Global Forum on the Integration of Statistical and Geospatial Information

Summary-Report

New York
4 – 5 August 2014
Table of Contents

Introduction ............................................................................................................................................................................ 3
Opening Session ........................................................................................................................................................................ 3
Organization of work ............................................................................................................................................................... 4
Key Outcomes ............................................................................................................................................................................ 4
Conclusions and the Way Forward ............................................................................................................................................. 6
Annex 1. List of participants ..................................................................................................................................................... 7
Annex 2. Agenda ....................................................................................................................................................................... 21
Introduction

1. In 2013, at each of their respective intergovernmental meetings, the United Nations Statistical Commission (STATCOM) and the United Nations Committee of Experts on Global Geospatial Information Management (UN-GGIM) “acknowledged the critical importance of integrating geospatial information with statistics and socio-economic data, and the need to develop a statistical-spatial framework, especially in the context of the on-going debate on the post-2015 development agenda”. They established an Expert Group on the Integration of Statistical and Geospatial Information to carry out work on developing a statistical-spatial framework as a global standard for the integration of statistical and geospatial information, inclusive of an international conference.

2. The United Nations Statistics Division, in collaboration with the Expert Group on the Integration of Statistical and Geospatial Information, convened the first Global Forum on the Integration of Statistical and Geospatial Information in New York, 4-5 August 2104, in conjunction with the 4th session of UN-GGIM. As a way of reaching out and developing best practices, bringing together both the statistical and geospatial professional communities, the Global Forum brought together more than 200 senior leaders, from 73 countries, to discuss the strategic vision and goals for the integration of statistical and geospatial information. It continued the global consultation and communication on the development of a global statistical-spatial framework initiated since the inception of the Expert Group in November 2013. A full list of participants is available at Annex 1.

Opening Session

3. Mr. Rolando Ocampo, from INEGI-Mexico, in his capacity of co-Chair of the Expert Group on the Integration of Statistical and Geospatial Information, declared the opening of the Global Forum and welcomed all the delegates. He then gave the floor to his co-Chair, Mr. Peter Harper, from ABS-Australia, to chair the opening session. Mr. Harper made a few opening remarks on the genesis of the Expert Group, the importance of its work to achieve the integration of statistical and geospatial information, as well as the desired vision for the future.

4. Mr. Stefan Schweinfest, UNSD Director, welcomed the participants, recalled the decisions adopted by the 44th Session of the Statistical Commission and the third Session of UN-GGIM which led to the establishment of the Expert Group, the organization of its first meeting in New York in November 2013 and the International Workshop in Beijing in June 2014. In his opening remarks, he emphasized that the establishment of the Expert Group, bringing together global statistical and geospatial experts to discuss and address common issues, reflects the recognition of the importance of the integration of geospatial information and statistics in supporting social, economic and environmental policy decision-making.
5. An agenda, as presented at Annex 2, was considered as the means to guide the issues and discussions by the experts.

**Organization of work**

6. The programme of the Forum has been prepared to be strategy-oriented. It consisted of an opening session to set the global context for the main theme of the Forum, and four subsequent sessions to discuss what has been done so far to achieve the vision of integration of statistical and geospatial information and how to get there. The Global Forum was indeed conducted through a combination of keynote speeches, by distinguished speakers, and various presentations by experts, representing the national statistical offices and the national geospatial information authorities, international/regional organizations and UNSD, as well as discussions during topic-oriented sessions. For papers and presentations see [http://ggim.un.org/Global%20Forum.html](http://ggim.un.org/Global%20Forum.html).

7. Experts from both statistical and geospatial communities were compelled by emerging trends to look for the common ground, and their contributions were fully supportive of the need to integrate statistical and geospatial information, including through the development of a statistical-geospatial framework, the building of capabilities and expertise, the adoption of common terminology, and better coordination and cooperation. What follows is a summary of salient issues that were discussed during the sessions, the major outcomes and conclusions for the way forward.

**Key Outcomes of the Global Forum**

8. There was a general recognition by the participants that the Global Forum offered a good opportunity for a better understanding of future challenges and other required actions to be taken by both the national statistical offices (NSOs) and the national geospatial information authorities (NGIAs) in integrating statistical and geospatial information. It was noted that both statistical and geospatial communities are major contributors of information used for evidence-based decision-making across many sectors, both public and private, for which institutional coordination and cooperation between the statistical and geospatial agencies within a country are vitally important and key factors to the success of the integration.

9. It was acknowledged that in order to meet the objective of providing a forum for coordination and communication among representatives of both statistical and geospatial communities, with a view to closely working with ‘Big Data’ community, it was important to first define common terminologies and share agreed protocols. It was also noted that data collection, processing, analysis and operations are important, but more important are the access to and sharing of data, and particularly the communication of related information and knowledge sought by end users.

10. Participants stressed the fact that institutional integration within a country to support statistical and geospatial integration requires a strong political commitment. In this regard, advocacy of the benefits of linking socio-economic
data to a location and the value proposition of integrating statistical and geospatial information should be conveyed to decision and policy makers, allowing them to understand the need of national institutions for adequate resources to achieve the integration.

11. One of the recurrent key issues discussed were the various geographic classifications practices and approaches used to determine and represent geographical units for statistical purposes. In this regard, there is agreement on the need for a comprehensive study and methodological guidelines on the advantages, benefits, and appropriate use associated with a grid-based approach versus a population/administrative approach or a mixed approach to the compilation and dissemination of statistical data and information.

12. Participants stressed the challenges NSOs and NGIAs face in maintaining data confidentiality and privacy with the advancement of technology accompanied by greater demands for data accessibility. It was recommended that national statistical and geospatial organizations take extra steps to safeguard confidentiality not only in the micro-data provisions, but also with regard to small areas with GIS presentations and its corresponding spatial analysis capabilities. Confidentiality breaches can potentially happen with outsourcing requiring that safeguards by way of specific or explicit provisions in the contract with the service providers be provided and followed.

13. The benefits of developing, adopting and implementing technical standards and common metadata have been recognized by the participants from both statistical and geospatial communities, as they enable interoperability and facilitate the integration and use of diverse sources of statistical and geospatial data and services in all sectors of a global economy. It was noted that the development of common standards and metadata would make statistical and geospatial information more useable and more relevant to a wider range of stakeholders.

14. Geography is increasingly recognized as key to virtually all national statistics, providing a structure for collecting, processing, storing, aggregating and disseminating data. It was noted that many national statistics offices are already transforming, or are planning to transform, their statistical infrastructure, offering an opportunity to embed geography into their national systems and processes; such activities can contribute to the modernization of statistics. It was also noted that there is a strong spatial dimension to environmental economic accounting which can benefit from the integration of statistical and geospatial information.

15. Providing a greater geographic context for population census information was also an important driver that was noted by the participants. In this regard, there was agreement that the 2020 Round of Censuses offer an opportunity to enhance the geospatial capabilities of NSOs, including opportunities for efficiencies. The agreement on a course of action for the development of a statistical-geospatial information infrastructure in support of the 2020 Round of Censuses was stressed.

16. Participants recognized that adding a geospatial capability to statistics requires the codification of location attributes linked to socio-economic statistical information, known under the concept of geocoding. Geocoding, including
geocoding of addresses, was indeed recognized as a fundamental building block to maximising the spatial potential of statistical information. The Expert Group should agree on a common approach to geocoding address information, such as the addition of a geocoded reference (ideally latitude and longitude) in each data record in the data management system, and the use of a common set of hierarchical geographic boundaries that are based on population numbers, so that each geographic area within each level of the hierarchy contains similar population numbers.

17. It was noted that sharing best practice principles, particularly around innovative dissemination and analytical/modelling techniques, is another mechanism for developing a consistent approach to integrating socio-economic and geospatial information. The global analytics community has similar interests and objectives and could be a powerful ally in meeting the challenge of linking socioeconomic information to a location.

18. Participants confirmed the need for an overarching statistical-spatial framework as part of an overall information architecture at both the national and global levels. They recognized that when both statistical information and geospatial information are integrated within a statistical-spatial framework, the geo-statistical results can significantly improve the quality of official statistics and Population Censuses, and the measuring and monitoring of the sustainable development goals.

Conclusions and the Way Forward

Participants of the Forum concluded that:

19. As major contributors of information used as evidence-based decision-making across many sectors, both public and private, coordination and institutional integration between the statistical and geospatial agencies within a country is vitally important;

20. Geospatial data can significantly improve the quality (accuracy, relevance, accessibility) of official statistics, and population censuses are key enablers for demonstrating statistical and geospatial integration for all stages of a statistical cycle;

21. Both statistical and geospatial communities should have a common voice in information discussions, such as the Post-2015 Development Agenda; and

22. There is an urgent need for a mechanism, such as a global statistical-spatial framework, to facilitate consistent production and integration approaches for geo-statistical information.
Annex 1:

List of Participants

Albania
1. Mr Ilirjan Muho  
   Chief Registrar of IPRO
2. Mr Xhevair Llakaj  
   Chief of ICT Development Sector
3. Mr Besnik Como  
   Chief of ALBPOS Sector

Angola
4. Mr Paulo Fonseca  
   National Institute of Statistics  
   Department of Census & Surveys
5. Mr Isagildo da Costa Francisco  
   National Institute of Statistics  
   Department of Census & Surveys

Antigua and Barbuda
6. Mr Statchel Edwards  
   Chief Statistician  
   Statistics Division  
   Ministry of Trade, Industry and Commerce

Argentina
7. Ms Gabriela Mara Ackermann  
   Instituto Nacional de Estadistica y Censos (INDEC)

Australia
8. Mr Peter Harper  
   Deputy Australian Statistician  
   Australian Bureau of Statistics
9. Mr Stuart Minchin  
   Chief of Environmental Geoscience Division,  
   Geoscience Australia
10. Mr Gary Johnston  
    Group Leader of Geodesy and Seismic Monitoring  
    Geoscience Australia

Austria
11. Ms Gerda Schennach  
    BEV - Bundesamt für Eich- und Vermessungswesen Federal,  
    Office of Metrology and Surveying

Azerbaijan
12. Mr Garib Mammadov  
    Chairman of the State Committee of  
    Land and Cartography of the Republic of Azerbaijan
13. Mr Javid Abdullayev  
    Head of Geospatial and Information  
    Technologies, Internal Relations Dept  
    State Committee of Land and Cartography of the  
    Republic of Azerbaijan
14. Mr Elchin Maharramov  
    Director of the State Areal Geodesy Company
15. Mr Mukhtar Abduyev
First Secretary of the Permanent Mission of the Republic of Azerbaijan

Bangladesh
16. Mr Md Abul Khair
   Surveyor General of Bangladesh
   Government of the People’s Republic of Bangladesh
17. Mr Md. Nojibur Rahman
   Hon’ble Secretary
   Statistics and informatics Division
   Ministry of Planning
18. Mr Md. Oliullah
   Deputy Secretary
   Statistics and informatics Division
   Ministry of Planning
19. Mr Md. Zahidul Hoque Sardar
   Director and Project Director
   Strengthening Capacity of BBS
   Population and Demographic Data Collection Using GIS Project
   Bangladesh Bureau of Statistics

Belarus
20. Ms Natalie Barten
    International Cooperation Division
    National Statistical Committee of the Republic of Belarus

Brazil
21. Ms Valéria Oliveira Henrique de Araújo
    Assistant
    Brasilian Institute of Geography and Statistics
22. Mr João Bosco de Azevedo
    Asessor, Diretoria de Geociências
    Brazilian Institute of Geography and Statistics

Bulgaria
23. Mr Sergey Tsvetarski
    President of the National Statistical Institute of Bulgaria

Burkina Faso
24. Mr Claude Obin Tapsoba
    Directeur Général
    Institut Géographique du Burkina

Cambodia
25. Ms Hang Lina
    Director General
    National Institute of Statistics
26. Mr Oukchay Panhara
    Deputy Director General
    National Institute of Statistics
27. Mr Vong Sopheara
    Vice Bureau Chief of ICT Department
    National Institute of Statistics

Cameroon
28. Mr Martin Mbotta Elimbi
    Director General
    Institut National de Cartographie (INC)

Canada
29. Mr Joe Kresovic  
   Director  
   Census Operations Division  
   Statistics Canada

30. Ms Wendy Ripmeester  
   Manager, Canadian GeoSecretariat  
   Canadian Centre for Mapping and Earth Observation  
   Natural Resources Canada

**China**

31. Mr Pengde Li  
   Deputy Administrator  
   National Administration of Surveying, Mapping and Geoinformation of China

32. Ms Xiaohong Jiang  
   Division Director  
   Department of Science, Technology and International Cooperation  
   National Geomatics Center of China

33. Mr Xianjun Chen  
   Director  
   Department of Science, Technology and International Cooperation  
   National Geomatics Center of China

34. Mr Shu Peng  
   Senior Engineer  
   Department of Remote Sensing and Photogrammetry  
   National Geomatics Center of China

35. Ms Xiaqing Tian  
   Consultant, Division of Geographic Information  
   Census Center of NBS  
   National Bureau of Statistics of China

**Colombia**

36. Ms Diego Silva Ardila  
   Deputy Director  
   Departamento Administrativo Nacional de Estadistica

37. Ms Edna Piedad Cubillos  
   Head of Research and Development in Geographic Information  
   CIAF

38. Mr Elena Posada  
   Coordinator of the Working Group of Spatial Data Infrastructure  
   Information Management Research and Development Geographic Information

39. Mr Andrea Olaya  
   Advisor to the Directorate General  
   Institute Agustin Codazzi – IGAC

**Costa Rica**

40. Mr Max Lobo Hernandez  
   Director  
   National Geographical Institute  
   Costa Rica

**Cote D’ Ivoire**

41. Mr Ibrahima BA  
   Directeur Général  
   Institut National de la Statistique

**Denmark**

42. Mr Kristian Møller  
   Director General  
   Danish Geodata Agency, Ministry of the Environment Denmark
43. Mr Gert Olav Wedekin **Eggers**  
Senior Consultant  
Danish Geodata Agency, Ministry of the Environment Denmark

**Dominican Republic**  
44. Mr Juan Antonio **Arias Tejada**  
Encargado Departamento de Cartografía Oficina Nacional de Estadística (ONE)  
45. Mr Emiliano **Perez**

**Ecuador**  
46. Mr José **Rosero Moncayo**  
Executive Director  
Instituto Nacional de Estadística y Censos (INEC)

**Egypt**  
47. Ms Nahla **Sedek**  
Director of GIS Department  
CAMPAS

**Ethiopia**  
48. Mr Sultan Mohamed **Alya**  
Director General  
Ethiopian Mapping Authority

**Fiji**  
49. Mr Samuela **Naicegucegu**  
Director of Land Use  
Ministry of Lands and Mineral Resources

**Finland**  
50. Mr Arvo **Kokkonen**  
Director General  
National Land Survey of Finland  
51. Ms Heli **Ursin**  
Head of International Affairs  
National Land Survey of Finland  
52. Ms Marja **Tammilehto-Luode**  
Chief Adviser  
Statistics Finland, Population and Social Statistics

**Georgia**  
53. Ms Ekaterina **Meskhidze**  
Head of International Agency of Public Registry  
Ministry of Justice of Georgia  
54. Mr Vakhtang **Makharoblishvili**  
Deputy Permanent Representative of Georgia to the UN  
55. Mr Merab **Manjgaladze**  
Counsellor of the Permanent Mission of Georgia to the UN

**Germany**  
56. Mr Hansjörg **Kutterer**  
Director General  
Federal Agency for Cartography and Geodesy  
57. Mr Marcus **Wandinger**  
Working Committee of the Surveying Authorities Of the Laender of the Federal Republic of Germany  
58. Mr Gottfried **Konecny**  
Institute of Photogrammetry and GeoInformation
University of Hanover
59. Ms Susanne Schnorr-Bäcker
   Federal Statistical Office
60. Ms Anja Stenger
   First Secretary
   German Mission to the UN

Ghana
61. Mr Anthony Amuzu
   Head, Survey Organization and Census Directorate
62. Ms Rosalind Quartey
   Head, Geographic Information System Section

Guyana
63. Mr Donald Singh
   Manager of Land Management Division
   Guyana Geology & Mines Commission

Haiti
64. Mr Guy Lamothe
   Haitian Ambassador in Mexico

Iceland
65. Mr Magnús Guðmundsson
   Director General
   National Land Survey of Iceland

Indonesia
66. Ms Lisa Ginting
   Head of Statistical Mapping Development Sub-directorate
   BPS-Statistics Indonesia

Iran
67. Mr Mohammad Reza Earzin

Italy
68. Ms Pina Grazia Ticca
   Senior Executive Officer
   Development of Information Systems and Corporate Products, Information Management and
   Quality Assessment Directorate
69. Mr Ezio Bussoletti
   Italian Space Agency
70. Mr Dimitri Dello Buono
   Italian National Research Council

Jamaica
71. Mr Milton Saunders
   Manager, Geographic Information Systems
   Surveys and Mapping Division
   National Land Agency

Japan
72. Ms Michiko Miyano
   Counsellor
   Permanent Mission of Japan to the United Nations
73. Mr Hiroshi Murakami
   Director-General
   Geospatial Information Department
   Ministry of Land, Infrastructure, Transport and Tourism
74. Mr Taro Ubukawa  
   Deputy Director  
   Ministry of Land, Infrastructure, Transport and Tourism

75. Ms Mei Murayama  
   Coordinator  
   Japan Map Center

**Jordan**

76. Mr Naser Abed Alrazzaq Ali Alheyasat (?)  
   Department of Statistics

77. Mr Awni Al-Khasawneh  
   Director General  
   Royal Jordanian Geographic Center

78. Mr Khaldoun Said Quatishat

**Kenya**

79. Mr Zachary Mwangi  
   Acting Director General  
   Kenya National Bureau of Statistics

80. Ms Emma Odhiambo  
   Kenya National Bureau Of Statistics

**Kuwait**

81. Mr Abdulhameed Alsaffar  
   Central Statistical Bureau

82. Ms Rehab Ahmad  
   Central Statistical Bureau

**Lao People's Democratic Republic (the)**

83. Mr Samaychanh Boupha  
   Head of Lao Statistics Bureau  
   Lao Statistics Bureau

84. Ms Phonesaly Souksavath  
   Director General Department of Social Statistics  
   Lao Statistics Bureau

85. Ms Phetsamone Sone  
   Director General Department of Economic Statistics  
   Lao Statistics Bureau

**Lebanon**

86. Mr Sarkis Fadous  
   President, Arab Union of Surveyors  
   Beirut, Lebanon

**Malaysia**

87. Mr Mohd Ali Mohamad Nor  
   Deputy Secretary-General  
   Ministry of Natural Resources and Environment

88. Mr Ahmad Fauzi Nordin  
   Director-General  
   Department of Survey and Mapping

89. Mr Chee Hai Teo  
   President  
   International Federation of Surveyors (FIG)

90. Mr Loh Seck Tiong  
   Minister-Counselor  
   Permanent Mission of Malaysia to the UN
Mexico
91. Mr Eduardo Sojo Garza Aldape
   Presidente
   Instituto Nacional de Estadística, INEGI
92. Mr Rolando Ocampo Alcantar
   Vice President
   Instituto Nacional de Estadística, INEGI
93. Ms Mónica Aguayo Gonzáles
   Subdirectora de Análisis y Gestión
   Instituto Nacional de Estadística, INEGI
94. Mr Luis Gerardo Esparza Ríos
   Dirección de Desarrollo Tecnológico
   Instituto Nacional de Estadística, INEGI
95. Mr Carlos Alejandro Abascal Andrade
96. Mr Manuel Ricardo López Cruz

Mongolia
97. Mr Myagmarsuren Lkhagva
   Director of Data Processing and Technology Department
   National Statistical Office of Mongolia
98. Ms Sodnom Enkhtuya
   Head of Spatial Information Infrastructure Department
   Administration of Land Affairs, Geodesy and Cartography
   Implementing Agency of Mongolian Government

Morocco
99. Ms Zahra Dafir
   Conseillère du Directeur Général en matière de Cartographie et de Géodésie
   Agence Nationale de la Conservation Foncière, du Cadastre et de la Cartographie
   Rabat, Morocco

Nepal
100. Mr Lokdarshan Regmi
    Secretary
    Ministry of Land Reform and Management

New Zealand
101. Ms Rochelle Morgan
    Manager – Geospatial, Platform Operations Branch
    Statistics New Zealand
102. Mr Rob Deakin
    Geospatial Custodian (acting)
    New Zealand Geospatial Office
103. Mr Graeme Blick
    Chief Geodesist at Land Information New Zealand

Norway
104. Mr Jørn Kristian Undelstvedt
    Head of Division, Statistics Norway,
    Division for Natural Resources and Environmental Statistics
105. Mr Olaf Magnus Østensen
    Chairman ISO/TC 211
    Norwegian Mapping Authority
106. Mr Dag Hogvard
    Specialist Director
    Local Government and Modernisation
    Department for Planning
Oman
107. Mr Saleem Bin Abdullah Bin Salim Al-Hasmi
    Director of Geospatial Information
108. Mr Ahmed Bin Hamood Bin Mohammed Al-Wardi
    National Survey Authority
109. Mr Hassan Bin Alawi Bin Ahmed Al-Ghazali
    National Centre for Statistics Information

Philippines
110. Mr Libran N. Cabactulan
    Permanent Representative
111. Ms Irene Susan B. Natividad
    Deputy Permanent Representative
112. Mr Julio C. Dery (?)
    Minister
113. Mr Lazaro M. Garcia
    Attaché
114. Ms Maria Teresa E. Narbuada
    Attaché
115. Mr John Santiago F. Fabic
    Director, Geospatial Information Management Branch
    National Mapping and Resource Information Authority (NAMRIA)
116. Mr Benjamin P. Balais
    Chief, Geospatial Database Management Division
    National Mapping and Resource Information Authority (NAMRIA)

Poland
117. Mr Janusz Dygaszewics
    Director
    Central Statistical Office
    Central Census Bureau
118. Mr Dominik Kopczewski
    Coordinator of the Office of Foreign Cooperation
    Head office of Geodesy and Cartography of Poland
119. Mr Jarząbek Jacek
    Deputy Head Geodesist
    Head Office of Geodesy and Cartography of Poland

Qatar
120. Mr Mansoor Ahmed Al Malki Al-Jehani
    Director, Information Technology Department
    Ministry of Development Planning and Statistics
121. Ms Amna Talib Al Hail
    GIS Researcher
    Ministry of Development Planning and Statistics

Republic of Korea
122. Mr Jiyoung Shim
    Director
    Planning & Policy Department
    National Geographic Information Institute (NGKK)
    Ministry of Land Infrastructure & Transport
123. Mr Sanghoon Lee
    Team Head/Deputy Director
    International Cooperation & Standard Team/
    Planning & Policy Department
    National Geographic Information Institute (NGII)
    Ministry of Land Infrastructure & Transport
124. Ms Jiyong Moon
    Assistant Deputy Director
Geodesy Department
Planning & Policy Department
National Geographic Information Institute (NGII)
Ministry of Land Infrastructure & Transport

125. Ms Myung-Hwa Hwang
Associate Research Fellow
Geospatial Information Research Division
Korea Research Institute for Human Settlement

Republic of Moldova
126. Ms Maria Ovdii
Head Department Geodesy, Mapping & GIS,
Agency for Land Relations and Cadastre of Moldova

Saint Lucia
127. Mr Edwin St Catherine
Director of Statistics - Saint Lucia

Saudi Arabia
128. Mr Saad Mohamed A. Alhamlan
General Manager of Geospatial Information Center

129. Mr Bandar Saleh A. Almuslmani
General Manager of Geodesy and Land Survey

130. Mr Ahmad Yahya M. Al-Neami
Manager of Geospatial Databases

131. Mr Mohammed M. AlShahrani
Manager of Business Services

Sierra Leone
132. Mr Andrew Johnny
GIS Director
Statistics Sierra Leone
Freetown, Sierra Leone

Singapore
133. Mr Vincent Hoong
Chief Executive
Singapore Land Authority

134. Mr Siau Yong Ng
Director, Geospatial Division
Singapore Land Authority

135. Mr Eric Koh
Principal GeoSpatial Consultant
Singapore Land Authority

136. Mr Ken Poh
Senior Land and Estate Executive
Singapore Land Authority

137. Ms Tan Yeow Lip
Division: Income, Expenditure and Population Statistics Division
Singapore Department of Statistics

South Africa
138. Mr Derek Clarke
Chief Directorate, National Geospatial Information
Surveys and Mapping of South Africa

139. Ms Sharthi Laidaparsad
Executive Manager: Statistics South Africa, Policy Research & Analysis
De Bryn Park, Cnr Andries St & Vermeulan St, Pretoria

140. Ms Maroale Chauke
Director
National Spatial Information Framework
Department of Rural Development and Land Reform

Spain
141. Mr Antonio Arozarena Villar
Deputy Director (Land Observation Unit)
Instituto Geográfico Nacional

Sri Lanka
142. Ms AK.M Kaushalya
Statistical Assistant
Department of Census and Statistics

Sudan (?)
143. Mr Tarig Hassan Hashim Osman
International Cooperation Unit, CBS, Sudan

Suriname
144. Mr Iwan Sno
Director of the General Bureau of Statistics

Sweden
145. Ms Marie Haldorson
Director
Regions and Environment Department, Statistics Sweden
146. Mr Bengt Kjellson
Director General
Lantmateriet
Mapping, Cadastral and Land Registration Authority
147. Mr Anders Sandin
Director
Lantmateriet
Mapping, Cadastral and Land Registration Authority

Thailand
148. Mr Chayapan Bamrungphong
Ambassador and Deputy Permanent Representative
149. Ms Thanavon Pamaranon
Second Secretary
Permanent Mission of Thailand to the United Nations
150. Ms Ruamporn Sirirattrakul
Director of Statistical Geographic Informatics Bureau
National Statistical Office, Thailand
151. Ms Kulnaree Aunmesri
Statistics Technical Officer
Statistical Geographic Informatics Bureau
National Statistical Office Thailand

Trinidad and Tobago
152. Mr Roger Jugmohan
Assistant Director of Statistics
Central Statistical Office
Ministry of Planning and Sustainable Development

Tunisia
153. Mr Ahmed Adouni
Manager Director PDG
Ministry of Equipment
Ukraine
154. Mr Serhiy Rudyk
Chairman of the State Agency for Land Resources of Ukraine
State Agency for Land Resources of Ukraine
155. Mr Andrii Tarnopolskyi
General Director
Head of the technical programs of
the State Enterprize “State Land Cadastre Center”
156. Mr Alla Kovalova
Head of support of the leadership sector
State Enterprize “State Land Cadastre Center”
157. Ms Olena Khoiba
Assistant to SALR Chairman
State Agency for Land Resources of Ukraine

United Kingdom
158. Ms Vanessa Lawrence
Co-Chair
United Nations Committee of Experts on Global Geospatial
Information System
Director General and Chief Executive
Ordnance Survey
159. Mr Peter ter Haar
Director of Products and Innovation
Ordnance Survey
160. Ms Clare Hadley
Policy and Engagement Manager
Ordnance Survey
161. Mr Pete Brodie
National Statistician's Office
UK Statistics Authority
162. Mr Ian Coady
National Statistician's Office
UK Statistics Authority
163. Mr Paul Cruddace
Product Strategy and Proposition Manager
Ordnance Survey
164. Mr James Norris
Policy and Engagement Executive
Ordnance Survey

United States of America
165. Mr Tim Trainor
Chief, Geography Division
U.S. Census Bureau
166. Mr Adrian R. Gardner
CIO – Federal Emergency Management Agency
Telephone: 202-646-3006
167. Ms Ruth E. Neilan
Vice Chair, Global Geodetic Observing System
Director, International GNSS Service - Central Bureau
NASA/Jet Propulsion Laboratory
168. Mr Vince Osier
Chief, Geographic Standards & Criteria Branch
Geography Division
U.S. Census Bureau

Uruguay
169. Mr César Rodriguez
Director
Military Geographic Service

Viet Nam
170. Ms Ngoc Lam Hoang
Deputy General Director
Department of Survey and Mapping of Viet Nam

OBSEVERS:

International Organizations

171. Mr Dave Lovell
Secretary General and Executive Director
EuroGeographics

172. Mr Gunter Schäfer
Head of Unit E4
“Regional Statistics and Geospatial Information”
European Commission

173. Mr Ekkehard Petri
“Geospatial Information-Cooperation with EU spatial programmers”
European Commission

174. Ms Barbara J. Ryan
Group on Earth Observations (GEO)

175. Mr Chris Rizos
President
International Association of Geodesy (IAG)

176. Ms Allison Craddock
International Association of Geodesy (IAG)
International GNSS Service

177. Mr Chee Hai Teo
President
International Federation of Surveyors (FIG)

178. Mr Rodrigo Barriga –Vargas
Secretario General
Instituto Panamericano de Geografia e Historia (IPGH)

179. Mr Mark Reichardt
President and CEO
Open Geospatial Consortium (OGC)

180. Ms Denise McKenzie
Executive Director, Communications & Outreach
Open Geospatial Consortium (OGC)

181. Mr Jreij Abdallah
Member
Arab Union of Surveyors
Topographer and the Secretary of the Technical Commission

182. Mr Alfonso Munera
General Secretary
Association of Caribbean States
183. Mr Ronald Hugh Jackson  
   Executive Director  
   Caribbean Disaster Emergency Management Agency (CDEMA)

184. Mr Kytt MacManus  
   Geographic Information Specialist  
   Center for International Earth Science Information Network

185. Ms Erin Doxsey-Whitfield  
   Geographic Information Specialist  
   Center for International Earth Science Information Network

186. Ms Olena Borkovska  
   Research Staff Assistant  
   Center for International Earth Science Information Network

187. Mr Kevin Pomfret  
   Executive Director  
   Centre for Spatial Law and Policy

188. Ms Jane Carol Pomfret  
   Centre for Spatial Law and Policy

189. Mr Kent D. Lee  
   President and CEO  
   East View Geospatial, Inc.

190. Ms Linda Peters  
   Global Business Development  
   Esri

191. Ms Carmelle Terbough  
   Manager  
   Non Profit & Global Organizations  
   Esri

192. Mr Richard Leadbeater  
   Industry Manager  
   State Government & Trade Association  
   Esri

193. Mr Mark Cygan  
   Industry Manager  
   Map, Chart and Data Production  
   Esri

194. Mr Fraser Taylor  
   Director  
   Geomatics and Cartographic Research Centre, Carleton University

195. Mr Takashi Takemoto  
   Division Manager, Geospatial Information Division  
   KOKUSAI KOGYO CO., LTD

196. Mr Mitsutomo Nakamura  
   Project Manager, R & D Division  
   KOKUSAI KOGYO CO., LTD

197. Mr Ruedi J Wagner  
   BU Solutions  
   Geospatial Solutions Division  
   Leica Geosystems
198. Mr Kaoru TSUDA  
Deputy General Manager, Global Business Division  
PASCO CORPORATION

199. Mr Tadashi Sasagawa  
Executive Director  
PASCO CORPORATION

200. Mr Phil Bright  
GIS Specialist (Census and Surveys)  
Statistics for Development Division (SDD)  
Secretariat of the Pacific Community (SPC)

201. Mr Steve Hagan  
Vice President  
Development for Server Technologies  
Oracle

202. Ms Monica Brezzi  
Head Regional Statistics and Analysis Unit  
Organisation for Economic Co-operation and Development (OECD)

203. Mr Kevin Sorkin  
Director  
Pendragon International Limited  
United Kingdom

204. Mr Richard Jordan  
Royal Academy of Science International Trust

205. Mr Anit Ghose  
Principal Advisor  
Supreme & Co. Pvt Ltd

206. Ms Valrie Grant  
President  
URISA Caribbean Chapter

UN bodies:

207. Mr Karl Morteo  
Systems Development Specialist  
Information Technology  
FAO

208. Ms Haishan Fu  
Director, Development Data Group  
World Bank

209. Mr Neil Fantom  
Manager, Development Data Group  
World Bank

210. Ms Anna Burzykowska  
Urban, Rural & Social Development  
World Bank Group

211. Ms Lina Bassarsky  
United Nations Population Division,  
DESA
ANNEX 2: Agenda

MONDAY, 4 August

9.30-9.50  Welcome and Opening Session – Opening of the Global Forum
- Opening and welcome [UN EG-ISGI Chairs]
- Opening Remarks [UNSD Director]
- Programme and other organizational matters [UNSD]

9.50-11.00  Opening Session – The global context

Keynote presentations:
- Distinguished Professor Nassim Nicholas Taleb – A broad view of future challenges and information needs
- Ambassador Múnera, Secretary General of the Association of the Caribbean States – challenges and information needs for the developing world
- Professor Paul Cheung - Using Location Information for Better Planning and Decision Support: Integrating Big Data, Official Statistics and Geospatial information

11.00-11.15  Break

11.15-13.00  Session 1 – Positioning for the future – Determining the desired vision for the integration of statistical and geospatial information

Chair: Mr. Li Pengde, China

Presentations:
- The Global perspective on what has been done so far to achieve the vision of integrated statistical and geospatial information, and how the journey is going: [Mr. Rolando Ocampo, Representative of UN-GGIM and EG-ISGI]
- A regional perspective on what has been done so far to achieve the vision of integrated statistical and geospatial information, and how the journey is going: [Mr. Ekkehard Petri-Eurostat]
- A country perspective: Ten lessons on the production of geospatial information in Mexico [Mr. Edouardo Sojo, Mexico]
- Articulation of the vision – what will the future look like if the vision for integrated statistical and geospatial information has been achieved [Mr. Peter Harper, Australia]

Discussion
14.30-16.15  

Session 2 – Achieving the vision – a global framework

Chair: Mr. Peter Harper, Australia

Presentations:

- Authoritative geospatial infrastructure and geocoding  
  - NSDI datasets and use in statistics [Ms. Sharthi Laldaparsad, South Africa]

- Data management: geocoded unit record data  
  - Confidentiality management and geocoded unit record data: lessons from the Eurostat population grid data [Ms Susanne Schnorr-Baecker, Germany]

- Common geographic boundaries  
  - Small area geographies: administrative, functional and grid based geographies – one or many? [Mr. Tim Trainor, USA]

- Metadata interoperability  
  - International cooperation to achieve interoperability between statistical and geospatial metadata [Mr. Mark Reichardt, OGC]

- Standards & guidelines  
  - Dimensions of quality in statistical and geospatial datasets: common themes and concepts [Mr. Peter Harper, Australia]

Discussion

16.30-18.00  

Session 2 – Achieving the vision - roadmaps

Chair: Mr. Rolando Ocampo, Mexico

Projects/Programmes that signpost the way forward:

- Statistical-geospatial integration, the example of Sweden [Ms Marie Haldorson, Sweden]

- Measuring regional well-being: OECD work to improve territorial information [Ms Monica Brezzi, OECD]

- Data integration in the Philippines: responding to a national catastrophe [Mr. Candido Astrologo, Jr., Philippines]

- SEEA, accounts for the integration of economic, social and environmental statistics [Mr. Ivo Havinga, UNSD]

Discussion
TUESDAY, 5 August

9.00-10.30  Session 3– Population Census – an exemplar for integration

**Chair:** Mr. Tim Trainor, USA

**Presentations:**

- Geospatial technology and data providing improvements and efficiency in Brazil population census and household surveys [Mr. Joao Bosco de Azevedo, Brazil]

- The Polish Modern Census: incorporating geospatial technology and data with administrative information [Mr. Janusz Dygaszewicz, Poland]

- 2020 round of Population Censuses: incorporating geography into all stages of the Population Census [UNSD talking about plans for integrating geospatial into the 2020 round of Censuses – Ms Margaret Mbogoni]

Discussion

10.30-10.45  Break

10.45-12.00  Session 4 – How to get there – the strategic opportunities

**Chair:** Ms Monica Brezzi, OECD

**Presentations:**

- Cooperation, coordination and harmonization [Mr. Siau Yong NG, Singapore]

- Leveraging information infrastructure modernization programs to integration of statistical and geospatial information [Mr. Ian Coady, UK]

- A geographic census: comprehensive national and international datasets – [Mr. Li Pengde, China]

Discussion

12.00-12.30  Concluding/Closing Session

Session facilitated by UN EG -ISGI co-chairs:

- Reflect on the content and discussions from sessions 1-4.
- Review the Expert Group priorities (from the EG Terms of Reference) and identify any additional priorities.
- Endorse the final priorities.