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Wireless br	oadband te	chnologies				
Technology	Availability	Standard To	otal capacity	Typical capacity/speed	Typical maximum	Line of sight
			(Mbps)	per user (Mbps)	range (km)	required?
Fixed WiMAX	End-05	IEEE 802.16-200	4 70	2-10	10	Yes
Mobile WiMAX	End-06	IEEE 802.16e	70 per	2-3 portable, 1-2 mobile	5	Depends on
		(draft standard)	channel			band and
						application
HSDPA	End-05	3GPP	14	1-2	5	No
TDD	Deployed	3GPP	12	1-2	5	No
Sources: Ovum, 3G k	fobile	J				
T	Promotir	ng the global such ti	cess of hird generati	on mobile	WBDT Regional Seminar on overgence and new network b Region, Tunis, 21-24 Nov	Fixed Mobile k architecture for the vember 2005















		3G	and Enhanced 30	G	4G
		R'99/R'4	Midterm evolution	Super 3G	New mobile access
Spe	Ctrum 3G spectrum (2GHz band and the additional bands) New spectrum		New spectrum		
Radio	aspect	WCDMA	HSDPA, EDCH, etc.	Ultimate enhancement	New radio interface
	Radio access	Direct-seque	ence CDMA	New access such as OFDM, MIMO, etc.	New access technology
	Min. TTI (latency)	10ms	2ms	<0.5ms	<0.5ms
	Carrier bandwidth	5M	Hz	5-20MHz, Fit in 5MHz	100MHz
	Data rate	384Kbps-2Mbps	14Mbps	30-100Mbps	100Mbps-1Gbps
		CS ar	nd PS	PS only	
letwork aspect		GTP (tunneling) [IP routing in core network]		IP rounting in core network and RAN	







	Technology	3G status	Comments
Bahrain	GSM / EDGE	MTC-Vodafone EDGE / WCDMA (Dec-03)	No launch date released for Bateloo
☆ Israel	GSM / GPRS CDMA IDEN	Peplephone CDMA 2K EV-DO (September-04) Cellcom WCDMA (June-04) Partner WCDMA (December-04)	MIRS operates an iDEN network. No information released about 3G upgrade
Jordan	GSM	Mobilcom EDGE in deployment	Fastlink has applied for a 3G
Kuwait	GSM/EDGE	MTC-Vodafone EDGE (end-04) WCDMA trials Wataniya EDGE launch (March-05)	MTC & Motorola 3G trials
Qatar	GSM	Roll-out WCDMA (end 2005)	Monopoly
Saudi Arabia	GSM	Etilsalat EDGE trials (March-05) WCDMA in deployIment	STC state owned is autorisied to deploy a 3G network
* * Syria	GSM	no lience attribution project for the moment	-
UAE	GSM	Etilsalat WCDMA (December-04)	Monopoly
North Africa	Technology	3G status	Comments
Morrocco	GSM	Call bid 3G 24 february 2005. 2 licences for current WCDMA operators. Another 3G WLL to be awarded	To be granted in June 2005
🚱 Algeria	GSWEDGE CDMA WLL	Huawei bulding a CDMA WLL network for Mobilis (Alger Telecom) Orascom EDGE roll out	Licences to be awarded in 2007
🐼 Tunisia	GSM	Experimental 3G network for the ITU's 2nd phase of the World Summit on the Information Society	Commercial services to be launched during 2H 05
Lybia	GSM	Alcatel to deliver GSM/EDGE solution and WCDMA	Monopoly
	GSM CDMA 2000 1x	Telecom Egipt deploying CDMA 2000 WLL Mobile 3G licences to be awarded from 2006 on	Telecom Egypt is moving to access the mobile market
n Egypt	WLL		





