



Mobile Internet

Michael.Minges@itu.int

Arab Region
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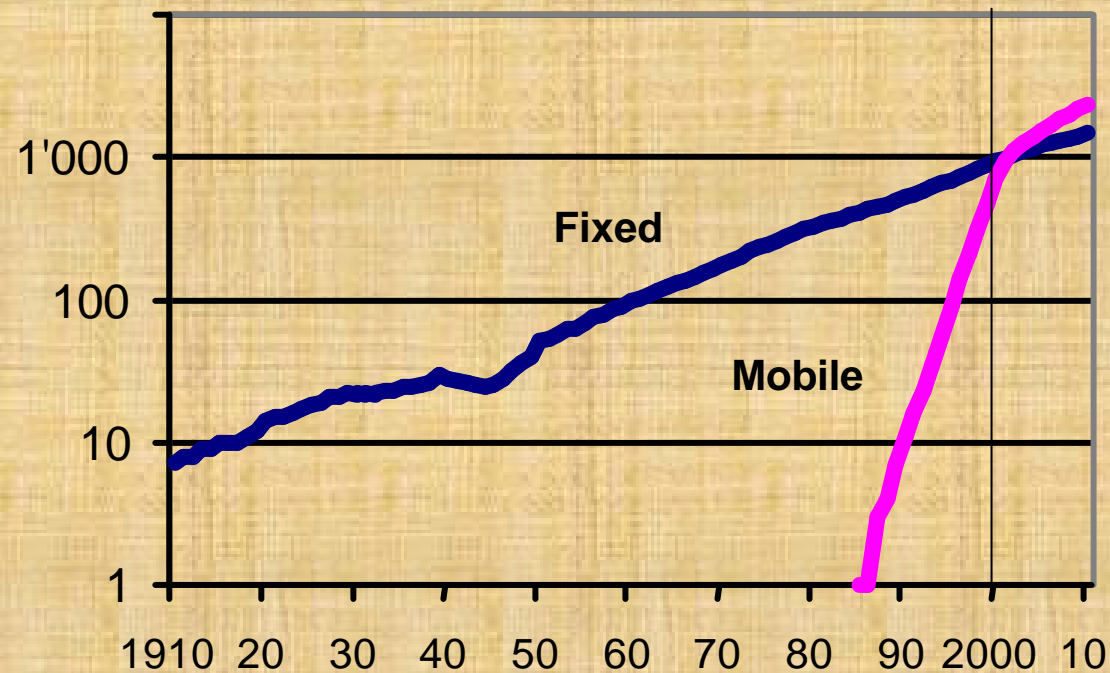
Topics

- Mobile boom
- From 2.5G to 3G
- Mobile Internet in Arab region
- Conclusions



Mobile passes fixed

World Telephone Subscribers, millions



Source: ITU.



More Mobile Countries

<u>1993</u>	<u>1998</u>	<u>1999</u>	<u>2000</u>	
Cambodia	Finland	Austria	Bahrain	Netherlands
		Cote d'Ivoire	Belgium	Philippines
		Hongkong SAR	Botswana	Rwanda
		Israel	Chile	Senegal
		Italy	El Salvador	Singapore
		Korea (Rep.)	Greece	Slovenia
		Paraguay	Iceland	South Africa
		Portugal	Ireland	Taiwan-China
		Uganda	Luxembourg	UAE
		Venezuela	Morocco	UK

Source: ITU.

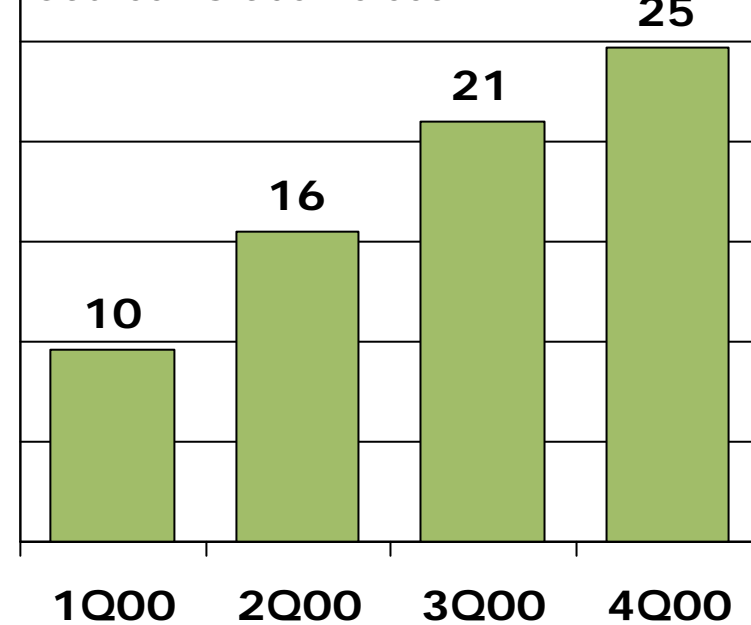


SMS

- Short Message Service
- e-mail for mobiles
- December 2000: 15 billion SMS (35 per subscriber)
- MMS before end of year

**Globe Telecom, Philippines
Daily SMS, millions**

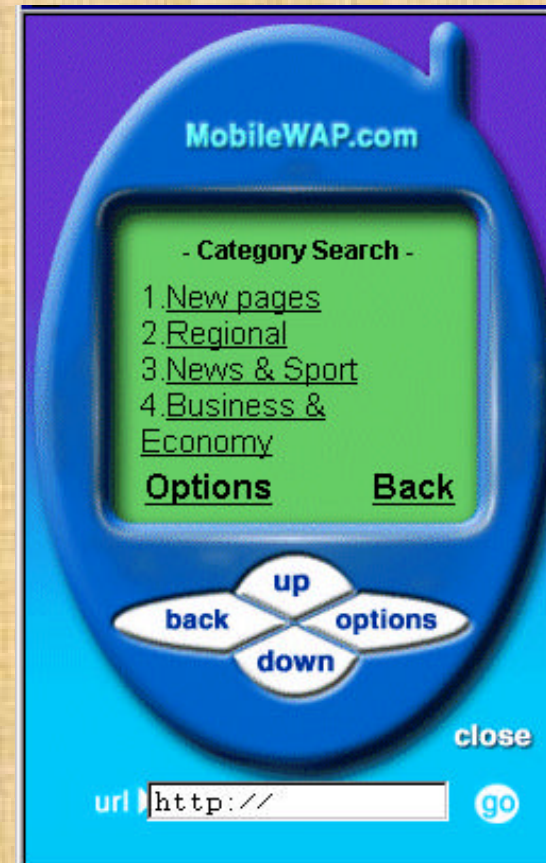
Source: Globe Telecom





W@P

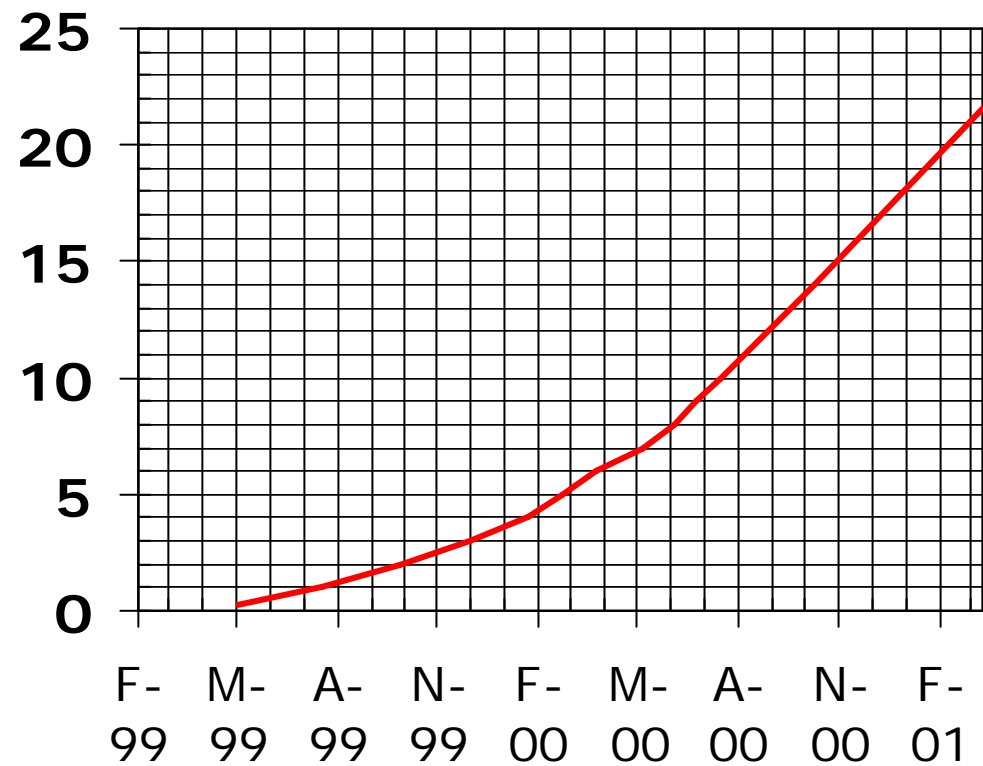
- Wireless Application Protocol
- 18 million users
- ~200 carriers launched WAP or testing
- ~50 million WAP phones
- 12'000 WAP sites in 100+ countries





i-madness

**NTT DoCoMo subscribers
millions**



Source: DoCoMo.



3G

- IMT-2000
- Global standard
- High speed:
 - 384kbps mobile
 - 2Mbps stationary
- Licensing



<http://www.itu.int/imt/>



Wireless Dial-up?

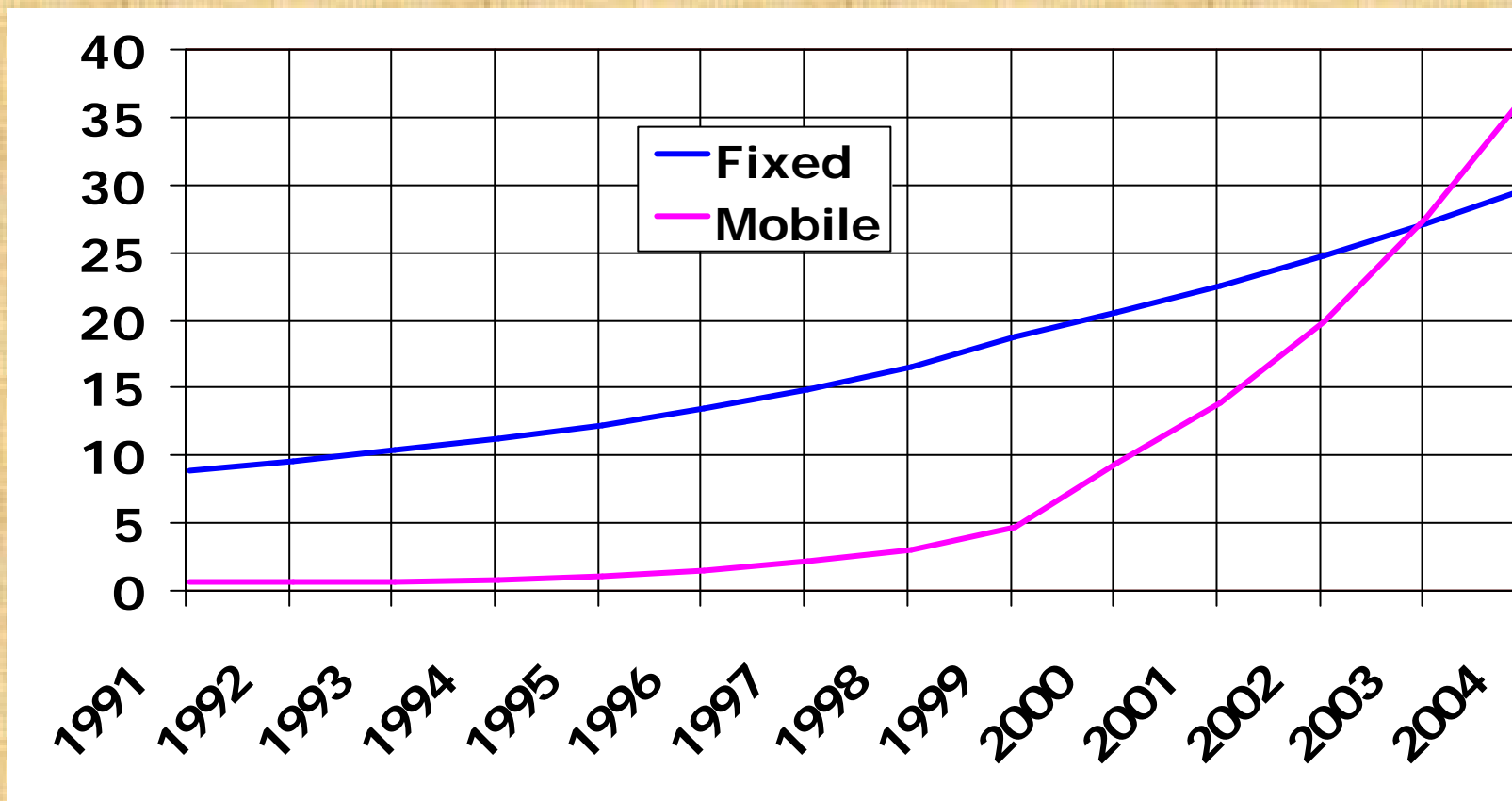
- GSM: 9.6 kbps
- HSCSD: 38.4 kbps
- GPRS: 115 kbps
- EDGE: 384 kbps





Mobile in Arab Region

Arab Region Telephone Subscribers, millions



Source: ITU.



ICT Indicators

Country	Mobile Subs. (000s)	Fixed Mobile Subs. (000s)	/ Fixed	Internet Subs. (000s)	Mobile / Internet	PCs (000s)	Mobile / PC
Algeria	86	1'761	0.0	17	5.0	200	0.4
Bahrain	206	171	1.2	22	9.4	144	1.4
Egypt	1'360	5'484	0.2	90	15.1	938	1.5
Jordan	389	620	0.6	32	12.2	150	2.6
Kuwait	476	467	1.0	60	7.9	278	1.7
Lebanon	700	681	1.0	100	7.0	340	2.1
Morocco	2'342	1'425	1.6	30	77.3	500	4.7
Oman	164	225	0.7	24	6.9	85	1.9
Qatar	119	160	0.7	10	11.4	91	1.3
S. Arabia	1'376	2'965	0.5	200	6.9	1'440	1.0
Syria	27	1'675	0.0	6	4.5	330	0.1
Tunisia	110	900	0.1	37	3.0	219	0.5
UAE	1'428	1'020	1.4	210	6.8	360	4.0
Yemen	40	340	0.1	5	8.0	36	1.1
Arab Region	8'823	17'895	0.5	844	10.5	5'111	1.7



2.5G in the Arab region

Country	Operator	SMS	WAP
UAE	Etisalat	✓	Trial
Bahrain	Batelcom	✓	Trial
Kuwait	MTC	✓	✓
	Wataniya	✓	☒
Oman	OmanTel	☒	☒
Qatar	Q-tel	☒	☒
Saudi Arabia	STC	☒	Trial
Egypt	Mobinil	✓	Trial
	ClickGSM	✓	✓
Jordan	Fastlink	✓	✓
	Mobilecom	✓	☒
Morocco	Meditel	✓	N/A
	Maroc Telecom	✓	✓

Source: Pyramid Research.



Info2Cell.com

- WASP
- Content for SMS and WAP
- Located in Dubai Internet City
- Support up to 300'000 subscribers
- Etisalat (UAE),
Fastlink (Jordan),
MobiNil (Egypt)





Relevance for developing countries

- More mobiles than fixed lines, Internet subscribers or PCs
- Mobile operators have bigger brand recognition than ISPs
- High speed wireless
- m-commerce



Next Steps

- Pushing 2.5
- Operators working with content providers
- Licensing 3G