



Arab Republic of Egypt  
Ministry of Communications  
and Information Technology

# Information and Communications Technology Indicators Bulletin

March 2017 | Quarterly Issue



■ ICT Sector's Infrastructure Indicators

■ ICT Sector's Role in Development

## Indicators in Brief

Data item	Unit	Jan. - Mar. 2016	Oct.-Dec. 2016	Jan. - Mar. 2017	Quarterly Growth Rate (%)	Annual Growth Rate (%)
<b>ICT Sector: Infrastructure Indicators</b>						
Mobile Subscriptions	Million	95.26	97.79	99.91	2.17	4.89
Mobile Penetration	%	108.33	109.73	111.61	1.88	3.28
Fixed Line Subscriptions	Million	5.90	6.12	6.22	1.59	5.31
Fixed Line Penetration	%	6.81	7.19	7.23	0.04	0.42
Mobile Internet Subscriptions	Million	25.88	28.65	30.45	6.28	17.65
USB Modem Subscriptions	Million	3.52	3.28	3.30	0.59	-6.20
ADSL Subscribers	Million	4.00	4.44	4.49	1.05	12.1
International Internet Bandwidth	Gbps	829.77	1.134.25	1.204.14	6.16	45.12
Number of Post Offices	Post office	3924	3931	3938	0.18	0.36
<b>ICT Sector's Role in Development</b>						
Capacity Building Program Provided by ITIDA	Thousand Graduates	19.44	20.29	20.64	1.72	6.17

\* Growth rates are calculated as the difference between penetration rates in different time intervals.

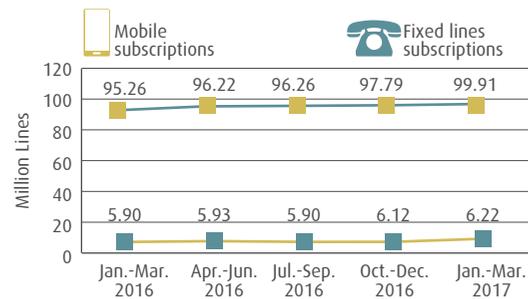
- The number of internet users reached 29.8 million users with 37.8% penetration rate according to ICT access and use by households and individuals 2015/2016
- The number of telecenters reached 77 telecenters

## ICT Sector's Infrastructure Indicators

- Mobile subscriptions (January - March 2017): 99.91 million
- Mobile penetration (January - March 2017): 111.61%
- Fixed line subscriptions (January - March 2017): 6.22 million
- Fixed line subscriptions in urban areas (January - March 2017): 5.14 million, rural areas 1.08 million
- Internet users through mobile (January - March 2017): 30.45 million
- USB Modem users (January - March 2017): 3.30 million users
- ADSL subscribers (January - March 2017): 4.49 million
- International Internet bandwidth (January - March 2017): 1,204.14 Gbps
- Number of post offices (January - March 2017): 3938 Post offices
- Number of Beneficiaries of Pensions' Payment Service through post offices (January - March 2017): 5.32 million beneficiary

### Fixed Lines and Mobile Subscriptions

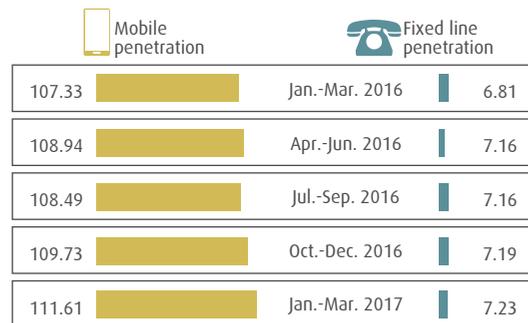
- The number of fixed line and mobile subscriptions was 106.13 million at the end of January - March 2017, compared to 101.16 million at the end of January - March 2016.
- The number of mobile subscriptions was 99.91 million at the end of January - March 2017, compared to 95.26 million at the end of January - March 2016. The mobile subscriptions recorded 94% of total telephone service.



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

### Fixed Line and Mobile Penetration

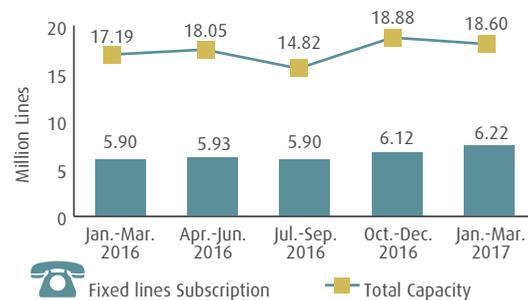
- Mobile penetration reached 111.61% at the end of January - March 2017, compared to 108.33% at the end of January - March 2016, representing an annual change rate of 3.28%. On the other hand, fixed line penetration reached about 7.23% by the end of January - March 2017.



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

### Fixed Line Subscription and Local Exchange Capacity

- Total number of fixed line subscriptions has reached 6.22 million subscriptions at the end of January - March 2017 compared to 5.90 million subscriptions at the end of January - March 2016.
- The capacity of local exchanges increased to 18.60 million lines at the end of January - March 2017, compared to 17.19 million at the end of January - March 2016. This represents an annual change of 1.41 million lines and an annual change rate of 8.19%.



Source: Ministry of Communications and Information Technology, Telecom Egypt



### International Internet Bandwidth

- International Internet bandwidth increased to 1,204.14 Gbps at the end of January - March 2017, compared to 829.77 Gbps at the end of January - March 2016 representing an annual growth rate of 45.12%.
- The international internet bandwidth per inhabitants reached 13451.60 bit/sec. per person at the end of January - March 2017 compared to 9436.74 bit/sec. per person at the end of January - March 2016 with an annual growth rate of 42.55%.



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

### ADSL Subscriptions

- The number of ADSL subscriptions reached 4.49 million subscriptions by the end of January - March 2017 compared to 4.00 million subscriptions at the end of January - March 2016 with an annual change of 0.48 million and annual change rate 12.1%.



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



### Mobile Internet and USB Modem Subscriptions

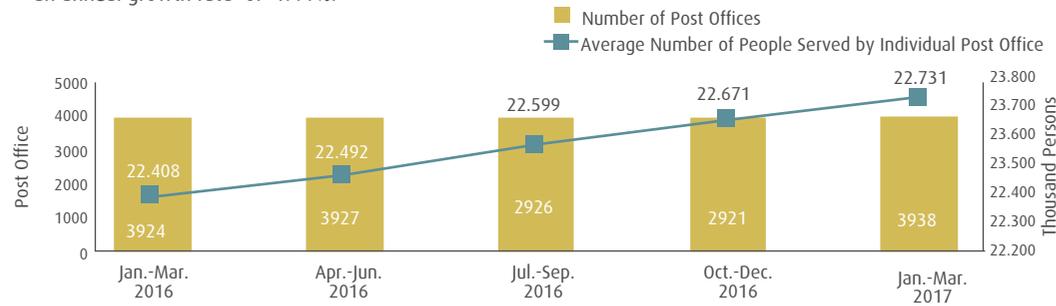
- The number of mobile internet subscriptions reached 30.45 million subscriptions by the end of January - March 2017, compared to 25.88 million subscriptions at the end of January - March 2016.
- The number of USB Modem subscriptions reached 3.30 million subscriptions by the end of January - March 2017 compared to 3.52 million subscriptions at the end of January - March 2016.



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

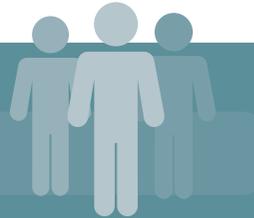
## Post Offices

- The total number of post offices increased to 3938 at the end of January - March 2017, compared to 3924 at the end of January - March 2016, reflecting an annual growth rate of 0.36%.
- The average number of people served by individual post offices was 22,731 thousand persons at the end of January - March 2017, compared to 22,408 thousand persons at the end of January - March 2016, representing an annual growth rate of 1.44%.

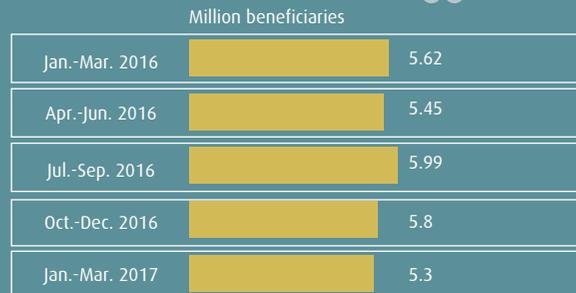


Source: Ministry of Communications and Information Technology, Egypt Post

## Number of Pensions Distributed through Postal Offices



- Number of beneficiaries of pensions distributed through postal offices has increased to about 5.3 million beneficiaries in January - March 2017, compared to about 5.62 million beneficiaries in January - March 2016 with an annual change rate of -5.69



Source: Ministry of Communications and Information Technology, Egypt Post

## Number of Newly Established ICT Companies and Issued Capital

- Number of newly established ICT companies reached 121 companies in January - March 2017, compared to 239 companies in January - March 2016 with an increase of 19 companies.
- Number of issued capital of newly established ICT companies reached 183.77 million EGP in January - March 2017, compared to 79.66 million EGP in January - March 2016

		Jan.-Mar. 2016
Total number of newly established ICT companies	Companies	121
Total number of issued capital of newly established ICT companies	Million EGP	183.77

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

## ICT Services Prices

- The cost of ICT services in Egypt is the monthly cost in Egypt in January - March 2017 which was 0.90 USD for fixed lines\*, 1.25 USD for mobile services\*\* and USD 2.79 for Internet service\*\*\*.



Source: Ministry of Communications and Information Technology, Central Department for Information and Decision Support

Note: No actual decrease in any of telecom services' prices has been observed, and the changes in prices compared to previous quarters are attributed to Egyptian pound devaluation against US dollar due to currencies exchange liberation policy, and hence a change in the prices of telecom services amounted in dollars. It is worth mentioning that the new value added tax has been introduced to the figures.

\* The price for residential fixed line is calculated as the monthly subscription charge and the cost of local calls (15 peak and 15 off-peak calls of three minutes each).

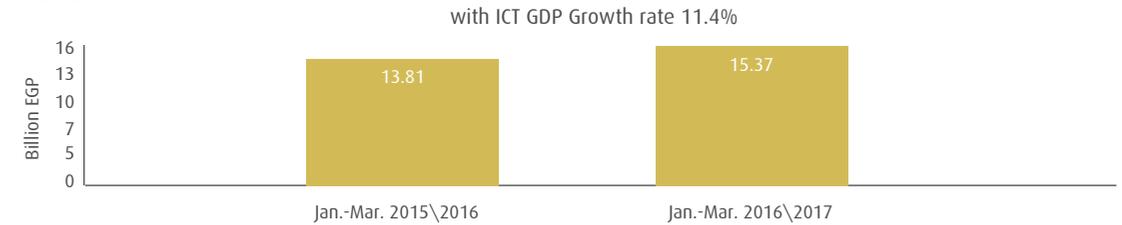
\*\* The mobile-cellular sub-basket refers to the price of a standard basket of mobile monthly usage for 30 outgoing calls per month (on-net/off-net to a fixed line and for peak and off-peak times), plus 100 SMS messages. It is calculated in USD. The mobile-cellular sub-basket is based on prepaid price of the most used package offered by the three mobile operators operating in Egypt.

\*\*\*The fixed-broadband sub-basket refers to the lowest price of a monthly subscription to an entry-level fixed-broadband plan of the operator with the largest market share. It is calculated in USD.



## ICT GDP at Fixed Prices

- ICT real GDP has realized around 15.37 billion EGP in the third quarter of 2016/2017, with a growth rate of about 11.4% compared to the corresponding quarter in 2015/2016, when ICT value added has reached around 13.81 billion EGP.\*

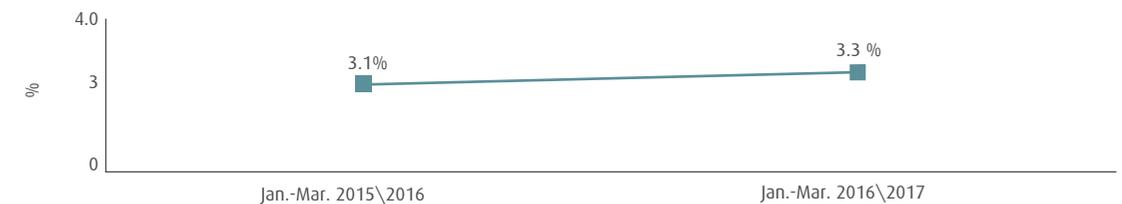


\* Value added of Electronic Design activity is not included in the figures, and hence its contribution after the addition. Electronic Design activity will be added to ICT GDP calculations and hence its resulting contribution in the annual bulletin of the year 2016/2017.

Source: Ministry of Communications and Information Technology - Central Department for Information and Decision Support

## ICT Contribution to Real GDP

- Egypt's ICT sector contribution to the country's real GDP has reached a ratio of 3.3% in the third quarter of 2016/2017, compared to 3.1% in the corresponding quarter of 2015/2016.\*



\* Value added of Electronic Design activity is not included in the figures, and hence its contribution after the addition. Electronic Design activity will be added to ICT GDP calculations and hence its resulting contribution in the annual bulletin of the year 2016/2017.

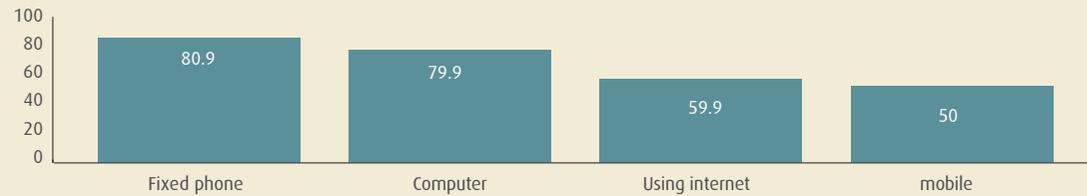
Source: Ministry of Communications and Information Technology - Central Department for Information and Decision Support

# The ICT Sector's Role in Development

- Proportion of private sector enterprises using internet: 59.9%
- Proportion of private sector enterprises with LAN: 55.9%
- Proportion of private sector enterprises using computer in office business: 69.4%
- Proportion of private sector enterprises using internet in getting information about goods and services: 51.7%
- Proportion of private sector enterprises accessing the Internet using broadband: 58.4%
- Proportion of private sector enterprises dealing with e-commerce reached: 5.3%
- Proportion of private sector enterprises dealing with e-commerce reached: 17.5%
- Number of graduates to receive software training by ITIDA till September: 20.64 thousand trainees

## ICT Infrastructure in private sector enterprises

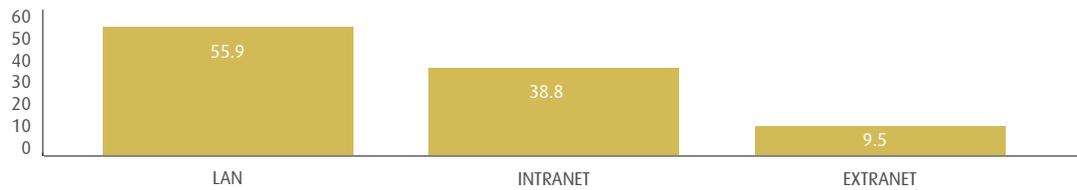
- The percentage of enterprises with (fixed phone) was 80.9%, followed by (computer) 79.9%, while (using Internet) and (mobile) were 59.9 %, 50% respectively.



Source: "Survey of ICT Usage in private Sector", conducted by the Ministry of Communications and Information Technology (MCIT) in cooperation with the Central Agency for Public Mobilization and Statistics (CAPMAS), 2016/2017.

## Enterprises by Type of Network

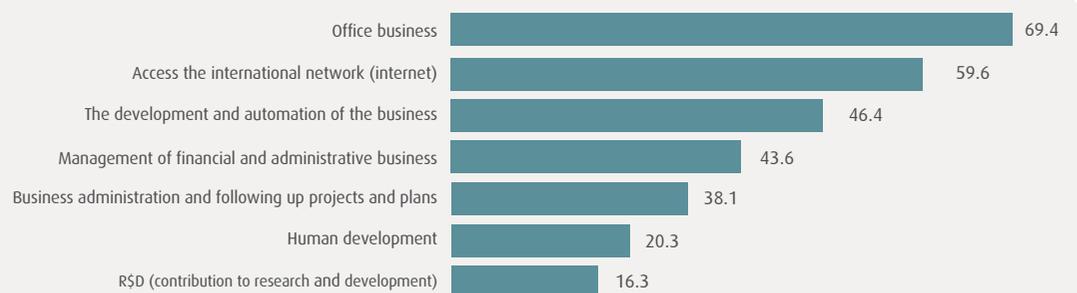
- The percentage of enterprises with (LAN) was 55.9 %, while enterprises with (INTRANET) was 38.8 % and with (EXTRANET) was 9.5%



Source: "Survey of ICT Usage in private Sector", conducted by the Ministry of Communications and Information Technology (MCIT) in cooperation with the Central Agency for Public Mobilization and Statistics (CAPMAS), 2016/2017.

## Activities Undertaken by Enterprises Using Computers

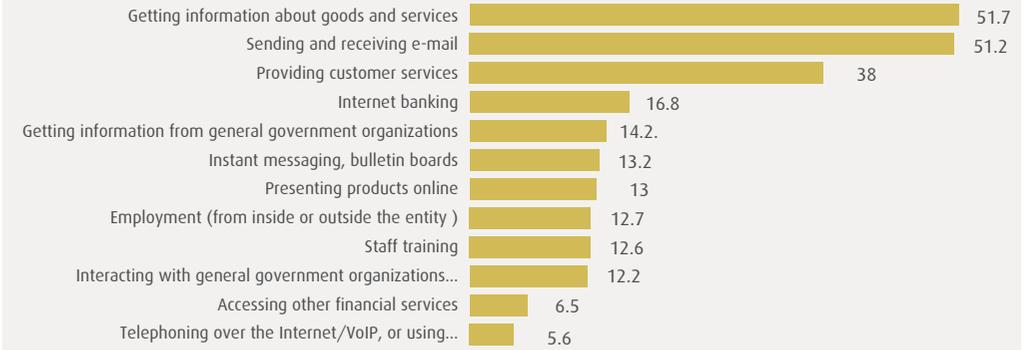
- The percentage of enterprises using computer to do (Office Business) was 69.4%, followed by (access the Internet) was 59.6%, while percentage of enterprises using it in (Management of Financial and Administrative Business) was 43.6 %, however using it for (Development and Automation of Business) was 46.4%, and 16.3% was for R&D.



Source: "Survey of ICT Usage in private Sector", conducted by the Ministry of Communications and Information Technology (MCIT) in cooperation with the Central Agency for Public Mobilization and Statistics (CAPMAS), 2016/2017.

## Activities Undertaken by Private Sector Enterprises Using Internet

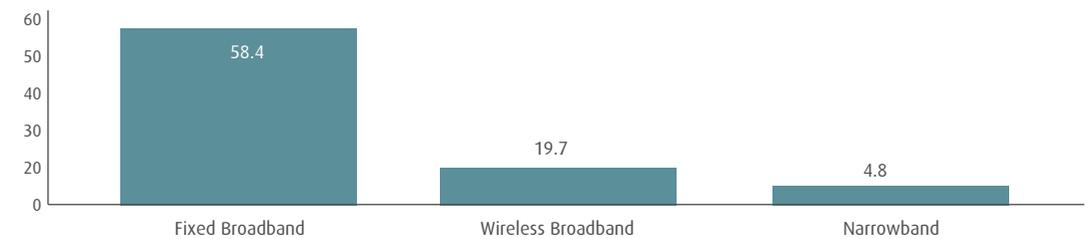
- The percentage of enterprises using Internet in (Getting information about goods and services) was 51.7%, followed by (sending and receiving e-mail) 51.2 %, while 38% of enterprises use the Internet in (providing customer services), for (Internet banking) was 16.8%, and 5.6% was for telephoning over the Internet/VoIP.



Source: "Survey of ICT Usage in private Sector", conducted by the Ministry of Communications and Information Technology (MCIT) in cooperation with the Central Agency for Public Mobilization and Statistics (CAPMAS), 2016/2017

## Enterprises Connected to Internet by Mode of Access

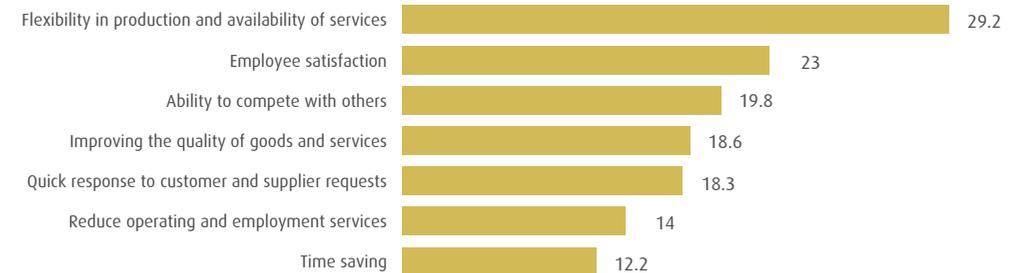
- The percentage of enterprises that access the Internet using (Fixed Broadband) was 58.4%, while by (wireless broadband) was 19.7%, and by (narrowband) was 4.8 %.



Source: "Survey of ICT Usage in private Sector", conducted by the Ministry of Communications and Information Technology (MCIT) in cooperation with the Central Agency for Public Mobilization and Statistics (CAPMAS), 2016/2017.

## ICT Usage Impact on Private Sector

- The percentage of enterprises who consider that using ICT has an impact in (time saving) was 29.2%, followed by (reduce operating and employment services) was 23%, while (quick response to customer and supplier requests) was 19.8%, and in (flexibility in production and availability of services) was 12.2%



Source: "Survey of ICT Usage in private Sector", conducted by the Ministry of Communications and Information Technology (MCIT) in cooperation with the Central Agency for Public Mobilization and Statistics (CAPMAS), 2016/2017.

## Enterprises Dealing with e-Government & e-Commerce

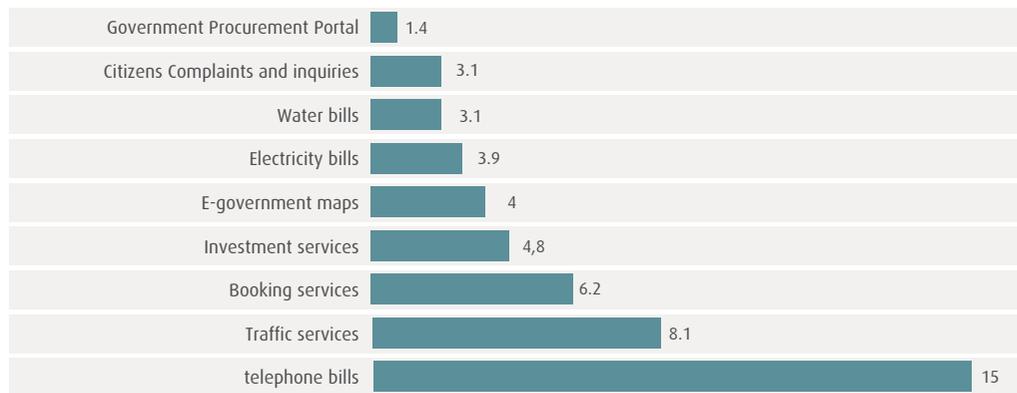
- The percentage of enterprises dealing with e-government reached 17.5%, while the enterprises dealing with e-commerce reached 5.3%.



Source: «Survey of ICT Usage in private Sector», conducted by the Ministry of Communications and Information Technology (MCIT) in cooperation with the Central Agency for Public Mobilization and Statistics (CAPMAS), 2017/2016

### e-Government Fields

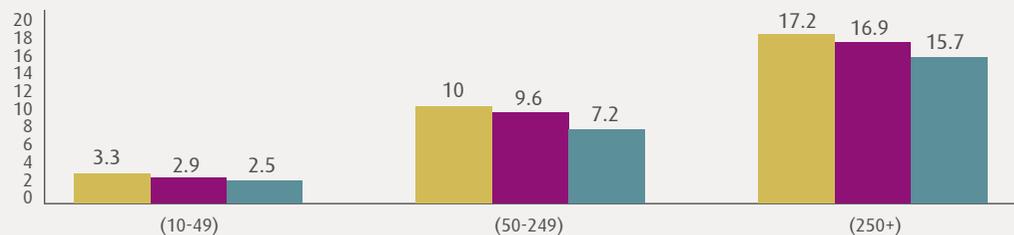
- The percentage of enterprises dealing with e-government for paying (telephone bills) was 15%, followed by (traffic services) was 8.1, while for (booking services) was 6.2% and for (investment services) was 4.8%.



Source: «Survey of ICT Usage in private Sector», conducted by the Ministry of Communications and Information Technology (MCIT) in cooperation with the Central Agency for Public Mobilization and Statistics (CAPMAS), 2016/2017.

### Dealing with e-Commerce according to Business Size

- The percentage of enterprises dealing with e-commerce according to business size (10 to 49) was (3.3%), compared by (10%) in the business (50 to 249) and (17.2%) in business size (250+)
- The percentage of enterprises who making sales online by business size (10 to 49) was (2.9%), compared by (9.6%) for business size (50-249) while the proportion of business size more than 250 was 16.9%.
- The percentage of enterprises dealing with e-commerce and making purchases by business size from (10 to 49) was (about 2.5%), while the business size from 50 to 249 reached (7.2%) and 15.7% in business size of more than 250.

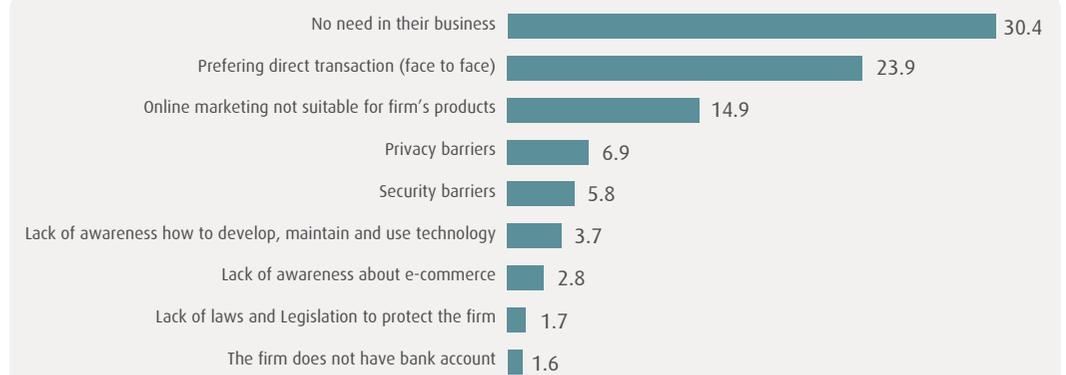


\*Source: «Survey of ICT Usage in private Sector», conducted by the Ministry of Communications and Information Technology (MCIT) in cooperation with the Central Agency for Public Mobilization and Statistics (CAPMAS), 2016/2017.

### Reasons for not Using e-Commerce

- The most reasons for not using e-commerce:

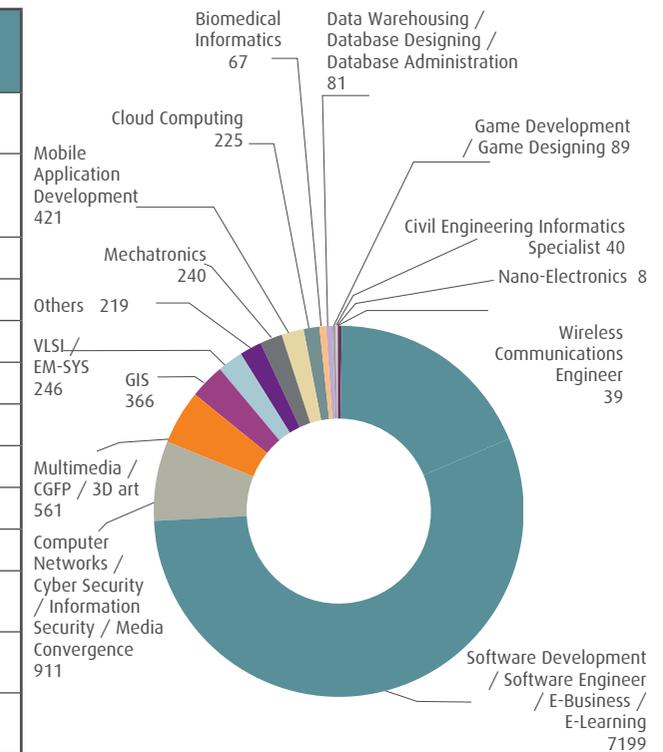
(No need in their business) was 30.4%, followed by (preferring direct transaction (face to face) was 23.9%, while (online marketing not suitable for firm's products) was 14.9%, and (the firm does not have bank account) was 1.6%.



\*Source: «Survey of ICT Usage in private Sector», conducted by the Ministry of Communications and Information Technology (MCIT) in cooperation with the Central Agency for Public Mobilization and Statistics (CAPMAS), 2016/2017.

### Capacity Building Program Provided by Information Technology Institute (ITI)

Training Track	2015	2016
Software Development / Software Engineer / e-Business / e-Learning	6672	7199
Computer Networks / Cyber Security / Information Security / Media Convergence	829	911
Multimedia / CGFP	520	561
GIS	354	366
VLSI / EM-SYS	246	246
Others	219	219
Mechatronics	224	240
Mobile Application Development	348	421
Cloud Computing	198	225
Biomedical Informatics	67	67
Data Warehousing / Database Designing / Database Administration	66	81
Game Development / Game Designing	68	89
Civil Engineering Informatics Specialist	29	40
Wireless Communications Engineer	26	39
Nano-Electronics	8	8
<b>Total</b>	<b>9874</b>	<b>10712</b>



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

\*According to the latest figures.

## ICT Sector's Infrastructure Indicators

- Mobile subscribers increased to 99.91 million in January - March 2017, compared to 95.26 million in January - March 2016, representing an annual change rate of 4.89%.
- Mobile penetration reached 111.61 % in January - March 2017, compared to 108.33% in January - March 2016, representing an annual change rate of 3.28%.
- Mobile Internet subscriptions increased to 30.45 million in January - March 2017, compared to 25.88 million in January - March 2016, representing an annual change rate of 17.65 %.
- USB modem subscriptions increased to 3.30 million in January - March 2017 compared to 3.52 million in January - March 2016 representing an annual change rate of -6.20 %.
- ADSL subscribers increased to 4.49 million in January - March 2017, compared to 4.00 million in January - March 2016, representing an annual change rate of 12.1%.

## ICT Sectors Role in Development

- The percentage of private sector enterprises having computers reached 79.9% while the percentage of private sector enterprises having Intranet reached 38.8%.
- The percentage of private sector enterprises using computer in access the Internet reached 59.6 while the percentage of private sector enterprises using Internet for sending and receiving emails reached 51.2 %
- The percentage of private sector enterprises who consider that using ICT has an impact in time saving reached 29.2%.
- The number of graduates who receive software training till January - March 2017: 20.64 thousand graduates.