



Ministry of Communications
and Information Technology

ICT Indicators Bulletin

December 2020 | Quarterly Issue



ICT Sector's Infrastructure Indicators

The ICT Sector's Role in Development

Indicators in Brief

Data Item	Unit	October - December 2019	July - September 2020	October - December 2020	Quarterly growth rate (%)	Annual growth rate (%)
ICT Sector: Infrastructure Indicators						
Mobile subscriptions	Million	95.340	95.360	95.357	-0.002	0.018
Mobile penetration*	%	95.38	94.09	93.65	-0.43	-1.72
Fixed line subscriptions	Million	8.76	9.15	9.85	7.63	12.45
Fixed line penetration*	%	7.70	7.70	7.73	0.03	0.03
Mobile Internet subscriptions	Million	39.00	50.48	52.40	3.81	34.36
USB Modem subscriptions	Million	3.60	3.28	4.04	23.08	12.28
ADSL subscribers	Million	7.30	8.45	8.81	4.27	20.8
International Internet Bandwidth**	Gbps	2,373.07	2,576.30	2,565.78	-0.41	7.04
Number of post offices	Post office	3982	4009	4026	0.42	1.10
ICT Sector's Role in Development						
Capacity building program provided by ITIDA	Thousand Graduates	24,93	26.77	28,47	6.35	14.2

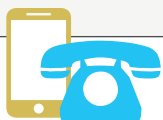
* Growth rates are calculated according to the difference between penetration rates in different time intervals.

** (October – December 2019) data

- The proportion of individuals using Internet reached 57.3%, according to “ICT access and use by households and individuals 2019/2020”.

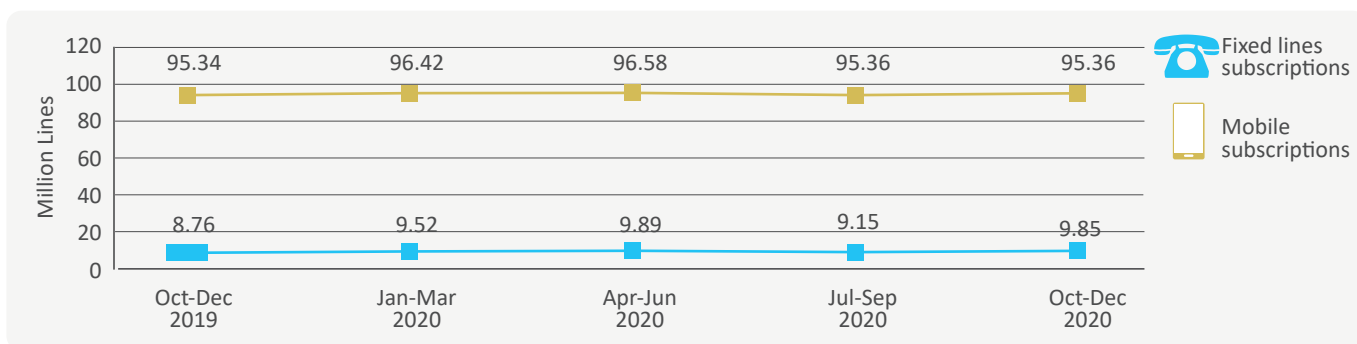
ICT Sector's Infrastructure Indicators

- Mobile subscriptions (October - December 2020): 95.357 million
- Mobile penetration (October - December 2020): 93.65%
- Fixed line subscriptions (October - December 2020): 9.85 million
- Fixed line subscriptions in urban areas (October - December 2020): 7.83 million, rural areas 2.02 million
- Internet users through mobile (October - December 2020): 52.40 million
- USB Modem users(October - December 2020): 4.04 million users
- ADSL subscribers (October - December 2020): 8.81 million
- International Internet bandwidth (October - December 2019): 2,565.78 Gbps
- Number of post offices (October - December 2020): 4026 Post offices
- Number of beneficiaries of pension payment service through post offices (October - December 2020): 4.27 million beneficiaries



Fixed Lines and Mobile Subscriptions

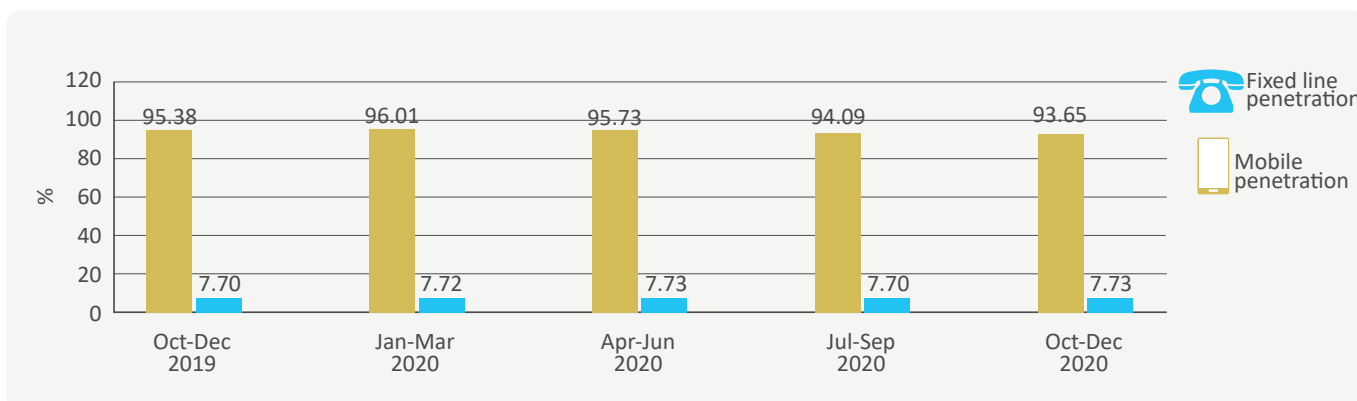
- The number of fixed line and mobile subscriptions was 105.21 million at the end of October - December 2020, compared to 104.10 million at the end of October - December 2019.
- The number of mobile subscriptions was 95.357 million at the end of October - December 2020, compared to 95.340 million at the end of October - December 2019. The mobile subscriptions recorded 91% of total telephone service.



Source: Ministry of Communications and Information Technology, Telecom Egypt

Fixed Line and Mobile Penetration

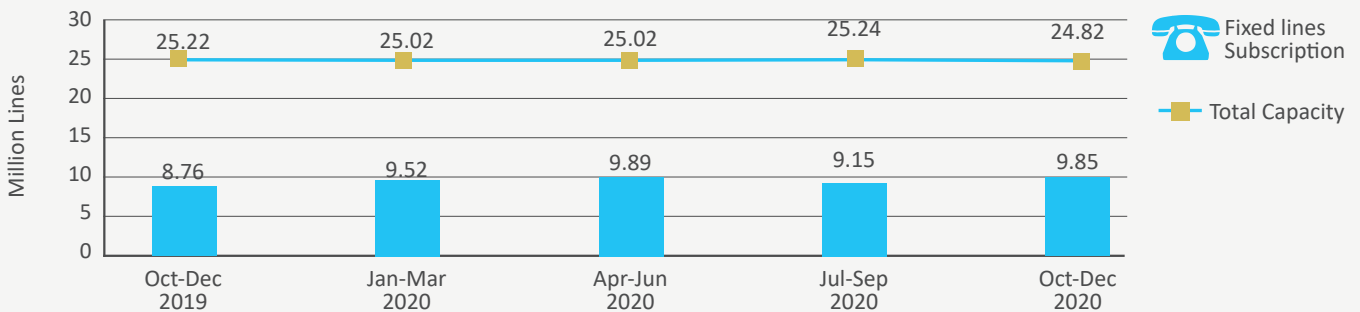
- Mobile penetration reached 93.65% at the end of October - December 2020, compared to 95.38% at the end of October - December 2019, representing an annual change rate of -1.72% . On the other hand, fixed line penetration reached about 7.73% by the end of October - December 2020.



Source: Ministry of Communications and Information Technology, Telecom Egypt

Fixed Lines Subscription and Local Exchange Capacity

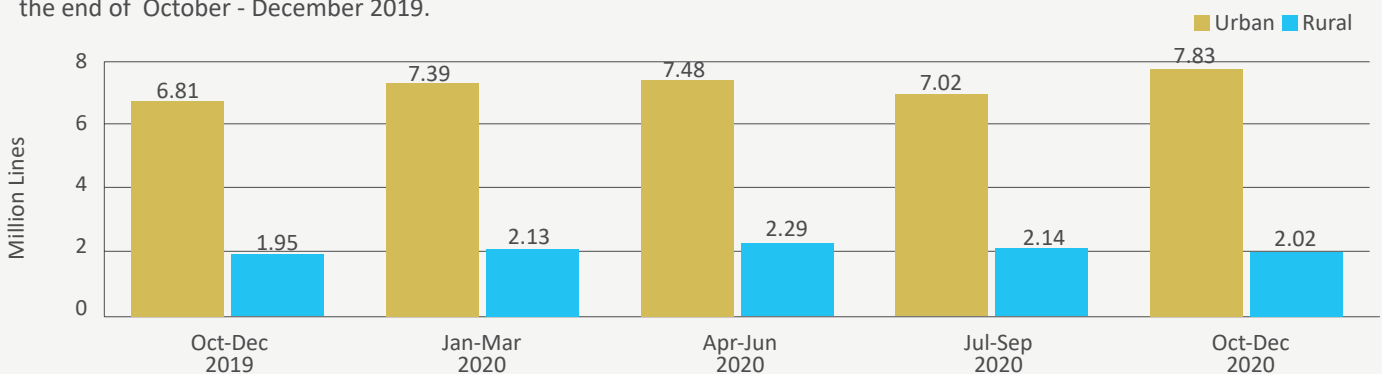
- Total number of fixed line subscriptions has reached 9.85 million subscriptions at the end of October - December 2020, compared to 8.76 million subscriptions at the end of October - December 2019.
- The capacity of local exchanges increased to 24.82 million lines at the end of October - December 2020, compared to 25.22 million at the end of October - December 2019. This represents an annual change of -0.40 million lines and an annual change rate of -1.59%.



Source: Ministry of Communications and Information Technology, Telecom Egypt

Fixed Lines Subscription (Urban - Rural)

- The number of fixed line subscribers in urban areas reached 7.83 million subscribers by the end of October - December 2020, compared to 6.81 million subscribers by the end of October - December 2019, while the number of fixed line subscribers in rural areas reached 2.02 million subscribers by the end of October - December 2020, compared to 1.95 million subscribers by the end of October - December 2019.

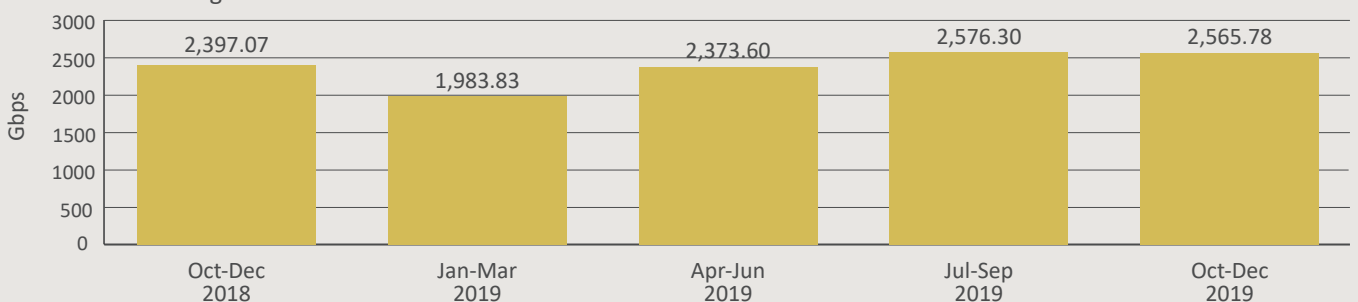


Source: Ministry of Communications and Information Technology, Telecom Egypt



International Internet Bandwidth

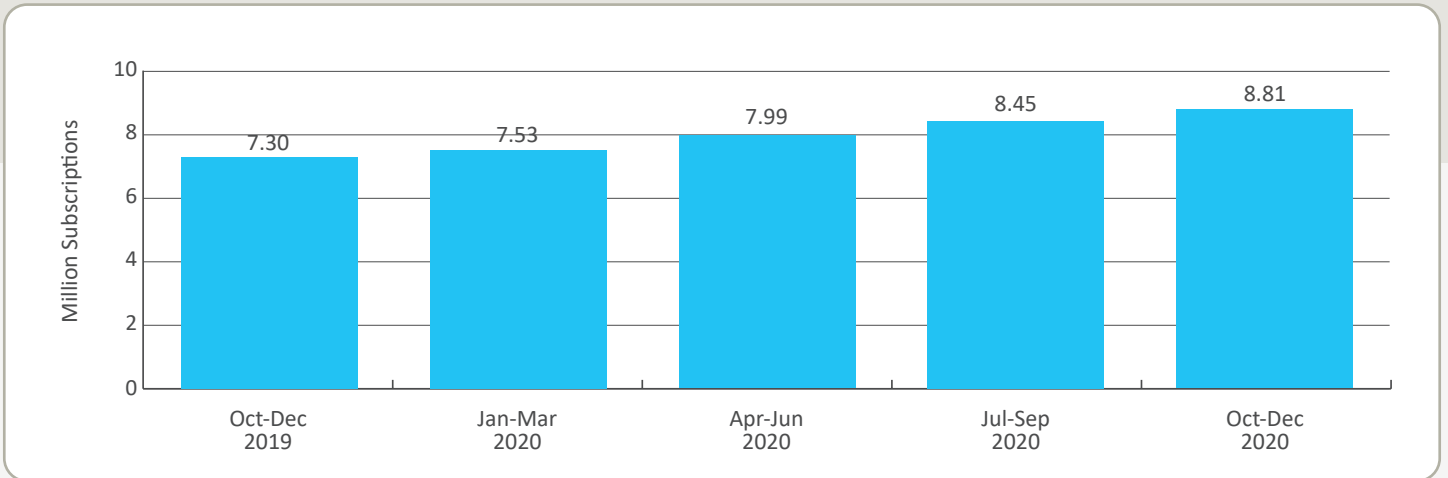
- International Internet bandwidth increased to 2,565.78 Gbps at the end of October -December 2019, compared to 2,397.07 Gbps at the end of October – December 2018, representing an annual growth rate of 7.04%.
- The international Internet bandwidth per inhabitants reached 25,315.04 bit/sec. per person at the end of October – December 2020, compared to 24,092.33 bit/sec. per person at the end October – December 2018, scoring an annual growth rate of 5.08%.



Source: Ministry of Communications and Information Technology, National Telecom Regulatory Authority

ADSL Subscriptions

- The number of ADSL subscriptions reached 8.81 million by the end of October - December 2020, compared to 7.30 million at the end of October - December 2019, with an annual change of 1.52 million and an annual change rate of 20.8 %.

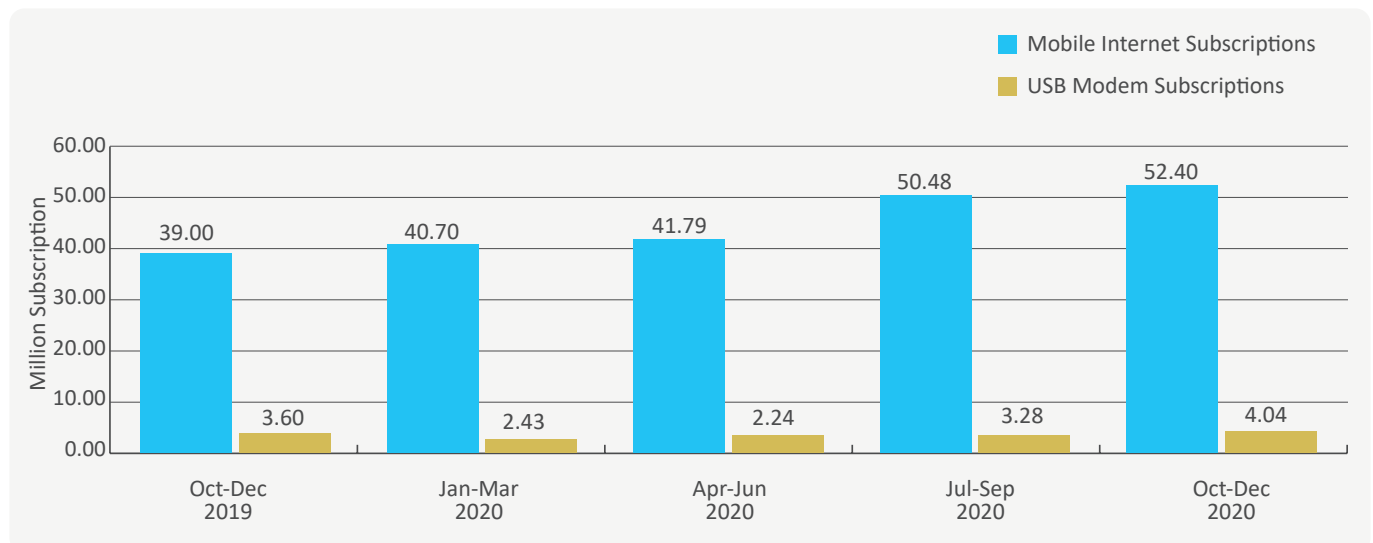


Source: Ministry of Communications and Information Technology



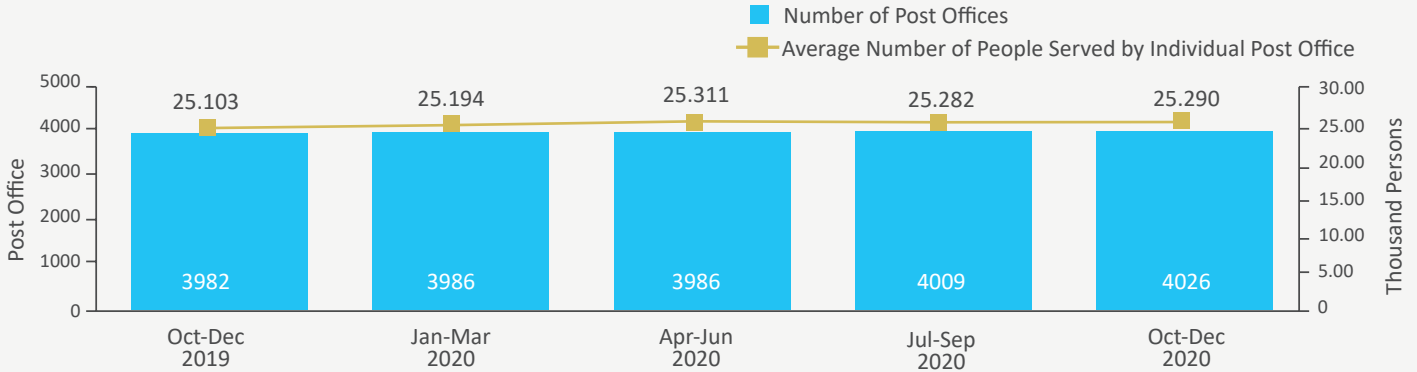
Mobile Internet and USB Modem Subscriptions

- The number of mobile Internet subscriptions reached 52.40 million by the end of October – December 2019, compared to 39.00 million at the end of October – December 2018.
- The number of USB Modem subscriptions reached 4.04 million by the end of October – December 2019, compared to 3.60 million at the end of October – December 2018.



Source: Ministry of Communications and Information Technology

- The total number of post offices increased to 4,026 at the end of October - December 2020, compared to 3,982 at the end of October - December 2019, reflecting an annual growth rate of 1.10%.
- The average number of people served by individual post offices was 25,290 thousand persons at the end of October - December 2020, compared to 25,103 thousand persons at the end of October - December 2019, representing an annual growth rate of 0.75%.



Source: Ministry of Communications and Information Technology, Egypt Post

Number of Pensions Distributed through Post Offices

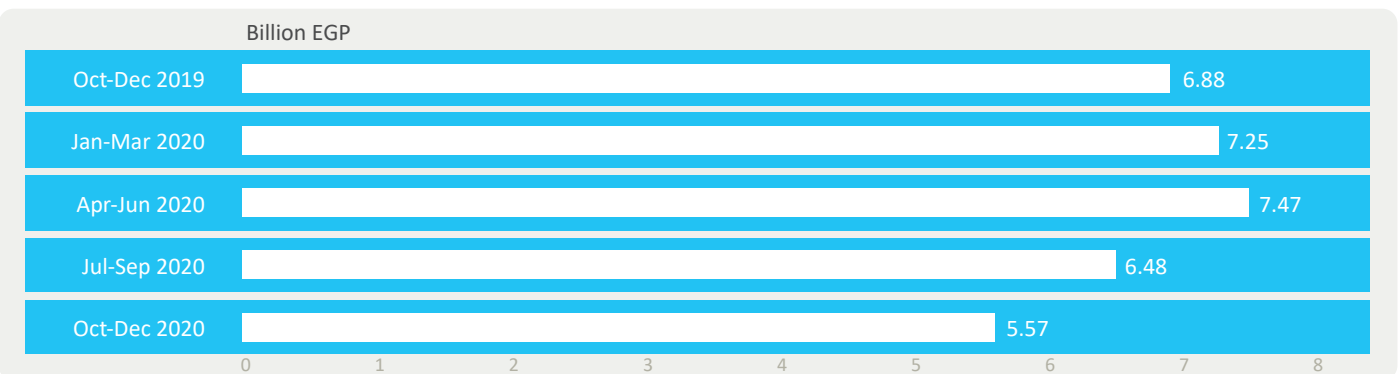
- Number of beneficiaries of pensions distributed through postal offices has increased to about 4.27 million in October - December 2020, compared to 5.52 million in October - December 2019.



Source: Ministry of Communications and Information Technology, Egypt Post

Value of Pensions Distributed through Post Offices

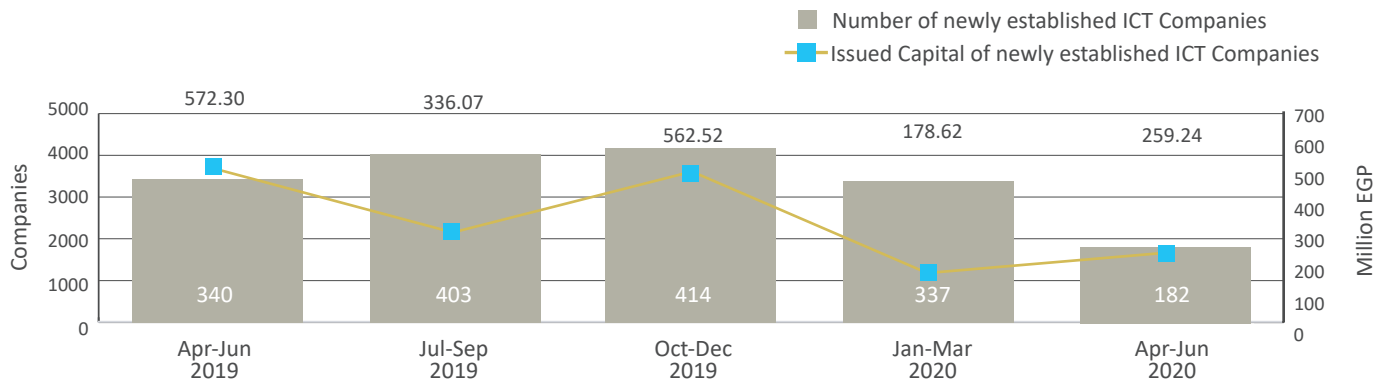
- The value of pensions distributed through postal offices reached EGP 5.57 billion in October - December 2020, compared to EGP 6.88 billion in October - December 2019.



Source: Ministry of Communications and Information Technology, Egypt Post

Number of Newly Established ICT Companies and Issued Capital

- The number of newly established ICT companies reached 182 in April – June 2020, compared to 340 companies in April – June 2019.
- The value of issued capital of newly established ICT companies reached EGP 259.24 million in April – June 2020, compared to EGP 572.30 million in April – June 2019.

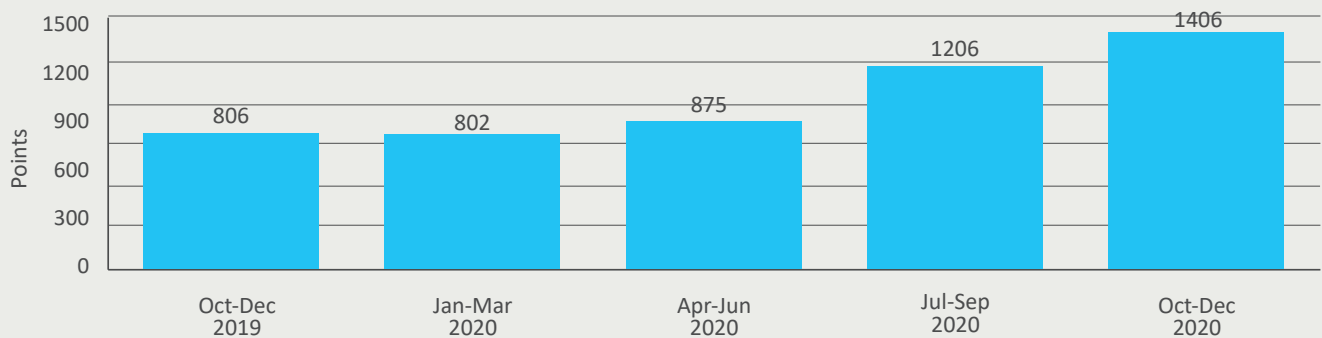


Source: Ministry of Investment, General Authority for Investment and Free Zones



Egypt's Stock Exchange Telecommunications Index *

- The Telecommunications Index of Egypt's Stock Exchange reached 1406 points during October - December 2020, compared to 806 points during October - December 2019.



The IT, Media and Communication Services Index includes five companies: Raya Contact Center, Fawry for Banking Technology and Electronic Payment, Egyptian Satellites (NileSat), Egyptian Media Production City and Telecom Egypt.

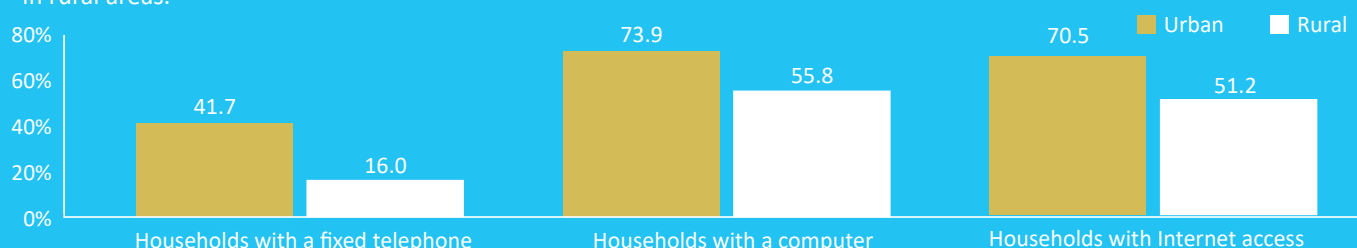
Source: Egypt's Stock Exchange

The ICT Sector's Role in Development

- Proportion of households owning computers in urban areas: 73.9%
- Proportion of households accessing Internet from home in urban areas: 70.5%
- Proportion of households with fixed (wired) broadband in urban areas: 59%
- Proportion of households with mobile broadband in urban areas: 52.9%
- Proportion of households owning computers in rural areas: 55.8%
- Proportion of households accessing Internet from home in rural areas: 51.2%
- Number of graduates to receive software training by ITIDA till December 2020: 28,470 thousand trainees
- Number of graduates of ITI till September 2019: 13.99 thousand trainees.

Infrastructure for the Use of Communications and Information Technology in Egyptian Household

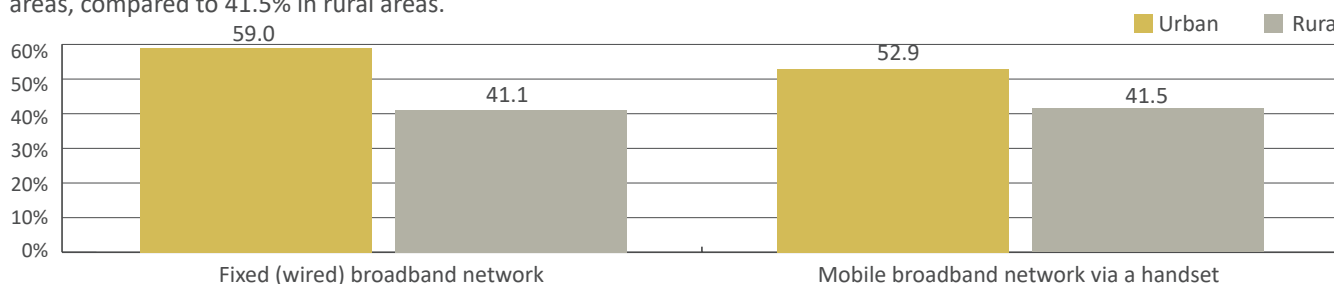
- By comparing the uses of ICT tools in Egyptian households in urban and rural areas, the percentage of households that own a fixed phone was 41.7% in urban areas, compared to 16% in rural areas, while households that own a computer were 73.9% in urban areas, compared to 55.8% in rural areas. The use of Internet from home was 70.5% in urban areas, compared to 51.2% in rural areas.



Source: Survey of "ICT usage in households and individuals", conducted by the Ministry of Communications and Information Technology (MCIT) in cooperation with the Central Agency for Public Mobilization and Statistics (CAPMAS), 2019/2020.

Households Internet Access at Home by Type of Access Mode

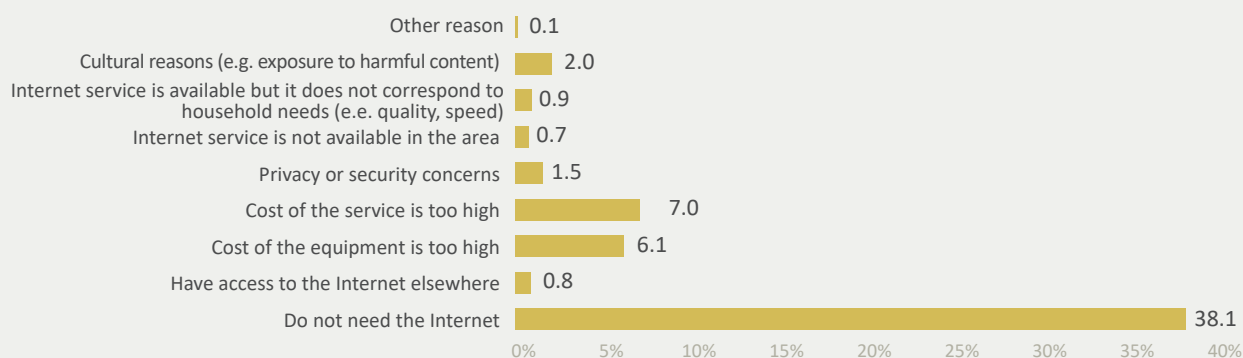
- Comparing the percentages of Egyptian families connected to Internet from home according to the means of communication at urban and rural areas, the percentage of households using fixed (wired) broadband network in urban areas was 59%, compared to 41.1% in rural areas, followed by 52.9% of households using mobile broadband network via a handset in urban areas, compared to 41.5% in rural areas.



Source: Survey of "ICT usage in households and individuals", conducted by the Ministry of Communications and Information Technology (MCIT) in cooperation with the Central Agency for Public Mobilization and Statistics (CAPMAS), 2019/2020.

Reasons for Not Having Internet Access

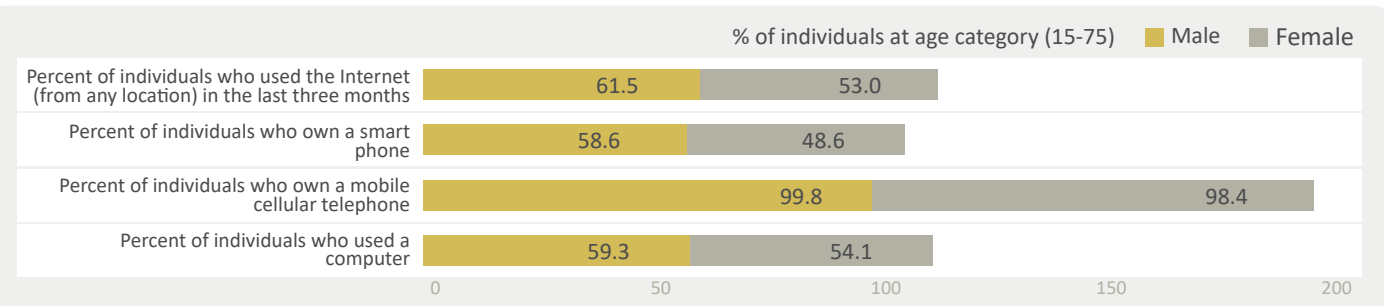
- One of the most important reasons of not using Internet from home is that families do not need Internet from home by 38%, followed by the high cost of service and equipment cost, 7% and 6.1% respectively. Other reasons range from 0.1 to 2%.



Source: Survey of "ICT usage in households and individuals", conducted by the Ministry of Communications and Information Technology (MCIT) in cooperation with the Central Agency for Public Mobilization and Statistics (CAPMAS), 2019/2020.

ICT usage for individuals by gender

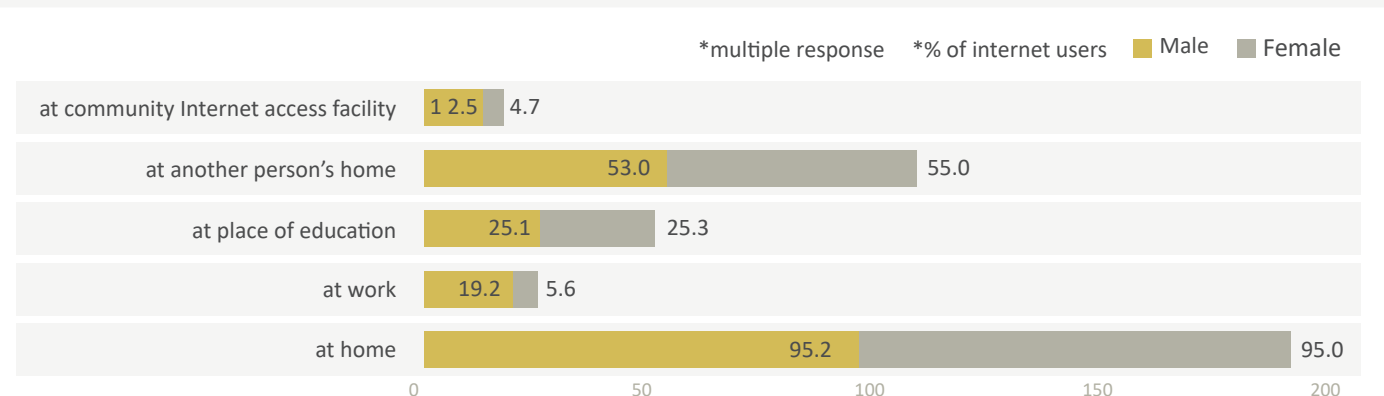
- By comparing the uses of communications and information technology of Internet users, we found that the uses of males are superior to that of females. The percentage of computer use was 59.3% for males, compared to 54.1% for females; Internet usage was 61.5% for males, compared to 53% for females; and owning a smart phone was 58.6% for males compared to 48.6% for females, while the rates of usage were close in the indicator of mobile ownership between males and females, with 99.8% and 98.4% respectively.



Source: Survey of "ICT usage in households and individuals", conducted by the Ministry of Communications and Information Technology (MCIT) in cooperation with the Central Agency for Public Mobilization and Statistics (CAPMAS), 2019/2020.

Individuals Who Used Internet in Last Three Months by Location of Use % of Internet Users by Gender

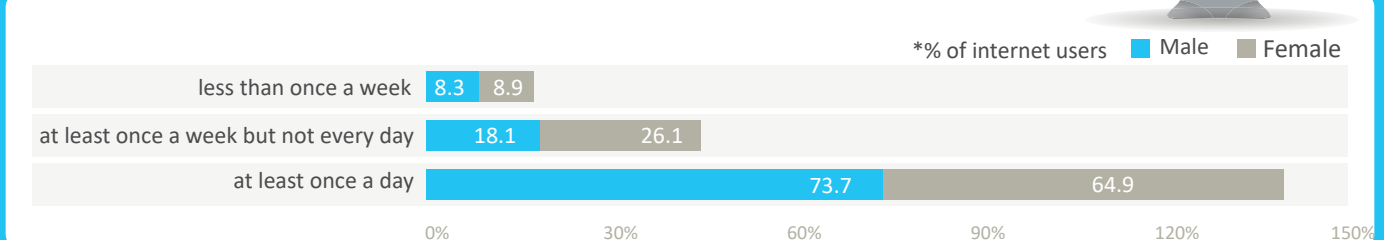
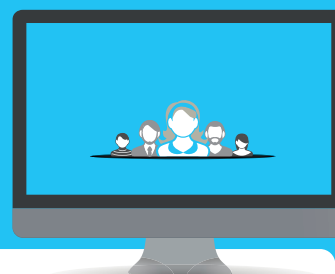
- By comparing the places where people use Internet, we found that the ratios between males and females are similar in some indicators. The percentage of Internet usage from home was 95.2% for males, compared to 95% for females; the percentage of usage through educational institutions was 25.1% for males, compared to 25.3% for females, and the percentage of usage through neighbors or friends was 53% for males, compared to 55% for females. The percentages vary from males to females in the indicator of using Internet from workplace, 19.2% for males, compared to 5.6% for females, and the indicator of using Internet at community Internet access facility is 12.5% for males, compared to 4.7% for females.



Source: Survey of "ICT usage in households and individuals", conducted by the Ministry of Communications and Information Technology (MCIT) in cooperation with the Central Agency for Public Mobilization and Statistics (CAPMAS), 2019/2020.

Individuals Who Used the Internet (From any location) in the Last Three Months, by Frequency % of Internet Users by Gender

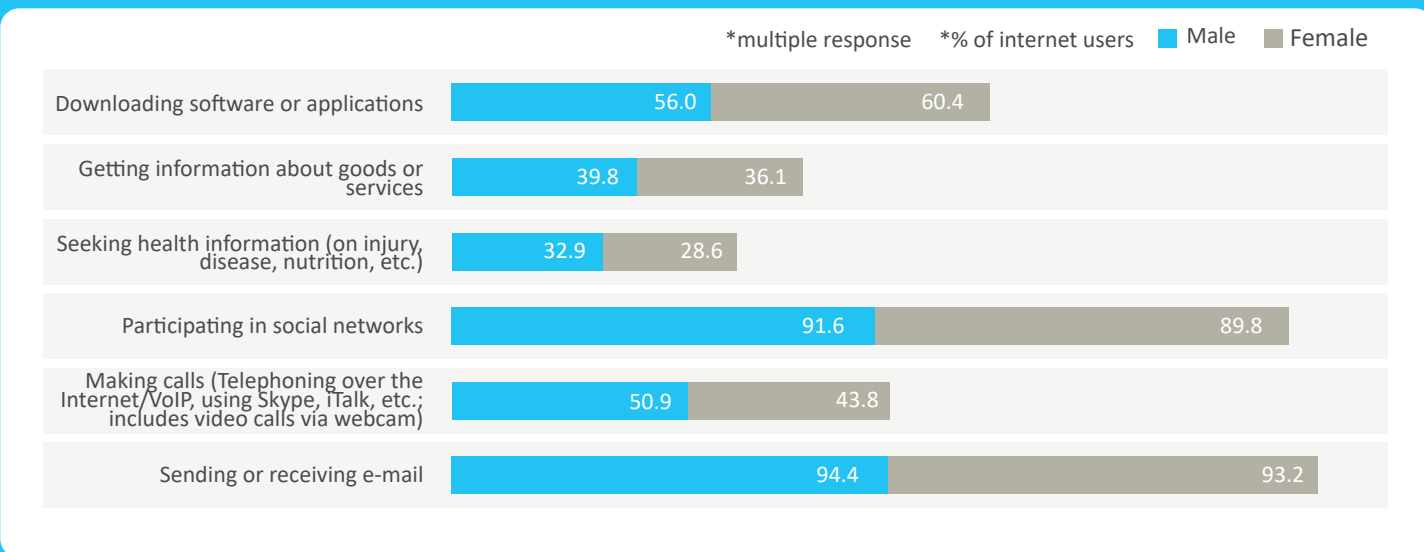
- By comparing the frequencies of dealing with Internet between male and female, the indicator of dealing with Internet on daily basis was 73.7% for males, compared to 64.9% for females. While the percentage of dealing on weekly basis was 18.1% for males, compared to 26.1% for females, while dealing less than once a week was the least 8.3% for males, versus 8.9% for females.



Source: Survey of "ICT usage in households and individuals", conducted by the Ministry of Communications and Information Technology (MCIT) in cooperation with the Central Agency for Public Mobilization and Statistics (CAPMAS), 2019/2020.

Individuals Who Used Internet in Last Three Months by Type of Activity % of Internet Users by Gender

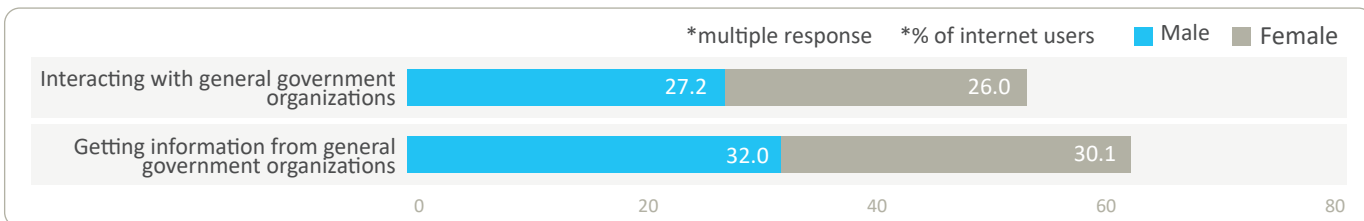
- Comparison of Internet usage between males and females: Sending and receiving e-mails came in first place, 94.4% for males, compared to 93.2 for females; the social media participation indicator was 91.6% for males, compared to 89.8 for females, followed by downloading programs and applications, 56% for males, compared to 60.4% for females; and making Internet calls, 50.9% for males, compared to 43.8 for females. Finally, obtaining information on goods and services is 39.8% for males, compared to 36.1% for females, and searching for health information is 32.9% for males, compared to 28.6 for females.



Source: Survey of "ICT usage in households and individuals", conducted by the Ministry of Communications and Information Technology (MCIT) in cooperation with the Central Agency for Public Mobilization and Statistics (CAPMAS), 2019/2020.

E-government Fields

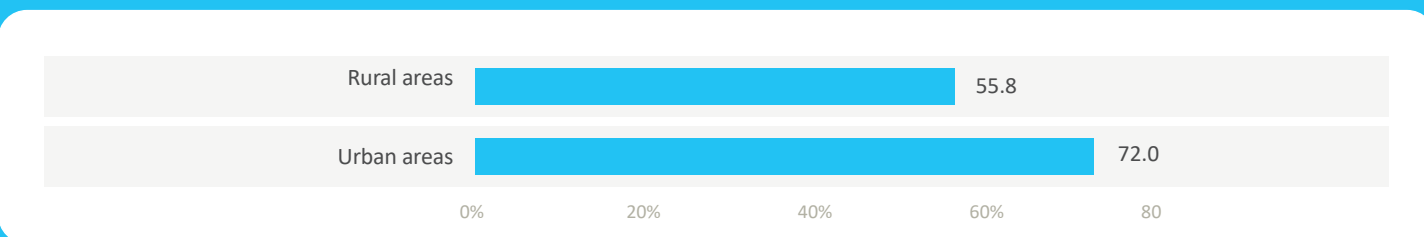
- By comparing the use of e-government between males and females, we found a convergence in the percentages of usage between males and females. The indicator of obtaining information from general government agencies was 32% for males, compared to 30.1% for females, followed by dealing with government institutions via Internet, 27.2% for males, compared to 26% for females.



Source: Survey of "ICT usage in households and individuals", conducted by the Ministry of Communications and Information Technology (MCIT) in cooperation with the Central Agency for Public Mobilization and Statistics (CAPMAS), 2019/2020.

Households with Computer According to (Urban/Rural)

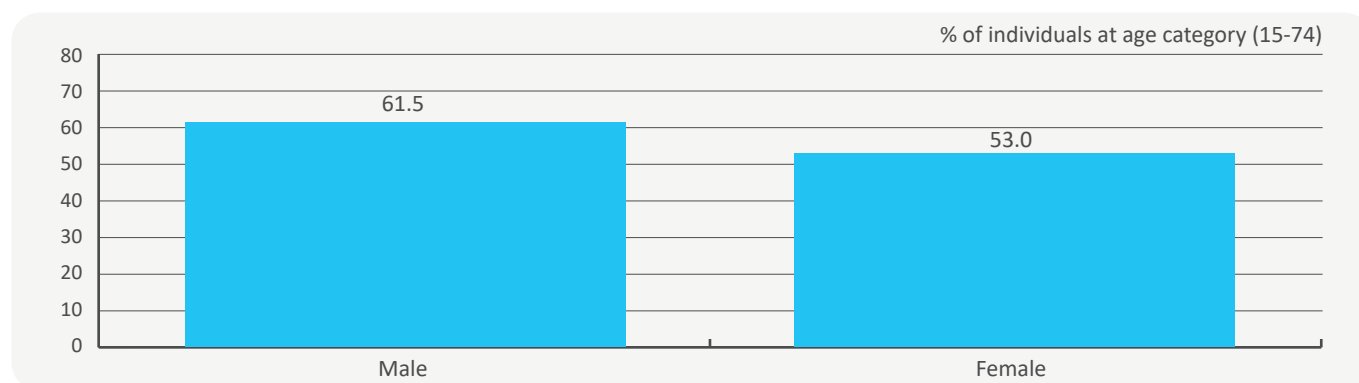
- The proportion of households with computer in urban areas is 72%, while the proportion of household in rural areas is 55.8%.



Source: Survey of "ICT usage in households and individuals", conducted by the Ministry of Communications and Information Technology (MCIT) in cooperation with the Central Agency for Public Mobilization and Statistics (CAPMAS), 2019/2020.

Internet Using According to Gender

- The proportion of males who use Internet is 61.5%, while the proportion of females is 53%.



Source: Survey of “ICT usage in households and individuals”, conducted by the Ministry of Communications and Information Technology (MCIT) in cooperation with the Central Agency for Public Mobilization and Statistics (CAPMAS), 2019/2020.

Number of Graduates of Capacity Building Program Provided by Information Technology Institute (ITI)

Training Track	Graduates
Professional Web Development & BI	166
Open Source Development	116
Mobile Applications Development	80
Embedded Systems	56
Enterprise and Web Applications Development	47
Systems Administration	30
Software Testing and Quality Assurance	30
User Interface Development	26
Cloud Platform Development	22
Software Architecture	20
Wireless Communications	19
Web and User Interface Development	17
Geoinformatics	17
3D Art	16
Cloud Architecture	16
Civil Engineering Informatics	16
2D Animation and Motion Graphics	16
IOT Applications Development	16
Cyber Security	16
VFX and Compositing	15
Mechatronics	15
ERP Consulting	15
Data Science	15
Telecom Applications Development	15
Game Art	14
Industrial Automation	13
Data Management	13
Digital IC Design	12
Game Programming	12
Grand Total	881

Source: Ministry of Communications and Information Technology - Information Technology Institute.

*According to the latest figures.

ICT Sector's Infrastructure Indicators

- Mobile subscribers reached 95.357 million in October - December 2020, compared to 95.340 million in October - December 2019, representing an annual change rate of 0.018%.
- Mobile penetration reached 93.65 % in October - December 2020, compared to 95.38% in October - December 2019, representing an annual change rate of -1.72%.
- ADSL subscribers increased to 8.81 million in October - December 2020, compared to 7.30 million in October - December 2019, representing an annual change rate of 20.8%.

ICT Sector's Role in Development

- Proportion of households owning computers in urban areas is 73.9%, while the proportion of households owning computers in rural areas is 55.8%.
- The proportion of males using Internet reached 61.5%, while the proportion of females reached 53%.
- The proportion of males using Internet for sending and receiving emails reached 94.4%, while the proportion of females reached 93.2%.
- The number of ITI graduates till October - December 2020 reached 13.99 thousand trainees.
- The number of graduates to receive software training till October - December 2020 was 28,470 thousand graduates.