Transforming our world -The 2030 Agenda for Sustainable Development



UN-GGIM - World Bank Forum Geospatial Information for Development

The Data Challenge:

Bridging the Geospatial Digital Divide

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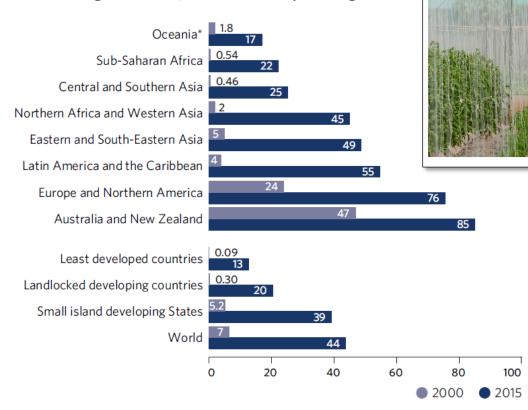


The Digital Divide

Internet services remain inaccessible across large swaths of the developing world

Fixed-broadband services remain largely unaffordable and unavailable across large segments of the developing world. In 2016, fixed-broadband penetration reached 30 per cent in developed countries, but only 8.2 per cent and 0.8 per cent in developing regions and LDCs, respectively. In the developed regions, about 80 per cent of the population are online, compared to 40 per cent in developing regions and 15 per cent in LDCs. Although Internet use in LDCs has tripled over the last five years, the percentage of users today reaches the level enjoyed by developed countries in 1998. However, the LDC average hides large disparities, with some countries doing much better than others. In 2016, levels of Internet use worldwide were 12 per cent lower for women than for men; the gender gap remains even larger in LDCs at 31 per cent. Both globally and in LDCs, this gender gap has widened in recent years.

Individuals using the Internet, 2000 and 2015 (percentage)





The Sustainable Development Goals Report

2017



The Geospatial Digital Divide

"The marketplace is not uniform. As Scott and Rajabifard point out in their paper, while the developed countries have an embarrassment of riches in terms of data, the vulnerable communities suffer from the lack of it. In such an unequal scenario how do we see (our technologies) developing?"

Prof. Arup Dasgupta, Managing Editor Editorial, Geospatial World, July-August 2017



A Strategic Framework for Integrating a Global Policy Agenda into National Geospatial Capabilities

"Presently, the most developed countries are grappling with an abundance and oversupply of data, technology, and innovation, while in many parts of the world data scarcity prevails. When applied to sustainable development there is a greater concern. Those countries that are experiencing significant data scarcity are also those that tend to be the most vulnerable and at greatest risk of being left behind. A vast 'geospatial digital divide' remains."

"While the challenges are immense, the digital technology that is available today allows the necessary transformation and being able to bridge the geospatial digital divide that exists among countries. But realizing this opportunity is complex in many dimensions, not the least being the lack of robust national information systems and associated geospatial frameworks. Achieving sustainable development through digital transformation, and an enabling 'data ecosystem' means we must first bridge the geospatial digital divide"



https://www.geospatialworld.net/blogs/sustainable-development-and-geospatial-information/



Cities of the Future...



Since 2007 more than half the world's population live in cities, where 80% of global GDP is now generated. By 2050, 2 out of 3 people will live in cities, with 90% of that growth in Asia and Africa. UN-GGIM

Cities of the future will be integrative data ecosystems



generating and consuming massive amounts of data related to people, their place, and their environment

Global development policy framework



United Nations

Framework Convention on Climate Change





Addis Ababa Action Agenda
of the Third International Conference on

Financing for Development

(Addis Ababa Action Agenda)





HABITAT III

019

Sendai Framework for Disaster Risk Reduction 2015 - 2030



Small Island Developing States

Apia, Samoa | 2014





THE 2030 AGENDA FOR

SUSTAINABLE DEVELOPMENT











GLOBAL DEVELOPMENT POLICY FRAMEWORK

The 2030 Agenda for Sustainable Development

Sendai Framework for Disaster Risk **Reduction 2015-2030**

SIDS Accelerated **Modalities of Action** (SAMOA) Pathway

Paris Agreement on Climate Change

HABITAT III Urban Agenda

How does Digital Transformation





enable the 'data ecosystem'





How do we bridge the Digital Divide?

to achieve Sustainable Development?



















14 LIFE BELOW WATER



15 LIFE ON LAND









2030 Agenda: Goals, targets, indicators









9 INDUSTRY, INNOVATION AND INFRASTRUCTURE























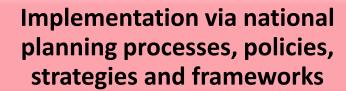




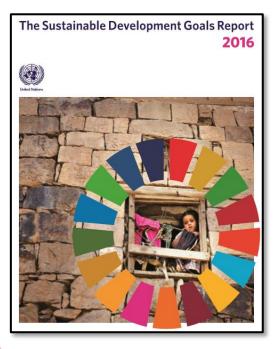


169 Targets

232 global indicators to follow-up and review progress



Measuring and monitoring: Statistics, geospatial information, Earth observations and other Big Data

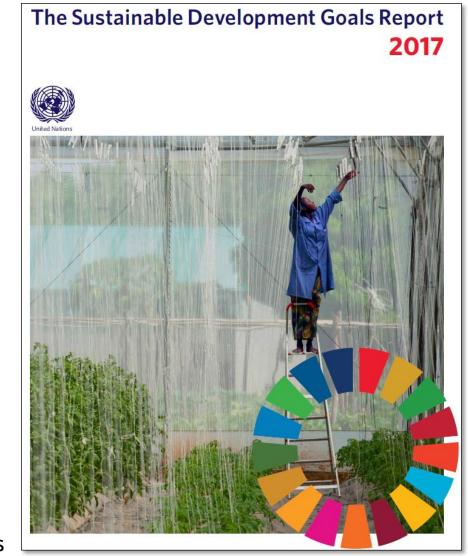


The Sustainable Development Goals Report 2017

"Implementation has begun, but the clock is ticking. This report shows that the rate of progress in many areas is far slower than needed to meet the targets by 2030"

"This report provides a snapshot of our efforts to date. It stresses that high-level political leadership and new partnerships will be essential for sustaining momentum. It also underscores the need for reliable, timely, accessible and disaggregated data to measure progress, inform decision-making and ensure that everyone is counted"

António Guterres Secretary-General, United Nations



Addressing the data needs for the 2030 Agenda

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

Need for quality, accessible, timely and reliable disaggregated data

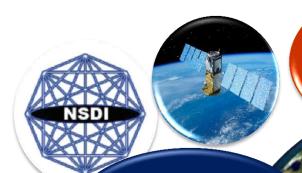
Interoperability
and integration
of systems is
crucial to
harnessing the
potential of all
types of data

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



Addressing the data needs for the 2030 Agenda

- The scope of the 2030 Agenda requires high-quality and disaggregated data that are timely, open, accessible, understandable and easy to use for a large range of users, including for decision making at all levels.
- There is a need for a <u>reporting system on the SDGs</u> that would have benefit from the sub-national (local) to the national level; and allow for global reporting that builds directly on the data shared by countries.
- Important to create an opportunity for <u>countries to directly contribute to the</u> <u>global reporting</u>. While the challenges are immense, the digital technology that is available today allows the necessary transformation.
- An aspiration is to <u>strengthen countries</u>' <u>national geospatial and statistical</u> <u>information systems</u> to facilitate and enable a '*data ecosystem*' that leverages an accessible, integrative and interoperable local to global system-of-systems.



Digital Evolution





Geospatial **Frameworks**

Global Data Ecosystem

Digital Transformation



Implementing Nationally Integrated **Information Systems**

Data Rich

Digital Maturity



Digital Divide



