



DICT
DEPARTMENT OF INFORMATION AND
COMMUNICATIONS TECHNOLOGY

ITU Big Data Pilot Study in the Philippines

Department of Information and Communications Technology

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ITU - Philippines Big Data Project

- In June 2016 , ITU led a pilot project to identify big data sources for ICT measurement, and produce ICT indicators to help generate new and policy-relevant ICT statistics with big data
- The results of this project are expected to help countries and ITU to develop new methodologies by combining new and existing data sources
- Engage with ICT data producers for the development of specific indicators for new statistics that could be produced through big data analytics, and by combining new and existing data sources and methodologies
- The project was participated in by six countries: The Philippines, Sweden, Georgia, UAE, Kenya, and Colombia



National Coordination

- Within the government, there is strong coordination between the Department of Information and Communications Technology, with the Philippine Statistics Authority.
- There is a national framework for statistical coordination through the establishment of Inter-Agency Committees in different sectors.
- The DICT co-chairs the IAC on ICT Statistics which oversees the statistical development programs relating to ICT.

Public-Private Engagement

- There is a role for the DICT to play in terms of engaging the private sector in implementing Mobile Phone Data (MPD) Projects.



Roles of Stakeholders

Data Providers

- Telecommunication companies
(Globe Telecom, Smart Communications)
- Philippine Statistics Authority

National Facilitation and Oversight

- Department of Information and Communications Technology
- National Privacy Commission
- National Telecommunications Commission

Technical Guidance and Monitoring

- International Telecommunication Union
- Consultants



Some Lessons Learned



Concerns

Privacy concerns over mobile phone data (e.g. call detail record)

Actions Taken

Several levels of safeguards:

1. ITU privacy statement
2. National Privacy Commission's guidance and position paper based on Data Privacy Act of 2012 (RA 10174)
3. Conduct of a Privacy Impact Assessment
4. Memorandum of Agreement between DICT and data providers
5. Anonymization of data and data processing within telecom premises

Relevant Provisions of the Memorandum of Agreement

The Data Providers shall:

- **Appoint its own Data Protection Officer** to ensure compliance and protection against any data breach from the Project;
- **Conduct a full Privacy Impact Assessment** for the processing of personal data for the Project;
- Ensure **data has undergone comprehensive anonymization** and processing, and at no instance shall raw data be shared;
- Ensure that the **raw data are processed within premises**;



Recommendations for scaling up

1. Undertake preliminary study of privacy concerns in each country
1. Development of legal instruments to define the role of stakeholders, as well as parameters for sharing of comprehensively anonymized data such as mobile phone data
1. Establish secure data sharing processes and platforms
1. Consult and engage with data providers in private sector on their commitment to share data in aid of planning and policy formulation





Thank you!



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