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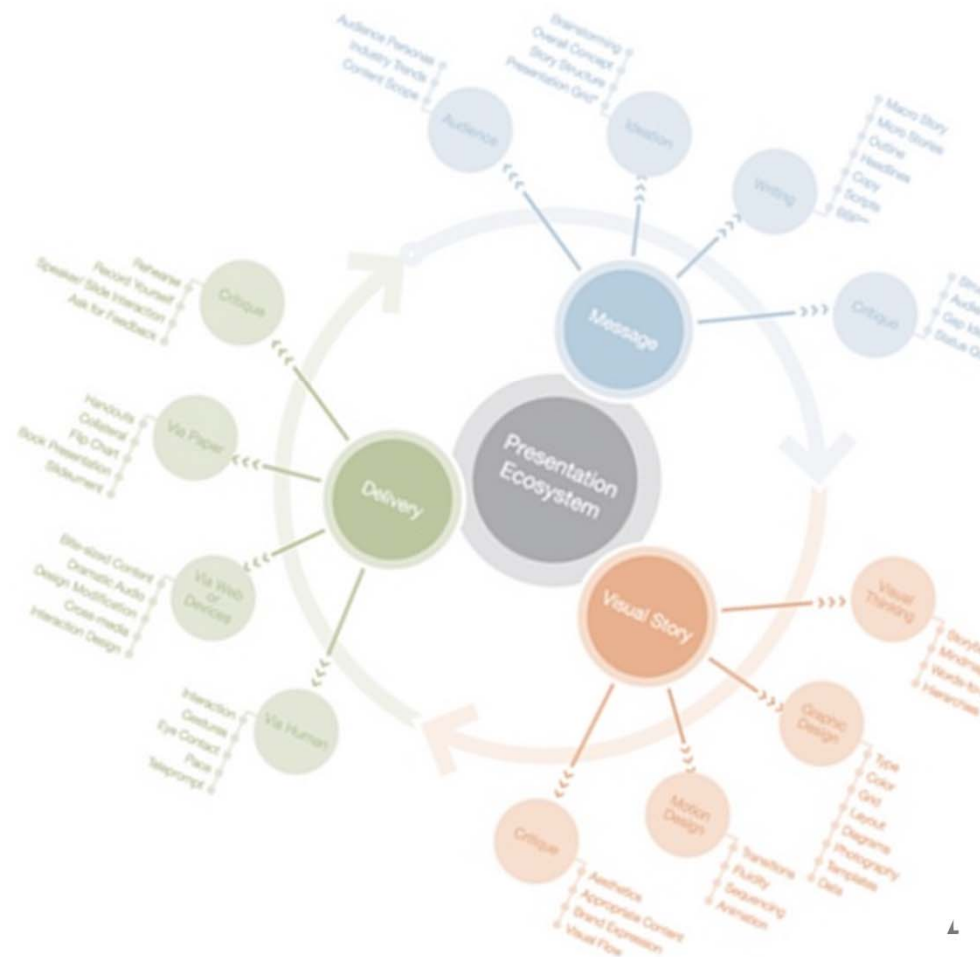
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ICT Statistics in the Philippines: A Situationer

Candido J. Astrologo, Jr.
Assistant National Statistician
Philippine Statistics Authority

ITU Asia-Pacific ICT Indicators Workshop
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Outline

- I. About the Philippine Statistics Authority
- II. Statistical coordination mechanisms on ICT Statistics
- III. Sources of Philippine ICT Statistics
- IV. Availability of Philippine ICT Statistics
- V. Ways Forward



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“the social networking capital of the world”
“top photo uploaders and web video viewers”
Universal McCann, March 2008

PH slowest internet in Asia-Pacific, but there is hope.



4Q 2016, Akamai



Dep’t of Information and Communications Technology created
May 2016, Inquirer



AIDub recognized by Guinness World Records as record-breaker in Twitter's 10-year history



China Telecom chosen to enter PHL as third main telco player

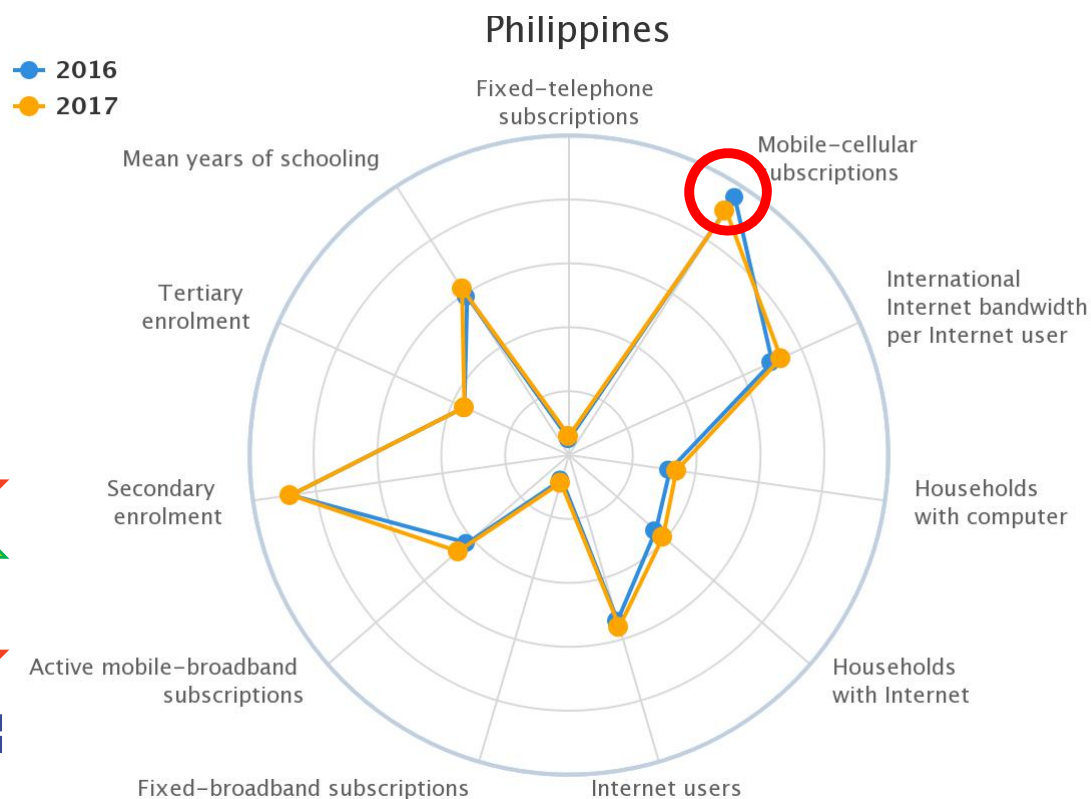
December 2017, GMA News



2.1 ITU Global ICT Development Index

IDI 2017 Rank	101 ↓	IDI 2016 Rank	100
IDI 2017 Value	4.67 ↑	IDI 2016 Value	4.52

Country	2017	2016
Malaysia	63 / 6.38	62 / 6.22
Thailand	78 / 5.67	79 / 5.31
Philippines	101 / 4.67	100 / 4.52
Vietnam	108 / 4.43	108 / 4.18
Indonesia	111 / 4.33	114 / 3.85





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I. PSA: An Overview

Mandates

- Central authority on statistics in the Philippines
- Coordinator of the Philippine Statistical System
- Civil Registration office

Major products

- Censuses and Surveys (Population and housing, Labor Force, ICT)
- Statistical Classification Systems (Industrial, Commodity, Occupational, Geographic, etc.)
- Statistical Frameworks (SNA, Information Society, SEEA, etc.)
- Civil Registration and Vital Statistics



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I. PSA: An Overview

Major functions

- Prepares the **Philippine Statistical Development Program** (country equivalent of NSDS)
- Formulate **statistical policies** related to statistical operations, standards and classifications
- Reviews **budget of statistical activities** of agencies and endorses to the Department of Budget and Management
- **Reviews and grants clearance for conduct of surveys** of government agencies funded by the government
- **Designates statistical activities/statistics** to government agencies
- **Coordinates statistical activities** at the national and local level



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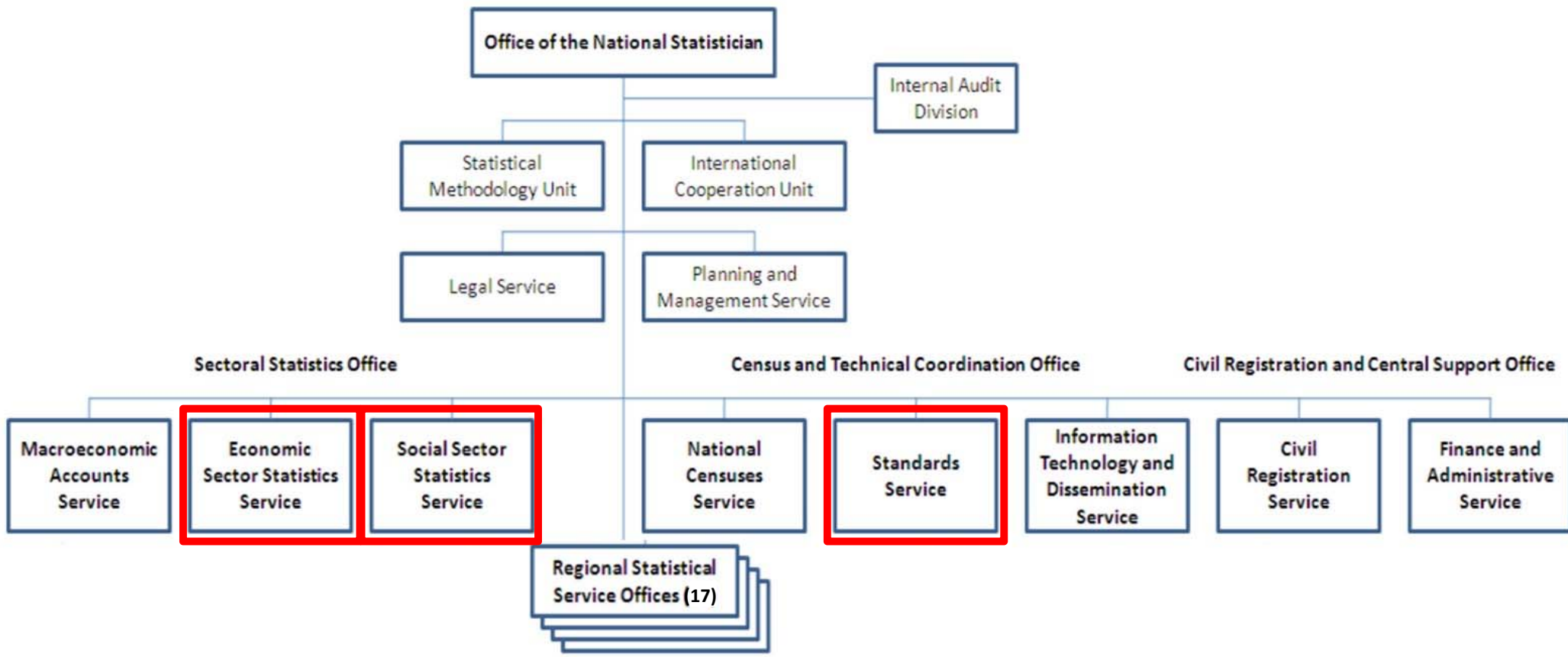
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I. PSA: An Overview

Organizational Structure





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II. Statistical Coordination Mechanisms

1. Interagency Committee on ICT Statistics

(per PSA Memorandum Order No. 07-2017)

Composition

Chair: **Department of ICT**

Co-chair: **Philippine Statistics Authority**

Members: Department of Trade and Industry

Department of Education

Department of Science and Technology

Department of the Interior and Local Government

National Telecommunications Commission

National Economic and Development Authority

Commission on Higher Education

Philippine Chamber of Telecommunication Operators

Information Technology and Business Process Association, Philippines



II. Statistical Coordination Mechanisms

1. Interagency Committee on ICT Statistics (cont)

Functions

- Serves as a **forum for the exchange of views and expertise** to resolve technical issues and problems arising from the production, dissemination, and use of information and communications technology statistics
- **Recommends** to the Board **appropriate measure and statistical policies** for the improvement of statistics as well as the system of data generation, dissemination and utilization of ICT statistics and all related indicators, including the corresponding statistical frameworks, methodologies and processes
- **Recommends** to the Board an **efficient workable scheme for the allocation of agency responsibilities** in the production, dissemination and archiving of ICT statistics
- **Spearheads the preparation of the chapter** on Information Society in the PSDP



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II. Statistical Coordination Mechanisms

2. PSA Board Resolutions on ICT Statistics

- PSA BR No. 14-2017
Approving and Endorsing to the Office of the President the Philippine Statistical Development Program 2011-2017 Update
- PSA BR No. 01-2017 - 169
Approving and Adopting the Scope and Coverage of the Philippine Information Economy (based on ISIC Rev 4 and 2009 PSIC)
- PSA BR No. 01-2017 - 139
Concepts and Definitions for Statistical Purposes for the ICT Sector (broadband, BPO, e-commerce, telephone density, etc.)
- PSA BR No. 01-2017 - 187
Approving the Institutionalization of the Generation of Data on Information and Communication Technology-Business Process Outsourcing Services



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II. Statistical Coordination Mechanisms

3. The Philippine Statistical Development Program (PSDP)



PSDP Chapter 25 - Information Society Statistics

- Scope and coverage
- Issues and challenges
- Milestones
- Statistical Development Programs
- Implementing agency/ies
- Year/s of implementation
- Budget for statistical activities



III. Sources of Philippine ICT Statistics

1. Survey on ICT (SICT)



Survey on
**INFORMATION and
COMMUNICATION
TECHNOLOGY (SICT)**

Source Agency: Philippine Statistics Authority
Annual; 11,000 establishments (2016); P61.9 million

Rider to the Annual Survey of Philippine Business and Industry

Objective: collect and generate information on the availability, distribution and access/utilization of ICT among establishments in the country.

Data Items:

- proportion of establishments using computer
- proportion of employees using computers
- proportion of establishments with internet connection
- proportion of employees using the internet at work
- proportion of establishments with Web presence
- proportion of establishments with Intranet
- proportion of establishments placing and receiving orders over the internet (e-commerce)
- proportion of establishments using the Internet by type of access and activity
- proportion of establishments with LAN and Extranet



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III. Sources of Philippine ICT Statistics

2. Family Income and Expenditures Survey



Family Income and Expenditure Survey

Source Agency: PSA

Every three years; 45,000 households (2015); P283.8 million

Objective: aimed at providing data on family income and expenditure, including, among others, levels of consumption by item of expenditure, sources of income in cash, and related information affecting income and expenditure levels and patterns in the Philippines

Data items:

- family expenditures on telephone subscription (fixed and mobile), internet subscription; communication services (prepaid: cell card, telephone card, internet card; and postpaid), Internet broadband
- family ownership of radio, TV, fixed and cellular telephone, and microcomputer



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III. Sources of Philippine ICT Statistics

3. Decennial Census of Population and Housing

Source Agency: PSA

Every ten years; P2.0 billion (2015)

Objective: to provide comprehensive data on the demographic and socio-economic features of the population and information on housing units

Data items:

- family expenditures on telephone bills (fixed and mobile), internet subscription; communication services (prepaid: cell card, telephone card, internet card; and postpaid), Internet broadband
- family ownership of radio, TV, fixed and cellular telephone, and microcomputer





III. Sources of Philippine ICT Statistics

4. Labor Force Survey

Source Agency: PSA

Quarterly; 41,000 households; P28.5M (2015)

Objective: provide a quantitative framework for the preparation of plans and formulation of policies affecting the labor market. Specifically, the survey is designed to provide statistics on levels and trends of employment, unemployment and underemployment for the country, as a whole, and for each of the administrative regions, including provinces and key cities.

Data items:

- employment, unemployment, labor force: by industry, by occupation, by sex





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III. Sources of Philippine ICT Statistics

5. Functional Literacy, Education and Mass Media Survey

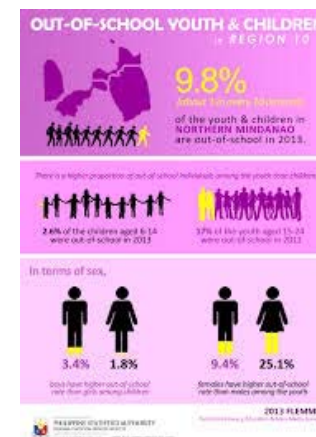
Source Agency: PSA

Every 5 years; 26,000 households (2013)

Objective: provide a quantitative framework that will serve as basis in the formulation of policies and programs on the improvement of literacy and educational status of the population and the improvement of mass media services to the public.

Data items:

- Population with access to the Internet as a means for acquiring knowledge and information; frequency of accessing the Internet





III. Sources of Philippine ICT Statistics

6. Others

- **Occupational Wages Survey (every two years)**
average monthly wages of workers in ICT-related occupation
- **Census/Survey on Philippine Business and Industry (every 5 years)**
employment, compensation, man-hours, revenue, subsidies, cost, fixed assets, inventories, capacity utilization for ICT industries
- **Local Government Units (LGU) e-Governance Readiness Survey**
ICT status and usage in the different LGUs in terms of hardware, software, network, the Internet, web presence, application systems, ICT planning and budgeting, capacity building, and manpower
- **Information and Communications Technology Resources Survey (ICTRS) in Government**
ICT resources, specialized usage of ICT resources, e-commerce/e-government adoption, Internet usage by government employees, barriers to adoption of ICT, ICT budget and expenditure, outsourced ICT services, leased ICT resources and ICT manpower



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III. Sources of Philippine ICT Statistics

7. Administrative data

- **Philippine Statistics Authority (monthly)**
export/import of merchandise ICT goods
- **National Telecommunications Commission (annual)**
installed capacity and subscribed lines of fixed telephones; cellular/mobile telephone subscribers; internet service providers and subscribers; value added service providers
- **Commission on Higher Education (annual)**
enrollment and graduates of ICT courses, schools offering ICT courses/degrees, certifications in ICT competency-based courses
- **Board of Investments , Philippine Economic Zone Authority, Clark Development Corporation (CDC), Subic Bay Metropolitan Authority (annual)**
foreign direct investments on the ICT sector



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III. Sources of Philippine ICT Statistics

7. Administrative data (cont)

- **Department of Trade and Industry (DTI) / Security and Exchange Commission (SEC) (annual)**
business registration of Internet cafes, telecommunication companies and ICT-related business establishments
- **Professional Regulations Commission (annual)**
trademarks, patents on ICT goods
- **Intellectual Property Office (annual)**
trademarks, patents on ICT goods



IV. Availability of Philippine ICT Statistics

International



ITU Global ICT Development Index



ITU Core List of ICT Indicators



Sustainable Development Goals

THE GLOBAL GOALS
 For Sustainable Development



National Broadband Plan



National Cybersecurity Plan



Philippine Development Plan
 2017-2022





IV. Availability of Philippine ICT Statistics



1. ITU ICT Development Index (IDI)

ICT access		Reference value	(%)
1. Fixed-telephone subscriptions per 100 inhabitants		60	20
2. Mobile-cellular telephone subscriptions per 100 inhabitants		120	20
3. International Internet bandwidth (bit/s) per internet user	✘	2'158'212*	20
4. Percentage of households with a computer	✘	100	20
5. Percentage of households with Internet access	✘	100	20
ICT use		Reference value	(%)
6. Percentage of individuals using the Internet	✘	100	33
7. Fixed-broadband subscriptions per 100 inhabitants	✘	60	33
8. Active mobile-broadband subscriptions per 100 inhabitants	✘	100	33
ICT skills		Reference value	(%)
9. Mean years of schooling		15	33
10. Secondary gross enrolment ratio		100	33
11. Tertiary gross enrolment ratio		100	33



ICT Development Index



IV. Availability of Philippine ICT Statistics



2. ITU Core List of ICT Indicators (as of March 2016)

Area of Concern	Number of Indicators
ICT infrastructure and access	10
ICT access and use by households and individuals	19
ICT access and use by enterprises	12
ICT sector and trade in ICT goods	4
ICT in education	9
ICT in government	7
Total	61



IV. Availability of Philippine ICT Statistics



THE GLOBAL GOALS
For Sustainable Development

2.3 Sustainable Development Goals

Goal 4: Ensure inclusive and quality education for all and promote lifelong learning



4.4.1 Proportion of youth and adults with information and communications technology (ICT) skills, by type of skill ❌

4.a.1 Proportion of schools with access to:

- (a) electricity
- (b) the Internet for pedagogical purposes ❌**
- (c) computers for pedagogical purposes ❌**
- (d) adapted infrastructure and materials for students with disabilities
- (e) basic drinking water
- (f) single-sex basic sanitation facilities
- (g) basic handwashing facilities (as per the WASH indicator definitions)



Goal 5. Achieve gender equality and empower all women and girls

5.b.1 Proportion of individuals who own a mobile telephone, by sex ❌



Goal 9. Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation

9.c.1 Proportion of population covered by a mobile network, by technology



Goal 17: Strengthen the means of implementation and revitalize the global partnership for sustainable development

17.6.2 Fixed Internet broadband subscriptions per 100 inhabitants, by speed ❌

17.8.1 Proportion of individuals using the Internet ❌



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IV. Availability of Philippine ICT Statistics



2.4 National Broadband Plan

- Introduction Section - 35 indicators
- Tracking Progress Section – 15 indicators



2.5 National Cybersecurity Plan 1 indicator



2.6 Philippine Development Plan 2017-2022 11 indicators



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IV. Availability of Philippine ICT Statistics

Statistical Framework	Indicators				Total
	Available		Not Available		
	No.	%	No.	%	
ITU Global ICT Development Index	5	45.5	6	54.5	11
ITU Core List of ICT Indicators	25	41.0	36	59.0	61
Sustainable Development Goals	1	14.3	6	85.7	7
National Broadband Plan	50	100.0	-	-	50
National Cybersecurity Plan	1	100.0	-	-	1
Philippine Development Plan 2017-2022	3	21.4	11	78.6	14
TOTAL*	85	59.0	59	41.0	144

As of December 2017

* With duplicate indicators



IV. Availability of Philippine ICT Statistics

Assessment on Data Availability of Philippine ICT Statistics

- data are **mostly available** on:
 - ICT infrastructure, businesses and government use/ access of/to ICT
 - ownership of ICT devices
 - subscription to ICT services

- indicators which are **not mostly available** are those related to:
 - Use of and access to ICT of households and individuals
 - ICT use/access in sectoral areas such as education, health, science and culture.



V. Ways Forward



1. Improvement of quality of administrative data on ICT statistics
2. Conduct of a household-based ICT survey
3. Inclusion of ICT statistics in the System of Designated Statistics
4. Use of alternative data sources: big data, citizen-generated data
5. Regular updating of the Philippine ICT Statistics Web Portal
6. Conduct of capacity building program for agencies generating ICT statistics
7. Scaling up of the ICT statistics data ecosystem (human and financial resources, capacity building)



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Thank You!



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