



UNITED NATIONS

United Nations Statistical Commission

Global Working Group on Big Data for Official Statistics

GWG Bureau meeting

First meeting – 21 March 2018, 13:15 EST

By video-conferencing

Agenda item (2) –

UN World Data Forum – 22-24 October 2018, Dubai, UAE

Note by UNSD

The 2nd UN World Data Forum will take place in Dubai on 2-24 October 2018. Proposals for session had to be submitted by 31 January 2018; the decisions on accepted session will be made on 31 March 2018.

Three session submissions have been made explicitly on behalf of the GWG. They are shown hereafter. GWG members may of course have submitted additional session proposals. We should maybe put a brochure together with all GWG-related sessions, including all those of its members.

(1) Session Title: Live Demonstration of Earth Observation Data for Official Statistics

Focal point: Ivo Havinga

Session description: This session will offer a live demonstration of the use Earth Observation Data to produce crop statistics. Real data sets, new tools and new algorithms will be demonstrated live to show how EO data in combination with other source data are actually used to estimate crop statistics.

This live demonstration will use the data, open source algorithms and core services that are available and accessible on the platform of the UN Global Working Group (GWG). In addition, this live demonstration will show how trusted partners can use the data, methods and services of the GWG global platform in their data collaboration to develop and test new methods and algorithms.

Session format: Live demonstration using the GWG platform; access to the Internet is needed; we may need to have a several laptops to run the demonstration

Main expected outcome of the session: This session is the ultimate proof of concept that (1) use of new data sources for production of official statistics is possible, (2) international collaboration with

new data sources to develop new methods and algorithms is feasible, and (3) stakeholders from developing and developed countries are invited to create new data collaborations through Task Teams of the GWG

Relevance to the Thematic Area: This session is relevant for Thematic Area 2 “innovations and synergies across data eco-systems”. The purpose of the session is exactly in line with *bringing data sources together and creating an enabling environment for the integration and use of non-traditional data sources*. The demonstration will show that new data sources are brought together in an enabling environment (the GWG platform) to produce official statistics.

Proposed presenters:

- Prof. Kerrie Mengersen, Queensland University of Technology, Brisbane, Australia (female)
- Gordon Reichert, Statistics Canada (male)
- Michael Schmidt, Department of Science, Information Technology and Innovation, Government of Australia (male)

Proposed moderator: Sylvie Michaud, Statistics Canada (female)

Session organizers: Eric Rancourt, Statistics Canada and Chair of the GWG Task Team on Earth Observation Data and Ivo Havinga (UNSD)

(2) Session Title: Live Demonstration of Mobile Phone data for official statistics

Focal point: Ronald Jansen

Session description: This session will offer a live demonstration of the use of Mobile Phone data to produce tourism statistics. Real data sets, new tools and new algorithms will be demonstrated live to show how Call Data Records are used to derive tourism statistics. This live demonstration will use data, open source algorithms and core services that are available and accessible on the platform of the UN Global Working Group (GWG). This live demonstration will show how trusted partners can use the data, methods and services of the GWG global platform in their data collaboration to develop and test new methods and algorithms. The target audience would be statisticians and data scientists.

Session format: Live demonstration using the GWG platform; access to the Internet is needed; we may need to have a several laptops to run the demonstration

Main expected outcome of the session: This session is the ultimate proof of concept that (1) use of new data sources for production of official statistics is possible, (2) international collaboration with new data sources to develop new methods and algorithms is feasible, and (3) stakeholders from developing and developed countries are invited to create new data collaborations through Task Teams of the GWG

Relevance to the Thematic Area: This session is relevant for Thematic Area 2 “innovations and synergies across data eco-systems”. The purpose of the session is exactly in line with *bringing data sources together and creating an enabling environment for the integration and use of non-traditional data sources*. The demonstration will show that new data sources are brought together in an enabling environment (the GWG platform) to produce official statistics.

Proposed presenters:

- Siim Esko, Data Scientist, Positium, Estonia (male)
- Setia Pramana, Data Scientist, BPS Indonesia (male)
- Titi Kanti Lestari, Senior Statistician, BPS Indonesia (female)

Proposed moderator: Heather Savory, UK ONS and Co-chair of the GWG on Big Data for Official Statistics(female)

Session organizers: Niels Ploug, Statistics Denmark and Co-chair of the GWG on Big Data for Official Statistics(male), and Ronald Jansen, UNSD (male)

(3) Session Title: Live demonstration of privacy preserving techniques for use cases in official statistics

Focal Point: Ivo Havinga

Session descriptions:The UN Global Platform for Data, Applications and Services has an objective to support the sharing of proprietary and sensitive information, which could be data or algorithms. Members of the GWG Privacy Preserving Techniques task team will provide a background into the new cryptographic techniques and also provide a live demonstration.

Session Format: for the demonstrations of explicit use cases across the statistical community how modern cryptographic techniques can meet the increasing need for sharing sensitive, several laptops are needed and access to internet.

Main expected outcome of the session: This session will raise an understanding of the modern cryptographic techniques and how they can be used to protect sensitive and proprietary information. This understanding of these privacy preserving techniques will demonstrate the value in using the UN Global Platform for data collaboratives for undertaking research with sensitive and proprietary information.

Relevance for the Thematic Area: This session is relevant for Thematic Area 4. *Understanding the world through data*. The demonstration will show how sensitive data sources can be combined without compromising the confidentiality, privacy and security of the data sources

Proposed presenters:

- Mark Craddock, solution architect UK ONS (male)
- Dan Bogdanov, head of Privacy Technologies Department, Cybernetica, Estonia (male)
- Liina Kamm, researcher at Cybernetica, Estonia (female)

Proposed moderator: Heather Savory, Deputy National Statistician, UK ONS (female)

Session organiser(s): Mark Craddock, Office for National Statistics, UK and Ivo Havinga (UNSD)