# Opportunities – Challenges facing ICT Investors in Egypt.....

6<sup>th</sup> Annual Private Sector Cooperation Meeting in the Arab Region

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## **Egypt ICT On the Move...**

- Information & Communications Technology (ICT) amplifies human ability for the benefit of the economy and the community due to its substantial contribution to employment, exports and diversification of the economy
- Egypt's telecommunications infrastructure has increased dramatically over the last decade
- Solid foundations have been laid gradually at a rate Egyptian society can adapt to, closing the digital divide for Egypt's industries, people and culture to allow the country to move forward

## **Egyptian ICT Recent Achievements**

- Increased infrastructure investments
- Eased restrictions & encouraged FDI
- Encouraged competition
- Increased liberalization & issued a number of licenses
  - Third mobile license
  - International Submarine Cable Licenses
  - 3G license to Vodafone Egypt & Mobinil
  - International Gateway

### **Egyptian Market/Attractive Socio-Economic Conditions**

- Egypt is the most populated country in MENA region - 73M with 60% under the age of 30
  - Average population growth rate of 2%, poises opportunity for potential Market
  - Young Population
  - Labor Force

- Inflation Rate: 5%
- Unemployment rate: 10.3%
- GDP/Capita: ~ \$1,465
- GDP growth rate: 6.7%

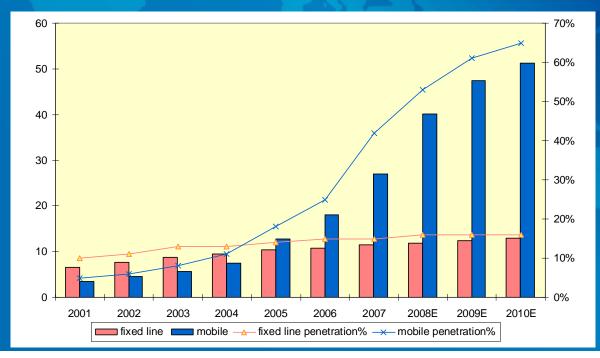
#### **ICT Market Growth**

#### **Fixed Lines**

- No. of installed base: 13.6M
- No. of lines in operation: 11M -15% penetration
- No. of Exchanges 1,604
- Penetration level is approx. 62%

#### **Mobile Lines**

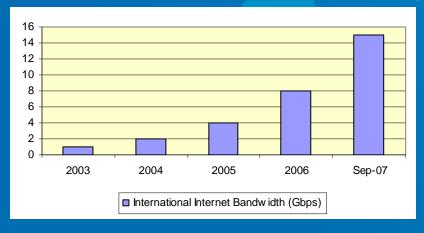
- One of the highest growth rates in the world
- Increase of Mobile Cell Phone Subscribers from 654K to 26.4M during the past 7 years.
- 3 operators together are adding up to 1M new subscribers per month
- Penetration is at 35.86%



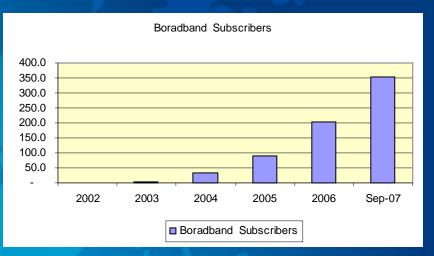
#### **ICT Market Growth**

- Egypt has the largest Internet market in Africa
- Internet Users: 7.7M in Sep 07 up from 6M in Sep 06

International Internet Bandwidth 14,911 (MBps) Aug 07 up from 8,239 (MBps) Aug. 06



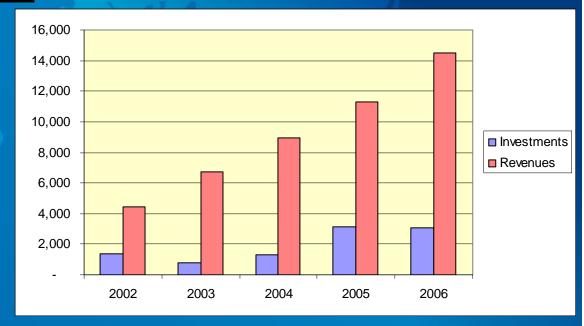
Broadband Subscribers: 353.8K in Sep 07 up from 166.2K Sep 06



## **ICT: Investments & Yields**

Mobile Companies Investment Vs. Revenes (L.E Million)

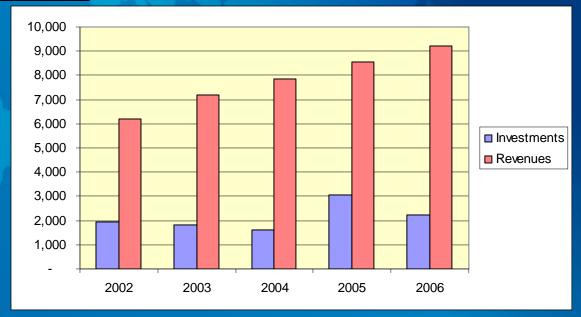
Year	Inv.	Rev.	
2002	1,362	4,454	3.3x
2003	788	6,728	0.9x
2004	1,289	8,919	0.9x
2005	3,141	11,309	0.7x
2006	3,095	14,494	0.8x



## **ICT: Investments & Yields**

Fixed Companies Investment Vs. Revenes (L.E Million)

Year	Inv.	Rev.	
2002	1,953	6,219	3.2x
2003	1,815	7,177	0.7x
2004	1,595	7,858	0.8x
2005	3,048	8,548	<b>0.6</b> x
2006	2,229	9,213	0.8x



Several challenges and risks must be overcome on the way.

#### Unbalanced demand and supply of skilled resources:

- Need to enhance ICT-related technical/managerial skills in the workforce, both through skills training and changes to educational curricula
- Develop corporate mechanisms to keep high calibers within organizations who invested on their training & development

#### **Competition on Price Vs. Quality:**

- Encourage competition on quality rather than price to enhance innovations
- Create awareness among project evaluators
- Increase awareness of the importance of quality that can be reflected on people
- Competition on price rather than quality would lead to cheaper quality products, performance and services
- Severe Competition needs to be controlled to protect the market and help other companies to survive

### Cooperation between major players:

- Convergence between media & ICT boarders between services are vanishing (Media, Internet, Fixed, Mobile operators)
- Acquisitions and joint ventures process could be complex and difficult
- Agreements between operators of different services results in better customer benefit and easier workspace.

#### Limited number of Regional R&D & Technology Parks:

- Stimulate regional R&D, technology parks & excellence centers to compete worldwide.
- Attract international companies to establish their technology centers in these parks
- Provide adequate Parks' facilities (airports, highways, hotels, apartments, hospitals, ,schools....etc)
- Cooperation among Arab countries technology communities
- Need more focus on un-biased high standard research and development (many Students travel abroad to work in the R&D fields and do not find adequate institutions in their home countries)
- Progress in each of the above areas will create a more conducive environment for innovation

#### **Over-licensing**

- The number of licenses should be controlled to prevent monopoly and in the same time prevents dumping, which could result to:
  - Increases the competition more than the market can handle
  - Hurts the operator business case and ROI

#### **Government Regulations:**

- Enhance a joint public-private sector ICT strategy that will be reviewed on regular basis
- Encourage outsourcing in services, R&D, SW centers, call centers, ...etc
- Stimulate demand for ICT through initiatives to bring public services online.
- Allocate enough share of public funds to applied research, university labs and research centers
- Many bidders have advantages for certain licenses above the others enabling like have a different operator of possibly bundled services

#### **Personal experience**

In the third mobile license, the bid process was:

#### Pros

- Completely transparent
- Professionally evaluated technically
- Commercially handled in a smart manner

#### Cons

- The lack of spectrum during the 3rd mobile license bid had limited the choice to only one technology.
- Need to develop a national solution to the spectrum management problem in order to clear the whole telecommunication spectrum once and for all not on case by case basis

## Opportunities on the way will further stimulate the sector .....

- 2<sup>nd</sup> Fixed line Operator
- Call centers
- Broadband and converged services (Wi-Max, EVDO, HSPA, etc)
- Regional R&D & Technology Parks & Excellence Centers
- Triple play offerings for voice, data and video