We will promote transparent and accountable scaling-up of appropriate public-private cooperation to exploit the contribution to be made by a wide range of data, *including earth observation and geospatial information*, while ensuring national ownership in supporting and tracking progress.

Target 17:18; Data, monitoring and accountability

By 2020, enhance capacity-building support to developing countries, including for least developed countries and small island developing States, to increase significantly the availability of high-quality, timely and reliable data disaggregated by income, gender, age, race, ethnicity, migratory status, disability, *geographic location* and other characteristics relevant in national contexts.



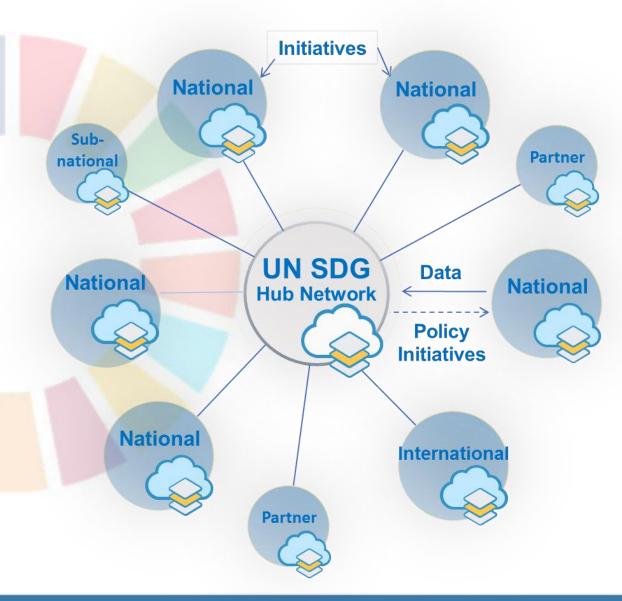
- National and subnational reporting is the most significant level of the SDG review process
- The global SDG monitoring system builds on national data reporting
 - Data derived from national sources is the foundation for SDG reviews at all levels
 - It is crucial to create opportunities for countries to directly contribute to global reporting
- **Digital technology** is available today that allows national information systems to leverage:
 - New sources of data and information
 - New approaches for data collection, management, processing and dissemination
 - New partnerships with civil society, the private sector and academia
 - Integration of geospatial, statistical, and other information systems





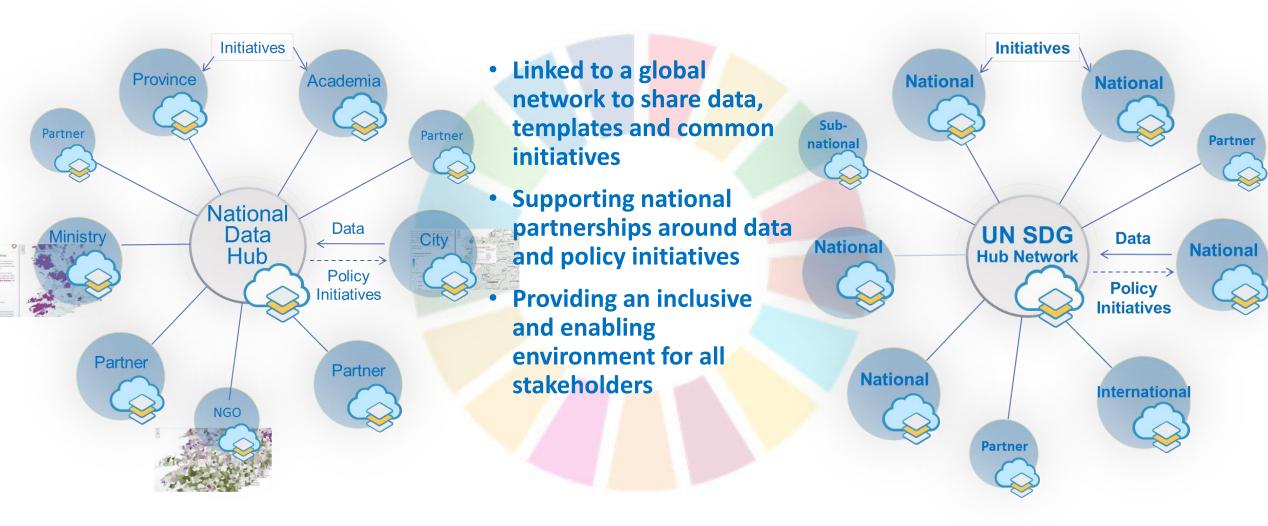
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- It is a country-owned, country-led "system of systems"
- Implemented through
 - Open standards and principles for data interoperability
 - Web-based collaboration, communication and user engagement
 - Geospatial information technologies and data analytics capabilities
- Supports management of statistical and geospatial data, integrating new and complementary data sources with traditional ones
- Enables local/national decision makers to access, understand and use SDG data
- Encourage countries to directly contribute to global SDG reporting through **innovative** applications.





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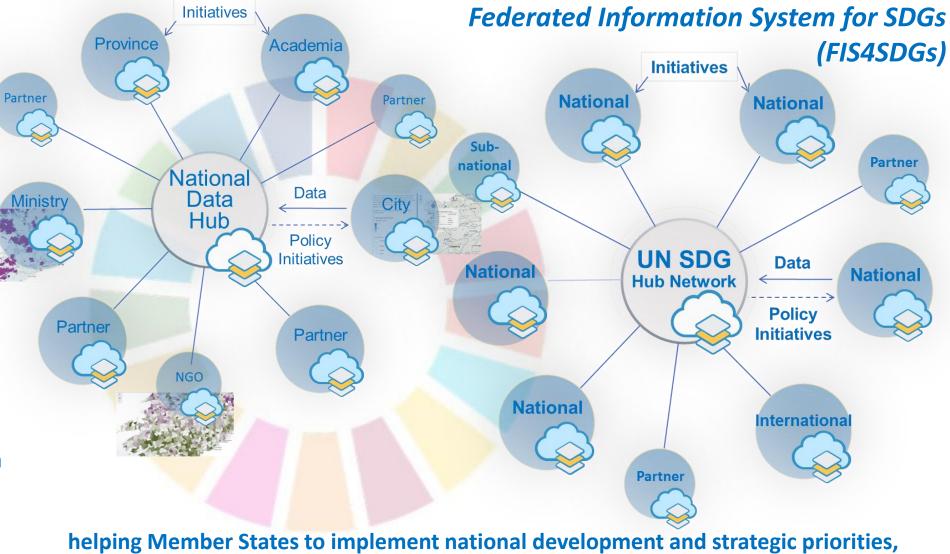




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Implementing the 2030 Agenda through the effective dissemination and use of integrated statistical and geospatial data, enabled by technologies that facilitate data sharing, interoperability and collaboration to report on the SDGs across local, national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



the 2030 Agenda for Sustainable Development, make decisions, and measure and monitor outcomes strengthening the capacity of national statistical offices and data systems"

(A/RES/70/1, para 76)





ISDGs)

Silo thinking in policy development, duplication and inefficiency, poor value for money, confusion for stakeholders, and overall reduction in policy effectiveness

itional Knowledge · Decisions · Development Governance Legal Financial and Institutions Policy

Standards

Engagement

It is difficult to explain to legal and policy makers what should be regulated and why

Result

Malgorzata Drewniak, Lantmateriet Sweden, UNWGIC Nov 2018

Data

Partnerships

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Vision:

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SDGs acı

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United Nations Committee of Experts on Global Geospatial Information Management **Working Group on** Legal and Policy Frameworks for Geospatial Information Management

Governance

Technology

People

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Positioning geospatial information to effectively address global challenges

Innovation

Capacity

Education

Society . Economy . Environment

Positioning geospatial information to address global challenges

The efficient use of

Effective Geospatial

Information Management

Sustainable Education and

Training Programs

To promote and s integrated geos

National Develop Expectations • Mu New Urban Agend Island Developing St

Strategic Enablement

Effective Geospa Information Manag

Sustainable Educati Training Progra

GOALS

Increased Capacity, Capability and Knowledge Transfer

International Cooperation and Partnerships Leveraged

Integrated Geospatial Information Systems and Services

Enhanced National Engagement and Communication

Economic Return on Investment

Enriched Societal Value and Benefits

STRATEGIC PATHWAYS

1	Governance and Institutions	Legal and Policy	Financial	Data	Innovation	Standards	Partnerships	Capacity and Education	Communication and Engagement
1	Governance model Institutional structures Leadership Value proposition	Legislation Implementation and accountability Norms, policies and guides Data protection and licensing	Business model Investment Partnerships and opportunities Benefits realization	Fundamental data themes Data supply chain interlinkages Custodianship, acquisition and management Data curation and delivery	Technological advances Promoting innovation and creativity Process improvement Bridging the digital divide	Legal interoperability Semantic interoperability Data interoperability Technical interoperability	Cross-sector and interdisciplinary cooperation Community participation Industry partnerships and joint ventures International collaboration	Awareness raising Entrepreneurship Formal education Professional workplace training	Stakeholder identification Planning and execution Integrated engagement strategies Monitoring and evaluation

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

Knowledge | Decisions | Development | Society | Economy | Environment | Users | Citizens | Access | Technology | Applications | Value

