Measuring the Digital Economy in the Philippines: Towards a Satellite Account

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Outline of Presentation

1. Introduction

- 2. Scope and Coverage
- 3. Available Information

- 4. Proposed Methodology
- 5. Way Forward



Current Trends





Some ASEAN Initiatives



to become the Southeast Asia's largest digital economy



national digital transformation



established the world's first Digital Free Trade Zone



Smart City initiative



to develop digital capacities in all economic sectors



Philippine digital transformation strategy



Some Statistics

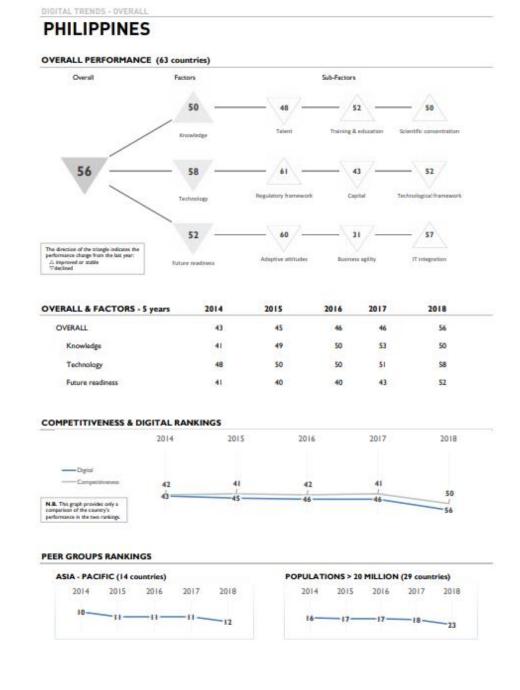
In 2018, based from the IMD World Digital Competitiveness Ranking, USA tops the list followed by Singapore and Sweden.





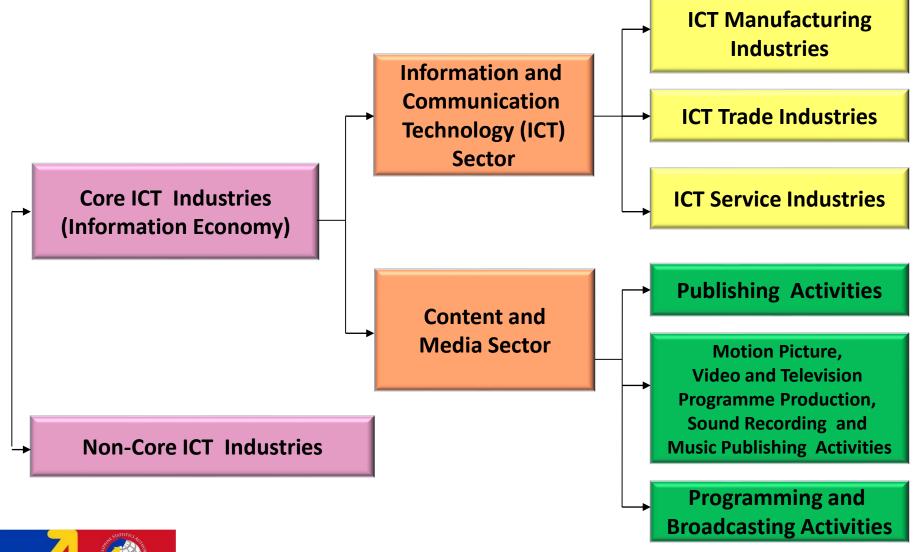
Some Statistics

- Philippines experienced one of the largest drops in the overall ranking, from 46th to 56th in 2018.
- The drop comes after declines in the technology and future readiness factors.





Survey of Information and Communications Technology

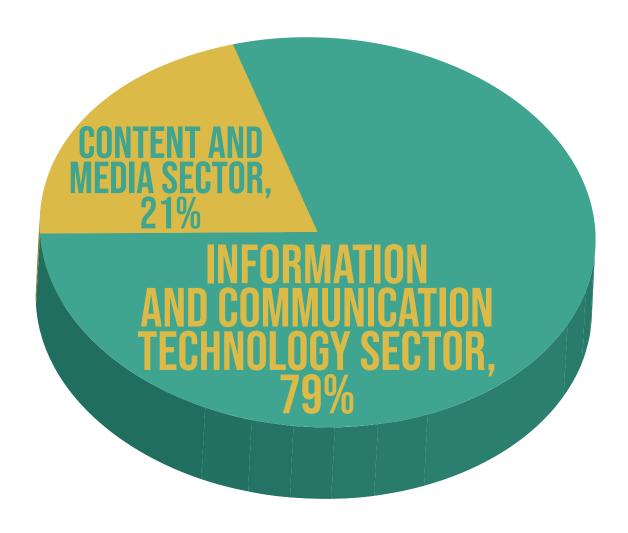




Distribution of Establishments in Information Economy

In 2015,

TOTAL ESTABLISHMENTS 3,786





Some Variables in the SICT

Percentage of Employees Routinely using Computers

Percentage of Employees Routinely using Computers with Internet Access

Percentage of Establishments with E-commerce via Internet



Issues and Challenges

- Lack of statistics that explicitly measure the digital economy
- Satellite accounts not yet formulated
- No international definition and statistical framework
- No international guidelines



Role of the Philippine Statistics Authority

Philippine Statistical Act of 2013: "REORGANIZING AND STRENGTHENING THE PHILIPPINE STATISTICAL SYSTEM AND FOR OTHER PURPOSES" (RA 10625)

 Primarily responsible for all national censuses and surveys, sectoral statistics, consolidation of selected administrative recording systems and compilation of national accounts.

Republic Act No. 11055: "An Act Establishing the Philippine Identification System"

Republic Act No. 11315: "An Act Establishing a Community-Based Monitoring System"

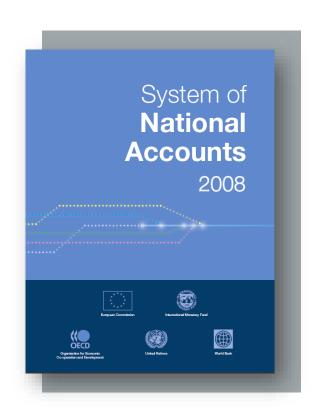
Gross Domestic Product



Monetary value of all final goods and services produced within the economy in a given period of time



SNA Framework



The System of National Accounts 2008 (2008 SNA) is the latest version of the international standards to measure economic activity, adopted by the United Nations Statistical Commission (UNSC)

Comprises comprehensive, consistent, and integrated set of accounts that record economic activities within given period



The measurement of the economy adopts an internationally-agreed framework



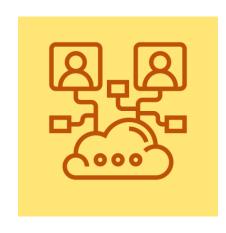
Latest Economic Structure



DIGITALIZATION
OF THE ECONOMY



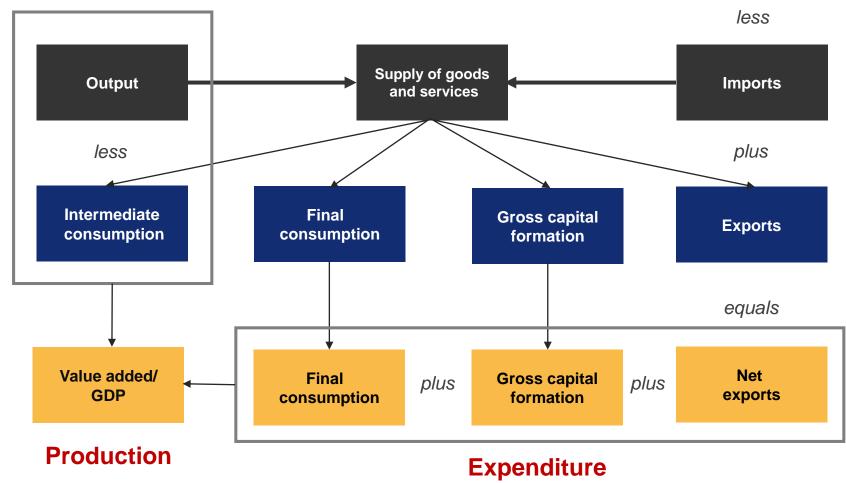
RISE OF GLOBAL
PRODUCTION
NETWORKS AND BUYING
CHAINS



AGGLOMORATION OF ECONOMIES

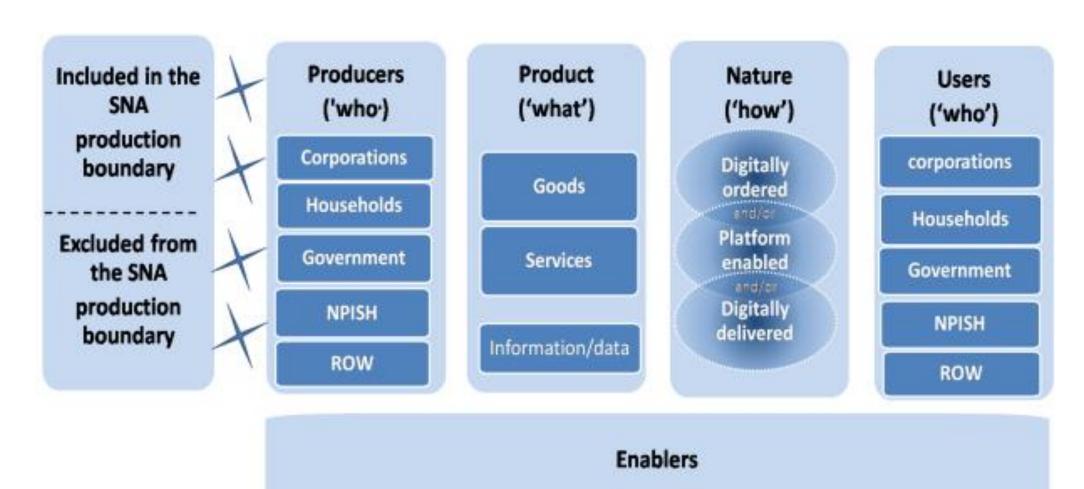


Supply and Use Framework



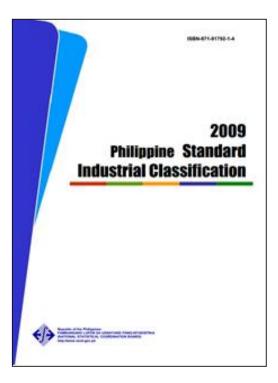


Dimension of the Digital Economy





Philippine Standard Industrial Classification (PSIC)



- Classification of industries prevailing in the country according to their specific economic activities
- Serves as basis to identify the digital economy activities and to come up with the operational definition



Table 1. List of Core ICT Industries in the Philippines: 2009 PSIC

2009 PSIC	Industry Description	ICT Service Industries	
ICT Manufacti	nufacturing Industries		Software Publishing
		Telecommunications Services	
C26110	Manufacture of electronic valves	J61101	Wired (landline) services
C26120	Manufacture of semi-conductor devices and other electronic components	J61102	Wired internet access service activities (e.g. DSL, leased line, dial-up)
C26200	Manufacture of computers and peripheral equipment and accessories	J61103	Telegraph, facsimile/telefax, and telefax services
		J61109	Other wired telecommunication activities, including pay phone
C26300	Manufacture of communication equipment	J61201	Wireless landline services
C26400	Manufacture of consumer electronics	J61202	Mobile telecommunications services
		J61203	Wireless internet access services (e.g., Internet Service Provider, broadband)
C26800	Manufacture of magnetic and optical media		
ICT Trade Industries		J61209	Other wireless telecommunication services, n.e.c.
G46510	Wholesale of computers, computer peripheral equipment and software	J61300	Satellite telecommunications activities
		J61901	Telephone access in facilities open to public service activities
G46521	Wholesale of electronic valves and tubes	J61902	Internet access in facilities open to the public service activities
G46522	Wholesale of semi-conductor devices	J61903 Voice Over Internet Protocol (VOIP) service activities J61909 Other telecommunications service activities n.e.c.	
G46523	Wholesale of micro-chips and integrated circuits	Computer Programming, Consultancy and Related Activities	
G46524	Wholesale of printed circuits	J62010	Computer programming activities
G46526	Wholesale of telephone and communications equipment including parts and accessories	J62011	Game design and development
		J62019	Other computer programming activities
		J62020	Computer consultancy and computer facilities management activities
G46527	Wholesale of blank audio and video tapes and diskettes, magnetic and optical disks (CDs, DVDs)	J62090	Other information technology and computer service activities



Table 1. List of Core ICT Industries in the Philippines: 2009 PSIC

Data processing, hosting and related activities; web portals		J59110	Motion picture, video and television programme activities
J63111	Data processing	J59111*	Pre & main production of traditional & 2D animation
J63112	Website hosting services	J59112*	Pre & main production of 3D animation
J63113	Application hosting services	J59119*	Pre & main production of other motion firms and etc.
		J59120	Motion picture, video and television post- production activities
J63120	Web portals	J59121*	Post production of traditional & 2D animation
Repair of computers and communication equipment		J59122*	Post production of 3D animation
S95110	Repair of computers and peripheral equipment	J59129*	Post production of other motion films and etc.
S95120	Repair of communication equipment	J59130	Motion picture, video and television programme distribution activities
S95210	Repair of consumer electronics	J59140	Motion picture projection activities
Content and Media Industries		J59201	Sound recording activities
		J59202	Publishing of music
Publishing Activities		Programming and broadcasting activities	
J58110	Book publishing	J60101	Radio broadcasting and relay station and studios
J58120	Publishing of directories and mailing lists	J60102	Radio program production
J58130	Publishing of newspapers, journals and periodicals	J60103	Radio broadcasting activities over the Internet (internet radio stations)
J58190	Other publishing activities	J60201	
J63910	News agency activities		circuit television services
J63990	Other information service activities, n.e.c	J60202	Television program production
		J60203	Television broadcasting activities
Motion picture, video and television programme production, sound recording and music publishing activities		*newly assigned industry codes which were split from selected industries (J59110, J59120 and J62010) and for PSA internal use only	



Table 2. List of Business Process Management (BPM) Industries in the Philippines: 2009 PSIC

2009 PSIC	Industry Description
N82211	Customer relationship management activities
N82212	Sales and marketing (including telemarketing) activities
N82219	Other call centers activities (voice), n.e.c
N82226	Medical Transcription activities



Available Information

- Census of Philippine Business and Industry (CPBI)
- Annual Survey of Philippine Business and Industry (ASPBI)
- Survey of Information and Communications Technology (SICT)
- Updated List of Establishments (ULE)
- Family Income and Expenditure Survey (FIES)
- Commission on Audit Annual Financial Reports
- Department of Information and Communications Technology



Proposed Methodology

Utilization of the Supply-Use Framework^{1/}

- Development of conceptual and operational definition of the digital economy
- Identification of goods and services within the supply-use framework relevant to digital economy
- Identification of industries responsible for producing the goods and services related to digital economy



Way Forward

- 1. Project with World Bank
- 2. Define conceptual coverage of Philippine digital economy
- 3. Operational definition of digital economy including the identification of possible data and indicators for estimation
- 4. Preliminary estimates on the size of digital economy in terms of GDP and other economic indicators



Way Forward

- Institutionalization of a satellite accounts framework for digital economy
- Project of Philippine Statistical Research and Training Institute on digital economy
- 7. IAC on Information and Communications Technology



Maraming Salamat.





/PhilStatAuthority



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