

Executive Summary

The Information and Communication Technology Survey in Household has been undertaken since 2001. From 2003, the survey has been conducted annually in order to know the number of computer users, the number of Internet and mobile phone users, the behaviors of users, the number of household with information and communication technology devices such as fixed line telephone, fax, computers and Internet access in households.

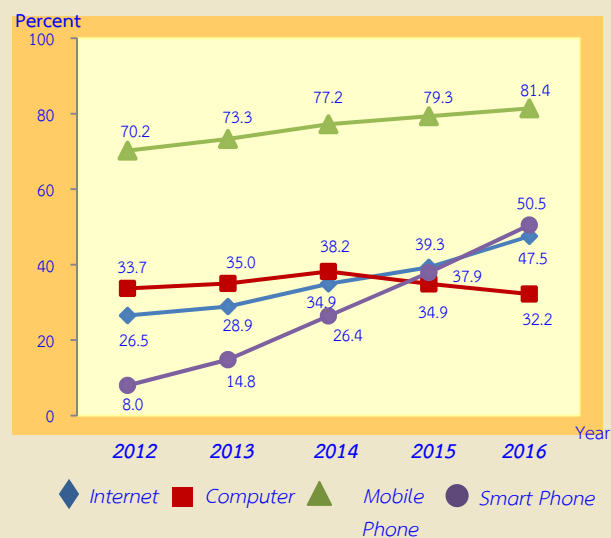
Viewing heads of households and members of households aged 6 years and over from 83,880 sample households, the survey can be concluded as the following:

1. Use of information and communication technology of population

In 2016, from 62.8 million of population aged 6 years and over, there were 20.2 million of computer users or 32.2%, 29.8 million of Internet users or 47.5% and 51.1 million of mobile phone users or 81.4%.

Comparing the proportion of computer, Internet and Mobile Phone users of population aged 6 years and over during 2012 – 2016, computer had proportion about 33.7% (21.2 million) in 2012 and decreased to 32.2% (20.2 million) in 2016 and Internet had about 26.5% (16.6 million) in 2012 and increased to 47.5% (29.8 million) in 2016 and Mobile Phone had about 70.2% (44.1 million) and increased to 81.4% (51.1 million) in 2016 and Smart Phone had about 8.0% (5.0 million) and increased to 50.5% (31.7 million).

Percentage of population aged 6 years and over who used information and communication technology in 2012-2016



Note: Mobile phone, it includes feature phone and smart phone

Considering the proportion of using ICT, there have different of using between municipal and non-municipal area. During 2012 – 2016 the proportion of computer users in municipal area had 45.4% in 2012 and decreased to 39.6% in 2016, while the proportion of computer users in non-municipal area had 27.5% in 2012 and decrease to 26.2% in 2016,

At the same time the proportion of Internet users in municipal area had increased from 37.7% in 2012 to 57.4% in 2016 and in non-municipal area had increased from 20.5% in 2012 to 39.5% in 2016,

While the proportion of Mobile Phone users in municipal area had 77.7% in 2012 and increased to 86.6% in 2016 and in non municipal area had 66.2% in 2012 and increased to 77.2% in 2016 and Smart Phone users in municipal area had 10.6% in 2012 and increased to 60.0% in 2016 and in non-municipal area had 6.7% in 2012 and increased to 42.8% in 2016. (Table 1)

Percentage of population aged 6 years and over who used information and communication technology in 2012-2016 by area

Year	Computer		Internet		Mobile Phone		Smart Phone	
	Municipal area	Non-Municipal area	Municipal area	Non-Municipal area	Municipal area	Non-Municipal area	Municipal area	Non-Municipal area
2012	45.4	27.5	37.7	20.5	77.7	66.2	10.6	6.7
2013	46.3	29.1	39.9	23.2	80.0	69.8	21.2	11.4
2014	47.8	30.4	44.9	26.9	83.9	71.8	35.6	19.0
2015	42.6	28.7	49.4	31.2	84.8	74.9	48.3	29.6
2016	39.6	26.2	57.4	39.5	86.6	77.2	60.0	42.8

Note: Mobile phone, it includes feature phone and smart phone

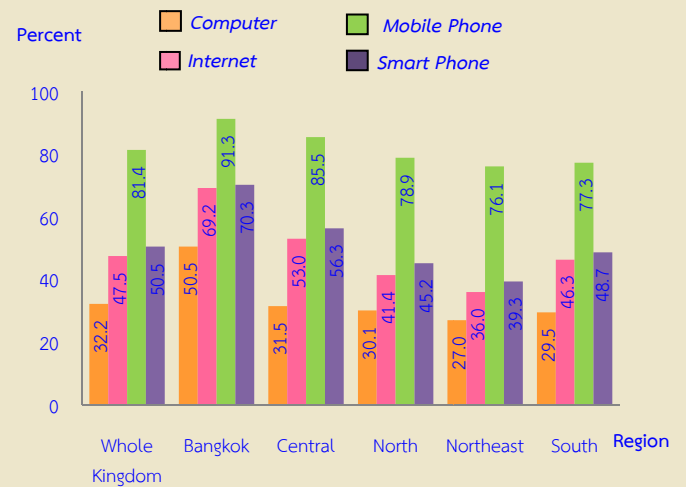
Considering ICT using by region in 2016, the proportion of using computer, Internet and mobile phone, Bangkok had the highest proportion of computer users at 50.5% and next was the Central region with 31.5%, Northern region with 30.1%, Southern region with 29.5% and Northeastern region had the lowest with 27.0%.

For the using of Internet, Bangkok also had the highest proportion of users at 69.2% and the second region was the Central region at 53.0% Southern region was 46.3% Northern region at 41.4%, the and the Northeastern region had the lowest proportion at 36.0%.

For the using of Mobile Phone, Bangkok also had the highest proportion of users at 91.3%. Next was Central region at 85.5%, Northern region was 78.9%, Southern region was 77.3% and Northeastern region had the lowest proportion of users at 76.1%.

For the using of Smart Phone, Bangkok also had the highest proportion of users at 70.3%. Next was Central region at 56.3%, Southern region was 48.7%, Northern region was 45.2% and Northeastern region had the lowest proportion of users at 39.3%.

Percentage of population aged 6 years and over who used information and communication technology by region

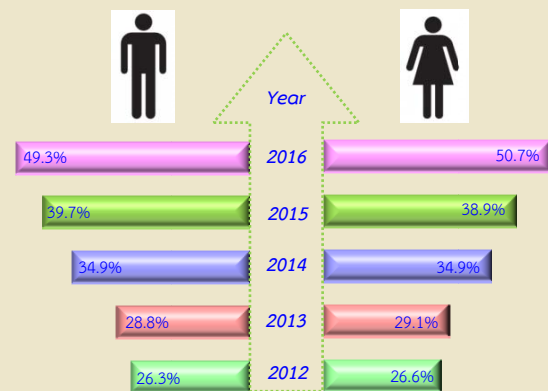


Note: Mobile phone, it includes feature phone and smart phone

2. Characteristics and Behavior Internet usage

The proportion of using Internet between males and females is not difference during 2012–2016. Internet use of male and female increased steadily

Percentage of population aged 6 years and over used Internet during 2012 – 2016 by sex



Considering the Internet using by age group, in 2016 the youth age group between 15-24 years was the group that used Internet most at 85.9%.

Next was age group between 25-34 years at 73.6%, the age group between 6-14 years at 61.4%, age group between 35-49 years at 44.9% and age 50 years and over had the lowest proportion of Internet at 13.8%.

Percentage of population aged 6 years and over used Internet during 2012 – 2016 by age group

Year	Age group (years)				
	6-14	15-24	25-34	35-49	50years+
2012	46.5	54.8	29.7	17.1	6.2
2013	54.1	58.4	33.5	18.7	6.6
2014	58.2	69.7	48.5	25.9	8.4
2015	58.0	76.8	60.1	31.8	9.6
2016	61.4	85.9	73.6	44.9	13.8

For the location of using Internet in 2016, most of persons used Internet at any place via a mobile phone/laptop at 85.4%. Next persons used Internet at home at 66.1%, at work 33.1% and at place of education at 27.6%.

Considering the activity of using Internet, Internet was used mostly to Social Network (Facebook, Twitter, GooglePlus, Line, Instagram) at 91.5%. Next was for downloading picture/ movies/video/music/game or playing game, or listening to radio or music at 88.0%. Upload information picture/photo/video music software ect to share on website at 55.9% and e-book at 46.5%.

However, when considering frequency of using Internet, most of persons used Internet 5-7 days per week at 79.8%. Next was used Internet 1-4 days per week at 19.3%.

For the highest proportion of devices to access Internet was Smart Phone at 90.4%, Next was PC 50.1% Notebook at 24.9% and Tablet at 15.2% respectively.

Percentage of population aged 6 years and over used devices to access Internet



Note: Answer all questions.

3. Device of Information and communication technology with household

The survey of ICT household during 2012-2016, the proportion of fixed line telephone was 15.6% in 2012 and decreased to 12.2% in 2016. The proportion of fax was 1.7% in 2012 and decreased to 1.4% in 2016. The proportion of computers was 26.9% in 2012 and increased to 28.4% in 2016. The proportion to Internet access was 18.4% in 2012 and increased to 59.8% in 2016.

Percentage of household with device of information and communication technology in 2012-2016

Year	Number of household (Per Thousand)	Percentage of household with device of information and communication technology			
		Fixed Telephone	Fax	Computer	Internet
2012	20,025.4	15.6	1.7	26.9	18.4
2013	20,121.4	14.0	1.7	28.7	23.5
2014	20,564.7	14.4	2.2	33.9	34.7
2015	20,642.9	12.3	1.4	29.5	52.2
2016	21,367.2	12.2	1.4	28.4	59.8

In 2016, the household with Internet access primarily used 3G and above (such as WCDMA, EV-DO) at 70.6 %, Next was fixed broadband at 23.3 % mobile wireless technology 2G, 2.5G (such as GSM, CDMA, GPRS) at 3.5% and Analogue modem, ISDN at 1.1%.

Percentage of household with Internet access by type of Internet and region

Region	Total	Type of Internet				
		Narrowband		Broadband		Unsure
		Analogue modem, ISDN	Mobile wireless 2G, 2.5G (such as GSM, CDMA, GPRS)	Fixed broadband ^{1/}	Mobile wireless 3G and above (such as WCDMA, EV-DO)	
Whole Kingdom	100.0	1.1	3.5	23.3	70.6	1.5
Bangkok	100.0	0.9	1.3	36.0	61.1	0.7
Central	100.0	1.4	3.3	20.9	72.5	1.9
North	100.0	1.0	2.4	26.2	69.6	0.8
Northeast	100.0	0.9	6.3	16.9	73.9	2.0
South	100.0	0.7	4.2	18.6	74.8	1.7

Note : ^{1/}Fixed broadband include DSL (SDSL, ADSL, VDSL), Cable modem, Leased line, Satellite, Fiber-to -the-home Fixed wireless, WIMAX