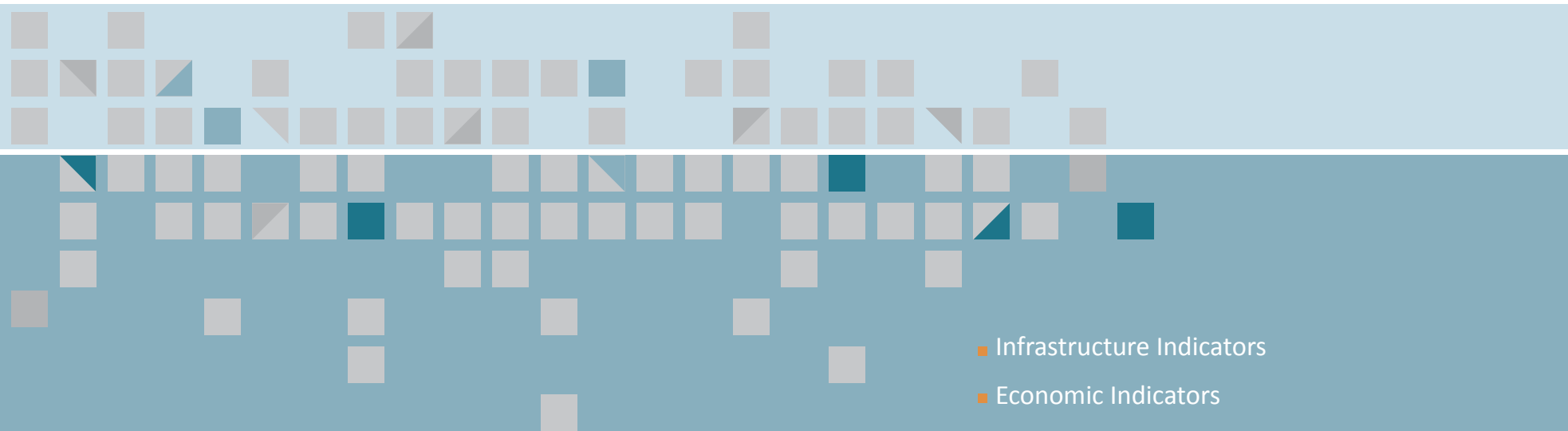




Arab Republic of Egypt
Ministry of Communications
and Information Technology
www.mcit.gov.eg

ICT Indicators Report

2007-2011



- Infrastructure Indicators
- Economic Indicators
- ICT Sector's Role in Development



Scan Me

1- Infrastructure Indicators

- **Mobile and Fixed Telephone Lines**

- Fixed and Mobile Lines Subscription
- Fixed lines and Mobile Penetration

- **Internet**

- Estimated Internet Users and Internet Penetration
- Estimated Internet Users by Mode of Access
- Proportion of Households Using Internet from Home
- International Internet Bandwidth
- International Internet Bandwidth per Inhabitant

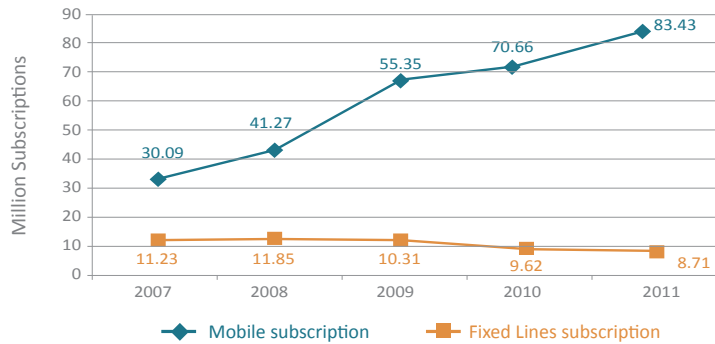
- **Post**

- Number of Post Offices
- Average Number of People Served by Postal Offices
- Number of Pensions Distribution Through Postal Offices
- Average Number of Pensions Distribution Through Postal Offices to place of Residence
- Total Number of Instant Postal Financial Transfers



Mobile and Fixed Telephone Lines

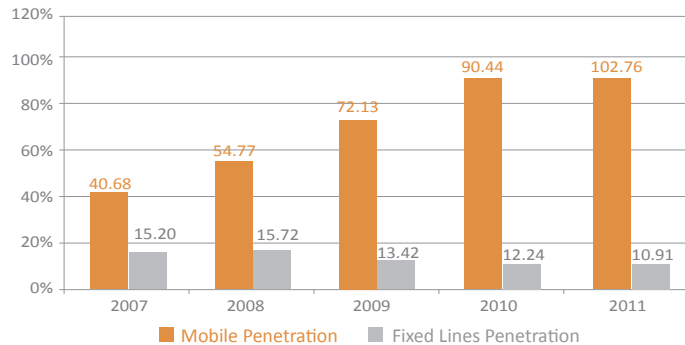
Fixed Line and Mobile Subscription



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

- Growth rate of fixed line and mobile subscription in 2011 compared to 2010: 14.77%
- Average annual growth rate of fixed line and mobile subscription During (2007-2011): 26.53%

Fixed Line and Mobile Penetration

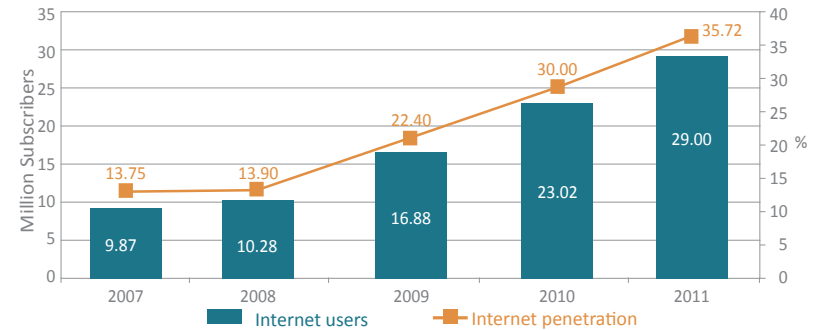


Source: Ministry of Communications and Information Technology, National Telecom Regulatory Authority, Telecom Egypt.

- Growth rate of mobile penetration 2010 compared to 2011 : 12.32%
- Average annual growth rate mobile penetration during (2007 - 2011): 15.60%

Internet

Estimated Internet Users and Internet Penetration*

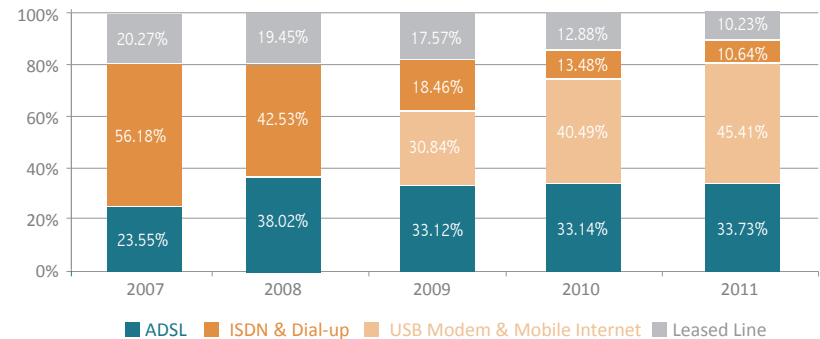


* Including mobile internet users and USB modem starting from June 2009.

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

- Growth rate of estimated internet users 2011 compared to 2010 25.98 %
- Average annual growth rate of estimated internet users during (2007 - 2011): 28.27%
- Proportion of mobile internet users of total mobile subscriptions in 2011 : 12.57 % of total mobile subscription
- Proportion of mobile internet users of total internet users in 2011: 36.16 % of total internet users

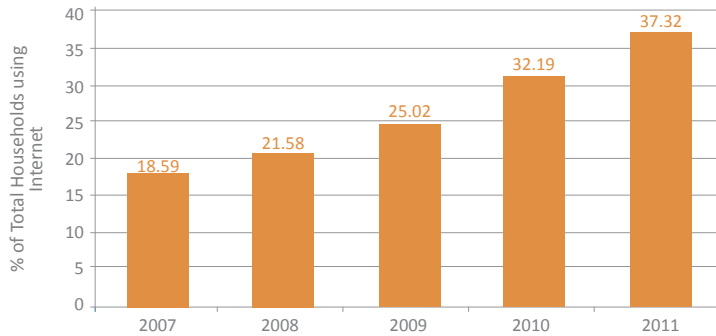
Estimated Internet Users By Mode of Access



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

- Broadband internet users accounted for 89.36% of total internet users in 2011 compared to 43.82% in 2007
- Narrowband internet users accounted for 10.64% of total internet users in 2011 compared to 56.18% in 2007

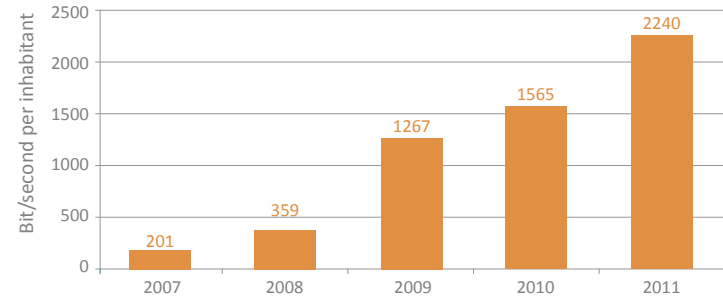
Proportion of Households Using Internet from Home



Source: Ministry Of Communications and Information Technology, Information Center.

- Growth rate of proportion of households using internet from home in 2011 compared to 2010 : 5.13%
- Average annual growth rate of proportion of households using internet from home during (2007-2011): 4.12%

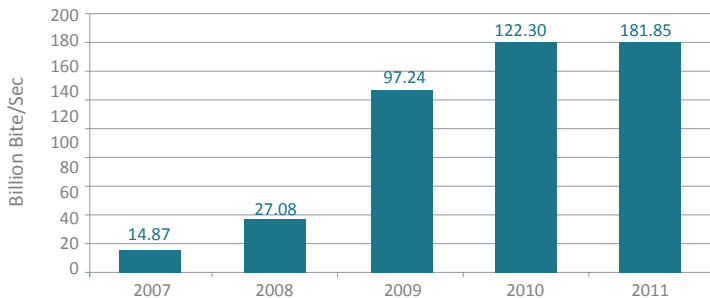
International Internet Bandwidth per Inhabitant



Source: Ministry Of Communications and Information Technology, Information Center, National Telecom Regulatory Authority.

- Growth rate of international internet bandwidth per inhabitant 2011 compared to 2010 : 43.1%
- Average annual growth rate of international internet bandwidth per inhabitant during (2007 - 2011) : 90.79%

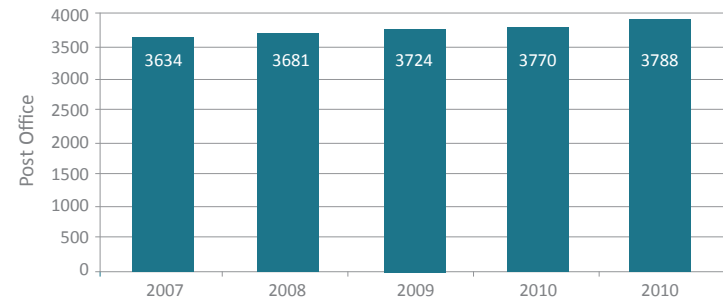
International Internet Bandwidth



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

- Growth rate of international internet bandwidth 2011 compared to 2010 : 48.7%
- Average annual growth rate of international internet bandwidth during (2007 - 2011): 94.87%

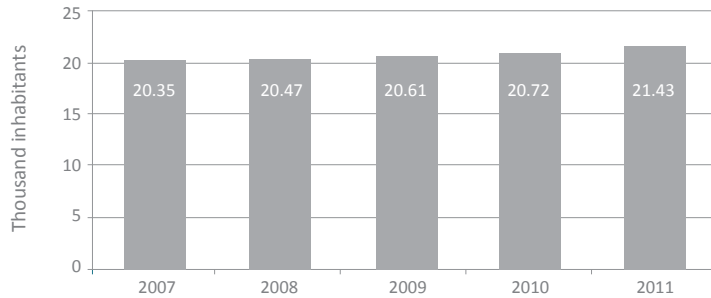
Number of Post Offices



Source: Ministry Of Communications and Information Technology, Egypt Post.

- Growth rate of number of post offices 2011 compared to 2010 : 0.48%
- Average annual growth rate of number of post offices during (2007 - 2011): 1.14%

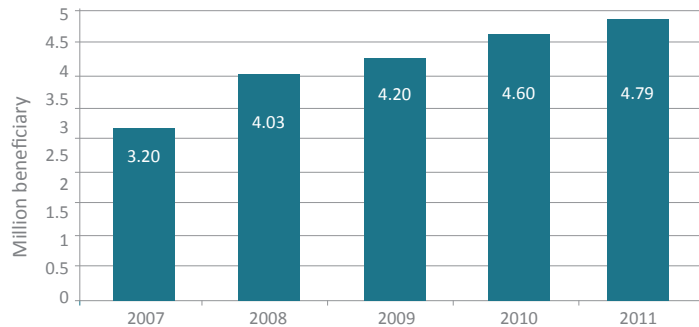
Average Number of People Served by Postal Offices



Source: Ministry Of Communications and Information Technology, Egypt Post.

- Growth rate of average number of people served by postal offices in 2011 compared to 2010: 3.42%
- Average annual growth rate of average number of people served by postal offices during (2007 - 2011) : 1.09%

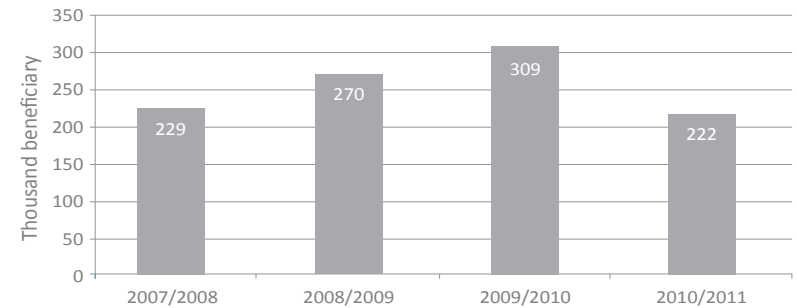
Number of Pensions Distributed through Postal Offices



Source: Ministry Of Communications and Information Technology, Egypt Post.

- Growth rate of number of pensions distribution through postal offices in 2011 compared to 2010 : 4.13%
- Average annual growth rate of number of pensions distribution through postal offices during (2007 - 2011) : 8.76%

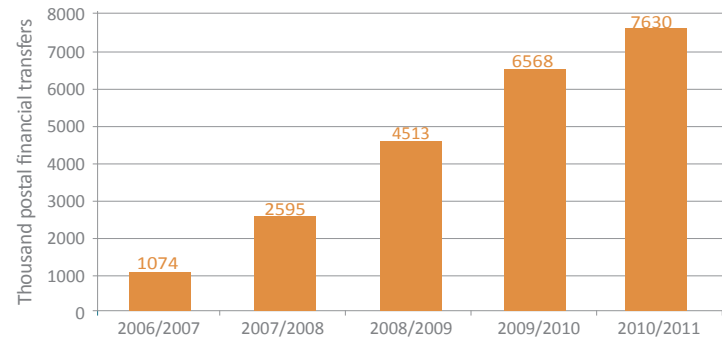
Number of Pensions Distributed through Postal Offices to Place of Residence



Source: Ministry Of Communications and Information Technology, Egypt Post.

- Growth rate of average number of pensions distribution through postal offices to place of residence in 2010/ 2011 compared to 2009/2010 : -14.89%
- Average growth rate of average number of pensions distribution through postal office to place of residence during (2006/2007 – 2010/2011) : 0.12%

Total Number of Instant Postal Financial Transfers



Source: Ministry Of Communications and Information Technology, Egypt Post.

- Growth rate of total number of instant postal financial transfers 2010/2011 compared to 2009/2010: 16.17%
- Average annual growth rate of total number of instant postal financial transfers during (2006/2007 – 2010/2011) : 126.85%

2- Economic Indicators

■ ICT Sector Revenues

- Revenues of Main Telecommunications Companies
- ICT Sector Revenues
- Communications Sector revenues as percentage of GDP (compared to similar economics-2009)

■ ICT GDP

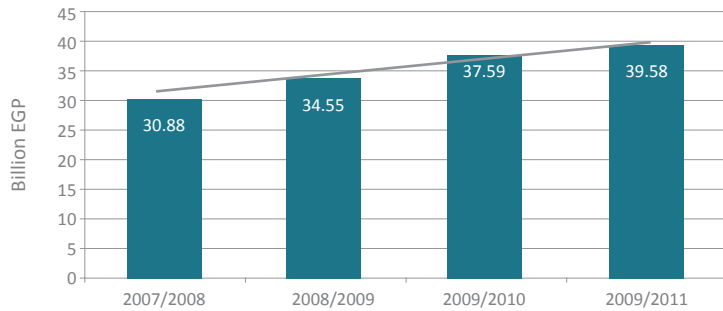
- ICT Sector GDP at Constant Prices
- Real Growth Rate of ICT Sector GDP at Constant Prices
- Real Growth Rate of ICT Sector GDP Compared to the Growth Rates of other Sectors
- Contribution of ICT Sector to Real GDP Growth Rate

■ Other Economic Indicators

- Contribution of ICT Sector to the Treasury
- Number of ICT Companies
- Issued Capital for ICT Companies
- ICT Direct Employment.
- ICT Price Basket
- Communications Price Index
- ICT sector Exports
- ICT Services' exports as percentage of total services' exports (compared to similar economics -2010)
- ICT expenditure as percentage of total GDP (compared to similar economics)

Revenues

Revenues of Main Telecommunications Companies*

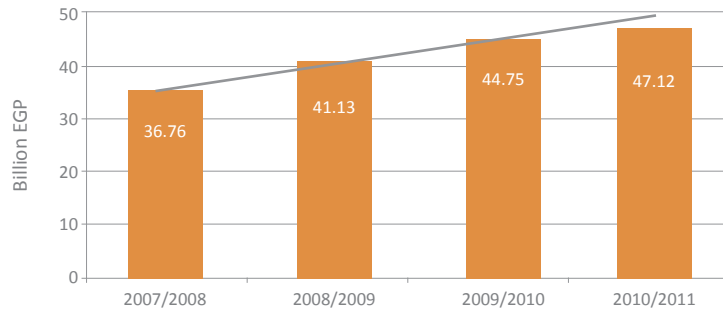


* Including Telecom Egypt, Vodafone, Mobinil and Etisalat

Source: Ministry of Communications and Information Technology – Information Center

- Annual growth rate of revenues of main telecommunications Companies (2009/2010 – 2011/2012) : 5.29%
- Average annual growth rate of revenues of main telecommunications Companies (2007/2008 – 2010/2011): 6.78%

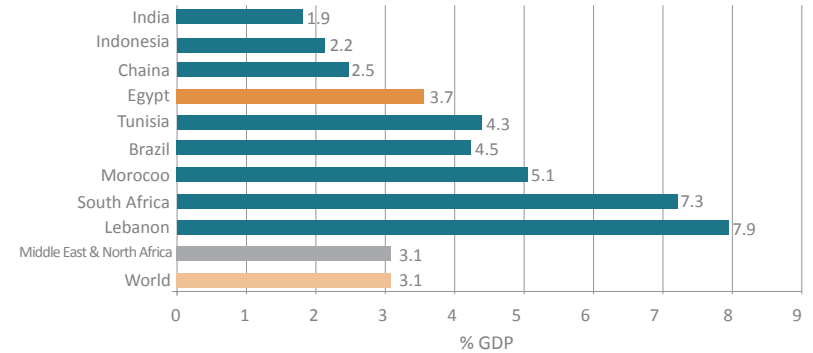
ICT Sector Revenues



Source: Ministry of Communications and Information Technology – Information Center.

- Annual growth rate of ICT sector revenues (2009/2010 – 2010/2011) : 5.30%
- Average annual growth rate of ICT sector revenues (2007/2008 – 2010/2011): 11.58%

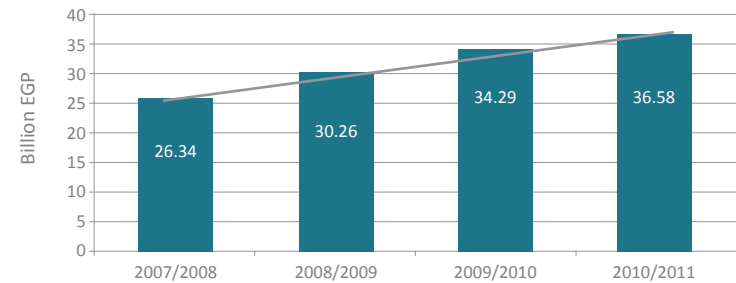
Communications Sector revenues as percentage of GDP (compared to similar economics -2009)



Source: "The little data book on Information and communication Technology" - The World Bank (2011).

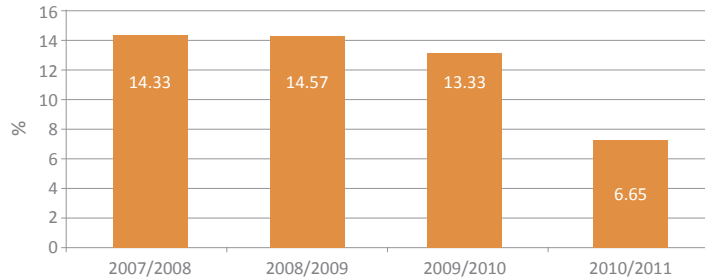
ICT GDP

ICT Sector GDP at Constant Prices



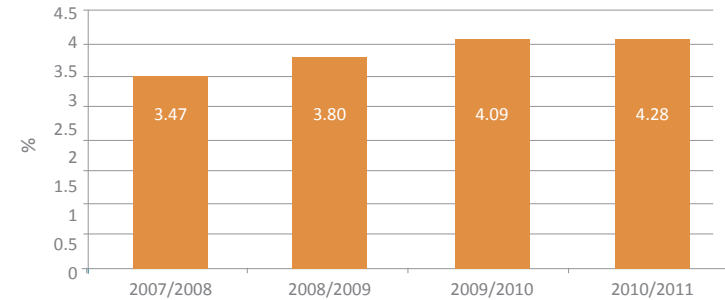
Source: Ministry of State for Planning.

Real Growth Rate of ICT Sector GDP at Constant Prices



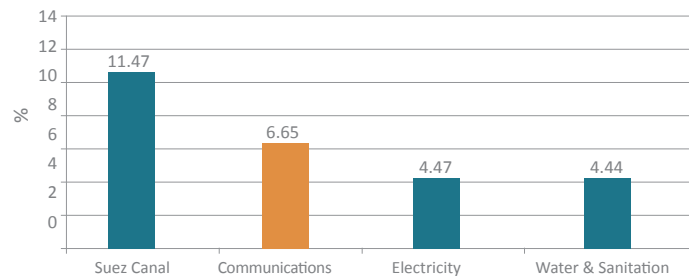
Source: Ministry of State for Planning.

Contribution of ICT Sector to the Real GDP Growth Rate



Source: Ministry of State for Planning.

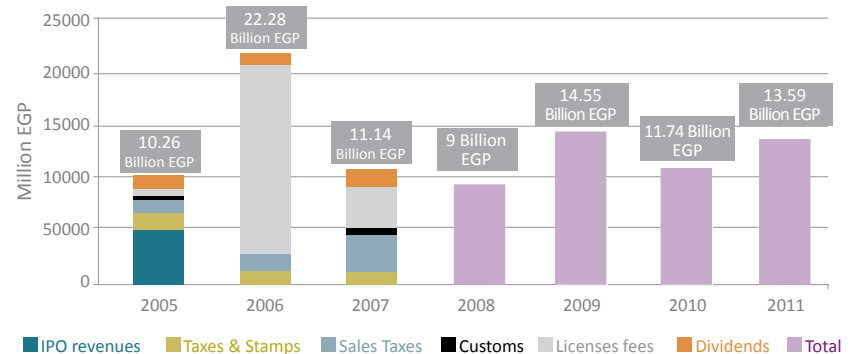
Real Growth Rate of ICT Sector GDP Compared to other Growth Rate of other Sectors (2010/2011)



Source: Ministry of State for Planning.

Other Economic Indicators

Contribution of ICT Sector to the Treasury (2005-2011)

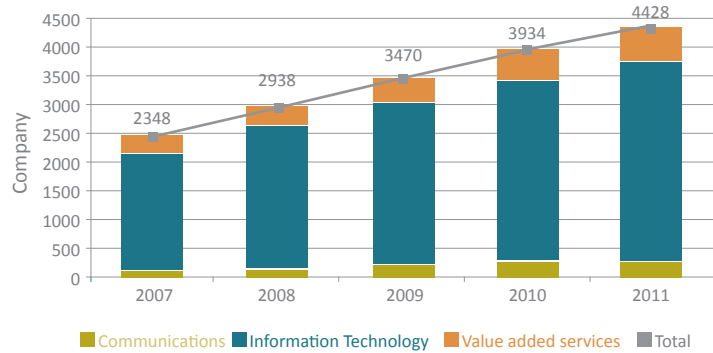


Source: Ministry of Communications and Information Technology – Information Center.

■ ICT Sector contribution to the treasury reached EGP 82.28 billion during the period (2006-2011)

Other Economic Indicators

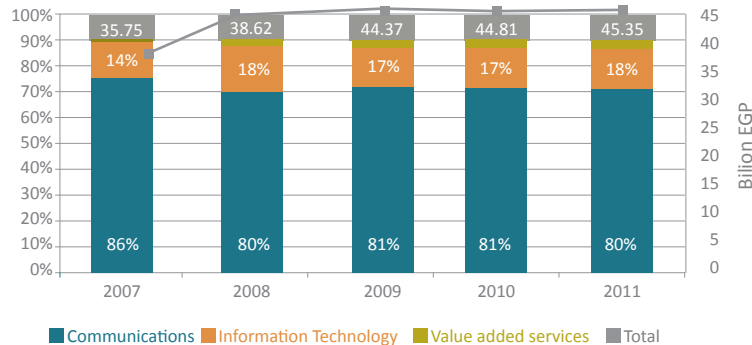
Number of ICT Companies



Source: Ministry of Investment, General Authority For Investment & Free Zones .

- Annual growth rate of total number of ICT Companies (2010-2011):12.56%
- Average annual growth rate of total number of ICT Companies (2007-2011): 16.52%

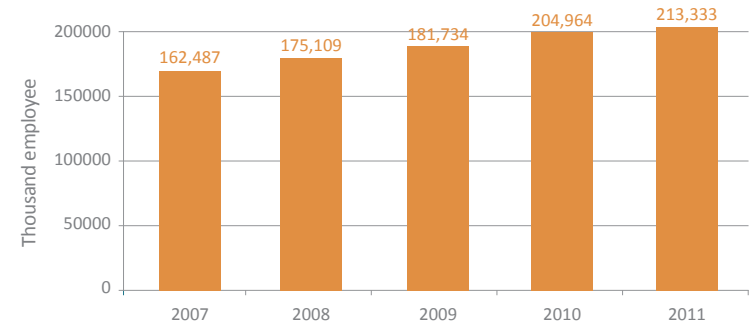
Issued Capital for ICT Companies



Source: Ministry of Investment, General Authority For Investment & Free Zones .

- Annual growth rate of total issued capital for ICT Companies (2010-2011):1.21%
- Average annual growth rate of total issued capital for ICT Companies (2007-2011): 5.25%

ICT Direct Employment*

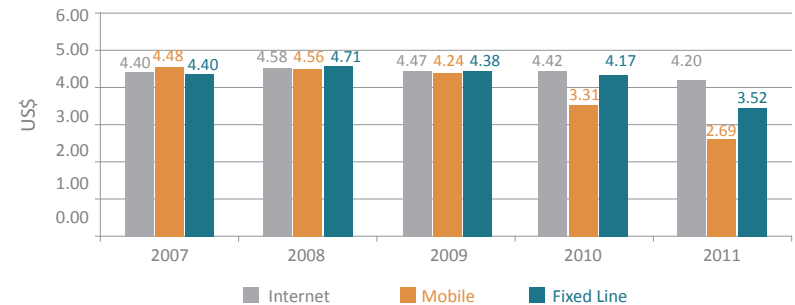


* This figure includes: ICT sector employees, Telecom Egypt employees, Post employees, Smart village employees and Maadi Technology Park employees, but doesn't include indirect employees in ICT sector working in IT clubs, internet cafes and private communications stores.

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

- Annual growth rate of ICT Direct Employment (2010-2011):4.08%
- Average annual growth rate of ICT Direct Employment (2007-2011): 6.89%
- It worth mentioning that each direct ICT job opportunities creates around 1.5-2 job opportunities in other sectors

ICT Price Basket*



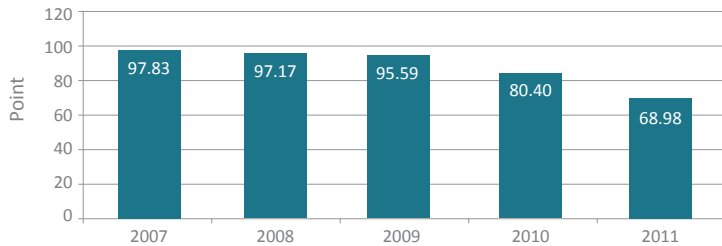
* The price for a residential fixed line is calculated as one-fifth of the installation charge, the monthly subscription charge and the cost of local calls (15 peak and 15 off-peak calls of three minutes each)

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).

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

Communications Services Composite Price Index*

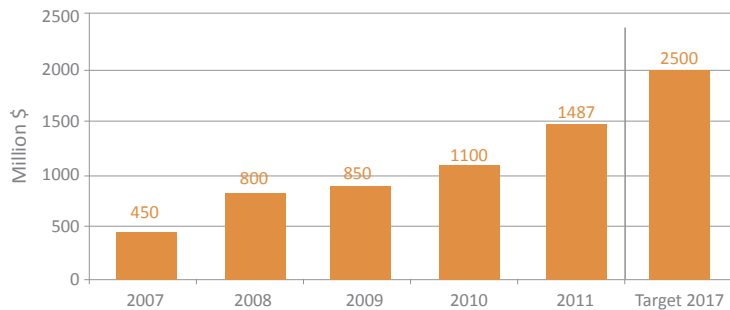


* The calculation of the index based on the recommendations of the Organization & Economic Cooperation and Development (OECD) and the World Bank, the Communication Services composite Price Index is calculated based on a basket of ICT telecommunication services taking into account the nature of telecommunications services in Egypt. The Index has four main subcomponents: 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 2006/2007 was chosen to be the base year for the index.

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

- Annual decrease rate of Communications Services Composite Price Index (2010-2011): 14.20%
- Average annual decrease rate of ICT Direct Employment (2007-2011): 9.45%

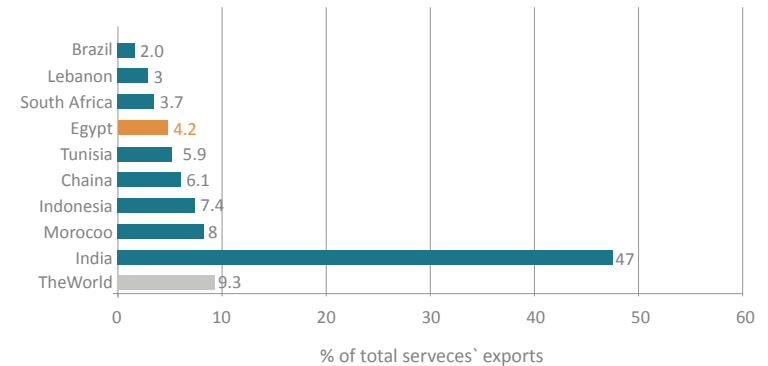
ICT Sector Exports



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

- Annual growth rate of ICT Sector Exports (2010-2011): 35.18%
- Average annual growth rate of ICT Sector Exports (2007-2011): 36.95%

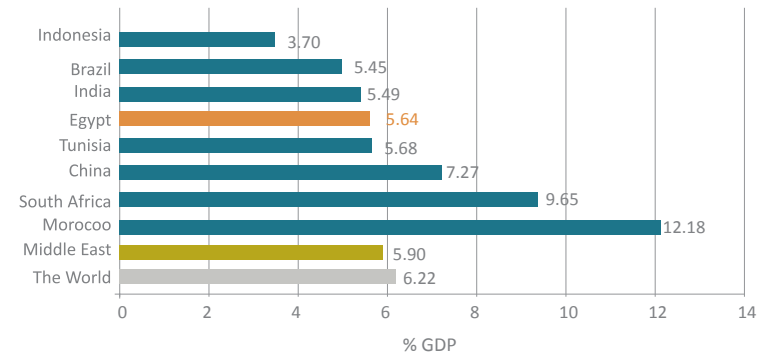
ICT Services' exports as percentage of total services' exports (compared to similar economics -2010)*



* ICT services' exports include: Computer services, communications services and information Technology services.

The World Development Indicator Database-World Bank-2010

ICT Expenditure as percentage of total GDP (compared to similar economics)*



* ICT expenditure includes: Computer devices, computer software, computer services and communications.

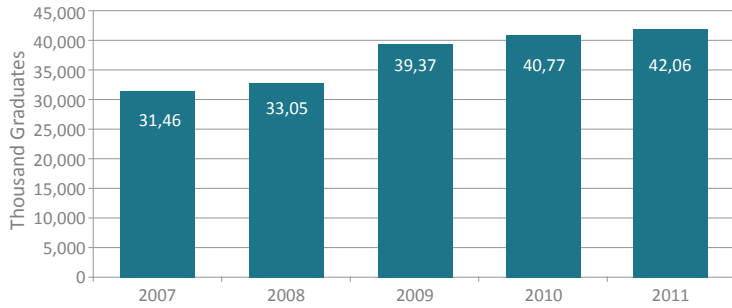
Source: Digital Planet - World Information Technology And Services Alliance (WITSA) - Second Quarter 2010

3- ICT Sector's Role In Development

- **Training**
 - Graduates of Specialized and Professional ICT Training
- **IT Clubs**
 - Number of IT Clubs
 - Geographical Distribution of IT Clubs
 - Public Internet Access points
 - Uses of ICT services available in IT Clubs
 - Impact of using ICT Services in IT Clubs
- **Households**
 - ICT Usage by Households
 - Households connected to the internet by Access Mode
- **Private Sector**
 - ICT Usage by Private Sector
 - Internet Activities Undertaken by Private Sector
 - Types of R&D Applied by Private Sector in last 5 years
 - The impact of R&D on Private Sector
- **Government Sector**
 - Uses of ICT in Government Sector
 - Internet Activities Undertaken by Government Sector
- **Pre-University Education**
 - Uses of ICT in Pre- University Education
 - Computer Activities Undertaken by Pre- University Education
 - Internet Activities Undertaken by Pre- University Education
- **University Education**
 - ICT Usage by University Education
 - Computer Activities Undertaken by University Education
 - Internet Activities Undertaken by University Education

Training

Graduates of Specialized and Professional ICT Training

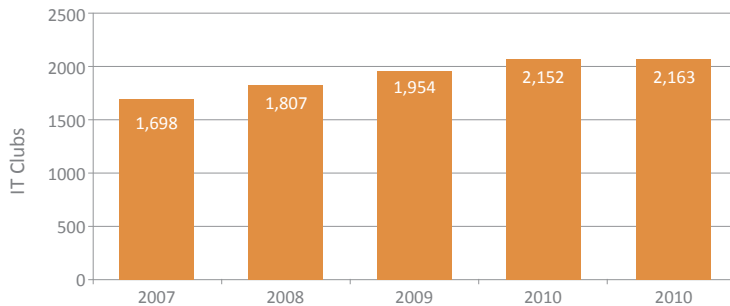


Source: Ministry of Communications and Information Technology, National Telecommunication Institutes and Information Technology Institutes.

- Annual growth rate of Specialized and Professional ICT Training (2010-2011): 3.17%
- Average annual growth rate of Specialized and Professional ICT Training (2007-2011): 9.36%

IT Clubs

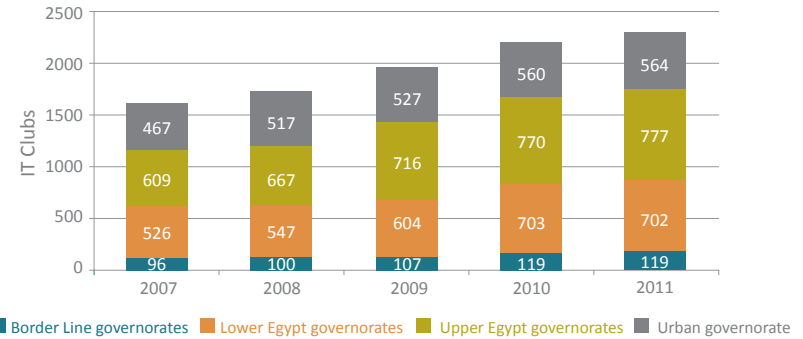
Number of IT Clubs



Source: Ministry of Communications and Information Technology, IT Club Department.

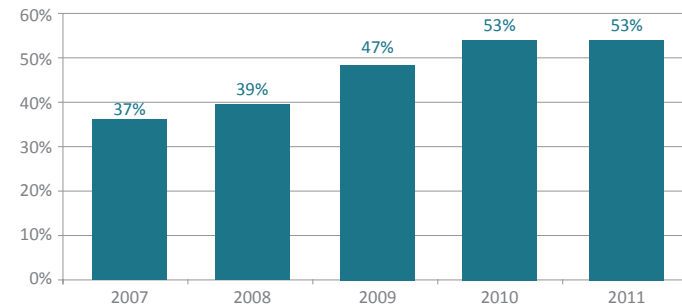
- Annual growth rate of Total number of IT Club (2010-2011): 0.51%
- Average annual growth rate of Total number of IT Club (2007-2011): 8.59%

Geographical Distribution of IT Clubs



Source: Ministry of Communications and Information Technology, IT Club Department.

Public Internet Access Points*

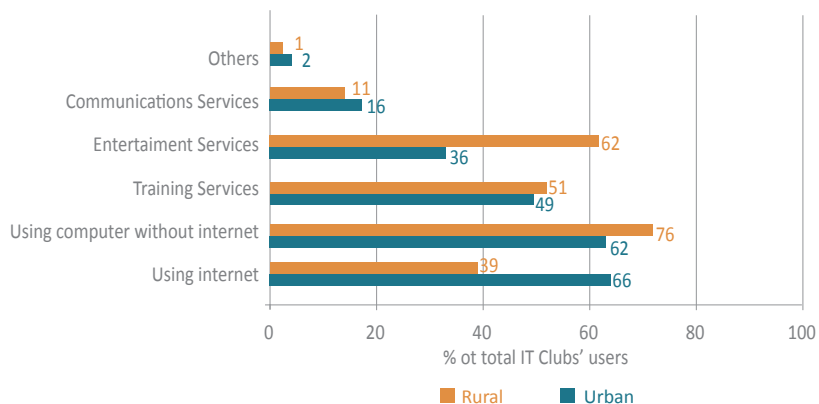


*Calculated as the ratio of total "localities, districts, and cities that have public internet access point" divided by the total number of localities in Egypt.

Source: Ministry of Communications and Information Technology, IT Club Department.

- Average annual growth rate of Public Internet Access Points (2007-2011): 4%

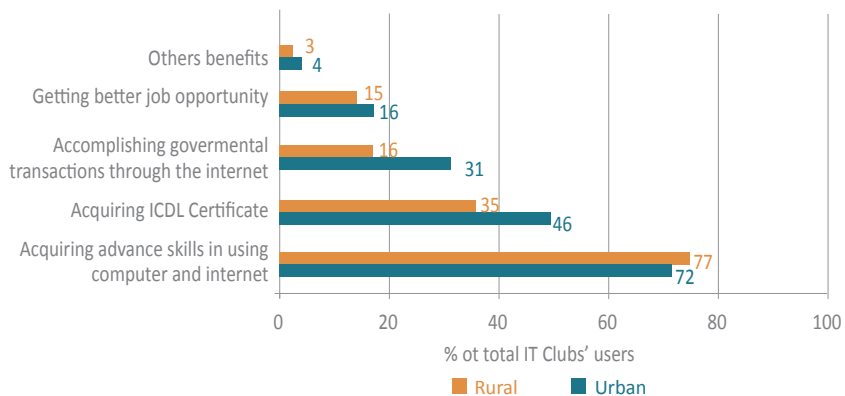
Main ICT activities by users of IT Clubs*



* Multiple answers are allowed

Source: "Survey of ICT Usage in IT Clubs", conducted by Ministry of Communications and Information Technology (MCIT) in cooperation with Central Agency for Public Mobilization and Statistics (CAPMAS), 2011.

Impact of using ICT Services in IT Clubs*

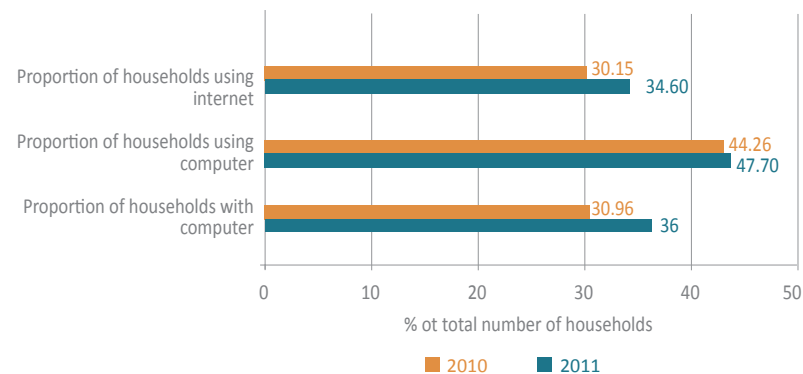


* Multiple answers are allowed

Source: "Survey of ICT Usage in IT Clubs", conducted by Ministry of Communications and Information Technology (MCIT) in cooperation with Central Agency for Public Mobilization and Statistics (CAPMAS), 2011.

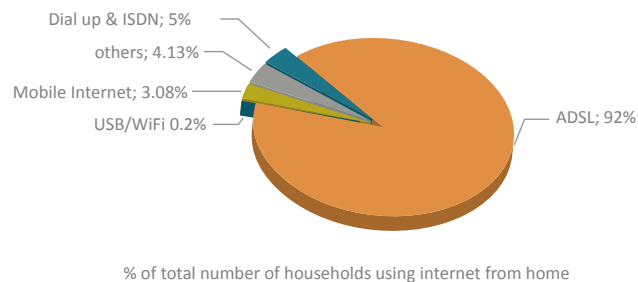
Households

ICT usage by Households



Source: "Survey of ICT Usage in Households and Individuals", conducted by Ministry of Communications and Information Technology (MCIT) in cooperation with Central Agency for Public Mobilization and Statistics (CAPMAS), different issues..

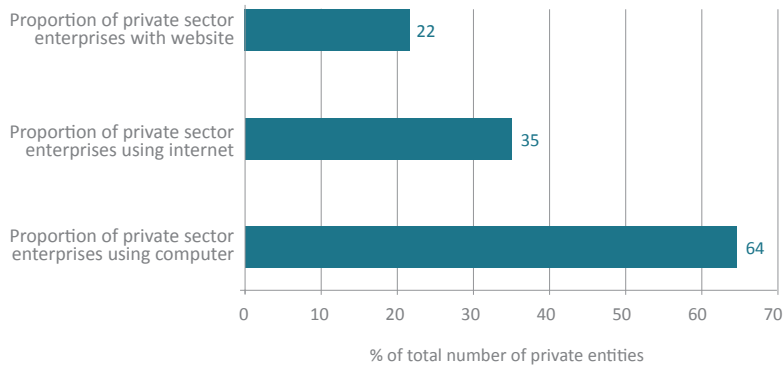
Households connected to the Internet from Home by Access Mode



Source: "Survey of ICT Usage in Households and individuals", conducted by Ministry of Communications and Information Technology (MCIT) in cooperation with Central Agency for Public Mobilization and Statistics (CAPMAS), 2011.

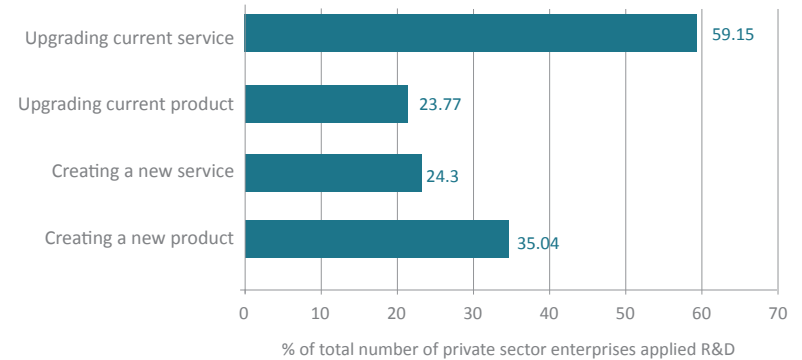
Private Sector (1)

ICT Usage by Private Sector



Source: "Survey of ICT Usage in Businesses", conducted by Ministry of Communications and Information Technology (MCIT) in cooperation with Central Agency for Public Mobilization and Statistics (CAPMAS), 2009.

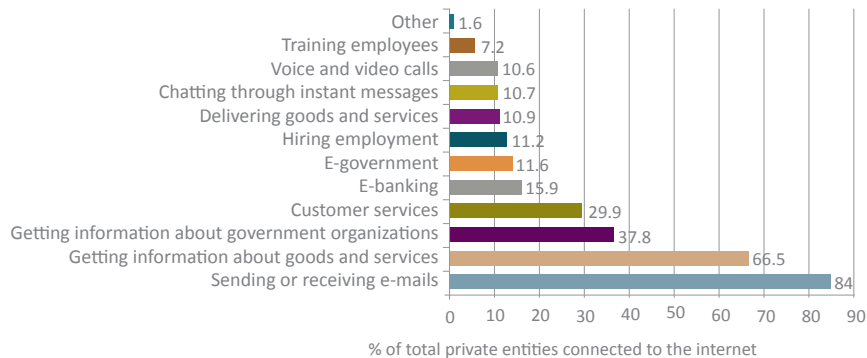
Types of R&D Applied by Private Sector in the last 5 years*



* Multiple answers are allowed.

Source: "Survey of ICT Usage in Businesses", conducted by Ministry of Communications and Information Technology (MCIT) in cooperation with Central Agency for Public Mobilization and Statistics (CAPMAS), 2010.

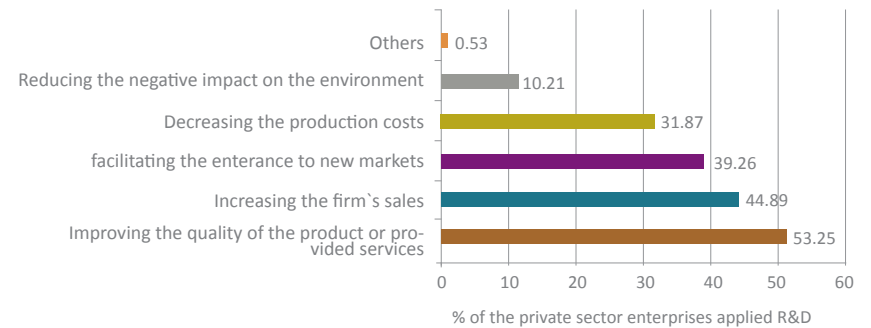
Internet Activities Undertaken by Private Sector*



* Multiple answers are allowed.

Source: "Survey of ICT Usage in Businesses", conducted by Ministry of Communications and Information Technology (MCIT) in cooperation with Central Agency for Public Mobilization and Statistics (CAPMAS), 2010.

The Impact of R&D on Private Sector*



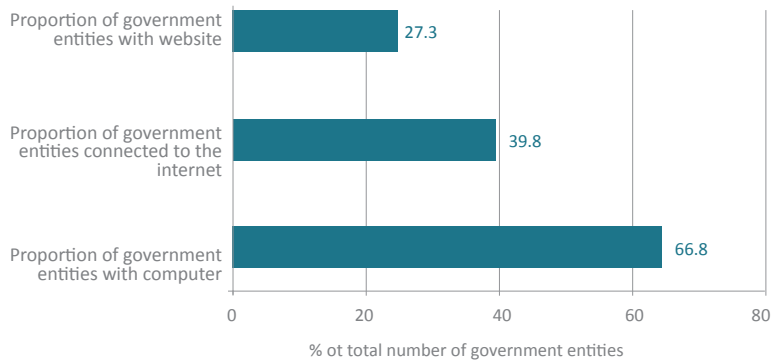
* Multiple answers are allowed.

Source: "Survey of ICT Usage in Businesses", conducted by Ministry of Communications and Information Technology (MCIT) in cooperation with Central Agency for Public Mobilization and Statistics (CAPMAS), 2010.

(1) with equal or greater than 10 employee.

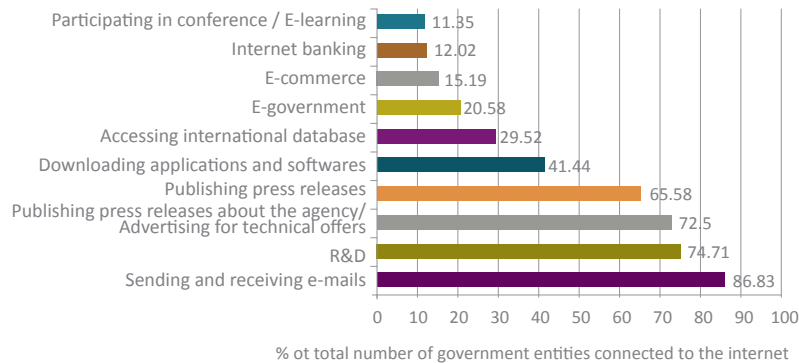
Government Sector

Uses of ICT in Government Sector



Source: "Survey of ICT Usage in Government Sector", conducted by Ministry of Communications and Information Technology (MCIT) in cooperation with Central Agency for Public Mobilization and Statistics (CAPMAS), 2011.

Internet Activities Undertaken by Government Sector*

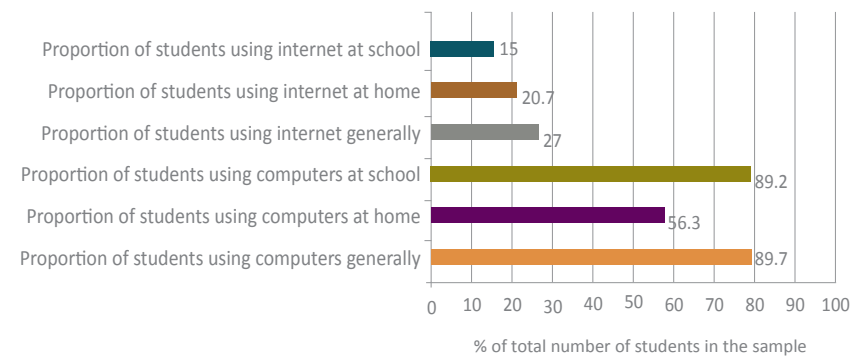


* Multiple answers are allowed

Source: "Survey of ICT Usage in Government Sector", conducted by Ministry of Communications and Information Technology (MCIT) in cooperation with Central Agency for Public Mobilization and Statistics (CAPMAS), 2011.

Pre-University Education

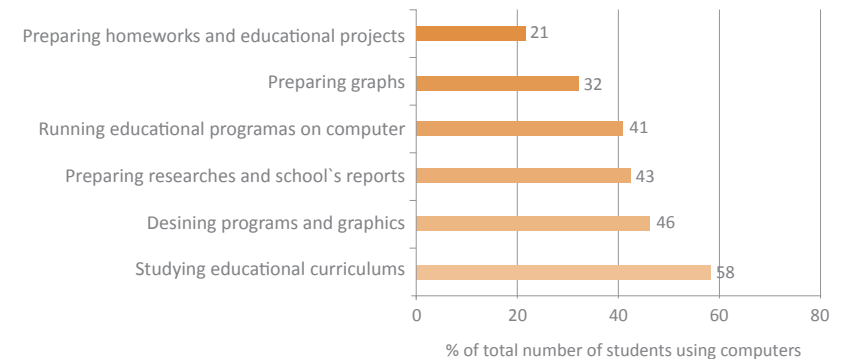
Uses of ICT in Pre- University Education*



* Multiple answers are allowed

Source: Survey of "ICT usage in Pre- University Education", conducted by Ministry of Communications and Information Technology (MCIT) in cooperation with Central Agency for Public Mobilization and Statistics (CAPMAS), June 2010, included 9000 students in pre-university education distributed according to the different education stages.

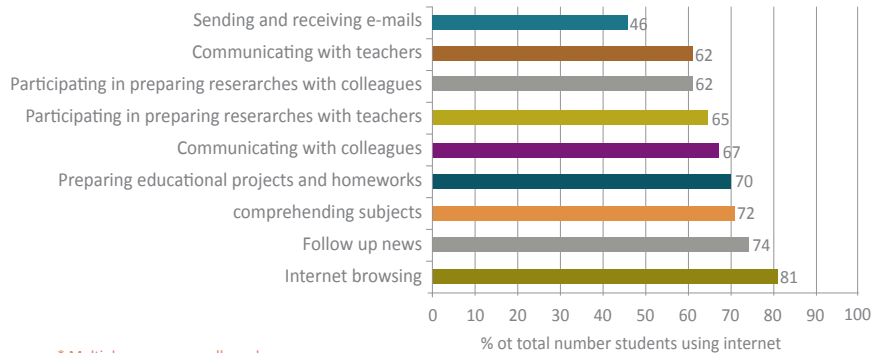
Computer Activities Undertaken by Students in Pre-University Education*



* Multiple answers are allowed

Source: Survey of "ICT usage in Pre- University Education", conducted by Ministry of Communications and Information Technology (MCIT) in cooperation with Central Agency for Public Mobilization and Statistics (CAPMAS), June 2010, included 9000 students in pre-university education distributed according to the different education stages.

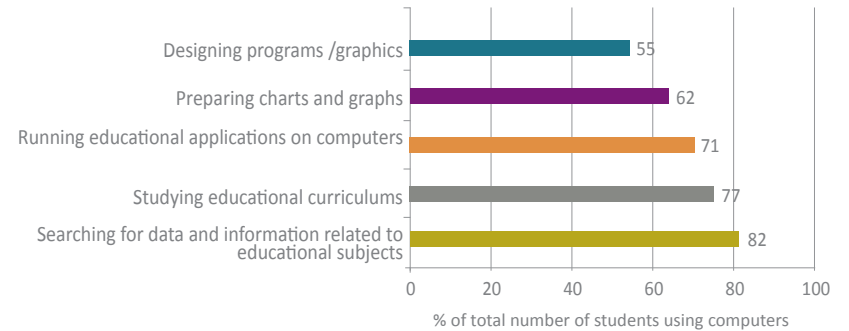
Internet Activities Undertaken by Students in Pre-University Education*



* Multiple answers are allowed

Source: Survey of "ICT usage in Pre- University Education", conducted by Ministry of Communications and Information Technology (MCIT) in cooperation with Central Agency for Public Mobilization and Statistics (CAPMAS) , June 2010, included 9000 students in pre- university education distributed according to the different education stages.

Computer Activities Undertaken by Students in University Education*

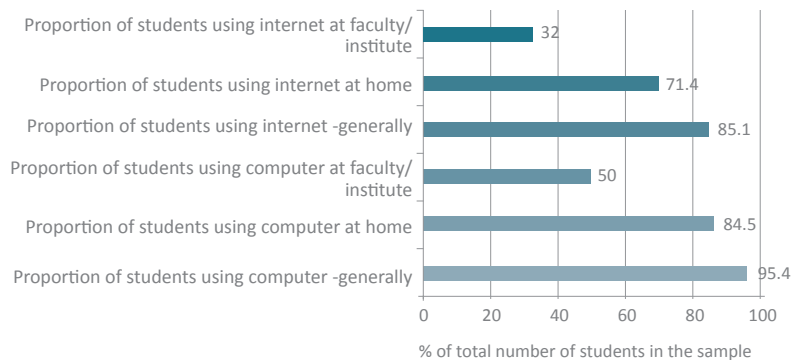


* Multiple answers are allowed

Source: Survey of "ICT usage in University Education", conducted by Ministry of Communications and Information Technology (MCIT) in cooperation with Central Agency for Public Mobilization and Statistics (CAPMAS) , June 2010, included 5234 students in university education distributed according to the different education stages.

University Education

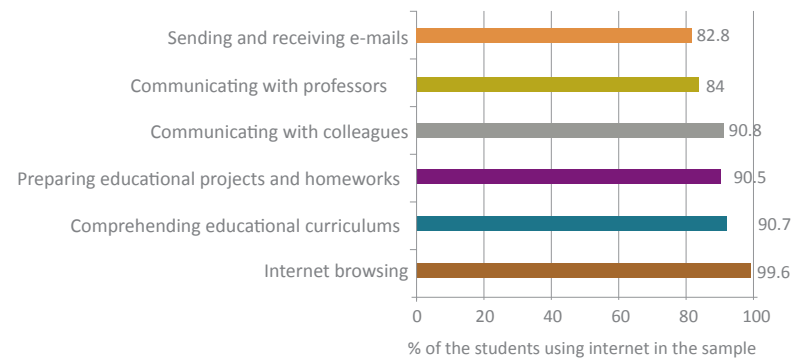
ICT Usage by Students in University Education*



* Multiple answers are allowed

Source: Survey of "ICT usage in University Education", conducted by Ministry of Communications and Information Technology (MCIT) in cooperation with Central Agency for Public Mobilization and Statistics (CAPMAS) , June 2010, included 5234 students in university education distributed according to the different education stages.

Internet Activities Undertaken by Students in University Education*



* Multiple answers are allowed

Source: Survey of "ICT usage in University Education", conducted by Ministry of Communications and Information Technology (MCIT) in cooperation with Central Agency for Public Mobilization and Statistics (CAPMAS) , June 2010, included 5234 students in university education distributed according to the different education stages.

4- The Impact of ICT Usage on Different Sectors

■ Pre-University Education

- The relation between the computer usage by students in preparing assignments and their grades
- The relation between the internet usage by students in getting educational information and their grades

■ University Education

- The relation between the computer usage by students in preparing assignments and educational projects and their grades
- The relation between the internet usage by students in getting educational information and their grades

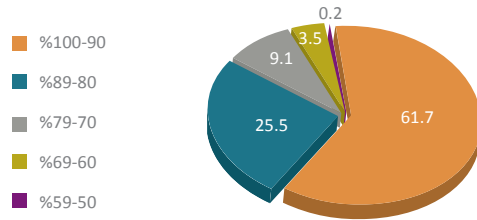
■ The Health Sector:

- The impact of using ICT in Health Sector (from hospital's manager perspective)
- The impact of using ICT in handling emergencies and critical cases more efficient
- The impact of using ICT in Health Sector (from doctors' perspective)
- The impact of using ICT in analyzing the patients' records

Pre-University Education

The relation between the computer usage by students in preparing assignments and their grades

% of total number of students using computers



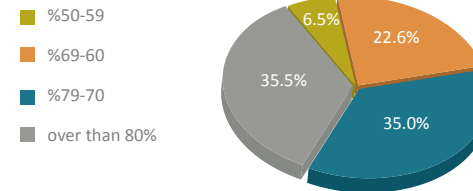
Source: Survey of "ICT usage in Pre- University Education", conducted by Ministry of Communications and Information Technology (MCIT) in cooperation with Central Agency for Public Mobilization and Statistics (CAPMAS) , June 2010, included 9000 students in pre- university education distributed according to the different education stages.

- It is worth mentioning that 61.70% of the students who are using computer in preparing assignments got grades over than 90%

University Education

The relation between the computer usage by students in preparing assignments and educational projects and their grades

% of total number of students using computers in preparing assignments and homework

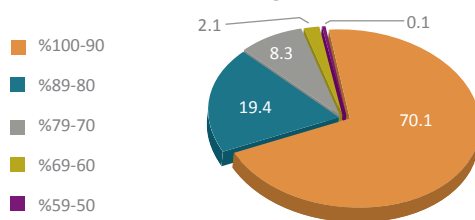


Source: Survey of "ICT usage in University Education", conducted by Ministry of Communications and Information Technology (MCIT) in cooperation with Central Agency for Public Mobilization and Statistics (CAPMAS) , June 2010, included 5234 students in university education distributed according to the different education stages.

- It is worth mentioning that 35% of the students who are using computers in preparing assignments and homework got grades over than 80%

The relation between the internet usage by students in getting educational information and their grades

% of total number of students using internet

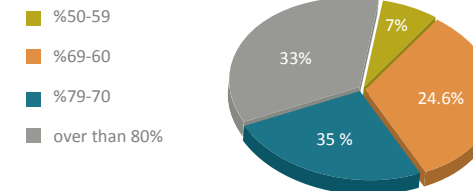


Source: Survey of "ICT usage in Pre- University Education", conducted by Ministry of Communications and Information Technology (MCIT) in cooperation with Central Agency for Public Mobilization and Statistics (CAPMAS) , June 2010, included 9000 students in pre- university education distributed according to the different education stages.

- It is worth mentioning that 70.1% of the students who are using internet in getting educational information got grades over than 90%

The relation between the internet usage by students in getting educational information and their grades

% of total number of students using internet getting educational information

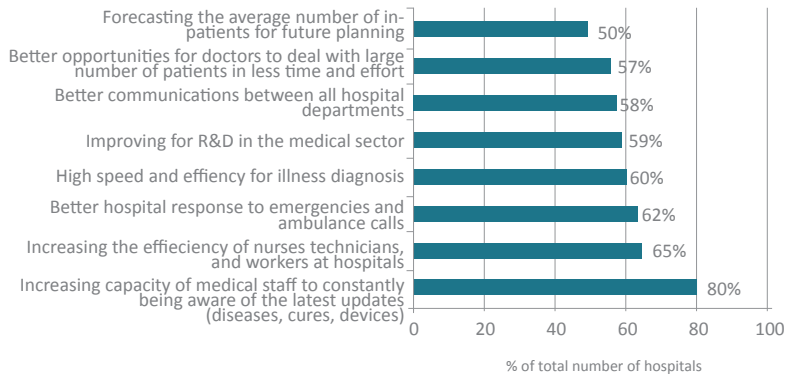


Source: Survey of "ICT usage in University Education", conducted by Ministry of Communications and Information Technology (MCIT) in cooperation with Central Agency for Public Mobilization and Statistics (CAPMAS) , June 2010, included 5234 students in university education distributed according to the different education stages.

- It is worth mentioning that 33% of the students who are using internet in getting educational information got grades over than 80%

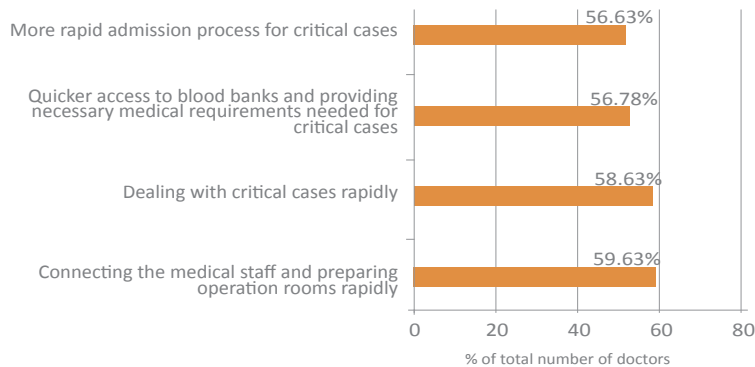
The Health Sector

The impact of using ICT in Health Sector (from hospital's manager perspective)



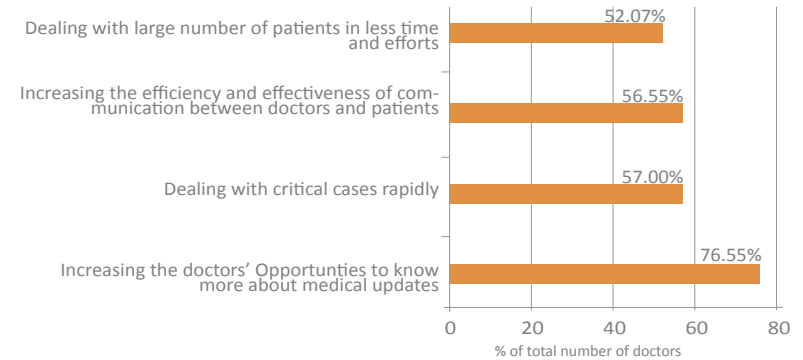
Source: "Survey of ICT usage in Health Sector", conducted by Ministry of Communications and Information Technology in cooperation with CAPMAS, 2011.

The impact of using ICT in handling emergencies and critical cases more efficient



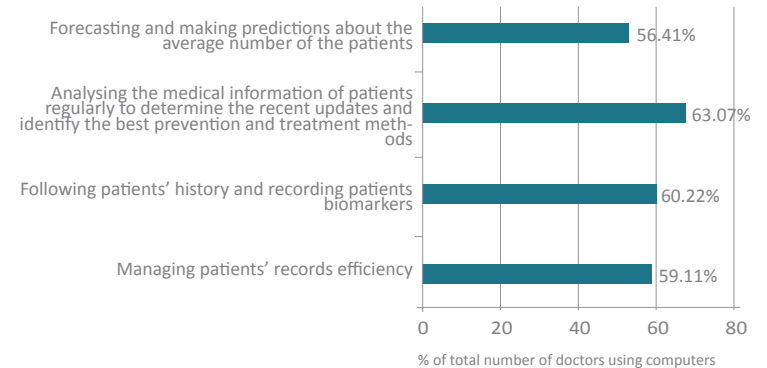
Source: "Survey of ICT usage in Health Sector", conducted by Ministry of Communications and Information Technology in cooperation with CAPMAS, 2011.

The impact of using ICT in Health Sector (from doctors' perspective)



Source: "Survey of ICT usage in Health Sector", conducted by Ministry of Communications and Information Technology in cooperation with CAPMAS, 2011.

The impact of using ICT in analyzing the patients' records



Source: "Survey of ICT usage in Health Sector", conducted by Ministry of Communications and Information Technology in cooperation with CAPMAS, 2011.