



وزارة الإتصالات وتكنولوجيا المعلومات

Ministry of Information and
Communications Technology



وزارة الإتصالات وتكنولوجيا المعلومات

Ministry of Information and
Communications Technology

Investing in the Future

Jordan's **Leadership** Drive Change

By:

Suhair Al Khatib, Ph.D
Advisor, Ministry of ICT
Jordan

May 2, 2006

الإتصال للمعرفة
Virtually yours



وزارة الإتصالات وتكنولوجيا المعلومات

Ministry of Information and
Communications Technology

Head of State:

H.M King Abdullah II

Population

5.323 million.

Population growth rate reached 2.5%

Area

Total: 89,213 sq. km (34, 445 sq. miles); Land: 88,884 sq. km (34, 318 sq. miles); Water: 329 sq. km (127 sq. miles)

GDP:

GDP at Market Prices US\$11.51bn

GDP at Current Prices US\$2,163

GDP Growth:

Real GDP growth rate in 2004 was more than 7.5 percent, up considerably from 4 percent in 2003.

الإتصال للمعرفة

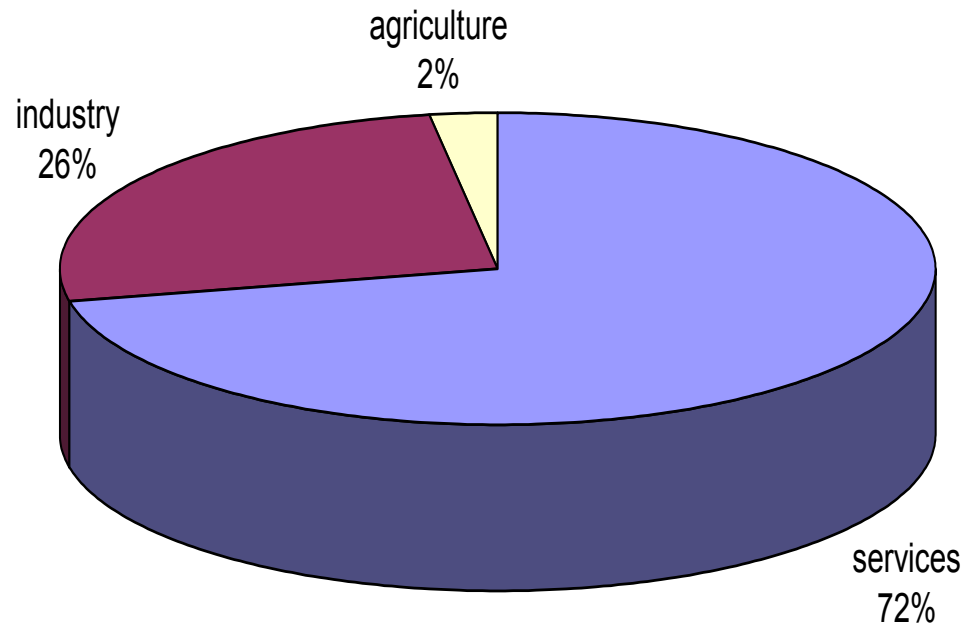
Virtually yours



وزارة الإتصالات وتكنولوجيا المعلومات

Ministry of Information and
Communications Technology

Structure of the Jordanian economy as a percentage of GDP, 2004



الإتصال للمعرفة
Virtually yours



وزارة الإتصالات وتكنولوجيا المعلومات

Ministry of Information and
Communications Technology

Why ICT in Jordan

الإتصال للمعرفة
Virtually yours





وزارة الإتصالات وتكنولوجيا المعلومات

Ministry of Information and
Communications Technology

Leadership Support



“The vision of Jordan is to become a regional IT leader and an internationally recognized exporter of IT products and services **exploiting its core human capital advantages**. The key to success is the central role of the private sector, which spearheads the sustained entry of the sector into international markets.”

“We have followed a path that will allow the technological revolution to **harness our available talent** into productive sectors that can fuel and sustain economic growth”

H.M King Abdullah II

الإتصال للمعرفة
Virtually yours



وزارة الإتصالات وتكنولوجيا المعلومات

Ministry of Information and
Communications Technology

ICT Sector Potential

ICT Sector	End 2004	2010	2015	2020
Gross output	\$ 440m	\$900m	\$1.3Bn	\$1.75Bn
Employment	8523	16000	20000	25000
Investments cumulative from 2001 (FDI)	\$83	\$140	\$200	\$300
Exports	\$80	\$140	\$200	\$300

Source: JV2020

الإتصال للمعرفة
Virtually yours



Education System

- Jordan ranks among the top Arab countries in education expenses
- ERfKE Programme – revamping the K-12 educational system
- 10 public universities, 12 private universities, and 17 community colleges
 - house more than 120,000 students
- Universities produce more than 5,000 high caliber, bilingual (Arabic and English), ICT graduates each year
- 72% of schools have internet access



Committed Skilled Young Talent

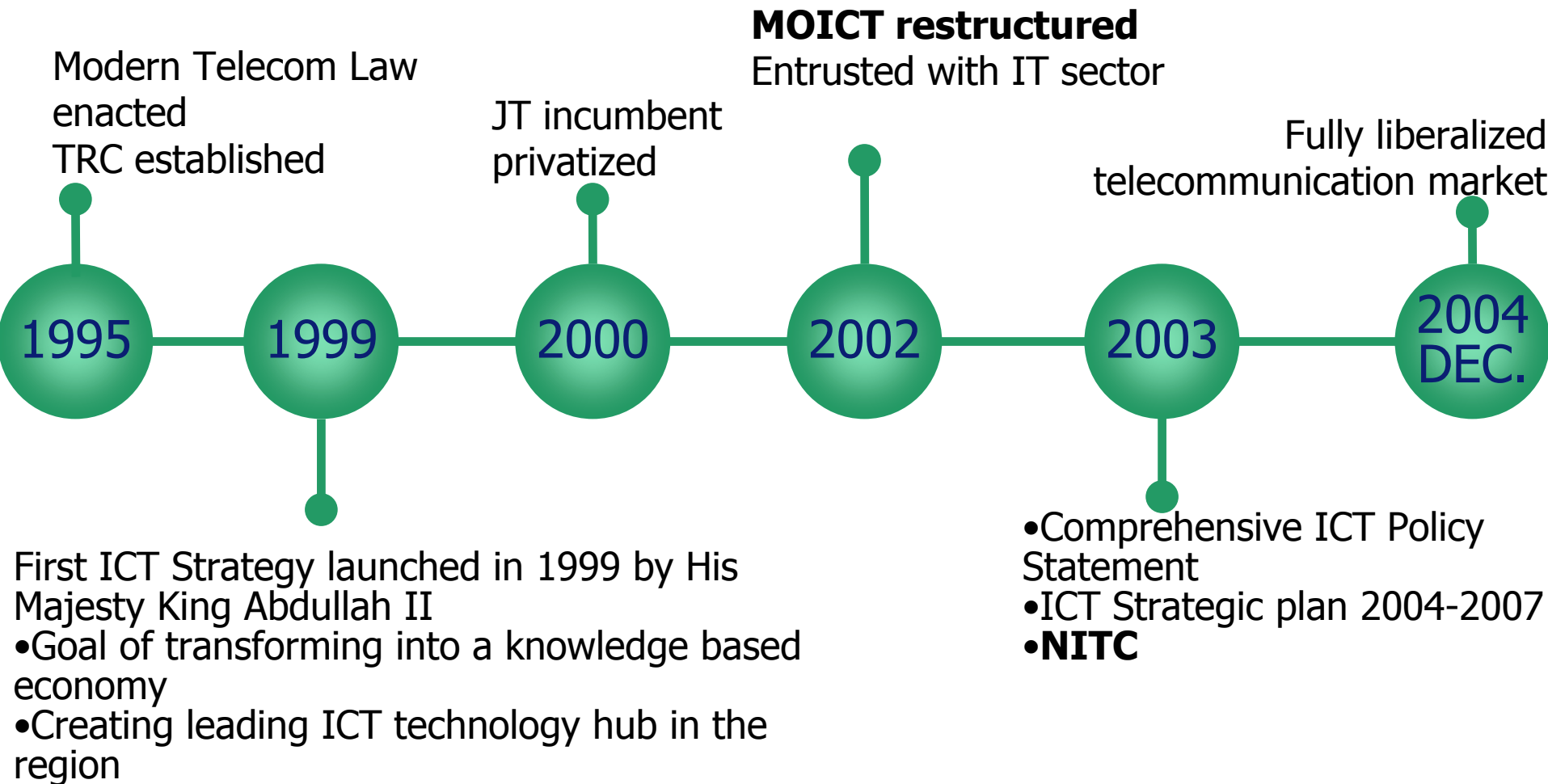
- 70% of population under the age of 25 (3.8mill)
- Literacy rate of about 90%
- 20% of Jordanians obtain higher education
- Jordan ranked 14th out of 110 countries for the **number of engineers and scientists** (WEF 2005)
- Jordan ranked 27 out of 102 countries for the **quality of the educational system** (WEF 2004)



Government Support

- Identifying ICT sectors as drivers and enablers of economic and social growth
- Mandating Ministry of ICT to work towards achieving the National Goals
- Furnishing modern laws and clear regulatory environment
- Working in complete partnership with the private sector
- Role out programmes and initiatives supporting the national goals (NBN, JEI, Knowledge Stations.. Etc)

Jordan ICT Milestones





Jordan ICT Vision

A competitive ICT sector that is given the widest possible scope to enhance the quality of life of citizens and contribute to the socio-economic development of the Kingdom

Ready
for the



world ● ● ●



Mission:

“Creating the legal, institutional and commercial environment for a market that rewards innovation and yields products and services at affordable prices to consumers.”

“Increasing skill sets, confidence and work readiness amongst young Jordanians and expanding community understanding, application and use of ICT.”



وزارة الإتصالات وتكنولوجيا المعلومات

Ministry of Information and
Communications Technology

Incorporating ICT into the Lives of Jordanians

الإتصال للمعرفة
Virtually yours





Programmes & Initiatives aimed at;

- Supporting Innovation & Entrepreneurship
- Connecting universities & schools with High speed internet access
- Adapting schools curricula to meeting challenges of the information society developing content
- Availing connectivity to rural areas and establishing community access points and bridging the digital divide
- Capacity Building/ Youth development/ PPP
- Incorporating ICT in government (launching e-Government program)



وزارة الإتصالات وتكنولوجيا المعلومات

Ministry of Information and
Communications Technology

الإتصال للمعرفة
Virtually yours

Supporting Innovation & Entrepreneurship

Innovation Centers & Incubators





Technology Incubators to encourage innovative solution development in partnership with private sector:

- Yarmouk University
- Jordan Innovation Centers Network
 - I-park incubators
 - Jordan Innovation Center
 - Philadelphia University
 - JIC – University of Jordan
 - Al-Hasan Industrial zone

Research & Development

- R&D Strategy (under draft)
- 1% of revenues to be spend on R&D
- Innovation Fund with Microsoft



وزارة الإتصالات وتكنولوجيا المعلومات

Ministry of Information and
Communications Technology

Connecting universities & schools with High speed internet access

National Broadband
Learning and Educational
Network (NBN):

الإتصال للمعرفة

Virtually yours

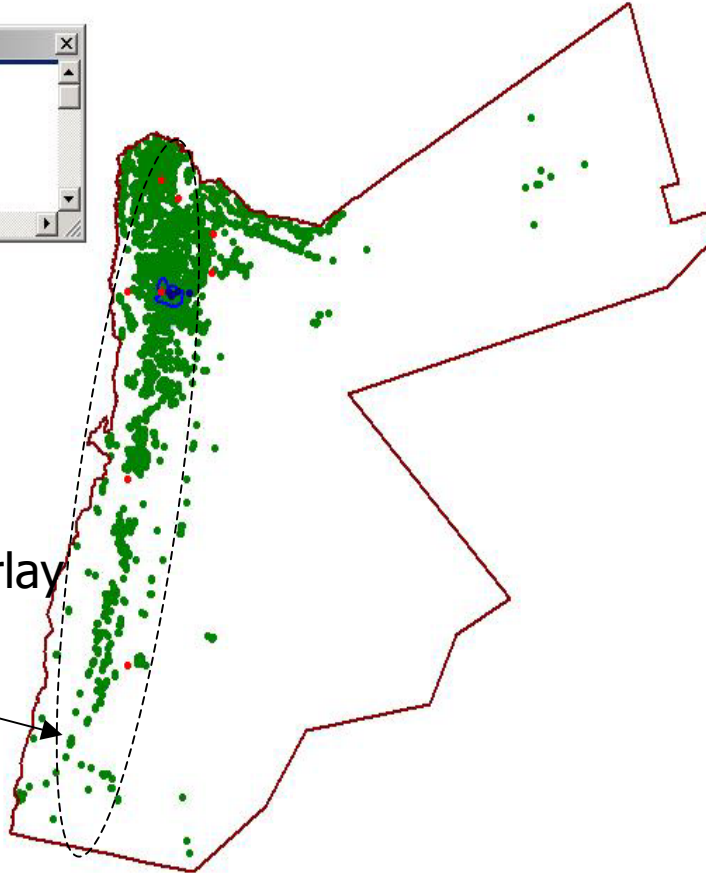




NBN Network in Jordan



National Overlay
Network



5000 km optical fiber

**Access to 1.5 m persons by
2008**

**8 public universities GEANT
17 community colleges**

**3300 public schools
300,000 students**

**114 knowledge stations
12 learning centers**

Adapting Schools Curricula to meet Information Society Challenges

Jordan Education Initiative

Jordan Education Initiative



الإتصال للمعرفة
Virtually yours





وزارة الإتصالات وتكنولوجيا المعلومات

Ministry of Information and
Communications Technology

JEI: Vision

A global capacity building model of effective public-private partnership that leverages reform to generate value through innovation.

الإتصال للمعرفة
Virtually yours

Jordan Education Initiative





JEI: Objectives

- Improve education and its role as a catalyst for social and economic development
- Develop a public-private partnership model.
- Build the capacity of Jordan's IT industry
- Develop innovative learning solutions by the industry in partnership with world class firms:
 - creating economic value and mutual beneficial business opportunities





JEI: Achievements

Since it started in 2003:

- **5 e-curricula** (Math, ICT, English, Arabic, Science)
- **Piloted in 100 Discovery Schools**
- **Global Education Initiative** (as of 2005)
- 17 global corporations, 17 Jordanian entities, and 11 gov. and non-gov. org. work to achieve JEI objectives





JEI: Figures

Text	Text
Connected Schools	100
Total Computer Labs	227
Total PCs in Labs	4000
ICT Trained Teachers (all over Jordan)	50000
Students Benefiting	5500





وزارة الإتصالات وتكنولوجيا المعلومات

Ministry of Information and
Communications Technology

Availing connectivity to rural areas and establishing community access points and bridging the digital divide

E-Initiatives

الإتصال للمعرفة

Virtually yours





E-Initiatives: Objectives

- Increasing awareness of the benefits of using ICT
- Improving access to technology
- Enabling all Jordanians to partake in the Information Society
- Bridging the digital gap
- Empowering local communities to use ICT for their own development
- Assisting Jordanians in integrating ICT into their daily lives
- Develop entrepreneurship spirit
- Increasing youth employment in the ICT sector. These programs will lead to improved economic, cultural and social prospects for all citizens



- Net Corps Jordan:
 - Training of young volunteers on ICT topics and recruiting them to transfer knowledge
 - 130 graduates working as ICT agents in their communities contributing towards **SME development**

- Mother and Child program
 - Training of kids (4-7 years) on language and math using computers
 - Parents (especially mothers) take part
 - 74 children graduated

- Robotics:
 - make education a fun experience
 - Annual competition for best Robot development



■ Intel Computer Clubhouse:

- An after-school community-based technology learning program
- Provides a learning environment and ICT tools where young people explore their own interests
- Encourages young's creativity

■ Knowledge Stations:

- Public centers with computers, internet, and trainers.
- 114 all over kingdom to date
- Providing access points for e-Government
- Providing electronic services to the community
- training 58000 Jordanian and 34000 visitor, which created 800 different job opportunity.

■ PC@every home:

- affordable price, and convenient payment facilities.
- In progress

■ E-village:

- WIFI
- 1st community based radio station.
- Movie clubhouse
- CISCO Academy



وزارة الإتصالات وتكنولوجيا المعلومات

Ministry of Information and
Communications Technology

*Ensuring that Jordanian citizens have
access to ICTs within their reach*

Advanced Infrastructure

الإتصال للمعرفة

Virtually yours





- Jordan is already well endowed with telecommunications infrastructure. A fixed or mobile telephone service is available almost universally in inhabited areas of the country, and penetration has reached more than 93% of households overall and the minimum penetration at a regional level is 75% of households in rural areas of the South Region.
- As a consequence of market liberalization, Jordan is adopting a universal 'service' obligation model where a requirement is placed upon operators to serve particular geographic areas or groups of citizens where commercial services is not viable.
- The purpose of maintaining universal service and universal access is to ensure economic and social development in the Kingdom of Jordan.



وزارة الإتصالات وتكنولوجيا المعلومات

Ministry of Information and
Communications Technology

Capacity Building

Opportunities for Youth

الإتصال للمعرفة

Virtually yours





- Junior Professional Program:
 - Talented Jordanian ICT students are trained in renowned companies in Jordan or abroad.
 - 3 students were sent to UK

- Intel Scholarship program – financing education in Jordanian universities for top performers, and providing training opportunities at Intel offices around the world.

- Microsoft Internship Programme



وزارة الإتصالات وتكنولوجيا المعلومات

Ministry of Information and
Communications Technology

*Connecting all local and central
government departments and establish
websites and email addresses with ICTs*

E-government

الإتصال للمعرفة

Virtually yours





E-government program

- .Infrastructure
- .E-services
- .Operation & maintenance
- .Capacity building / change management
- .Shared services
- .Standards and specifications

SGN Secure government network

Portal Project Phase I: Directory of all government institutions

King Abdullah Award includes a pillar on e-government.

Regional e-government initiative –UNDP-ICTDAR



وزارة الإتصالات وتكنولوجيا المعلومات

Ministry of Information and
Communications Technology

Shared Experiences

الإتصال للمعرفة

Virtually yours





- Investing in ICT is Key to Socio-economic growth and prosperity
- In order to empower ICT sector into creating more opportunities, three critical challenges has to be overcome:
 - Ensuring access, improving quality, and providing the right teaching for our time.
- IT initiatives will remain as initiatives if not supported by a proper sustainability model
- Public-Private partnership is key to ICT Development
- Education and innovation are pillars for future development, ...ICT is a tool and Youths are the implementers.





وزارة الإتصالات وتكنولوجيا المعلومات

Ministry of Information and
Communications Technology

**We may be a small country,
but we have big ambition for our young population**

THANK YOU

الإتصال للمعرفة

Virtually yours

