

# Philippines - Survey on Information and Communication Technology 2013

**Philippine Statistics Authority**

Report generated on: February 16, 2023

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## Overview

### Identification

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ID NUMBER  
PHL-PSA-SICT-2013-v2

### Version

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VERSION DESCRIPTION  
Version 2.0 : Final dataset for official estimates

PRODUCTION DATE  
2016-11-12

### Overview

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#### ABSTRACT

The 2013 Survey on Information and Communication Technology (SICT) is one of the designated statistical activities undertaken by the Philippine Statistics Authority (PSA). It aims to collect and generate information on the availability, distribution and access/utilization of ICT among establishments in the country.

The objectives of the 2013 SICT is to provide key measures of ICT access and use among establishments which will enable the assessment and monitoring of the digital divide in the country. Furthermore, the survey will generate core ICT indicators important for measuring the progress in information and communication technology.

Specifically, the survey aims to measure the following:

- component of ICT resources and their utilization by establishments;
- diffusion of ICT into establishments from various sources;
- e-commerce transactions from data on e-commerce sales/revenue and purchases;
- cellular mobile phone business transactions from data on sales/revenue;
- estimate of the number of ICT workers in establishments; and
- methods of disposal of ICT equipment.

Some indicators to be generated from the survey are as follows:

- proportion of establishments using computer
- proportion of employees using computers
- proportion of establishments with Internet connections
- 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
- proportion of establishments using the Internet by type of access and activity

- proportion of establishments with LAN and Extranet
- proportion of establishments on methods of disposal of ICT

The SICT 2013 was a rider survey of the 2013 Annual Survey of Philippine Business and Industry.

#### KIND OF DATA

Sample survey data [ssd]

#### UNITS OF ANALYSIS

establishment - defined as an economic unit under a single ownership or control, i.e., under a single legal entity, engaged in one or predominantly one kind of economic activity at a single fixed location.

## Scope

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#### NOTES

The 2013 Survey on Information and Communication Technology (SICT) of Philippine Business and Industry covered all industries included in the 2013 Annual Survey of Philippine Business and Industry (ASPBI).

For the purpose of the survey, these industries were classified as core ICT industries and non-core ICT Industries. Core ICT industries were industries comprising the Information Economy (IE).

The Information Economy is a term used to describe the economic and social value created through the ability to rapidly exchange information at anytime, anywhere to anyone. A distinctive characteristic of the information economy is the intensive use, by businesses of ICT for the collection, storage, processing and transmission of information. The use of ICT is supported by supply of ICT products from an ICT-producing sector through trade.

Information Economy is composed of the Information and Communication Technology Sector

and Content and Media Sector. Industries comprising these two sectors are as follows:

#### a. Information and Communication Technology

- ICT manufacturing industries
- ICT trade industries
- ICT service industries
- Software publishing
- Telecommunication services
- Computer programming, consultancy and related services
- Data processing, hosting and related activities; web portals
- Repair of computers and communication equipment

#### b. Content and Media

- Publishing activities
- Motion picture, video and television programme production, sound recording and music publishing activities
- Programming and broadcasting activities

#### TOPICS

Topic	Vocabulary	URI
Science, technology and innovation	Philippine Statistics Authority	
Information society	Philippine Statistics Authority	
Business and agricultural surveys	Philippine Statistics Authority	

**KEYWORDS**

Survey, Employment, Information Communication Technology, Core, Non-Core, Business Process Management, Establishment

## Coverage

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**GEOGRAPHIC COVERAGE**

For 2013 SICT, the geographic domains for the "core" ICT and BPM industries are the regions;

while for the "non-core" ICT industries is at the national level.

**UNIVERSE**

The SICT 2013 covered all operating establishments in 2013.

## Producers and Sponsors

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**PRIMARY INVESTIGATOR(S)**

Name	Affiliation
Philippine Statistics Authority	National Economic and Development Authority

**FUNDING**

Name	Abbreviation	Role
Government of the Philippines	GOP	Full funding

## Metadata Production

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**METADATA PRODUCED BY**

Name	Abbreviation	Affiliation	Role
Services Statistics Division	SSD	Philippine Statistics Authority	Documenter

**DATE OF METADATA PRODUCTION**

2017-06-19

**DDI DOCUMENT VERSION**

Version 1.0 - First metadata documentation of SICT 2013

**DDI DOCUMENT ID**

DDI-PHL-PSA-SICT-2013-v1

## Sampling

### Sampling Procedure

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The 2013 SICT utilized the stratified systematic sampling design with five-digit PSIC serving as industry strata (industry domain) and the employment size as the second stratification variable.

There were only two strata used for the survey, as follows: TE of 20 and over and TE of less than 20.

#### Industry Domain

The industry stratification for the 2013 SICT is the 5-digit PSIC for both the core ICT industries and for the non-core ICT industries. It has the same industry strata as that of the 2013 ASPBI.

#### Sample size and selection

Establishments engaged in the core ICT industries will be completely enumerated (100%), regardless of employment size.

The establishments classified in the non-core ICT industries and with total employment of 20 and over shall be covered on a 20 percent sampling basis for each of the industry domain at the national level. The minimum sample size is set to 3 establishments and maximum of 10 establishments per cell (industry domain).

However, when the total number of establishments (N) in the cell is less than the set minimum sample size, all establishments in that cell are taken as samples.

### Response Rate

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The overall response rate for the 2013 SICT is 87.04 percent (9,562 of the 10,986 sample establishments). This included receipts of "good" questionnaires, partially accomplished questionnaires, reports of closed, moved out or out of scope establishments. Sample establishments under core ICT industries reported 89.96 percent response rate ( 5,421 out of 6,026 establishments) while non-core ICT industries response rate is 83.48 percent (3,633 out of 4,352 sample establishments). On the other hand, industries classified in Business Process Management (BPM) have a response rate of 83.55 percent (508 out of 608 establishments).

### Weighting

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For Core industries, the weight is equal to 1.

For Non-core industries,

#### Weight Adjustment Factor for Non-Response

To account for non-response in the non-certainty strata, the adjustment factor ( $n/n'$ ) was multiplied with the sampling weight (W) of each of the sampling unit. The sampling weight, defined as  $N/n$ , was recomputed as

$$W' = N/n * n/n' = N/n'$$

Thus, the adjusted weight ( $W's_j$ ) for employment stratum in TE of 20 and over was

$$W's_j = N_s/n_s * n_s/n's = N_s/n's$$

where:

$N_s$  = total number of establishments in the employment stratum in TE 20 and over in the sth industry domain

$n's$  = number of responding establishments in the employment stratum in TE 20 and over in the sth industry domain



# Questionnaires

## Overview

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The questionnaire for the SICT 2013 includes the following data items:

- I. General Information About the Establishment
- II. Information and Communication Technology (ICT) Resources of the Establishment
- III. Network Channels
- IV. Internet Connection of the Establishment
- V. Uses of ICT Resources in the Operations of the Establishment
- VI. Use of Internet for Other Processes Within the Establishment
- VII. Website of the Establishment
- VIII. E-commerce via Internet
- IX. E-commerce via Computer Networks Other Than the Internet
- X. Use of Mobile Phones in Selling and Other Business Operation
- XI. Purchase and Disposal of ICT Equipment
- XII. Other General Information About the Establishment

## Data Collection

### Data Collection Dates

Start	End	Cycle
2014-10-01	2014-12-15	N/A

### Time Periods

Start	End	Cycle
2013-01-01		All data items

### Data Collection Mode

Distribute and collect the pre-addressed questionnaire (Self Administered Questionnaire). The establishment can access the PSA website <<https://sict.psa.gov.ph>> through the unique ECN found in the address stub of the questionnaire.

### Data Collection Notes

Questionnaires will be administered by the field staff to sample establishments. The questionnaires were administered by the DSOs, SCOs, Provincial Staff and hired SRs to sample establishments in accordance with the timetable. Extra copies of questionnaires were brought by the enumerator in case of lost or changed form. The kind-of-activity or business (Item 2) or Income (Item 11) was checked to ensure whether the questionnaire was appropriate for the establishments at the sector level. Sample establishments were encouraged to accomplish and submit the questionnaires online. Collection date was set with respondents using acknowledgement receipt form (ITSD-ADM Form 5).

Distribution was undertaken for a period of one (1) month starting 15 September 2014 to 17 October 2014 for 2013 SICT. The activity was done by DSOs, SCOs, Provincial Staff and hired SRs, if any.

Collection was done on 1 October 2014 to 15 December 2014.

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### Data Collectors

Name	Abbreviation	Affiliation
Philippine Statistics Authority	PSA	National Economic and Development Authority

## Supervision

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To ensure quality of data during operations, close supervision of enumeration was undertaken by RDs/PSOs/OICs/Regional and Provincial Statisticians. Central office statisticians also conducted supervision in some areas with large number of establishments.

# Data Processing

## Data Editing

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Manual processing took place in Provincial Offices at a number of stages throughout the processing, including:

- \* coding of some data items
- \* editing of questionnaires
- \* completeness of entries
- \* consistency check among variables

Data processing was done in Field Offices and Central Office.

### Field Offices

- \* online data encoding and updating
- \* completeness and consistency edits
- \* folioing of questionnaires

### Central Office

- \* online validation
- \* completeness and consistency checks
- \* summarization
- \* tabulation

Detailed documentation of the editing of data can be found in the "Data processing guidelines" document provided as an external resource.

## Other Processing

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The SICT 2013 utilized the Establishment Data Management System or EDMS. This was the first time the system was introduced. It has seven functional modules namely Data Entry, Validation, Tabulation, Query, User Account, Monitoring and Tracking and Sampling Stratification.

## Data Appraisal

### **Estimates of Sampling Error**

Not computed

### **Other forms of Data Appraisal**

Data estimates would be checked with those from other related surveys or administrative data.