

Fifth Meeting of the Inter-agency and Expert Group on Sustainable Development Goals Indicators

Ottawa, Canada

28 – 31 March 2017

Report of the IAEG-SDGs Working Group on Geospatial Information

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2030 Agenda for Sustainable Development: Requires Integration of Information Systems



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- ❑ The **primary objective** is to ensure from both a statistical and geographical (geospatial) perspective that the key principle of the 2030 Agenda, to leave no one behind, is reflected in the global indicator framework

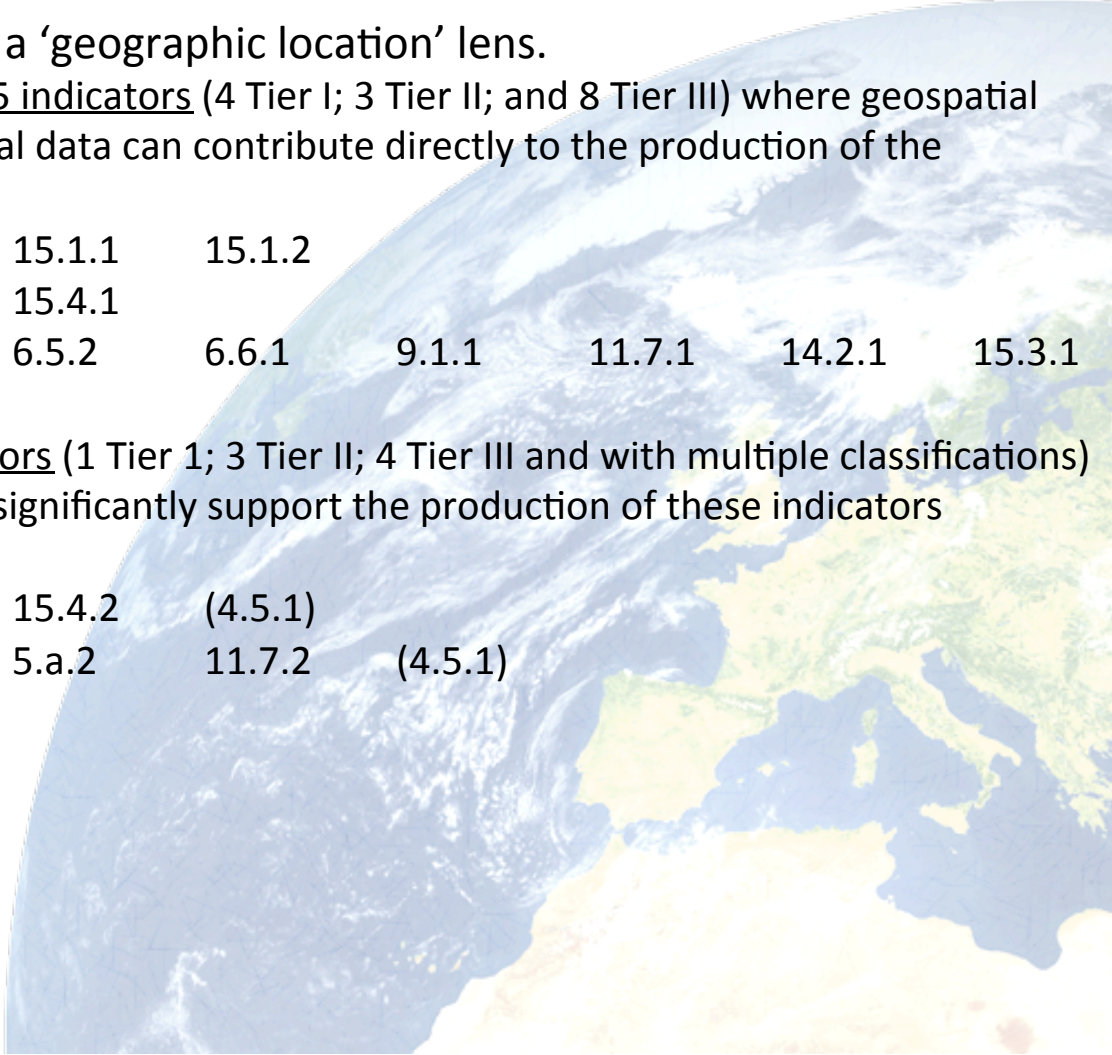
- ❑ The **Third Meeting** of the Working Group will be hosted by the Government of China through the National Administration of Surveying, Mapping and Geoinformation in Kunming, China
8 – 10 May 2017

- ❑ The **Mexico City Expert Group Meeting** was the second meeting of the Working Group and was hosted by the Government of Mexico through the Instituto Nacional de Estadística y Geografía (INEGI) at its premises in Ciudad de México.
12 – 14 December 2016
17 of the 22 members of the Working Group participated
Total of 30 participants, including invited international and national experts



Highlights from the Mexico City Expert Group Meeting

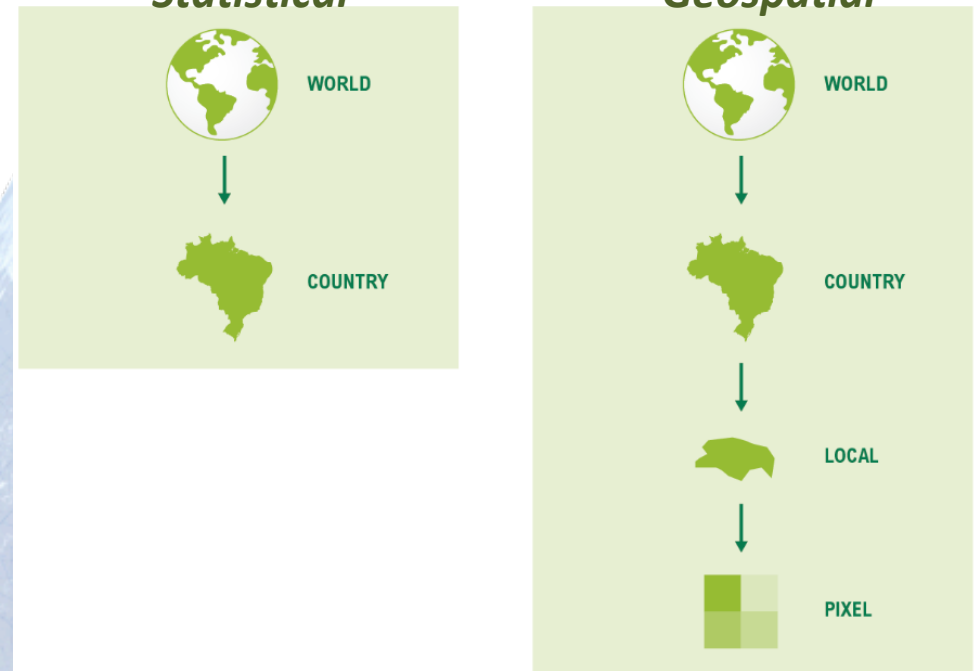
- ❑ Reviewed global indicators through a ‘geographic location’ lens.
 - ❑ Consensus around a short-list of 15 indicators (4 Tier I; 3 Tier II; and 8 Tier III) where geospatial information together with statistical data can contribute directly to the production of the identified indicators
 - ❑ *Tier I* 9.c.1 14.5.1 15.1.1 15.1.2
 - ❑ *Tier II* 11.2.1 11.3.1 15.4.1
 - ❑ *Tier II* 2.4.1 6.3.2 6.5.2 6.6.1 9.1.1 11.7.1 14.2.1 15.3.1
 - ❑ An additional short-list of 9 indicators (1 Tier I; 3 Tier II; 4 Tier III and with multiple classifications) where geospatial information can significantly support the production of these indicators
 - ❑ *Tier I* 1.1.1 (4.5.1)
 - ❑ *Tier II* 5.2.2 5.4.1 15.4.2 (4.5.1)
 - ❑ *Tier III* 1.4.2 5.a.1 5.a.2 11.7.2 (4.5.1)



- ❑ Geospatial information is able to provide enabling methodologies and processes for disaggregation.
- ❑ Disaggregation of national statistical data is considerably strengthened through the lens of geospatial information
- ❑ This is acknowledged within the principles of the Global Statistical Geospatial Framework

“Geospatial information and earth observations provide enabling methodologies and processes for disaggregation, strengthening national statistical data and the global indicators through the power of location”

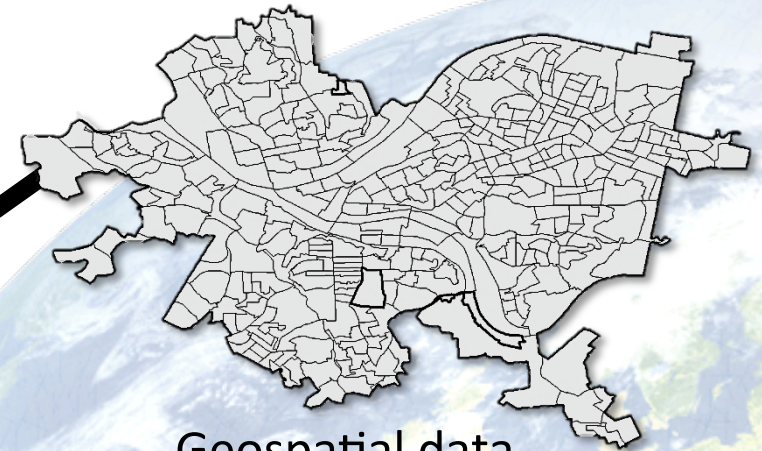
Disaggregated by Geographic Location



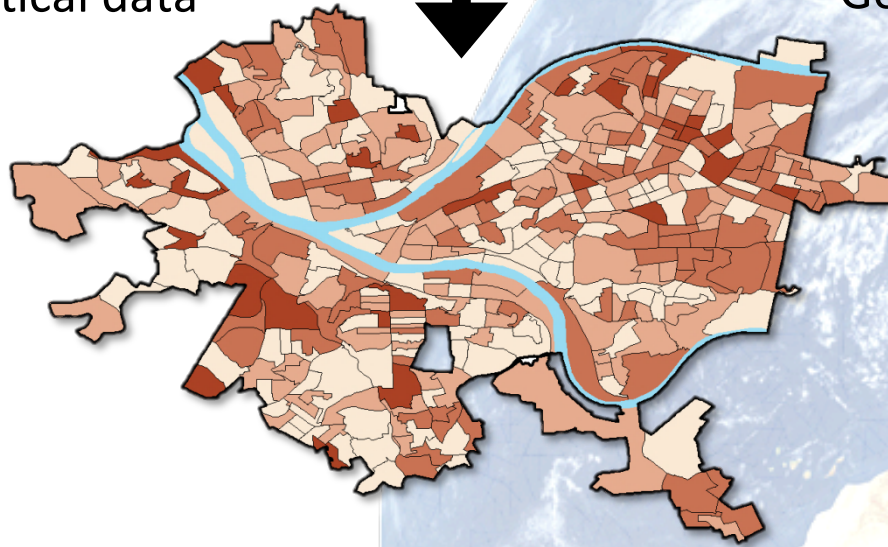
Integration and disaggregation by geographic location

2987	1353	40301945	120383	15.560669	0.0464
4965	2042	50779330	14126	19.606010	0.0054
723	339	9101325	0	3.514041	0.0000
521	239	1436797	0	0.554750	0.0000
22619	8594	53023800	141711	20.472605	0.0547
17247	7090	67212867	258738	25.951034	0.0998
15008	6855	100534344	433413	38.816529	0.1673
3692	1467	28736198	0	11.095109	0.0000
2567	1092	11645143	0	4.496215	0.0000
629	198	2685621	1451	1.036924	0.0000
984	437	9851874	28111	3.803830	0.0108
8794	4279	48884652	242897	18.874470	0.0937
354	174	3345039	0	1.291550	0.0000
24276	12787	117651320	85700	45.425431	0.0330
7174	3223	33070427	211423	12.768564	0.0818
1034	506	5284061	0	2.040187	0.0000
1780	726	31519227	252950	12.169642	0.0978
772	335	13129325	0	5.069261	0.0000

Statistical data



Geospatial data



- ❑ Agreed to the formation of 6 Task Teams
 - ❑ 3 Task Teams focused on working through 3 agreed indicators, namely 6.6.1, 9.1.1 and 15.3.1
 - ❑ 3 Task Teams sought to address three identified cross-cutting issues, namely data disaggregation by geographic location, alternative data sources and international geospatial (global) dataset and sources

Some considerations from the Task Teams:

- ❑ *Task Team TT-2 on Indicator 9.1.1, considered a country-level case study (through a national level workshop) that observed the following –*
 - ❑ Considered that, for the purpose and reliability of this indicator, peri-urban, other urban areas and towns that are not officially gazetted as urban areas should be excluded from the rural population.
 - ❑ Household questionnaire could not produce reliable information on the “2 kilometres distance” as respondents did not know how to estimate distances.
 - ❑ Geospatial information is needed to provide unbiased “2 kilometres distance” determination and the location of existing all-season road.
 - ❑ Geospatial information together with geo-coded population data will improve the production of this indicator.



- ❑ *Task Team TT-C3* addressed a cross-cutting issue, the role and utilisation of geospatial data from international sources, and observed the following –
 - ❑ Recognised the importance of national geospatial data sources
 - ❑ Possible to integrate national and international data sets (*notwithstanding certain technical considerations*), as an example, a national forest map from the year 2000 was combined with the annual global tree cover maps for the years 2000-2012 to obtain multi-temporal information on forest change, and to create a baseline estimate of forest change from 2000 to 2020.
 - ❑ There are satellite data/imageries that have since become freely available (*and depending on the kind of dataset freely available, there can also be some challenges in its use, often related to the spatial resolution, the need to process and interpret the data before information can be extracted*)

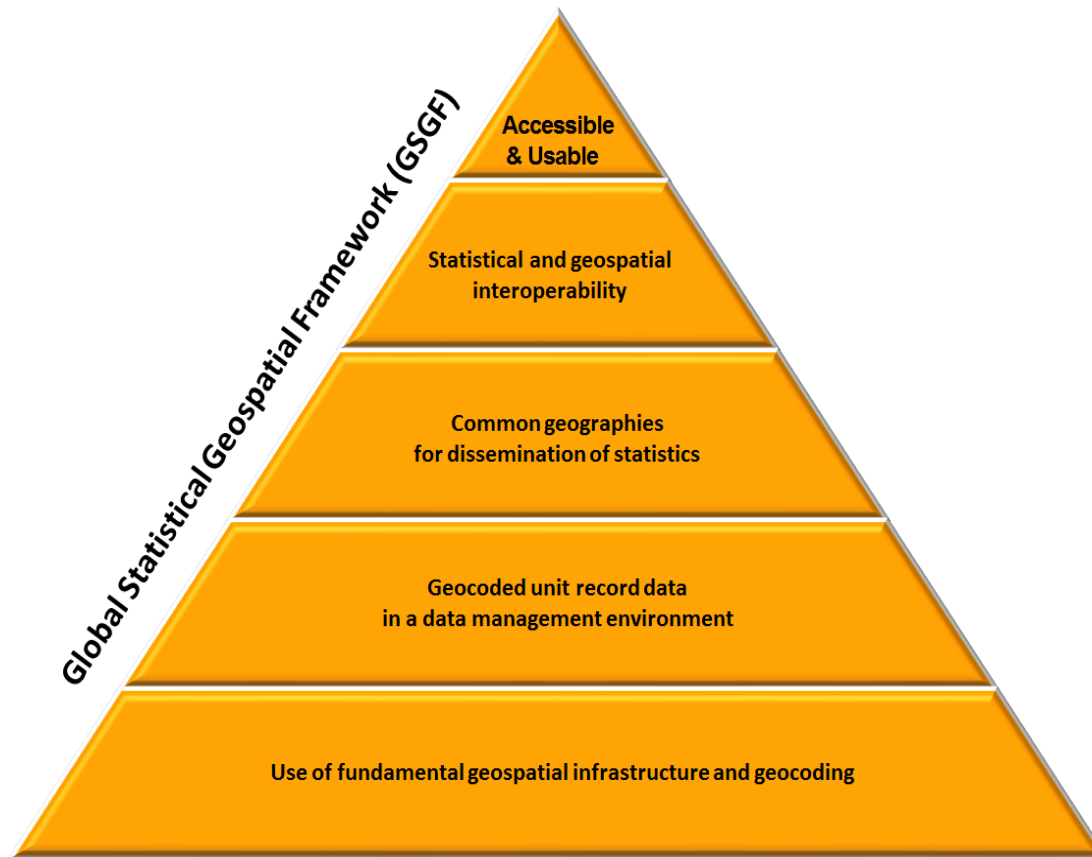
Additional Considerations

- ❑ The Working Group suggests that it engages, sooner rather than later, Custodian Agencies and their partners to -
 - ❑ Better understand and support the process and the progress in definition/classification and methodological development for the identified Tier III indicators.
 - ❑ Support and contribute to ongoing methodological development and consultation from the geographic location, geospatial information and earth observations aspects.
 - ❑ Identify additional and alternative data sources, particularly satellite data/imageries from international sources that are freely available, that could support the production of indicators.



Additional Considerations

- The five guiding principles of the Global Statistical and Geospatial Framework were –
 - Adopted by the 6th Session of the United Nations Committee of Experts on Global Geospatial Information Management (*August 2016*); and
 - Endorsed by the 48th Session of the United Nations Statistical Commission (*March 2017*).



Foundation for the integration of statistical and geospatial information including to support and improve the production of indicators.



