

The Internet In Jordan Opportunities & Challenges

Khalid Samara
RIPE NCC Levant Regional Meeting
April 25, 2016
Beirut

INTRODUCTION

- Jordan has actively opened its telecommunications sector by easing government restrictions and limitations to network providers.
- Internet penetration has increased tremendously.
- But the Internet phenomenon is not without challenges despite its benefits to the Jordanian economy and productivity.

JORDAN IN BRIEF



- Capital: Amman
- Population: 7.73 million (2015)
- GDP: USD35.77 billion (2014) (12.2%)
- Relies heavily on foreign aid
 - Since 1999, focus on:
 - economic stabilization
 - market liberalization
 - Reducing size of the government
- Full liberalization of the telecom sector,
 - Increased no. of licensed operators
 - Increased competition
 - Low prices
 - Higher broadband penetration

Overview

Jordan has traditionally been a regional leader in developing, adopting and utilizing information and communication technology

Jordan has a highly developed communications infrastructure

Jordan was one of the first Arab countries to introduce communication and information technology to the economy

Mobile broadband network download and upload speeds in Jordan are slightly above the average in Middle East and Africa (MEA) countries

INTERNET PENETRATION IN JORDAN

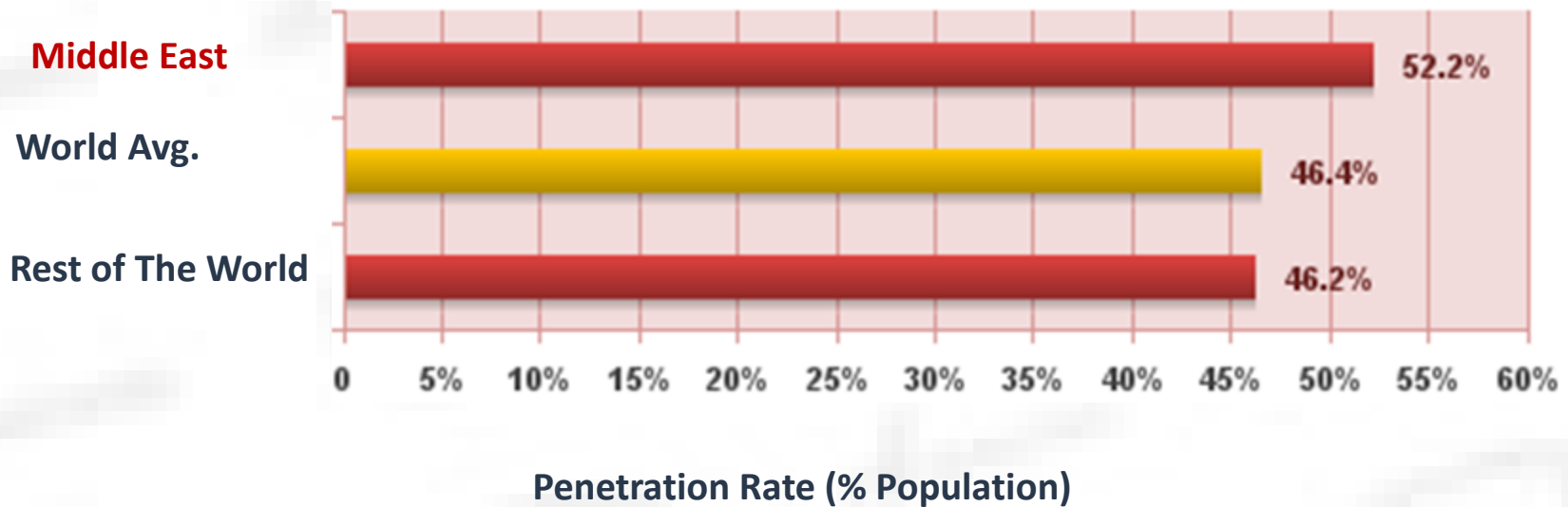
Year	Users	Population	% Pop.
2000	127,300	5,282,558	2.4 %
2002	457,000	5,282,558	8.7 %
2005	600,000	5,282,558	11.4 %
2007	796,900	5,375,307	14.8 %
2008	1,126,700	6,198,677	18.2 %
2009	1,742,000	6,269,285	28.1 %
2010	2,324,000	6,407,085	38.0%
2012	4,260,000	6,508,887	67.0%
2015	5,700,00	6,623,279	86.1 %

- Internet users: **5.7 million**
- **86.1%** of the total population 2015
- Internet users: **6.2 million** - June 2015
- The growth of Internet users outpaces the growth of the population
- More growth expected with the launch of new technologies 3G,4G Fiber, MW etc.
- **3 Main ISP & Telecom Provider:**
(Zain ,Orange ,Umniah)

History of Telecommunications developments in Jordan

1971	1993	1994	1995	2000	2009	2014
Telecommunications Corporation (TCC) was established as a Government controlled entity responsible for the provision of various telecom services, including telephone, telegraph and telex and for regulating them.	the private sector was allowed to invest in telecommunications projects	First mobile cellular license in Jordan	Telecommunications Regulatory Commission (TRC) was established	Jordan became a full member of the WTO. Jordan has provided its obligations regarding the telecommunications sector within the presentations made to join the organization, which included fully liberalizing the telecommunications sector by the end of 2004	TRC granted a third generation (3G) license to 1st Mobile Company	first 4G LTE license in Jordan

Penetration in Middle East Nov 2015



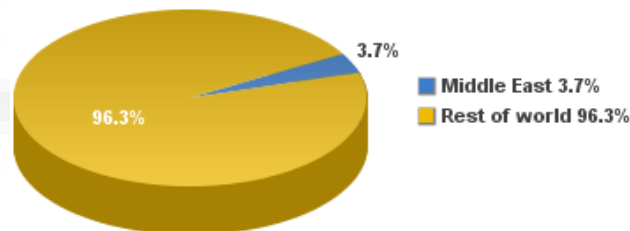
Penetration in Middle East Nov 2015

- Internet Users

MIDDLE EAST vs REST OF THE WORLD

	Population (2015 Est.)	Pop.% Of world	Internet users 30-Nov-15	% Population (Penetration)	Internet %Users	Facebook 15-Nov-15
Total Middle East	236,137,235	3.30%	123,172,132	52.20%	3.70%	49,400,000
Rest of the World	7,023,765,008	96.7%	3,243,087,924	46.20%	96.30%	1,465,804,150
World Total	7,259,902,243	100%	3,366,260,056	46.40%	100%	1,515,204,150

Internet Users in the Middle East
November - 2015

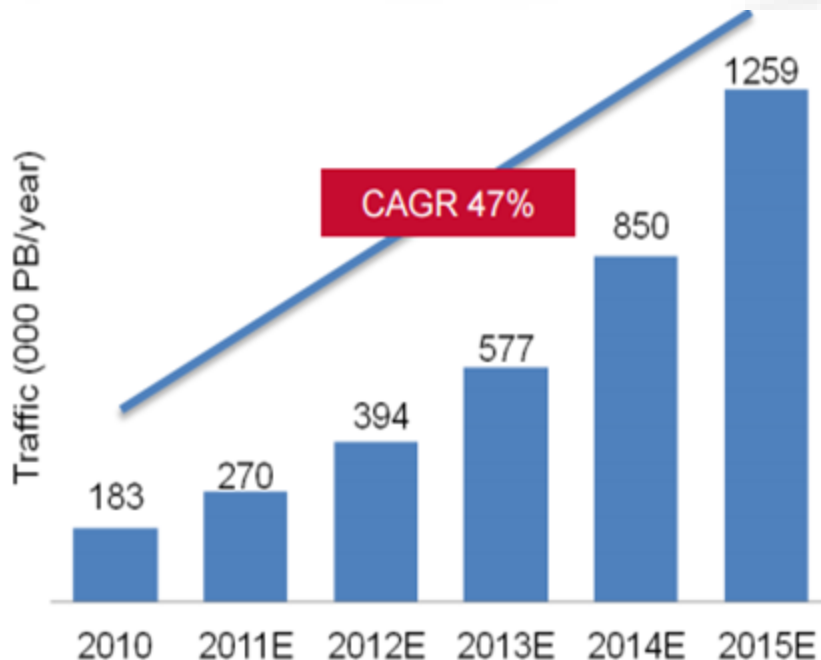


Source: Internet World Stats - www.internetworldstats.com

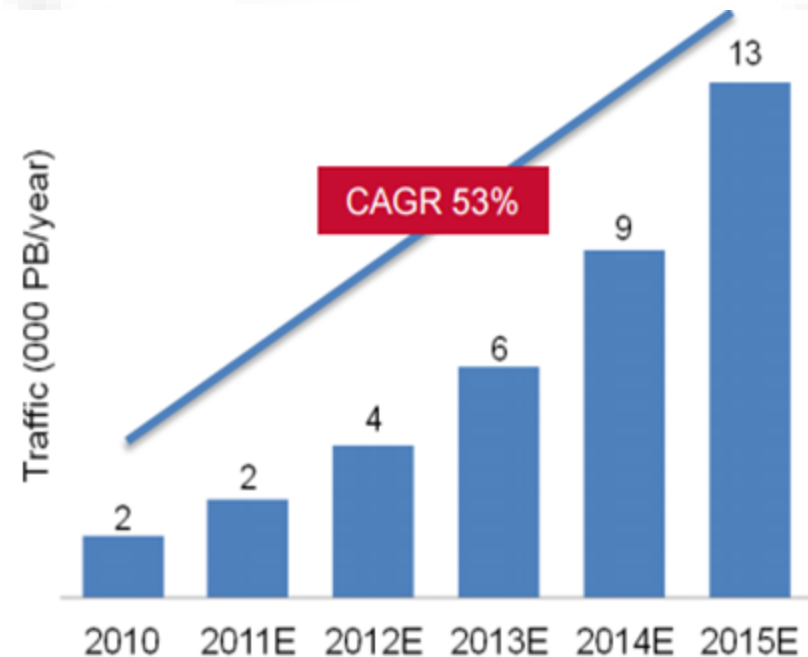
Penetration in Middle East Nov 2015

- Internet Traffic Keeps growing rapidly, but Middle East Growth will only slightly outperform global growth !

Global Internet traffic



Middle East Internet traffic

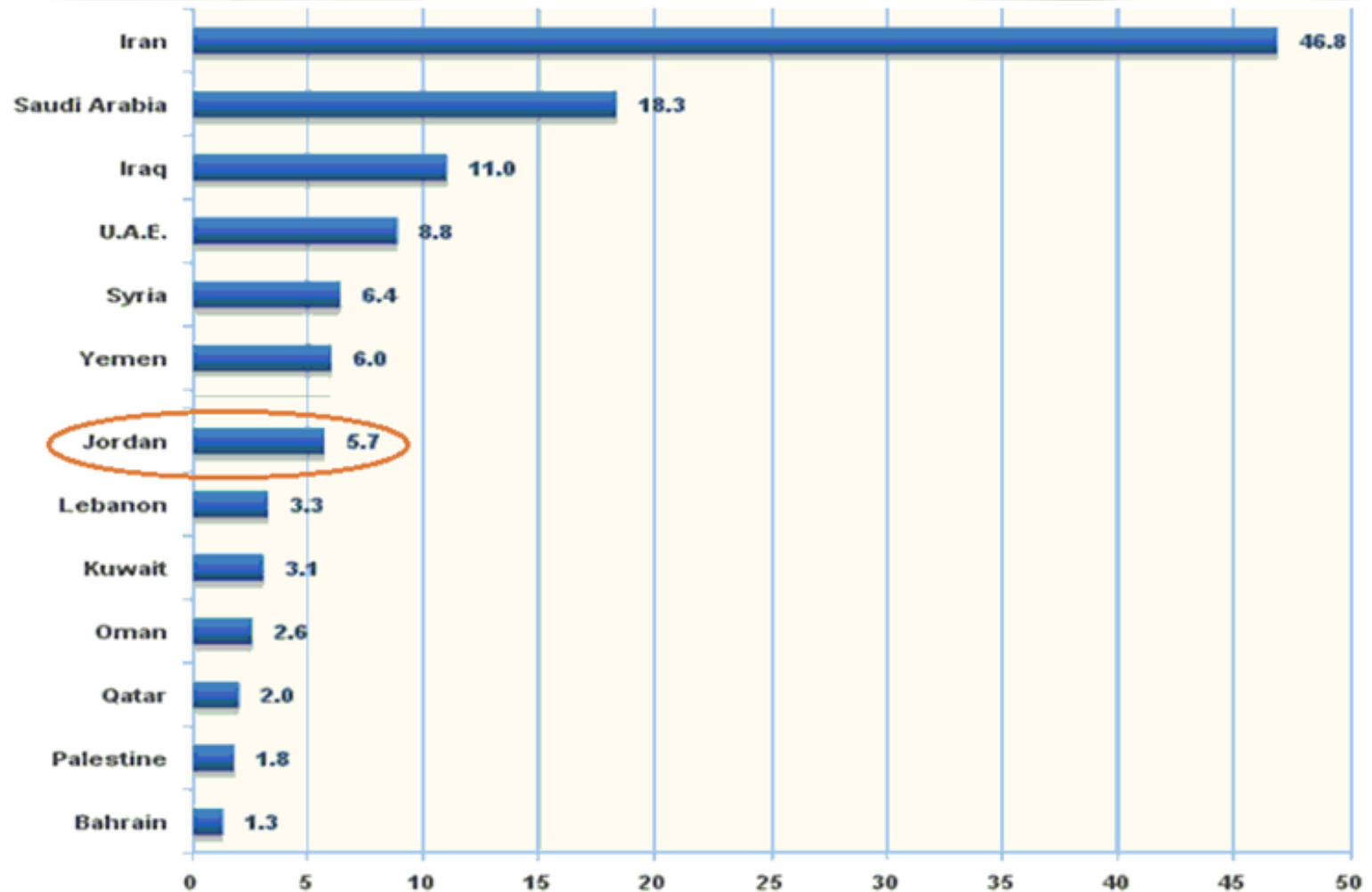


INTERNET USERS -2015

JORDAN vs Middle East

Middle East	Population (2015 Est.)	Users, in Dec/2000	Internet Usage 30-Nov-2015	% Population (Penetration)	Internet % users	Facebook 15-Nov- 2015
Bahrain	1,346,613	40,000	1,297,500	96.4 %	1.1 %	700,000
Iran	81,824,270	250,000	46,800,000	57.2 %	38.0 %	n/a
Iraq	33,309,836	12,500	11,000,000	33.0 %	8.9 %	11,000,000
Jordan	6,623,279	127,300	5,700,000	86.1 %	4.6 %	4,100,000
Kuwait	3,996,899	150,000	3,145,559	78.7 %	2.6 %	1,900,000
Lebanon	4,151,234	300,000	3,336,517	80.4 %	2.7 %	2,600,000
Oman	3,286,936	90,000	2,584,316	78.6 %	2.1 %	1,200,000
Palestine (West Bk.)	2,785,366	35,000	1,800,000	64.6 %	1.5 %	1,800,000
Qatar	2,194,817	30,000	2,016,400	91.9 %	1.6 %	1,700,000
Saudi Arabia	27,752,316	200,000	18,300,000	65.9 %	14.9 %	12,000,000
Syria	22,878,524	30,000	6,426,577	28.1 %	5.2 %	n/a
United Arab Emirates	9,445,624	735,000	8,807,226	93.2 %	7.2 %	6,300,000
Yemen	26,737,317	15,000	6,029,265	22.6 %	4.9 %	1,700,000
Gaza Strip	1,869,055	n/a	see Palestina	n/a	n/a	see Palestina
TOTAL Middle East	236,137,235	3,284,800	123,172,132	52.2 %	100.0 %	49,400,000

Middle East Users East per country 2015



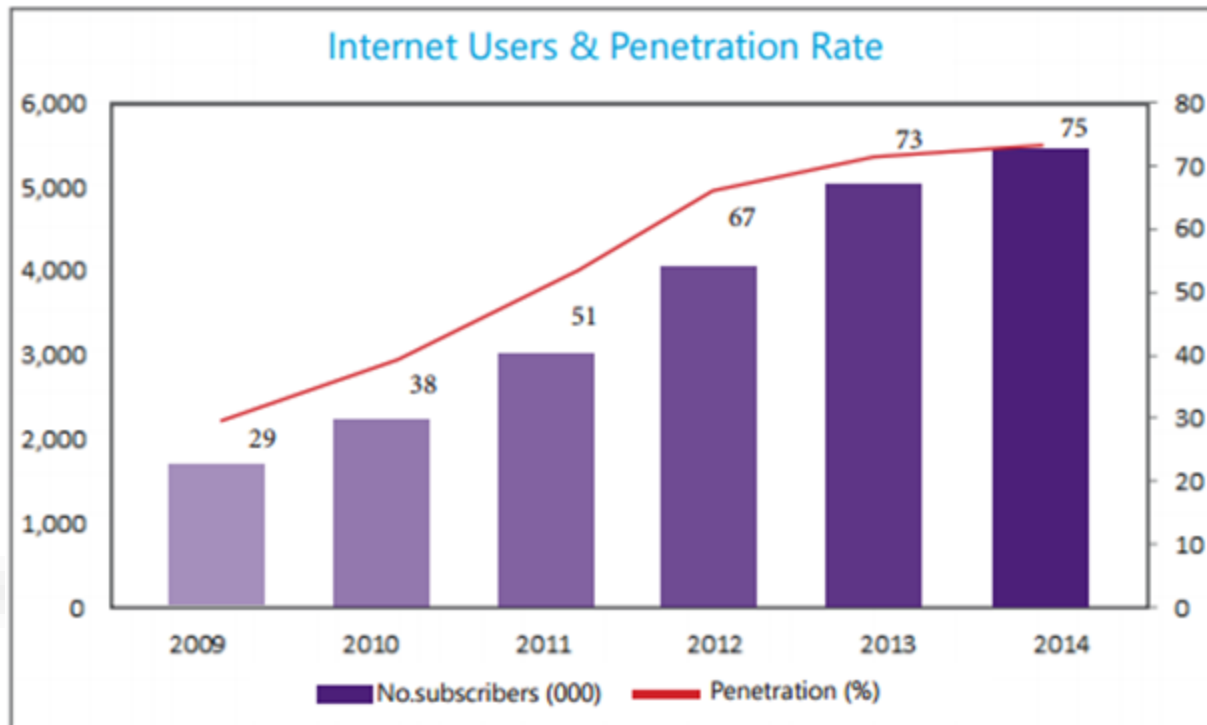
■ Million of internet users

Internet Penetration in JORDAN

INTERNET USERS

INTERNET RELATED TO USERS OF THE INTERNET SERVICE DURING THE PERIOD (2009-2014)

Year	2009	2010	2011	2012	2013	2014
No.of users (In thousands)	1742	2324	3137	4260	5320	5650
Penetration rate (%)	29	38	51	67	73	75

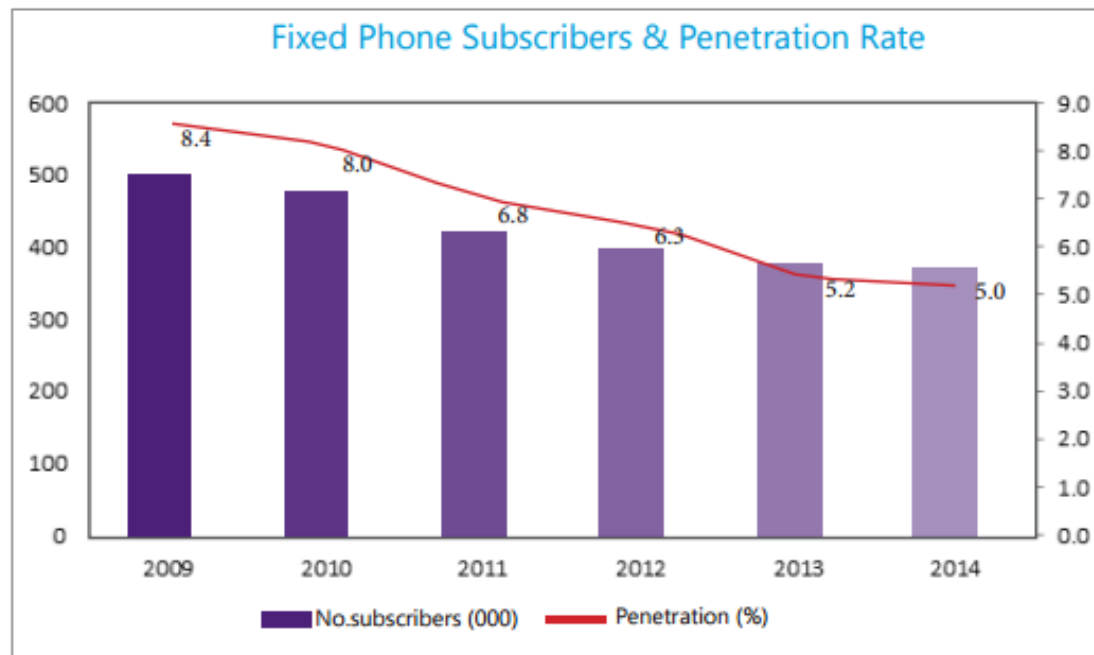


Internet Penetration in Jordan

MOBILE & FIXED SUBSCRIPTION

Active Mobile Subscriptions (Q4-2015)

	Post-Paid	Pre-Paid	Total
Zain	647,413	4,213,125	4,860,538
Orange	198,248	4,336,058	4,534,306
Umniah	144,722	4,193,452	4,338,174
Frendi	0	64,950	64,950
Total	990,383	12,807,585	13,797,968



Internet Penetration in Jordan

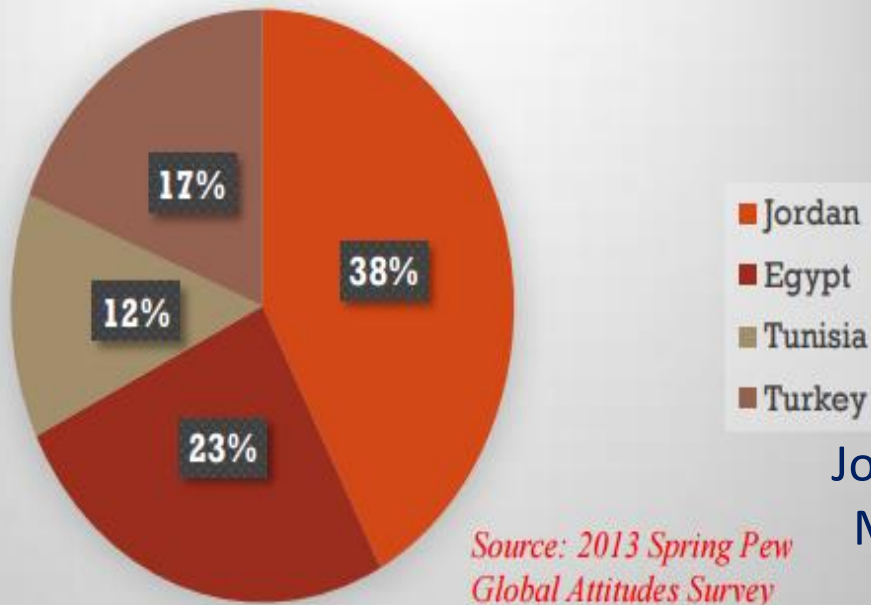
Per service - Quarterly

Internet users		First Quarter	Second Quarter	Third Quarter	Fourth Quarter
	Number of User (million)	5.3	5.4	5.6	5.7
	Penetration rate	73%	73%	74%	75%
Internet subscribers		First Quarter	Second Quarter	Third Quarter	Fourth Quarter
	Dial-up	384	364	362	361
	ADSL	205102	207713	211732	213398
	Wi-Max	122774	125909	125481	128626
	Leased Line	1614	1629	1525	1620
	TV-Cable	5700	6069	6000	6200
	Mobile Broadband	1127952	1209603	1300908	1430148
	Total	1463526	1551287	1646008	1780389
	Penetration rate	21%	21%	22%	24%

Internet Penetration In JORDAN

Smart Phones

Smartphone ownership (%)

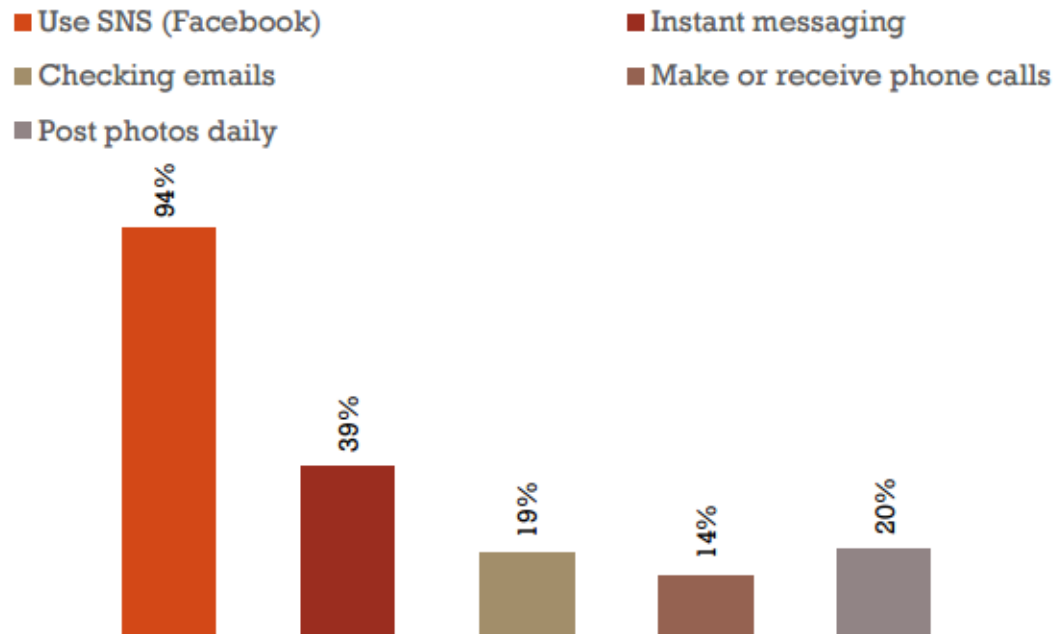


Internet penetration further heightened with the development of smart mobile phones.

Jordan is among the countries in the Middle East with high smartphone ownership.

Use of Internet In Middle East

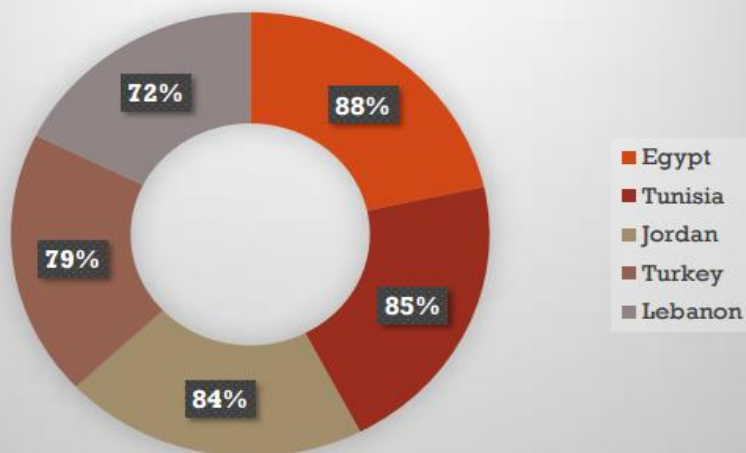
USE OF INTERNET



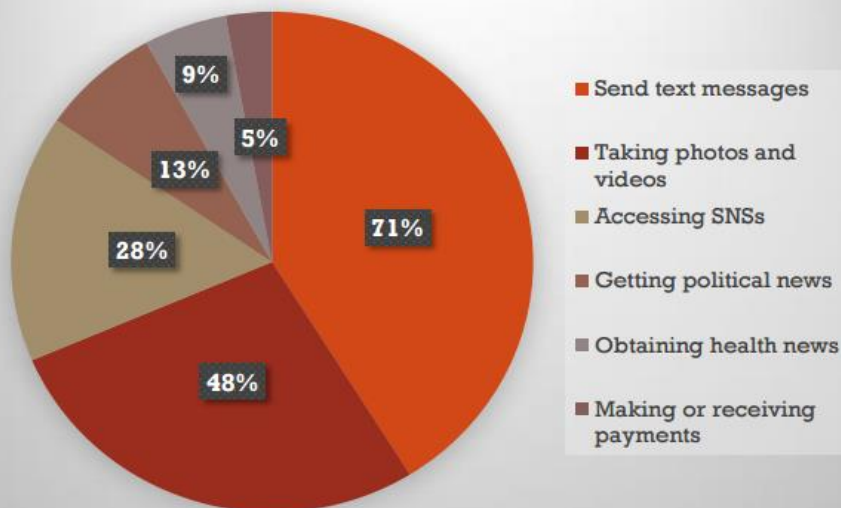
Source: Media Use in the Middle East (2013)

Smartphones Usage in Jordan

Internet use of SNS (%)



Use of mobile phones (%)



Total Jordan Subscribers

Sector	2013	2016
Internet users	5.30	6.5
Fixed-line telephony	0.38	0.35
Mobile phone	10.31	14.20

- Overview Jordan Subscribers to telecoms services (million): (e)

Investment in Telecommunications Sector

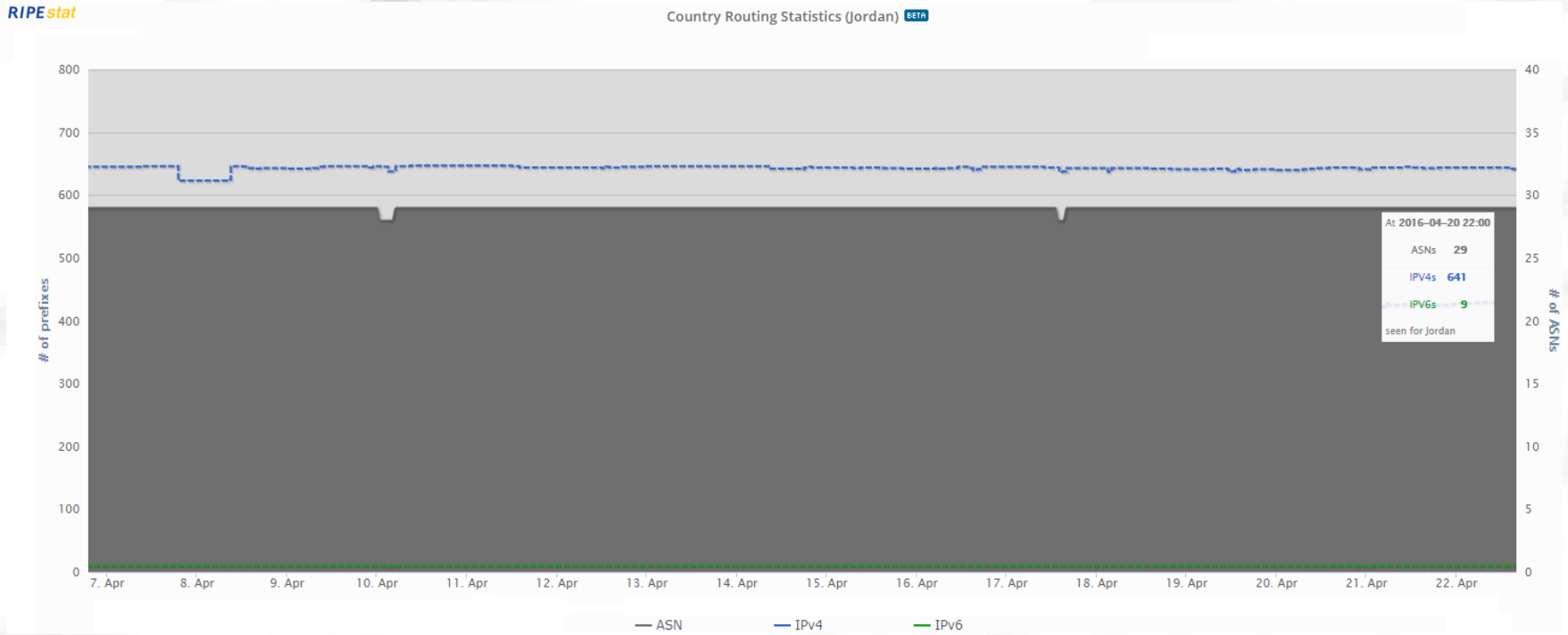
Evolution of the volume of investment in the telecommunications sector
(2009-2014) (in million JD)

Volume of Annual Investment in the Telecommunications Sector (JD million)						
	2009	2010	2011	2012	2013	2014
Fixed line	24	15	14	18	8	17.1
Mobile phone	120	124	101	122	127	131.5
Internet	31	80	26	4	3	11.4
Other telecommunication services	0.5	0.8	1	0	0	0
Total	175.5	219.8	142	144	138	160

Evolution of the number of employees in the telecommunications sector
(2009-2014)

No. of Employees in the Telecommunications Sector						
	2009	2010	2011	2012	2013	2014
Fixed line	2060	1958	1964	1900	1741	1644
Mobile phone	2296	2464	1796	2143	2151	2133
Internet	1080	830	779	533	300	500
Other telecommunication services	320	65	61	20	20	27
Total	5756	5317	4600	4596	4212	4304

Internet In Jordan IP assignments



IPV4		Prefixes	ASNs	Prefixes / ASN
Jordan		649	33	19

IPV6		Prefixes	ASNs	Prefixes / ASN
Jordan		10	7	1

Opportunities for internet connectivity success

- Latest Mobile & backhauling technologies
- Latest transmission networks with high capacities in both governmental and private sectors
- general government trend to increase & facilitate telecommunication and information technology easing government restrictions and limitations to network providers.
- Three main internet & telecommunication services providers (Zain , Orange, Umniah)

Major connectivity obstacles in Jordan

- High prices and low market maturity decelerate broadband penetration in Jordan.
- Regional and international connectivity to the Internet is both complex (no regional backbones) and costly in Jordan.
- Mass broadband adoption is the result of the availability of content and applications that are pertinent to internet end-users in their native language, and contributes in turn to the promotion of increased productivity in the economy as a result of this mass adoption.
- The development of digital Arabic content on the Internet to become the main medium for the exchange of information between end-users in their native language.

Thank You

www.Menog.org

