

Table 1 : Telecommunications indicators in Taiwan, 2016-2022

Year Ending 31.12

Indicators	Definition of indicators	2016	2017	2018	2019	2020	2021	2022
TELEPHONE NETWORK								
Fixed-telephone subscriptions per 100 inhabitants (%)	Fixed-telephone subscriptions refers to the sum of active number of analogue fixed-telephone lines, voice-over-IP (VoIP) subscriptions, fixed wireless local loop (WLL) subscriptions, ISDN voice-channel equivalents and fixed public payphones.	58.31	57.30	55.53	54.56	54.12	53.62	52.92
Mobile-cellular subscriptions per 100 inhabitants (%)	Mobile-cellular telephone subscriptions refers to the number of subscriptions to a public mobile-telephone service that provide access to the PSTN using cellular technology. The indicator includes the number of postpaid subscriptions, and the number of active prepaid accounts (i.e. that have been used during the last three months). The indicator applies to all mobile-cellular subscriptions that offer voice communications. It excludes subscriptions via data cards or USB modems, subscriptions to public mobile data services, private trunked mobile radio, telepoint, radio paging, M2M and telemetry services.	123.82	121.55	123.67	123.21	124.57	126.95	130.07
BROADBAND								
Fixed-broadband subscriptions per 100 inhabitants (%)	Fixed-broadband subscriptions refers to fixed subscriptions to high-speed access to the public Internet (a TCP/IP connection), at downstream speeds equal to, or greater than, 256 kbit/s. This includes cable modem, DSL, fibre-to-the-home/building, other fixed (wired)-broadband subscriptions, satellite broadband and terrestrial fixed wireless broadband. This total is measured irrespective of the method of payment. It excludes subscriptions that have access to data communications (including the Internet) via mobile-cellular networks. It should include fixed WiMAX and any other fixed wireless technologies. It includes both residential subscriptions and subscriptions for organizations.	24.07	24.13	24.13	24.53	25.26	27.13	28.52
Active Mobile-broadband subscriptions per 100 inhabitants (%)	Active mobile-broadband subscriptions refers to the sum of active handset-based and computer-based (USB/dongles) mobile-broadband subscriptions to the public Internet. It covers actual subscribers, not potential subscribers, even though the latter may have broadband-enabled handsets. Subscriptions must include a recurring subscription fee or pass a usage requirement – users must have accessed the Internet in the last three months. It includes subscriptions to mobile-broadband networks that provide download speeds of at least 256 kbit/s (e.g. WCDMA, HSPA, CDMA2000 1x EV-DO, WiMAX IEEE 802.16e and LTE), and excludes subscriptions that only have access to GPRS, EDGE and CDMA 1xRTT.	90.27	99.70	110.96	114.76	117.20	119.33	121.89
Mobile Broadband subscribers (%)	Total active mobile 3G and 4G subscriptions(From 2019, it was revised to the 4G and 5G subscriptions), excluding broadband connections on dedicated data SIM cards or USB dongles. Data given as a percentage of the total mobile market.	98.63	100.00	100	100	100	100	100

Indicators	Definition of indicators	2016	2017	2018	2019	2020	2021	2022
HOUSEHOLD ICT ACCESS AND INDIVIDUAL USE								
Households with a computer (%)	Households with a computer (all types of computer), include desktop, laptop (portable) computer, tablet (or similar handheld computer).	83.10	77.50	79.83	75.00	71.60	N/A*	80.76**
Households with Internet access (%)	Total number of households with Internet access. The Internet is a worldwide public computer network. It provides access to a number of communication services including the World Wide Web and carries e-mail, news, entertainment and data files, irrespective of the device used (not assumed to be only via a computer – it may also be by mobile telephone, tablet, PDA, games machine, digital TV etc.). Access can be via a fixed or mobile network.	82.00	89.90	89.00	86.20	88.90	N/A*	89.70**
Internet users (%)	Use of Internet should be recorded is irrespective of the device used (not assumed to be only via a computer – it may also be by mobile telephone, tablet, PDA, games machine, digital TV etc.). Access can be via a fixed or mobile network.	79.75	-	86.21	88.90	89.00	N/A*	86.30**
BASIC FACTS								
Population(10 ³)	data from ITU World Telecommunication/ICT Indicators data base	23,618	23,675	23,726	23,774	23,561	23,375	23,265
Households(10 ³)	data from ITU World Telecommunication/ICT Indicators data base	7,532	7,543	7,560	8,833	8,934	9,007	9,089

Source : ITU World Telecommunication/ICT Indicators data base · IMD World Digital Competitiveness Ranking(DCR) · Directorate-General of Budget, Accounting and Statistics of Executive Yuan, R.O.C.(Taiwan) · Ministry of the Interior, R.O.C.(Taiwan) · National Communications Commission, R.O.C.(Taiwan)

Note:*There is no survey because of the pandemic of Covid-19 in Taiwan in 2021. **This information is collected by Telecommunications Market Survey of the National Communications Commission. Face-to-face interviews were employed between 2017 and 2020. Because of the pandemic of Covid-19 in Taiwan in 2022, local telephone and mobile phone interviews instead of face-to-face interviews were employed. The survey methods are different, so please be careful when using the research results.

Table 2 : Telecommunications indicators in Taiwan, 2016-2022

Year Ending 31.12

Indicators	Definition of indicators	2016	2017	2018	2019	2020	2021	2022
TARIFFS								
Mobile-cellular prices(70 minutes, 20 SMSs) (%) (as a percentage of a average monthly GNI p.c.)*	The mobile-cellular basket refers to the price of a standard basket of 70 minutes and 20 SMS messages per month in predetermined on-net/off-net/fixed ratios. The mobile-cellular basket is based on the most common contract modality (prepaid or postpaid) in the economy in question, i.e. if more than 50 per cent of subscriptions are prepaid, then prepaid is selected. Otherwise, a postpaid plan is selected.	—	—	—	0.45	0.45	0.44	0.28
Fixed-broadband prices (%) (as a percentage of a average monthly GNI p.c.)**	Refers to the monthly subscription charge for fixed-broadband Internet service. Fixed-broadband is considered to be any dedicated connection to the Internet at downstream speeds equal to, or greater than, 256 kbit/s. Taxes should be included. If not included, it should be specified in a note including the applicable tax rate.	0.53	0.54	0.49	0.47	0.48	0.43	0.35
The data-only mobile-broadband price basket*	The data-only mobile-broadband basket is based on a monthly data usage of a minimum of 1.5 GB(before 2020)/2GB(after 2021). For plans that limit the monthly amount of data transferred by including data volume caps below 1.5 GB, the cost for the additional bytes is added to the basket. The minimum speed of a broadband connection is 256 kbit/s. The data-only mobile-broadband basket is based on the most common contract modality (prepaid or postpaid) in the economy in question, i.e. if more than 50 per cent of subscriptions are prepaid, then prepaid is selected. Otherwise, a postpaid plan is selected.	—	—	—	0.45	0.45	0.73	0.38
The low-consumption data-and-voice price basket*	The low-consumption data-and-voice price basket is based on a monthly data usage of a minimum of 500 MB of data, 70 voice minutes, and 20 SMSs. For plans that limit the monthly amount of data transferred by including data volume caps below 500 MB, the cost of the additional bytes is added to the basket. The minimum speed of a broadband connection is 256 kbit/s. The data-and-voice basket is based on the most common contract modality (prepaid or postpaid) in the economy in question, i.e. if more than 50 per cent of subscriptions are prepaid, then prepaid is selected. Otherwise, a postpaid plan is selected.	—	—	—	0.47	0.33	0.28	0.25
The high-consumption data-and-voice price basket*	The high-consumption data-and-voice price basket is based on a monthly data usage of a minimum of 1.5 GB(before 2020)/2GB(after 2021), 140 minutes, and 70 SMSs. For plans that limit the monthly amount of data transferred by including data volume caps below 1.5 GB, the cost of the additional bytes is added to the basket. The minimum speed of a broadband connection is 256 kbit/s. The data-and-voice basket is based on the most common contract modality (prepaid or postpaid) in the economy in question, i.e. if more than 50 per cent of subscriptions are prepaid, then prepaid is selected. Otherwise, a postpaid plan is selected.	—	—	—	0.71	0.61	0.57	0.52

Indicators	Definition of indicators	2016	2017	2018	2019	2020	2021	2022
INVESTMENT								
Annual investment in telecommunication services (10 ⁶)(NT\$)***	Investment refers to as the annual capital expenditure; this is the gross annual investment in telecom (including fixed, mobile and other services) for acquiring property and network. The term investment means the expenditure associated with acquiring the ownership of property (including intellectual and non-tangible property such as computer software) and plant. This includes expenditure on initial installations and on additions to existing installations where the usage is expected to be over an extended period of time. Note that this applies to telecom services that are available to the public, and exclude investment in telecom software or equipment for private use.	55,744	53,504	51,600	42,419	53,517	68,176	—

Source : ITU World Telecommunication/ICT Indicators data base · Directorate-General of Budget, Accounting and Statistics of Executive Yuan, R.O.C.(Taiwan) · Ministry of the Interior, R.O.C.(Taiwan) · National Communications Commission, R.O.C.(Taiwan) · Chunghwa Telecom

Note:*Those are new items in the ITU ICT Price Basket questionnaire in 2019.**Only circuit fee is included, but internet access fee is not included.***The data in 2022 will not be available until telecommunication operators complete their financial reports.