



UN GWG on Big Data and UN Global Platform

a collaborative environment for the global statistical community

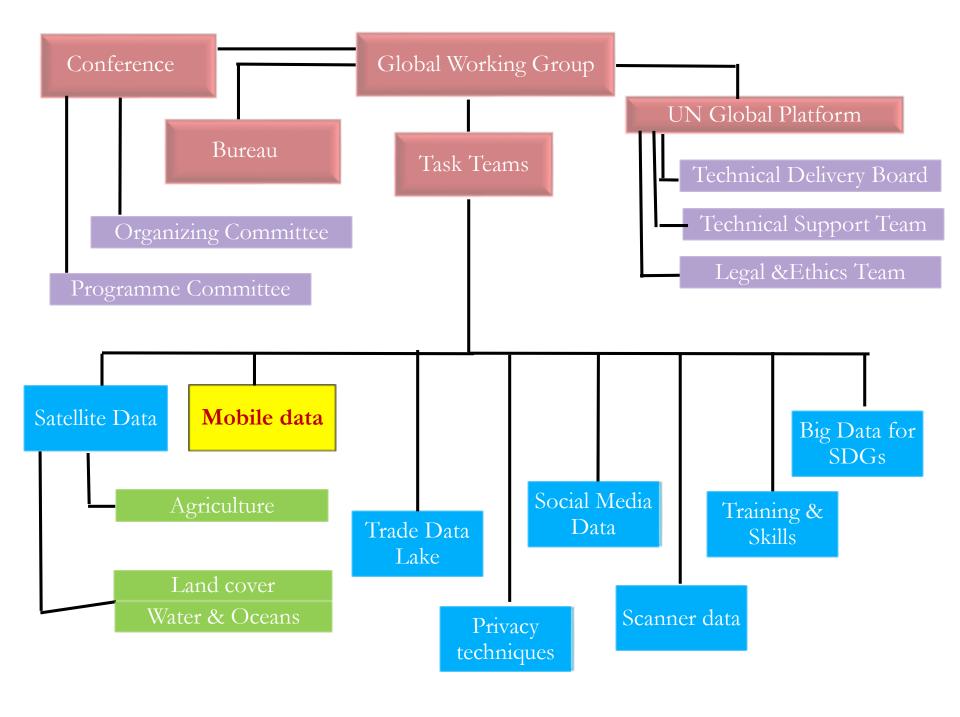




UN Global Working Group (GWG) on Big Data for Official Statistics

- Created in March 2014 by the UN Statistical Commission
- Mandated to give direction to the use of Big Data for Official Statistics
- Consisting of 28 countries and 16 international organizations





• What is the UN Global Platform?





- 40 Million Records / Day
- Ship Position / Movement
- Analysis via
 - Methods Service
 - Location (Stealth) Service
 - Jupyter Notebooks
 - APIs



- Open Data
 - Landsat
 - Sentinel
- © Commercial
 - Planet (Trial)
 - AirBus (Trial)



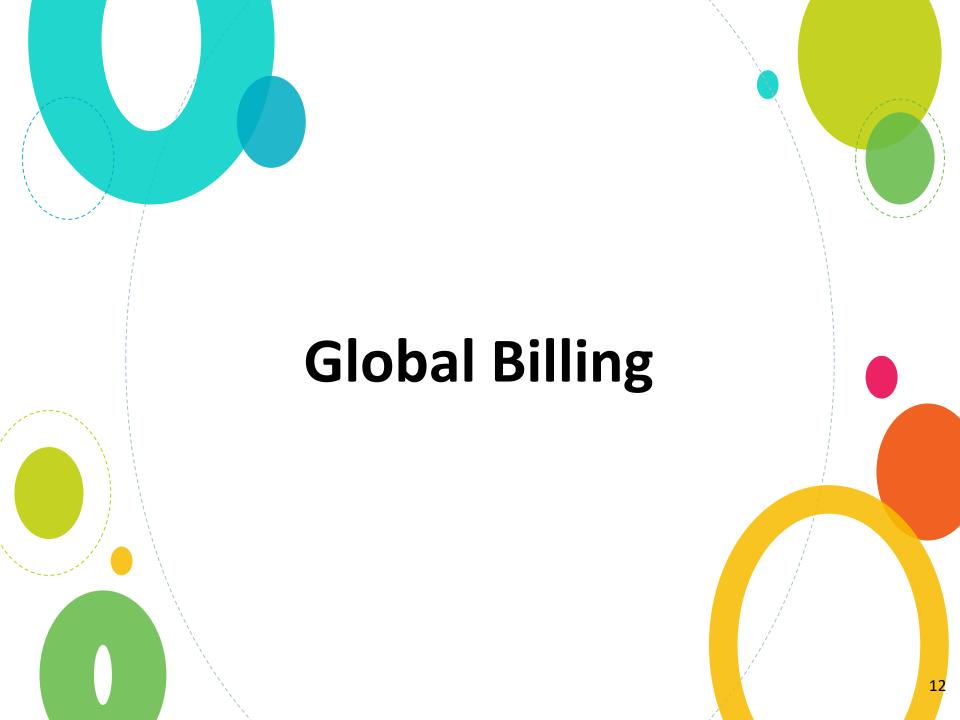


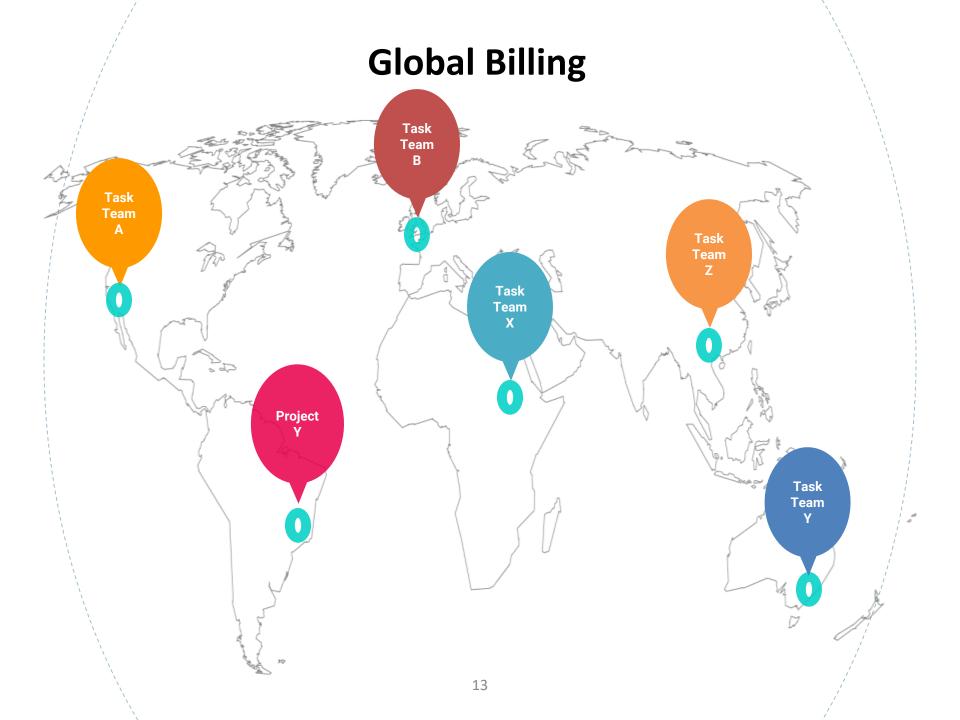


- Trusted Methods Library/Service
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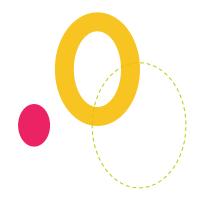
- Operations Service
 - https://operations.officialstatistics.org
- Melpdesk Service
 - <u>support@officialstatistics.zendesk.com</u>
- Marketplace *NEW
 - marketplace.officialstatistics.org







- © Consolidate Billing Globally
- © Leverage Discounts
- Manage Credits
- Allocate Budgets
 - Per Task Team
 - Per Project

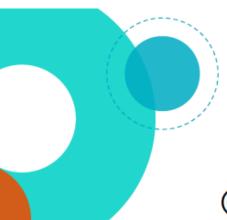


• What are some projects and examples of outcomes of data collaboratives resulting from the platform?

Projects:

- Satellite data for Agricultural Crop Statistics
- Satellite data for SDG 6.6.1
- Scanner data (Nielsen) for CPI calculation
- Google Street View images to map the Urban Forest
- Open Street Map to calculate SDG 9.1.1
- Mobile phone test data for estimating domestic tourism

• What are the advantages and challenges of the platform?







- Collaboration
- ② 200+ people in 14 timezones
- 4,000+ messages over last 30 days
- Algorithms, Data, Services, Methods, AIS, ADS-B, Cloud Vendors, Privacy Task Team, Task Teams



Join (<u>http://bit.ly/join-ungp-slack</u>)

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Why UN Global Platform?

- Global data sets, Common methods, Shared services
- Working together Global collaboration: developing and testing new methods
- Learning together Capacity Development and Training materials
- Need to move faster together





Platform Organization

"The owner/orchestrator of the platform typically does not own the means of production (making products and services), but instead the means of connection (bringing providers and consumers together)."

"A platform organization facilitates value exchanges between two or more interdependent groups."

• Who can join these platforms and what are the membership conditions?





Group	Composition	Contributions	Benefits
Public Sector	NSOs Government Intl org.	Core services for platform Data, Methods, Learning	Access to new data sources, technologies, expertise





Group	Composition	Contributions	Benefits
Civil Society	Research arm of foundations, NGOs	Methods, Algorithms, Validation	Reputation and trust





Group	Composition	Contributions	Benefits
Academia	Universities, research institutes, centres of excellence	Methods, algorithms, quality assurance framework, data	Access to new data sources, IT and high-end processing platform





Group	Composition	Contributions	Benefits
Private sector	National and multi- national companies, for profit research institutes	Cloud services, IT, APIs, data sources (e.g. satellite images), algorithms	Access to new partners, reputational value, accelerated integration





Group	Composition	Contributions	Benefits
Donors	Foundations, agencies for cooperation	Fund matching, target specific activities aligned with their mandate	Support access for least developed countries, multiplicative impact factor

- What are the legal agreements with the private sector participating in these initiatives and how do members access data?
- How do these platforms simplify access to private sector data?



Example Tech Partners



• How are the issues of data privacy and security addressed in these platforms?



Privacy Preserving Techniques Handbook

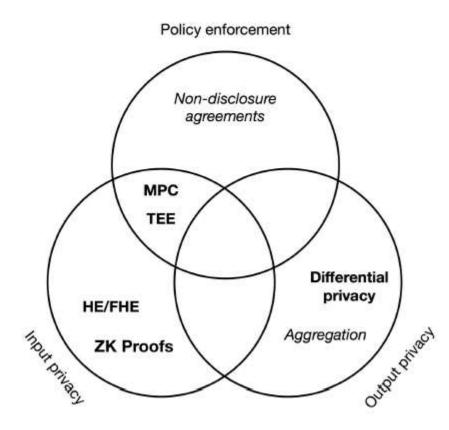
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- Multi-partyComputation
- Fully Homomorphic Encryption
- Zero KnowledgeProofs
- Trusted Execution
 Environments
- Differential Privacy



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Collaboratives

Datasets

Methods

Learnings

Services

Partners

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