



Department of Statistics
M A L A Y S I A

TRAINING COURSE ON

Source Data: Usage of ICT and E-commerce by Establishment (ICTEC) -Malaysia's experienced

for

National Bureau of Statistics of Maldives

25th May 2021 (Tuesday)



20 OCT



2016 - 2030



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1. Introduction



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Usage of ICT and E-commerce by Establishment (ICTEC)

ICTEC

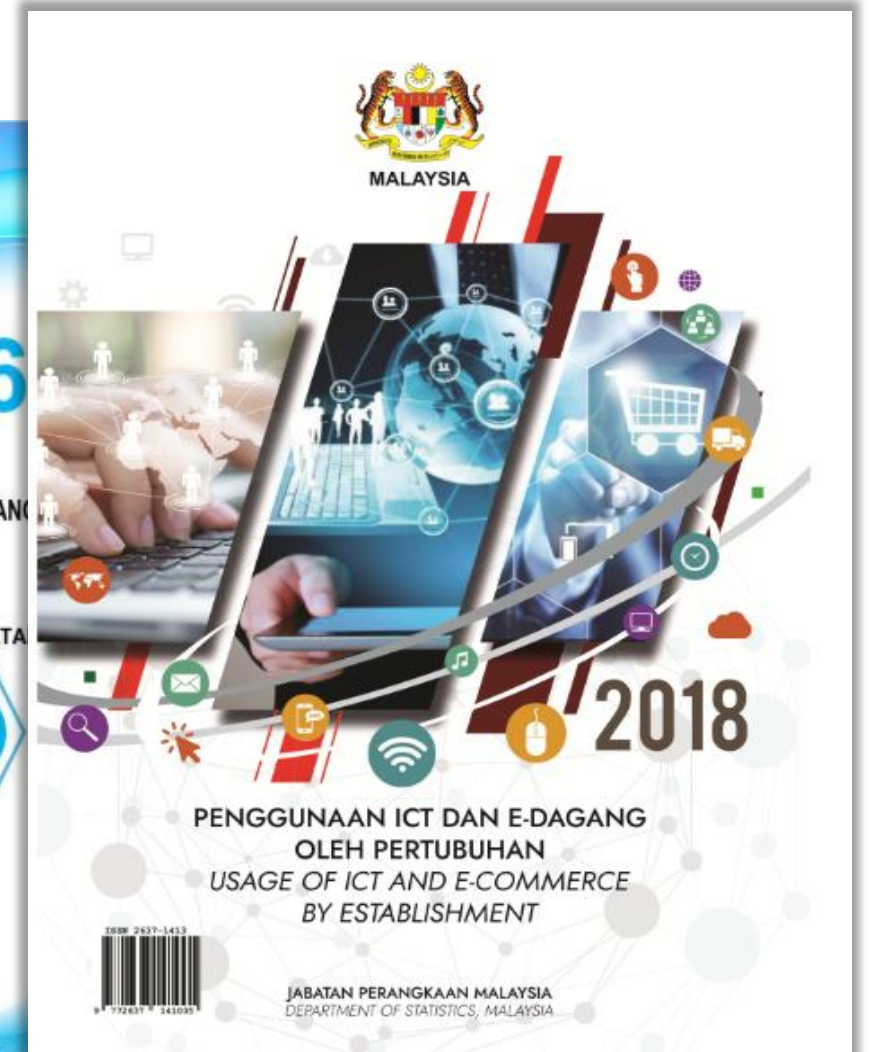
Survey for the usage of ICT and e-commerce by establishment in Malaysia

- survey starting 2015
- Implement every 2 years
- Latest preparing for reference year 2019

OBJECTIVE

To collect information on establishment regarding the use of ICT and e-commerce transaction for the reference year

- For the use of
 - ICT Satellite Account report
 - Digital Economy report
 - National E-Commerce Council



2. Concept and definition (references)



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Usage of ICT and E-commerce by Establishment (ICTEC)

MANUAL/ REFERENCE

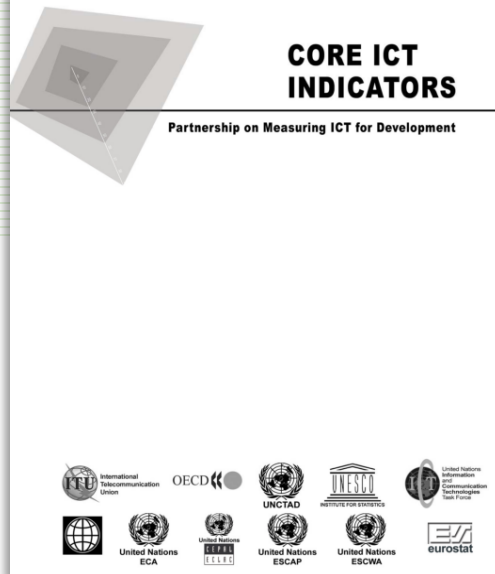
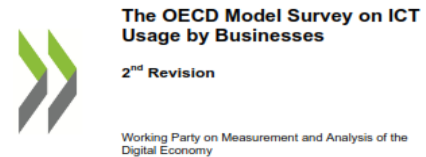
- OECD Model Survey on ICT Usage by Businesses
- OECD Guide to measuring the information society 2011
- Core ICT indicators (from ITU and OECD)

Basic core

- B1 Proportion of businesses using computers
- B2 Proportion of employees using computers
- B3 Proportion of businesses using the Internet
- B4 Proportion of employees using the Internet
- B5 Proportion of businesses with a Web presence
- B6 Proportion of businesses with an intranet
- B7 Proportion of businesses receiving orders over the Internet
- B8 Proportion of businesses placing orders over the Internet

Extended core

- B9 Proportion of businesses using the Internet by type of access: Categories should allow an aggregation to narrowband and broadband, where broadband excludes slower speed technologies, such as dial-up modem, ISDN and most 2G mobile phone access. Broadband will usually have an advertised download speed of at least 256 kbit/s.
- B10 Proportion of businesses with a Local Area Network (LAN)
- B11 Proportion of businesses with an extranet
- B12 Proportion of businesses using the Internet by type of activity





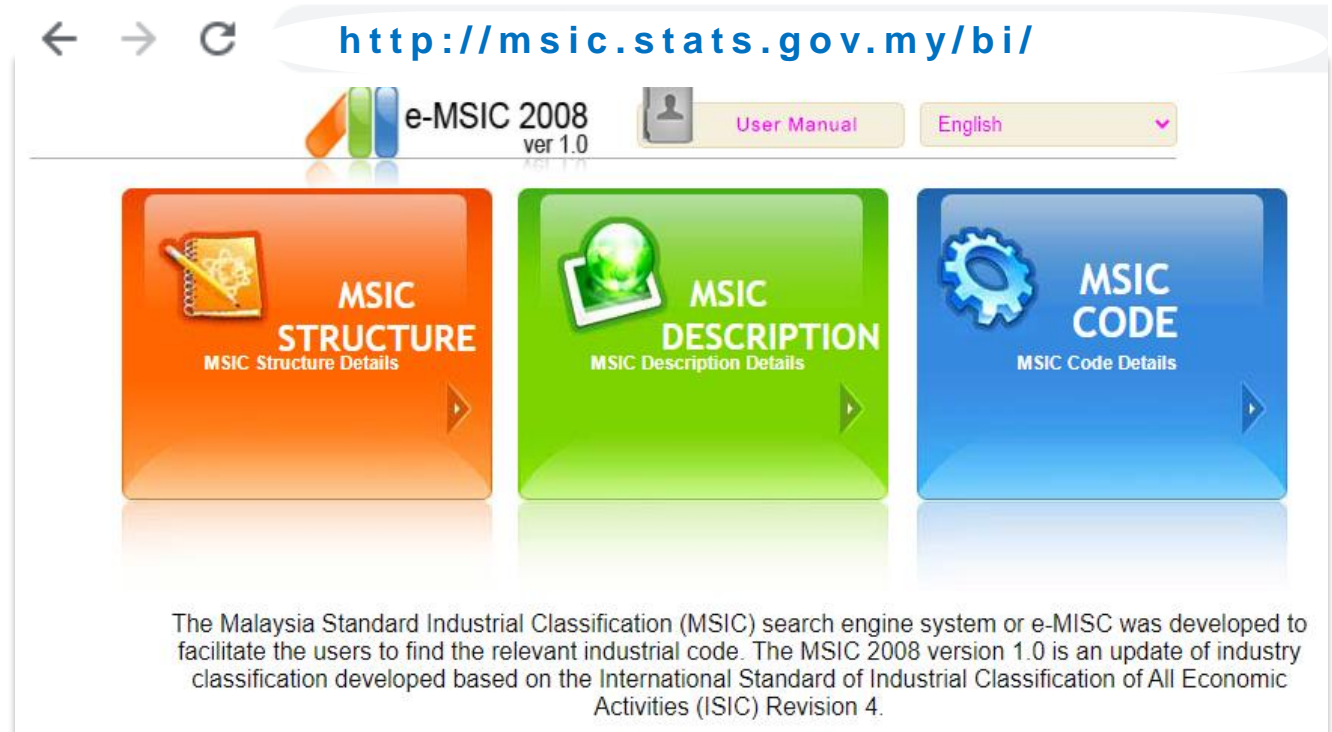
Concept and definition (references)



Usage of ICT and E-commerce by Establishment (ICTEC)

BUSINESS ACTIVITY (BASED ON MALAYSIA STANDARD INDUSTRIAL CLASSIFICATION 2008 (MSIC 2008) VER. 1.0.)

Type of business activity refers to both principal and secondary activities. The **principal** activity refers to the activity to which the establishment devoted most of its resources or activity which derived most of its income. **Secondary** activities are defined as those incidental or ancillary to the principal activity. The classification of the industry of the establishment is based on the principal activity and is in accordance with **the Malaysia Standard Industrial Classification (MSIC), 2008 Ver 1.0. The MSIC 2008 conforms to the International Standard Industrial Classification of All Economic Activities (ISIC), Revision 4, United Nations Statistics Division, with modifications to suit local conditions.**





ICT DEFINITION (BASED ON OECD, 2015)

- i. **Intranet**
Refers to the internal communications network using Internet protocols and allowing communication within the organisation.
- ii. **Extranet**
Refers to a closed network that uses Internet protocols to secure the sharing of business information with suppliers, vendors, customers or other business partners. It also can be part of a personal website business, where business partners can navigate after being confirmed in the login page.
- iii. **Local Area Network (LAN)**
A network connecting computers and associated devices within a localized area such as a single building, department or site; it may be wireless.
- iv. **Wireless Local Area Network (WLAN)**
Local area network using high frequency radio waves instead of wires to communicate between networks-enabled devices. WLAN allows users to move around a small area within a radius of 20 to 91 meters.
- v. **Wide Area Network (WAN)**
A network that connects computers and associated devices within a wide geographic area, such as a region or country.

E-COMMERCE DEFINITION (BASED ON OECD, 2015)

E-commerce transaction is the sale or purchase of goods or services, through a network of computers that have been designed for this purpose. E-commerce transactions can occur between enterprises, households, individuals, governments and public or private organization to another.

Goods or services that have been ordered through e-commerce methods, but the payment or receipt of goods or services can be received either through online or offline (e.g. email)

E-commerce transaction, includes orders placed on websites, extranet or Electronic Data Interchange (EDI). However, the transactions made by telephone, fax, e-mail (mail that is typed manually) and the similar transactions are not categorised as e-commerce transactions.

3. Scope and coverage (methodologies and data collection)



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Scope and coverage (methodologies and data collection)

Usage of ICT and E-commerce by Establishment (ICTEC)

SCOPE AND COVERAGE

- covers registered establishments in the Agriculture, Mining & quarrying, Manufacturing, Construction and Services sectors.
- coverage for the overall economic activity encompass of 1,142 industries at 5-digit level according to the Malaysian Industrial Classification Standards (MSIC), 2008 Version 1.0.

SOURCE OF FRAME

- Main source of information for the frame was the Companies Commission of Malaysia (CCM)
- Malaysian Industrial Development Authority (MIDA)
- Ministry of Agriculture and Agro-based Industry
- Construction Industry Development Board, Malaysia (CIDB)
- Minerals & Geosciences Department, Malaysia (JMG)
- Energy Commission
- Others (various businesses and trade associations, newspaper advertisements and websites)

SURVEY YEAR

Survey year refers to the year in which a survey was conducted. It was conducted once in every two years.

REFERENCE YEAR

The reference year of the survey was the previous calendar year. Establishments whose accounting year differed from calendar year were requested to report according to the accounting year or financial year covering the major part of the reference period.

METHOD OF COLLECTION

- by mail inquiry
- Respondents given one month to complete and return the questionnaire to the Department.
- After that period, field enumeration was undertaken to expedite response from the remaining establishments.





Scope and coverage (methodologies and data collection)



Usage of ICT and E-commerce by Establishment (ICTEC)

SAMPLING DESIGN

Sampling design of the survey is a **one-stage stratified random sampling**. Categories of industries at two (2), three (3), four (4) and five (5) digit MSIC at state level have been classified as stratum and the establishment as the sampling unit.

Each stratum (**industry**) has been set up to **four substrata** to ensure the distributed sample takes into account the economic characteristics of the industry. The main substratum is **heterogeneous, was fully covered**. Whereas, other substratum that are **homogeneous were sampled**.

Main substratum include **large establishments that have a significant total revenue** in the industry while for the **second to fourth substratum** are based on **small and medium enterprise (SME) categories**.

SAMPLE SIZE

The **main statistics** used to **estimate** the sample size is the **total revenue**. The formula used in the estimation of the sample size for a stratum is as follows:

$$n = \frac{\left(\sum N_i S_i\right)^2}{V + \sum N_i S_i^2}$$

where;

- n = Sample size
- N_i = Population size for stratum i
- S_i = Variance for stratum i
- V = Desired variance



4. Questionnaire



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Usage of ICT and E-commerce by Establishment (ICTEC)

SURVEY FORM, ICTEC 2020 (REFERENCE YEAR 2019)

ICTEC2020/411

Sulit selepas data diisi
Confidential when filled with data

Sila buat satu salinan untuk rekod tuan
Please make a copy for your record

JABATAN PERANGKAIAN MALAYSIA
DEPARTMENT OF STATISTICS, MALAYSIA
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SURVEI PENGGUNAAN ICT DAN E-DAGANG OLEH PERTUBUHAN 2020
SURVEY ON USAGE OF ICT AND E-COMMERCE BY ESTABLISHMENT 2020

Sila kembalikan soal selidik dalam masa 30 hari
Please return the questionnaire within 30 days

KEGUNAAN PEJABAT / OFFICE USE

ICTEC 411

TAHUN RUJUKAN 2019
REFERENCE YEAR 2019

MAKLUMAN AM / GENERAL INFORMATION

1. Jabatan Perangkaan Malaysia sedang melaksanakan Survei Penggunaan ICT dan E-Dagang oleh Pertubuhan 2020 (bagi tahun rujukan 2019).

2. Tujuan utama ialah untuk mengumpul maklumat yang komprehensif dan terkini bagi pertubuhan yang menggunakan ICT dan menjalankan aktiviti e-dagang dalam perniagaan. Maklumat daripada survei ini diperlukan oleh kerajaan untuk mengukur prestasi penggunaan ICT dan ekonomi digital Malaysia.

3. Maklumat yang dikumpul adalah mengikut peruntukan di bawah Akta Perangkaan 1965 (Disemak - 1989), Seksyen 5 di bawah Akta ini menghendaki mana-mana pertubuhan yang beroperasi di Malaysia untuk memberikan maklumat sebenar atau anggaran terbalik kepada Jabatan. Mengikut Akta ini, kandungan soal selidik pertubuhan / individu yang diterima adalah SULIT dan tidak boleh dibekalkan kepada sesiapa atau mana-mana institusi di luar Jabatan ini. Sementara itu, Seksyen 7 di bawah Akta yang sama menyatakan bahawa responden boleh dikenakan denda sekiranya gagal memberi maklumat yang diperlukan.

4. Tujuan utama melaporkan butir-butir yang berkaitan dengan pertubuhan tuan seperti tercatat di atas dan mengembalikan soal selidik yang lengkap ke Jabatan ini.

5. Sekiranya pertubuhan tuan tidak beroperasi dalam tahun rujukan 2019, sila kembalikan borang KOSONG dengan alasan ke Jabatan ini.

6. The Department of Statistics, Malaysia is conducting the Survey on Usage of ICT and E-Commerce by Establishment 2020 (for reference year 2019).

7. The main objective is to collect comprehensive and current information on usage of ICT and e-commerce activity by businesses. The information of this survey will be used by the government to measure the usage of ICT performance and digital economy in Malaysia.

8. The information is gathered under the provisions of the Statistics Act 1965 (Revised - 1989), Section 5 of this Act requires all establishments operating in Malaysia to provide actual information or best estimates to the Department. The Act stipulates that the contents of the establishments / individual returns are CONFIDENTIAL and will not be divulged to any person or institution outside this Department. Meanwhile, Section 7 under the same Act provides a penalty should the respondent failed to furnish the required information.

9. You are requested to provide information related to your establishment as stated above and return the completed questionnaire to the Department.

10. If your establishment was not operated during the reference year 2019, please submit a NIL return with reasons to the Department.

DATO' BRI DR. MOHD UZIR MAHDIN
KETUA PERANGKAIAN MALAYSIA
CHIEF STATISTICIAN, MALAYSIA

Tarikh / Date :

Kerjasama tuan dalam menayakan survei ini amatlah dihargai / Your cooperation in ensuring the success of this survey is very much appreciated

Must turn soal selidik boleh dibuat melalui www.dosm.gov.my. Tulis dengan kemas di dalam kotak menggunakan HURUF BESAR atau tanda (X) pada kotak yang berkenaan.
Download of the questionnaire can be made through www.dosm.gov.my. Write neatly within the boxes using CAPITAL LETTER or mark (X) in the appropriate box.

- 1 Identification particulars
- 2 Legal organisation
- 3 Shareholders' fund and ownership structure
- 4 Persons engaged/ revenue/ expenditure
- 5 Usage of ICT
- 6 Online services and e-commerce transactions



5. Indicator on ICT (benchmarking and alternative)



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Usage of ICT and E-commerce by Establishment (ICTEC)

Communications and Multimedia: Pocket Book of Statistics

PENETRATION RATES (%)

Fixed-broadband

Mobile-broadband

Mobile-cellular

Pay TV

Note:

1. Fixed-broadband refers to penetration rate per 100 premises
2. Mobile-broadband and mobile-cellular refer to penetration rate per 100 inhabitants
3. Pay TV refers to penetration rate per 100 households

Broadband

Total Broadband
Subscriptions ('000)



Fixed-broadband Subscriptions ('000)

Mobile-broadband Subscriptions ('000)

Broadband Penetration Rate by State (%)

Fixed-broadband Subscriptions by State ('000)

Mobile-broadband Subscriptions by State ('000)

Fixed-broadband Subscriptions by Speed Range ('000)

Mobile Subscriptions by Technology ('000)

Broadband Traffic (exabytes)



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MALAYSIAN COMMUNICATIONS AND MULTIMEDIA COMMISSION

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Jendela
Jalinan Digital Negara

JENDELA Second Quarterly Report

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Industry Performance Report 2019



ANNOUNCEMENT Klik di sini untuk Laporan Makmal Infrastruktur Digital Negara!



6. Means of dissemination



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Means of dissemination



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By Themes

Data Request

NSDP

Sales Value (RM)
118.4

Manufacturing Statistics
21

eStatistik

Time Series Data

Malaysia @ a Glance

Open Data

Statistics Compilation

Balance of Trade
17.9
(RM billion)

External Trade, P

Sustainable Development Goals (SDG)

System of Environmental-Economic Accounting (SEEA)

Rate
4.8%

Unemployment, Feb 21

Value (RM)
357.4 billion

Constant 2015 Prices
Gross Domestic Product, Q4
2020

LATEST RELEASE

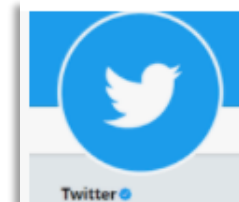
09 Apr 2021
Index Of Industrial Production, Malaysia February 2021
09 Apr 2021
Monthly Manufacturing Statistics Malaysia, February 2021

COMING SOON

23 Apr 2021
Malaysian Economic Indicators: Leading, Coincident & Lagging Indexes
23 Apr 2021
Consumer Price Index Malaysia*

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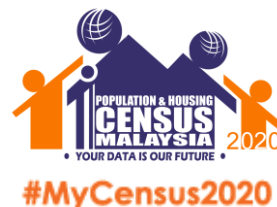


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