



Arab Republic of Egypt
Ministry of Communications
and Information Technology
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Information and Communications Technology Indicators Bulletin

March 2011 | Quarterly Issue

Main Infrastructure Indicators

Main Economic Indicators

ICT Sector's Role in Development

Data item	Unit	Q1 2010	Q4 2010	Q1 2011	Quarterly growth rate (%)	Annual growth rate (%)
ICT Sector: Infrastructure Indicators						
Mobile subscriptions	Millions	57.70	70.66	73.87	4.54	28.02
Mobile penetration *	%	74.85	90.44	94.13	3.69	19.28
Fixed line subscriptions	Millions	10.43	9.62	9.65	0.35	-742
Fixed line penetration *	%	13.46	12.24	12.22	-0.02	-1.24
Estimated Internet users	Millions	17.43	23.02	24.15	4.90	38.53
Internet penetration *	%	22.61	29.47	30.77	1.31	8.16
ADSL subscriptions	Millions	1.11	1.40	1.49	6.41	34.72
Proportion of internet broadband users of total internet users *	%	81.75	86.52	87.18	0.66	5.43
International internet bandwidth	Gbps	109.75	122.30	137.30	12.27	25.10
Number of post offices	Post office	3741	3770	3771	0.03	0.80
ICT Sector: Main Economic Indicators						
ICT sector revenues **	Billion EGP	10.98	12.16	10.99	-9.62	0.09
ICT real GDP	Billion EGP	8.02	9.62	8.27	-14.03	3.12
Contribution of ICT sector to real GDP	%	3.87	4.42	4.16
Contribution of ICT sector to total GDP implemented investments	%	8.64	8.98	8.79
ICT operating companies	Companies	3591	3934	4010	1.93	11.67
Number of direct employment in ICT sector ***	Thousand employees	191.86	204.96	205.56	0.29	7.14
ICT Sector's Role In Development						
Number of IT Clubs	IT Club	1990	2152	2162	0.46	8.64
Number of graduates of specialized and professional ICT training program	Thousand graduates	39.50	40.77	41.00	0.58	3.81
* Growth rates are calculated as the difference between penetration rates in different time intervals.						
** Total ICT revenues reached EGP 46.60 billion in 2010 according to the latest financial figures released by ICT companies.						
*** Includes employees of ICT sector employees, Telecom Egypt , Smart village and Maadi Technology Park but doesn't include indirect employees in ICT sector working in IT clubs, internet cafes and private communications stores .						

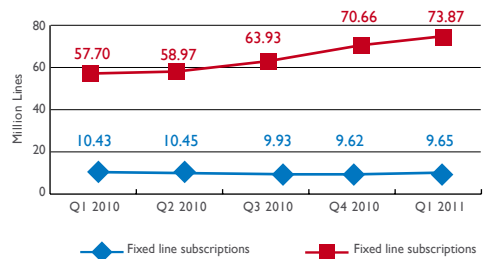
ICT Sector:

Infrastructure Indicators

- Mobile subscriptions : 73.87 million
- Mobile penetration : 94.13%
- Mobile subscriptions annual growth: 28.02%
- Fixed line subscriptions: 9.65 million
- Fixed line subscriptions : (urban areas: 7.39 million, rural areas 2.26 million)
- Fixed line penetration : 12.22%
- Internet users: 24.15 million
- Internet penetration : 30.77%
- Internet users annual growth: 38.53%
- Internet users through mobile: 8.19 million
- USB modem users : 1.78 million users
- ADSL subscriptions : 1.49 million
- International Internet bandwidth: 137.30 Gbps
- Number of post offices: 3771
- Number of Beneficiaries of Pensions' Payment Service through post offices: 4.63 million beneficiary

Fixed and Mobile Subscriptions

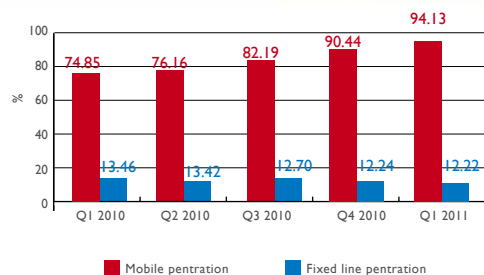
- The number of fixed and mobile subscriptions was 83.52 million at the end of Q1 2011, compared to 68.13 million at the end of Q1 2010, with an annual increase of 15.40 million subscriptions and an annual growth rate of 22.60%.
- The number of mobile subscriptions was 73.87 million at the end of Q1 2011, compared to 57.70 million at the end of Q1 2010. This represents an annual increase of 16.17 million subscriptions and an annual growth rate of 28.02%. Mobile subscriptions accounted for 88 % of total telephone service subscriptions at the end of Q1 2011.



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

Fixed Line and Mobile Penetration

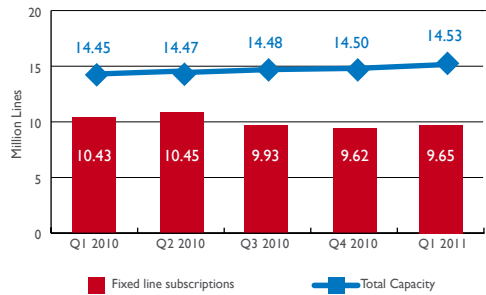
- Mobile penetration increased to 94.13% at the end of Q1 2011, compared to 74.85% at the end of Q1 2010, representing an annual growth rate of 19.28% . On the other hand, fixed line penetration reached about 12.22% by the end of Q1 2011.



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

Fixed Lines Subscriptions and Local Exchange Capacity

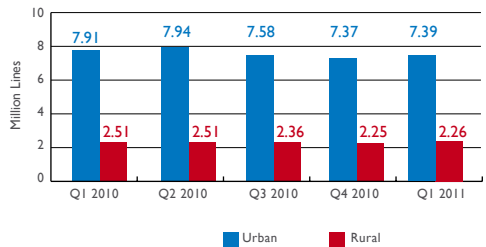
- Total number of fixed line subscriptions has reached 9.65 million subscriptions at the end of Q1 2011 compared to 10.43 million subscriptions at the end of Q1 2010.
- The capacity of local exchanges increased to 14.53 million lines at the end of Q1 2011, compared to 14.45 million at the end of Q1 2010. This represents an annual increase of 0.09 million lines and an annual growth rate of 0.60%.



Source : Ministry of Communications and Information Technology, Telecom Egypt

Fixed Lines (Urban and Rural Areas)

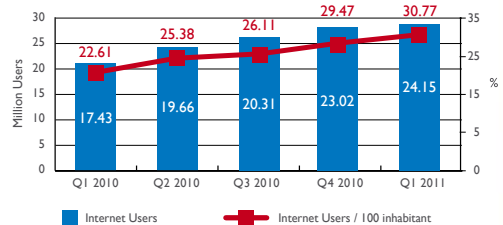
- The total number of fixed line subscriptions in urban areas reached 7.39 million by the end Q1 2011 compared to 7.91 million subscriptions by the end of Q1 2010. The total number of subscriptions in rural areas reached 2.26 million subscriptions by the end of Q1 2011 compared to 2.51 million subscriptions by the end of Q1 2010.



Source : Ministry of Communications and Information Technology, Telecom Egypt

Estimated Number of Internet Users**

- The estimated number of Internet users increased to 24.15 million at the Q1 2011, compared to 17.43 million at the end of Q1 2010, representing an annual increase of 6.72 million users and an annual growth rate of 38.53%.
- Internet penetration increased to 30.77% at the end of Q1 2011, compared to 22.61% at the end of Q1 2010, representing an annual growth rate of 8.16%.



* Includes internet users through mobile and USB modems.

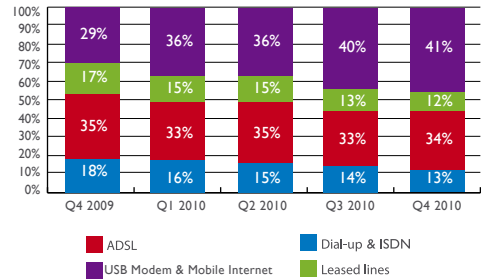
Source : Ministry of Communications and Information Technology, National Telecom Regulatory Authority

ICT Sector:

Infrastructure Indicators

Internet Users by Mode of Access

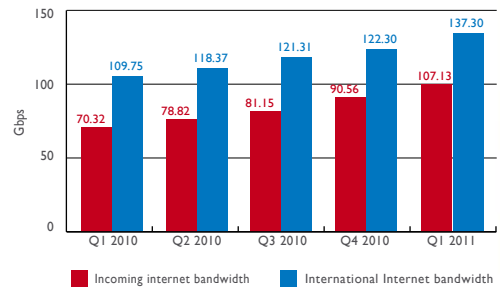
- Proportion of internet broadband users is about 87% of total internet users in Q1 2011 compared to 81% of total internet users in Q1 2010.
- Proportion of internet narrowband users is about 13% of total internet users in Q1 2011 compared to 18% of total internet users in Q1 2010.



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

International Internet Bandwidth

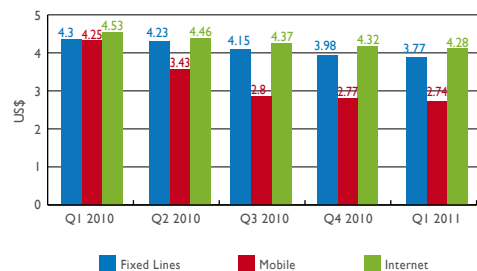
- International Internet bandwidth increased to 137.30 Gbps at the end of Q1 2011 compared to 109.75 Gbps at the end of Q1 2010 representing an annual growth rate of 25.10%.



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

ICT Price Basket

- The cost of ICT services in Egypt is considered internationally competitive. According to the World Bank price basket methodology, the monthly cost in Egypt in Q1 2011 was USD 4.06 for a fixed line*, USD 2.74 for mobile services** and USD 4.28 for Internet service.***



Source : Ministry of Communications and Information Technology, Information Center

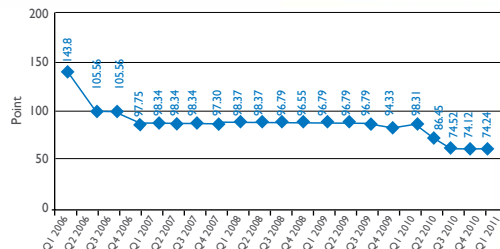
* The price for a residential fixed line is calculated as one-fifth of the installation charge, the monthly subscription charge and the cost of local calls (15 peak and 15 off-peak calls of three minutes each)

** Calculated based on the prepaid price for 25 calls per month spread over the same mobile network, other mobile networks and mobile to fixed line calls, during peak, off-peak and weekend times, in addition to 30 text messages.

*** Calculated based on the cheapest available tariff for connecting to the Internet for 20 hours a month (10 hours peak and 10 off-peak).

■ Communications Services Composite Price Index *

- Communications Services Composite Price Index reached 74.24 point in Q1 2010 compared to 98.31 point in Q1 2009 .
- It is worth mentioning that the ICT Services Composite Index had decreased during the period between Q1 2005 and Q4 2006, while it had witnessed a relative stability during the period Q1 2007 - Q3 2010, and witnessed a decline starting from Q4 2010.

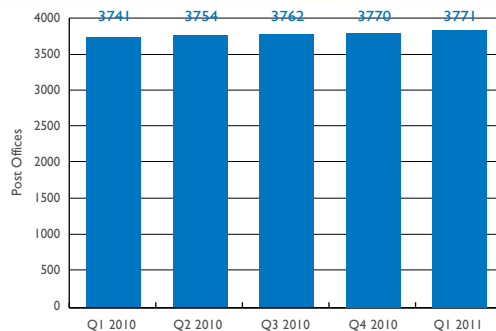


Source : Ministry of Communications and Information Technology, Information Center

* The calculation of the index based on the recommendations of the Organization & Economic Cooperation and Development (OECD) and the World Bank, the Communication Services composite Price Index is calculated based on a basket of ICT telecommunication services taking into account the nature of telecommunications services in Egypt. The index has four main subcomponents: postal, fixed line telephone, mobile phone and internet services classified according to ISIC 4. Data was collected on tariffs and prices of these services for the period between 2002 to 2010 on quarterly bases that complies with the periodicity of computing the ICT GDP. The weights are calculated based on the share of each service from the total revenues for each company. The year 20062007/ was chosen to be the base year for the index.

■ Post Offices

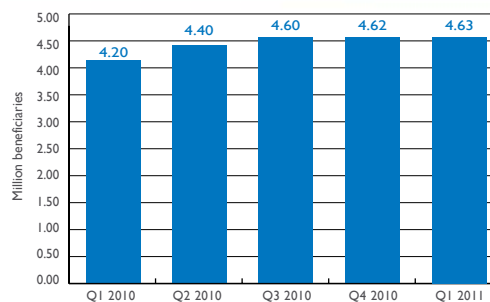
- The total number of post offices increased to 3771 at the end of Q1 2011, compared to 3741 at the end of Q1 2010, representing an increase of 30 offices and an annual growth rate of 0.80%.
- The average number of people served by individual post offices was 20.81 the end of Q1 2011, compared to 20.61 at the end of Q1 2010, representing an annual change 204 people and annual growth rate of 0.99%.



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 4.63 million beneficiaries in Q1 2011 compared to about 4.20 million beneficiaries in Q1 2010 with an annual growth rate of 10.24 %.
- On the other hand, the average number of pensions distributed through postal offices in the place of residence has reached 161 million beneficiaries in Q1 2011 .



Source : Ministry of Communications and Information Technology, Egypt Post

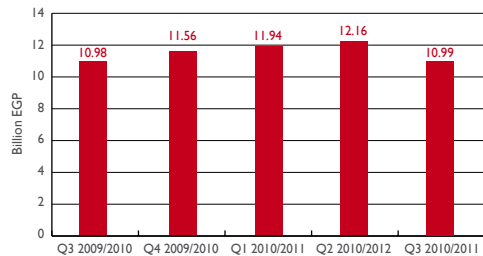
ICT Sector:

Main Economic Indicators

- ICT sector revenues Q3 2010/2011: EGP 10.99 billion
- ICT gross domestic product at fixed prices Q3 2010/2011: EGP 8.27 billion
- Real growth rate of ICT sector GDP Q3 2010/2011: 3.23%
- ICT sector contribution to real GDP Q3 2010/2011: 4.16%
- Contribution of ICT sector investment to the total implemented investments (Q3 2010/2011): 8.79%
- Number of ICT companies Q1 2011: 4010
- Annual growth rate of number of ICT companies Q1 2011: 11.67 %
- ICT Total issued capital Q1 2011: 44.90 Billion EGP
- Number of people employed in the ICT sector Q1 2011: 205.56 thousand
- ICT sector exports (2010): USD 1100 million
- Value of Egypt's Stock Exchange telecommunications index (Q2 2011): 393 point
- ICT sector's contribution to the treasury (2009)(Tentative Figure): EGP 10 billion

■ ICT Sector Revenues

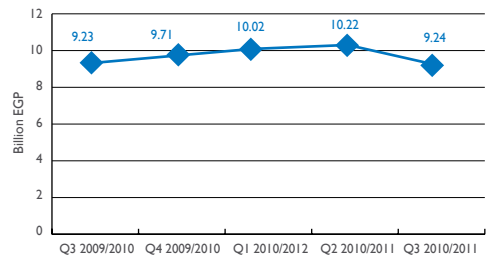
- The total operating revenues of ICT companies reached EGP 10.99 billion in Q3 2010/2011 which is almost similar to the recorded figure in Q3 2009/2010.



Source : Ministry of Communications and Information Technology, Information Center

■ Revenues of Main Telecommunications Companies **

- The total revenues of the main telecommunications companies reached EGP 9.24 billion in Q3 2010/2011 compared to EGP 9.23 billion in Q3 2009/2010.

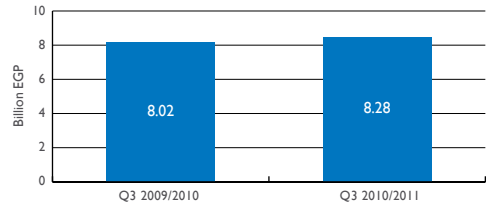


Source : Ministry of Communications and Information Technology, Information Center

* Including: Telecom Egypt, Vodafone, Mobinil and Etisalat.

ICT GDP at Constant Prices

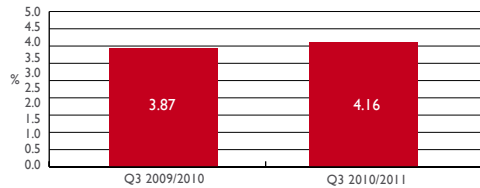
- ICT real GDP at constant prices reached 8.28 billion EGP during Q3 2010/2011 compared to 8.02 billion EGP during Q3 2009/2010.
- The private sector contributed with the biggest share of the sector's real GDP reached 5.8 Billion EGP during Q3 2010/2011 constituting 70% of the total ICT GDP.



Source: Ministry of Planning

Contribution of ICT Sector in Real GDP

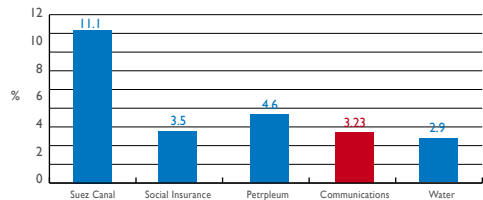
- The contribution of the ICT sector to real GDP at constant prices increased to 4.16 % during Q3 2010/2011 compared to 3.87 % in Q3 2009/2010.
- It is noteworthy that total GDP at constant prices of the Egyptian Economy reached EGP 199 billion during Q3 2010/2011.



Source: Calculated based on Ministry of Planning calculations

Real Growth Rate of ICT Sector GDP

- The annual growth rate of ICT sector real GDP reached 3.23% during Q3 2010/2011 and the sector recorded the fourth highest growth rate among different socioeconomic sectors.
- It is worth mentioning that the decline in ICT GDP growth rate in Q3 2011 is related to the impact of 25th January revolution on all economic sectors which led the Egyptian economy to shrink by 3.8% in Q3 2010/2011



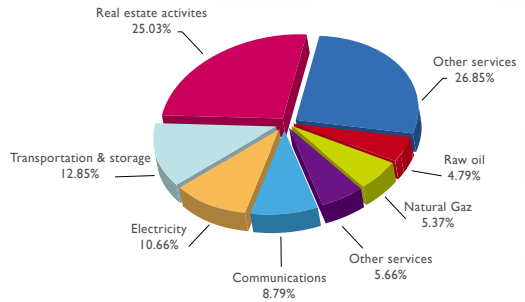
Source: Ministry of Planning

ICT Sector:

Main Economic Indicators

ICT Implemented Investments

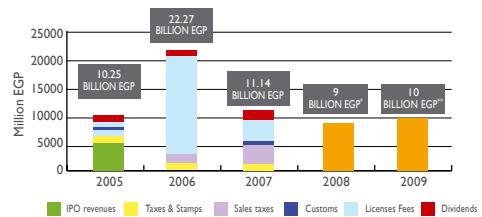
- The contribution of the ICT sector investment to the total implemented investments has reached about 3.91 billion EGP in Q3 2010/2011 compared to about 5.61 billion EGP in Q3 2009/2010.
- It is worth mentioning that ICT Sector recorded the fourth highest contribution to total implemented investment with a percentage reached 8.79% at the end of Q3 2010/2011.



Source: Ministry of Planning

Contribution of ICT Sector to the Treasury

- The ICT sector provided the treasury with revenue exceed EGP 33 billion in 2006 and 2007, compared to EGP 10.25 billion in 2005 with an increase of EGP 23.2 billion. It worth mentioning that ICT sector contribution to the treasury reached EGP 71 billion during the period (2004-2010)

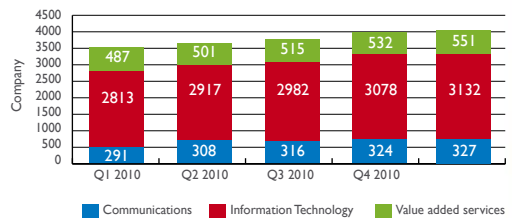


* Preliminary Figure
** Estimated figure

Source : Ministry of Communications and Information Technology, Information Center

Number of ICT Companies according to Activities

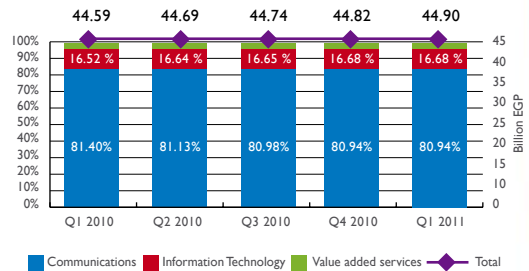
- The number of ICT companies increased to 4010 at the end of Q1 2011, of which 78% were IT companies, 14% Value added services companies and 8% communication companies. The number of ICT operating companies in Q1 2011 was 11.67% higher than in Q1 2010.



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

ICT Issued Capital

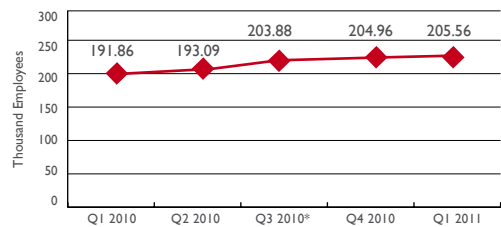
- The total issued capital for ICT companies reached 44.90 Billion EGP during Q1 2011 compared to 44.59 Billion EGP during Q1 2010.
- It is worth noting that the percentage of Issued Capital of telecommunication companies reached 81% of the total ICT issued capital while it reached 17% for Information Technology and 2% for value added services.



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

ICT Direct Employment

- The total number of direct employees in the ICT sector reached 205.56 thousand employees during Q1 2011 compared to 191.86 thousand employees during Q1 2010 with annual increase of 14 thousand employee.
- This figure includes: ICT sector employees, Telecom Egypt employees, Post employees, Smart Village employees and Maadi Technology Park employees, but doesn't include indirect employees in ICT sector working in IT clubs, internet cafes and private communications stores.
- It worth mentioning that each direct ICT job opportunities creates around 1.5-2 job opportunity in other sectors

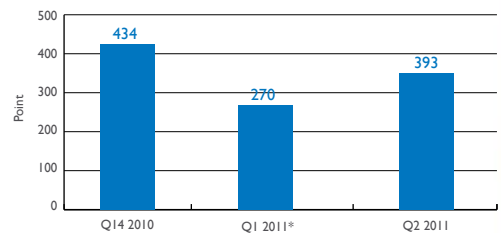


* Al Maadi Technology Park employees have been added starting from September 2010

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

Egypt's Stock Exchange Telecommunication Index

- Egypt's Stock Exchange Telecommunication Index witnessed an increase in its value within Q2 2011 to reach 393 point in Q2 2011 in comparison with 270 point in Q1 2011*.
- It is worth mentioning that this index includes three companies operating in the ICT sector and listed in Egypt Stock Exchange. These companies are :Telecom Egypt, Mobinil, Orascom Telecom.



* This period includes the trading sessions that occurred only in January and March 2011 only, as Egypt's stock exchange was closed in Feb. 2011 due to the circumstances of 25th of January revolution.

Source: Egyptian Stock Market

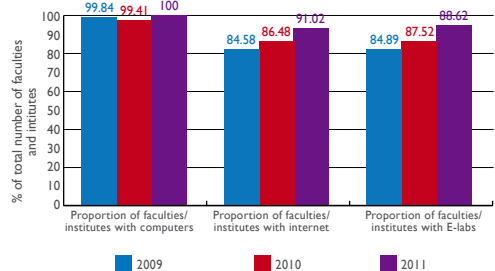
The ICT Sector's

Role in Development

- Proportion of faculties/institutes with computers (2011) : 100%
- Proportion of faculties/institutes connected to the internet (2011) : 91.02%
- Proportion of faculties/institutes use computer in education process (2011) : 94.91%
- Proportion of faculties / institutes use internet in education process (2011): 84.88%
- Number of graduates from specialized and professional ICT training: 41.00 thousand graduates
- Number of graduates from the International Computer Driving License (ICDL) program by the (Q1 2011) : 589.78 thousand persons
- Number of graduates to receive call center training: 1275 graduates
- Number of graduates to receive software training: 239 graduates

ICT Usage in University Education

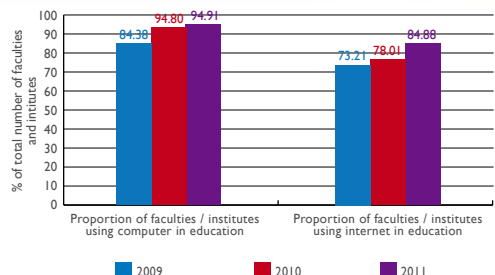
- Proportion of faculties/institutes with computers reached about 100% of total number of faculties /institutes in 2011, compared to 99.84% in 2009. On the other hand, the proportion of faculties/ institutes connected to the internet is about 91.02% of total number of faculties /institutes in 2011, compared to 84.58% in 2009. Regarding the E- labs, the proportion of faculties/institutes with E-labs is about 88.62% of total number of faculties /institutes in 2011, compared to 84.89% in 2009.



Source : «Survey of ICT usage in university education», Ministry of Communication and Information Technology in cooperation with CAPMAS, deferent issues

ICT Usage in Educational Process in Faculties/ Institutes

- Proportion of faculties/institutes using computer in educational process reached about 94.91% of total number of faculties / institutes in 2011 compared to 84.36% in 2009. On the other hand proportion of faculties/ institutes using internet in educational process reached about 84.88% of total number of faculties / institutes in 2011 compared to 73.21% in 2009.



Source : «Survey of ICT usage in university education», conducted by Ministry of communication and information Technology in cooperation with CAPMAS, deferent issues

ICT Graduates

- The total number of ICT graduates reached about 30 thousand graduates in 2008/2009. The proportion of Communication graduates reached about 12% of total ICT graduates while The proportion of Information Technology graduates reached about 88% of total number of ICT graduates .

Faculties / Institutes	specialty	Number of graduate 2008/2009
Government faculties/ Institutes	Communications	2737
	Information Technology	4809
	Communications and Information Technology	7546
Private faculties/ Institutes	Communications	940
	Information Technology	21673
	Communications and Information Technology	22612
Al Azhar University	Communications	0
	Information Technology	246
	Communications and Information Technology	246
Total	Communications	3677
	Information Technology	26727
	Communications and Information Technology	30404

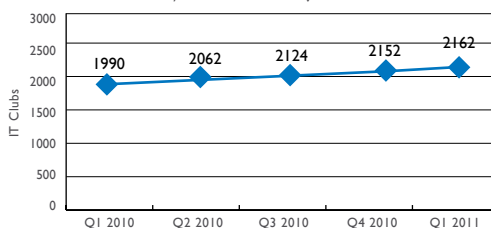
Source : «Survey of ICT usage in university education», conducted by Ministry of Communication and information Technology in cooperation with CAPMAS, 2010

Number of IT Clubs*

- The number of IT Clubs increased to 2162 at the end of Q1 2011, compared to 2152 at the end of Q4 2010 and 1990 at the end of Q1 2010, representing an annual increase of 172 clubs and an annual growth rate of 8.64%.

Region	Q1 2011	Q1 2010	Growth Rate (%)
Lower Egypt governorates	703	614	14.50%
Upper Egypt governorates	776	735	5.58%
Border line governorates	119	107	11.21%
Urban governorates	564	534	5.62%
Total	2162	1990	8.64%

- The number of IT Clubs connected to the Internet has reached 1928 representing 89.18% of the total number of IT Clubs, at the end of Q1 2011.

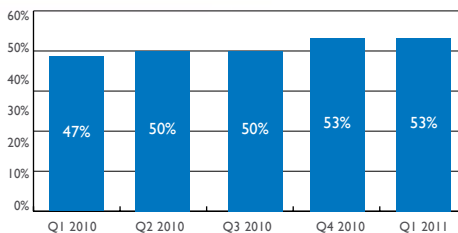


Source : Ministry of Communications and Information Technology, IT Clubs Department

* IT clubs is a governmental initiative started in 2000 and aims at encouraging ICT usage in rural and remote areas. The idea behind the IT Clubs is to provide each and every person in society the chance to develop his/her skills through the use of technology and to have access to information and knowledge. IT clubs mainly target the low income areas, people with special needs and children who have dropped out from the schooling system.

Public Internet Access Points**

- Percentage of localities having internet access points has reached about 53% of the total number of localities in Egypt in Q4 2010 compared to 43% in Q4 2009 with an annual growth rate of 6%.



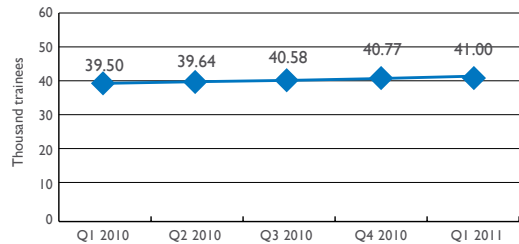
Source: Ministry of Communications and Information Technology calculated based on the data of IT clubs Department

**Calculated as the ratio of total "localities, districts and cities that have public internet access point divided by the total number of localities in Egypt

The ICT Sector's Role in Development

Specialized & Professional ICT Training

- The total number of specialized and professional ICT graduates reached 41.00 thousand by the end of Q1 2011, compared to 39.50 thousand at the end of Q1 2010. This represents an annual increase of 1.50 thousand graduates and an annual growth rate of 3.81%.



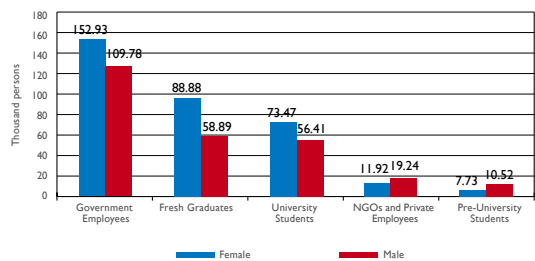
Source : Ministry of Communications and Information Technology, National Telecommunication Institute and the Information Technology Institute

ICDL Training

- The total number of ICDL certified persons in Egypt reached 589.78 thousand at the end of Q1 2011 distributed according to the employment status as follows:

Employment status	ICDL certified persons (thousand)*
Pre-University Students	18.26
University Students	129.88
Fresh graduates	167.78
NGO's and Private employees	31.16
Government employees	262.71
Total	589.78

ICDL certified persons by employment status and gender

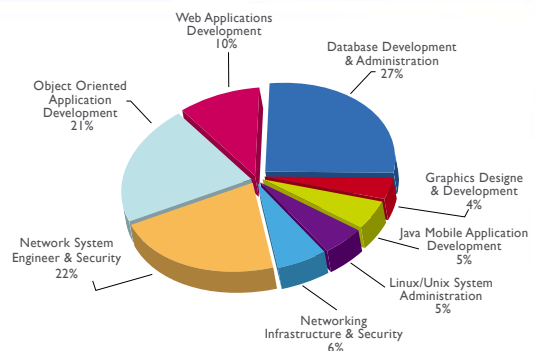


Source : Ministry of Communications and Information Technology, Training and human resources Department (ICDL Program)

Capacity Building Program Provided by National Telecommunications Institutes (NTI)

- The trainees who are currently receiving National Telecommunications Institute (NTI) specialized program reached 1836 in November 2010 and they are distributed as follows:

Courses	2010*
Database Development and Administration	493
Graphics Design & Development	75
Java Mobile Applications Development	90
Linux/Unix System Administration	85
Networking Infrastructure & Security	105
Networking System Engineer & Security	415
Object Oriented Applications Development	387
Web Applications Development	186
Total	1836



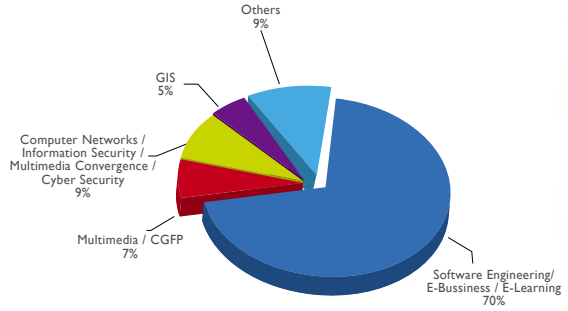
Source : Ministry of Communications and Information Technology, National Telecommunications Institute (NTI)

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

Track	Q3 2009	Q3 2010
Software Engineering / E-Business / E-Learning	3605	4249
Multimedia / CGFP	420	456
Computer Networks / Information Security / Media Convergence / Cyber Security	483	557
GIS	269	292
VLSI / EM-SYS	130	166
Mechatronics	121	145
Biomedical / Bioinformatics	21	53
Others	162	162
Total	5211	6080
Edu Egypt (BPO)**	4189	10000

* According to the latest figures

** Graduates of year 2009 / 2010

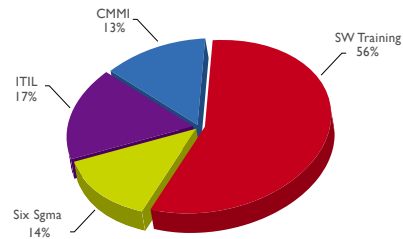


Source : Ministry of Communications and Information Technology, Information Technology Institute

Capacity Building Program for Companies Provided by ITIDA**

- The total number of graduates in the software field has reached 329 till Q1 2011, distributed as follows:

Tracks	Q3 2010
CMMI	32
SW Training	133
Six Sigma	34
ITIL	40
Total	239

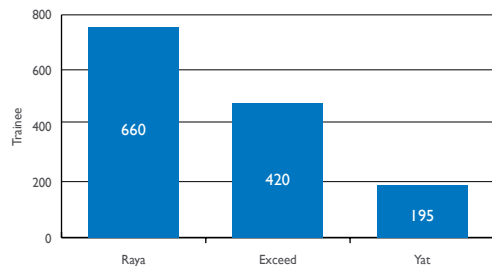


Source: Ministry of Communications and Information Technology, Industry Development Authority, Software Engineering competence Center (SECC)

* It is worth mentioning that 44 companies achieved Capability Maturity Model Integration (CMMI) accreditation levels.

Number of Call Center Graduates

- The total number of trainees in call centers has reached 1275 by the end of Q1 2011.
- The trainees are distributed as follows:
 - 660 RAYA Co.
 - 420 EXCEED.
 - 195 YAT.



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

ICT Sector Indicators

Main Infrastructure Indicators

- Mobile subscriptions increased to 73.87 million in Q1 2011, compared to 57.70 million in Q1 2010, representing an annual growth rate of 28.02%.
- Mobile penetration increased to 94.13% in Q1 2011, compared to 74.85% in Q1 2010, representing an annual growth rate of 19.28%.
- Internet users increased to 24.15 million in Q1 2011, compared to 17.43 million in Q1 2010, representing an annual growth rate of 38.53%.
- Internet penetration increased to 30.77% in Q1 2011 compared to 22.61% in Q1 2010 representing an annual growth rate of 8.16%.
- ADSL subscriptions increased to 1.49 million in Q1 2011, compared to 1.11 million in Q1 2010, representing an annual growth rate of 34.72%.

Main Economic Indicators

- The ICT sector real GDP has reached 8.27 billion in Q3 2010/2011 with an annual growth rate 3.12% .
- The contribution of the ICT sector to real GDP of the Egyptian Economy reached 4.16% in Q3 2010/2011 compared to 3.87% in Q3 2009/2010.
- The total number of direct employment in the ICT sector reached 205.56 thousand in Q1 2011, compared to 191.86 thousand in Q1 2010 with an annual growth rate 7.14 %.
- The number of ICT companies reached 4010 by the end of Q1 2011, representing an annual growth rate of 11.67%.

ICT sector's role in Development

- Proportion of faculties/institutes with computers in 2011 is 100% of total number of faculties/institutes while proportion of faculties/institutes connected to the internet in 2011 is 91.02% of total number of faculties and institutes.
- Proportion of faculties/institutes using computer in education in 2011 reached 94.91% while proportion of faculties/institutes using internet in education in 2011 reached 84.88%
- Number of IT clubs reached 2162 at the end of Q1 2011, whereas the number of IT clubs connected to the internet reached 1928 representing 89.18% of total number of IT Clubs
- The total number of graduates of specialized and professional ICT training program has reached 41.00 thousands by the end of Q1 2011, compared to 39.50 thousand in Q1 2010, representing an annual increase of 3.81%.
- The number of graduates to receive software training in Q1 2011 was 239 graduates.