Geospatial and GNSS CORS Infrastructure Forum Why Geospatial / Geodetic Infrastructure?

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Why geospatial / geodetic information and infrastructure are so fundamentally important to global development!!

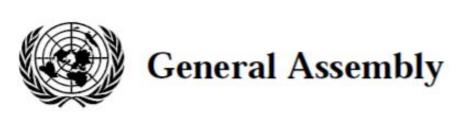


A global geodetic reference frame for sustainable development



Ambassador Peter Thomson, Fiji, 26 February 2015





Distr.: General 11 March 2015

Sixty-ninth session Agenda item 9

Resolution adopted by the General Assembly on 26 February 2015

[without reference to a Main Committee (A/69/L.53 and Add.1)]

69/266. A global geodetic reference frame for sustainable development

The General Assembly,

Reaffirming the purposes and principles of the Charter of the United Nations,

Reaffirming also its resolution 54/68 of 6 December 1999, in which it endorsed the resolution entitled "The Space Millennium: Vienna Declaration on Space and Human Development", which included, inter alia, key actions to improve the efficiency and security of transport, search and rescue, geodesy and other activities by promoting the enhancement of, universal access to and compatibility of space-based navigation and positioning systems, including Global Navigation Satellite systems,

Acknowledging that the global geodetic reference frame depends upon the participation of countries all around the globe, and the need to take action to strengthen international cooperation,

- Notes with appreciation the establishment of a working group by the Committee of Experts on Global Geospatial Information Management to develop a global geodetic road map that addresses key elements relating to the development and sustainability of the global geodetic reference frame;
- Encourages Member States and relevant international organizations to enhance global cooperation in providing technical assistance, especially for capacity development in geodesy for developing countries, with the aim of ensuring the development, sustainability and advancement of the global geodetic reference frame;
- 3. Urges Member States to implement open sharing of geodetic data, standards and conventions, on a voluntary basis, to contribute to the global reference frame and regional densifications through relevant national mechanisms and intergovernmental cooperation, and in coordination with the International Association of Geodesy;
- 4. Invites Member States to commit to improving and maintaining appropriate national geodetic infrastructure as an essential means to enhance the global geodetic reference frame;
- Also invites Member States to engage in multilateral cooperation that addresses infrastructure gaps and duplications towards the development of a more sustainable global geodetic reference frame;
- Further invites Member States to develop outreach programmes that
 make the global geodetic reference frame more visible and understandable to
 society.

Wu Hongbo, United Nations Under-Secretary-General for Economic and Social Affairs, praised Member States' efforts to "discuss, deliberate and decide on issues relevant to positioning geospatial information" and, noting that geodesy is fundamental for monitoring changes to the Earth, "stressed the significance of the global geodetic reference frame in supporting sustainable development"

A unique opportunity for geodesy

"The momentum the adoption of the UN resolution has created will position the global geodetic community well for the complex task ahead, developing a roadmap for GGRF enhancement"

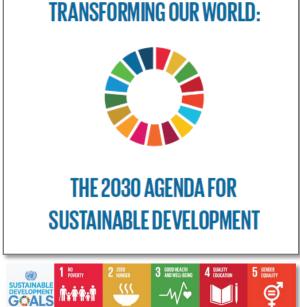
Gary Johnston, Co-Chair, GGRF Working Group



Global Development Agenda











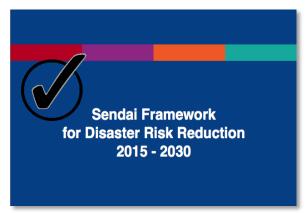
Global Development Agenda



United Nations

Framework Convention on Climate Change











THE 2030 AGENDA FOR SUSTAINABLE DEVELOPMENT



ggim.un.org



Addis Ababa Action Agenda of the Third International Conference on Financing for Development (Addis Ababa Action Agenda)







2030 Agenda: Unlocking the power, but how?

The global geospatial community, particularly through national geospatial information agencies, has a unique opportunity to integrate geospatial information into the global development agenda in a more holistic and sustainable manner, specifically in measuring and monitoring the targets and indicators of the SDGs.





2030 Agenda: Global to local in context



Global

National

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

National

Local



2030 Agenda: Goals, Targets, Indicators

How does the 2030 Agenda data ecosystem operate?

- What do the SDGs mean? Where do they apply? What data is needed? How do we get it? Is it sustainable?
- How do we realize the data ecosystem in the SDGs?
- Unlike the MDGs, with the SDGs we are all developing countries.
- Rich v Poor: Not just nations. Also data, technology, capacity, governance, institutional, methodologies, etc.
- Data disaggregation what does it mean and at what level of geography?
- How do we report on annual SDGs progress?

17 SDGs

Results Framework: 169 Targets

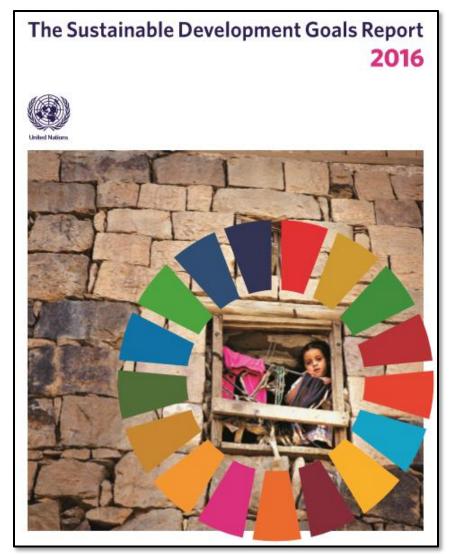
230 Global Indicators to follow-up and review progress

Implementation via national planning processes, policies, strategies and frameworks

National policy framework for integrating geospatial information



Reporting Annual SDGs Progress





Sustainable Development Goals Report 2016

Ensuring that no one is left behind



127. As a starting point, it requires an understanding of which population groups are the most disadvantaged, in what way and to what extent. This is only discovered through accurate information that is broken down by age, sex, location of residence and other group characteristics. As stated in the 2030 Agenda: "Quality, accessible, timely and reliable disaggregated data will be needed to help with the measurement of progress and to ensure that no one is left behind. Such data is key to decision-making".

128. The data demands relating to the SDGs are unprecedented, and will require coordinated efforts at the global, regional and national levels. However, even from the data currently available, it is abundantly clear that the benefits of development are not equally shared.



Sustainable Development Goals Report 2016

Improving data quality and availability



143. Data of good quality are vital in order to make informed decisions and to ensure accountability for the implementation of the 2030 Agenda. Tracking progress on the SDGs requires the collection, processing, analysis and dissemination of an unprecedented amount of data and statistics at the subnational, national, regional and global levels, including those derived from official statistical systems and from new and innovative data sources.

147. 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.



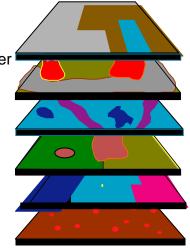
NSDI

High quality, timely and reliable data

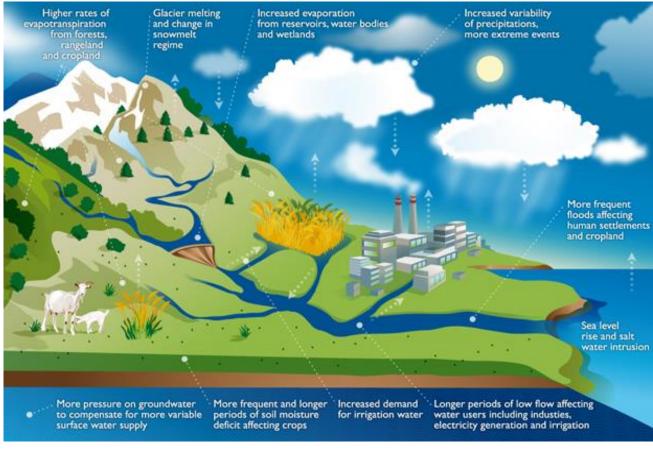
Geodetic
Elevation
Water/Ocean
Land use/cover
Transport
Cadastre
Population
Infrastructure
Settlements
Admin. Bdys.
Imagery
Geology/soils

Observations

etc.



National Spatial Data Infrastructure





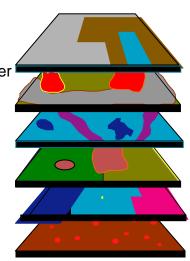


High quality, timely and reliable data

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SOCIAL Society Poverty Education Health Population Employment Water Sanitation Equality Gender



Governance











































Global Development Agenda



United Nations

Framework Convention on Climate Change



Sendai Framework for Disaster Risk Reduction 2015 - 2030







THE 2030 AGENDA FOR SUSTAINABLE DEVELOPMENT







Addis Ababa Action Agenda
of the Third International Conference on
Financing for Development
(Addis Ababa Action Agenda)



ISLAND VOICES
GLOBAL CHOICES

UN Conference on Small Island Developing States

Apia, Samoa | 2014



Positioning geospatial information to address global challenges