

Broad band mobility via PWLAN

HAHN, WON-SIC Ph.D. Managing Director Fixed Mobile Convergence Business Department Marketing Group *KT*

hahn@kt.co.kr o) 82-31-727-2970 Mobile) 82-16-9777-6711

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Overview

Part I. Market Push

Part II. Motivation of PWLAN

Part III. NESPOT, PWLAN Service in KOREA



Part I. Market Push

Broadband Global Market Share



2002 Broadband Market Share in Korea



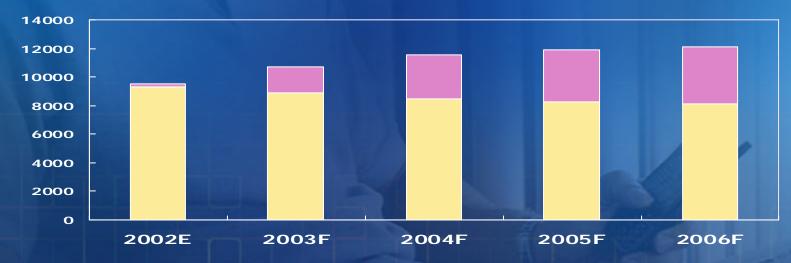
Broadband Extension for Hidden Market in KOREA (I)

Speed						
	10M (Sep. 2002)	Hidden Market				
8Mbps 2Mbps	Broad band	WLAN	31M(2001.12)			
			CDMA			
	Stationary	Quasi-	Mobile	Mobili	ity	
	Broad band		WLAN		CDMA	
Coverage	Home, Office	Hot spots + Home + Office			Wide area	
Throughput	high	high			Low	
Terminals	PC	PDA, Notebook,Desk top			Phone, PDA	
Applications	WEB	E-book, VOD, AOD, mp3 POP3 Mail, Messenger			Voice, Short Message	
Customers	Students at home	Students/businessmen at home, campus and office			Ordinary users	
		Internet power users in hotspot area			1 montes	
Promoted Industry	PC, DSL, Router, Portal	PDA, Wireless-LAN, Notebook			CDMA, Phone Industry	

Broadband Extension for Hidden Market in KOREA (II)

Unit:1,000

	2002	2003	2004	2005	2006	
Broadband Subscribers Expected	9,536	10,691	11,574	11,928	12,167	
Net Addition	1,691	1,155	884	354	239	
Wireless LAN + BB Users Expected	191	1,829	3,089	3,632	4,068	
Subscription Ratio out of Broadband sub.(%)	2.0%	17.1%	26.7%	30.4%	33.4%	

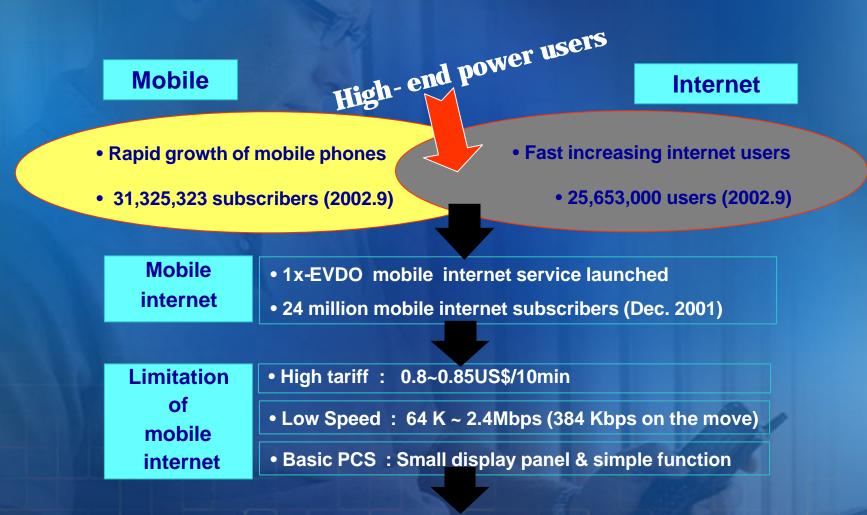


Source : LG Investment & security. 2002.2



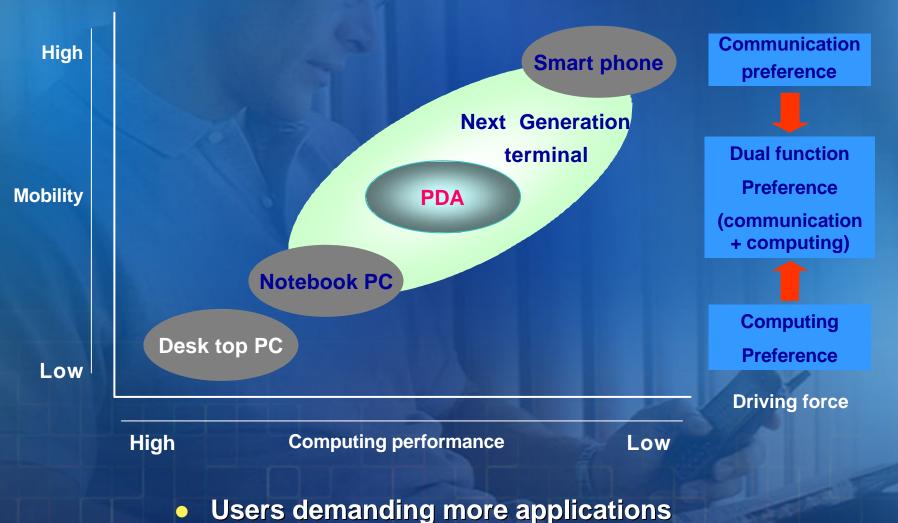
Part II. Motivation of PWLAN

Mobile Broadband Service Motive (service)



Emerging need for high speed & reasonably priced wireless internet service

Mobile Broadband Service Motive (terminal)



• Terminals are getting smaller & smarter



Part III. NESPOT, PWLAN Service in KOREA

KT- NESPOT

Business Objective

- To meet the increasing demand for mobile internet
- To develop a 'Front-end service' by combining the massively deployed broadband and wireless solution
- -> Convergence between fixed-line broadband internet and mobile internet

Business Framework

- > High-speed, low-tariff wireless internet service
 - IP backbone + xDSL/L.L. + Wireless LAN : indoor wireless internet
 - 1x-EVDO or W-CDMA : outdoor mobile internet

Strong points of KT NESPOT

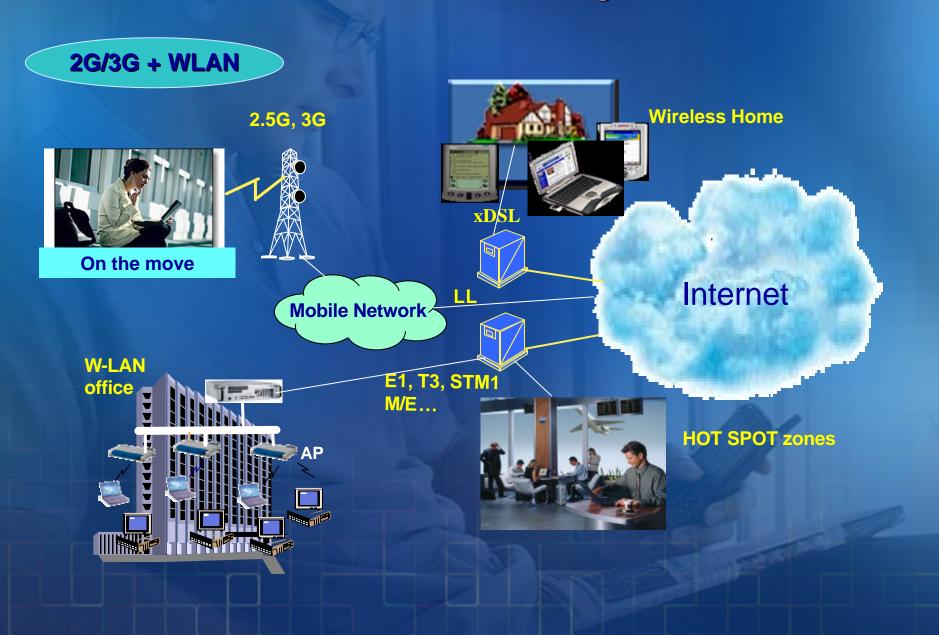
o Big target market

- broad band subscribers : 10 million
- customer having notebook PC or more than 2 PC
- enterprises who want clean office or broad band mobility
- o Easy structuring NESPOT infra
 - Hot spot with xDSL
 - Inexpensive network elements
 - -> AP (including ADSL modem) : ~140 US\$ -> NIC (WiFi) : ~60 US\$

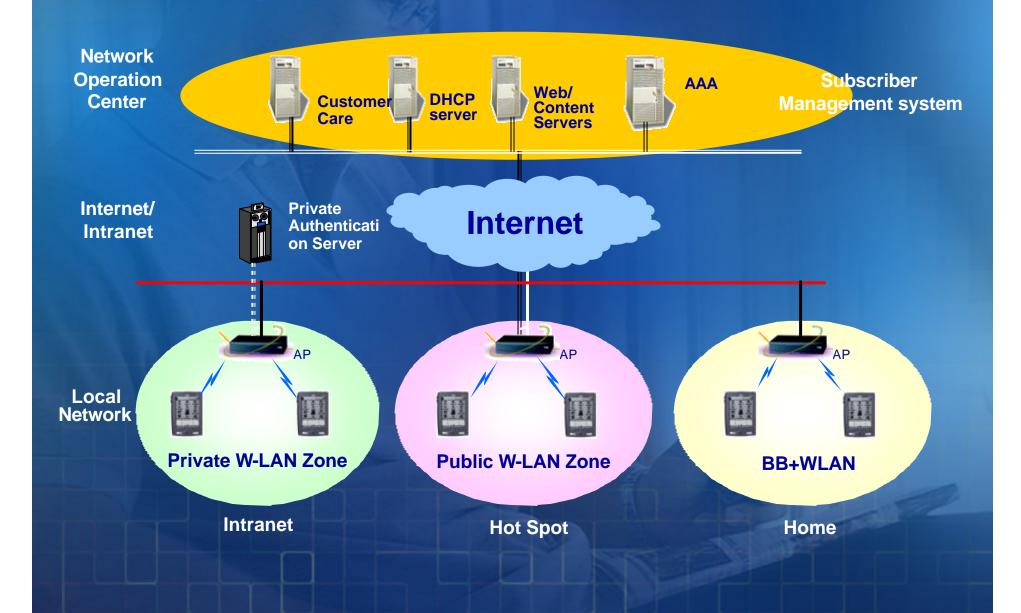
o Back end systems

- AAA servers
- APNMS etc.

Features of Fixed-Mobile Convergence Service



Network Structure of KT-NESPOT Access



KT-NESPOT Status

Subscribers

unit : # ID (2002.10.10)

products	Enterprise	Hot spot	xDSL + WLAN	xDSL+WLAN	total
		only		(waiting)	
#	1,875	32,301	27,736	3,553	65,465

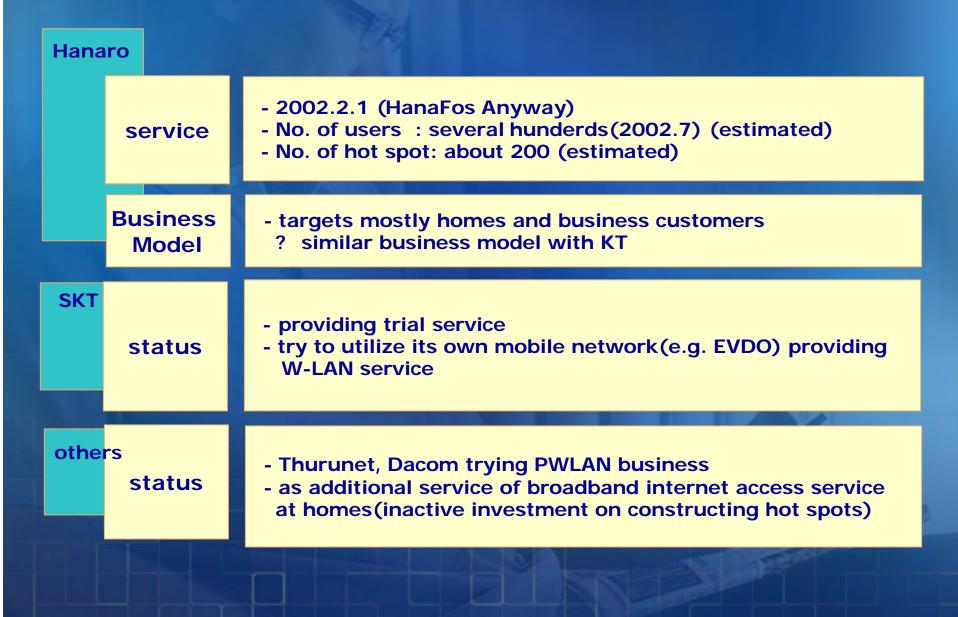
Application service open (www.nespot.com)

- **Basic service : e-mail, SMS, community**
- Value added service : entertainment, VoD, VoIP, MMS, ebook

Hot spots coverage

o 5,277 sites open(2002.9.30)o About 7,000 Hot Spots available by the end of 2002

PWLAN in KOREA(others)



Hot Spot (KT NESPOT Zone) Status (I)

NESPOT Zone

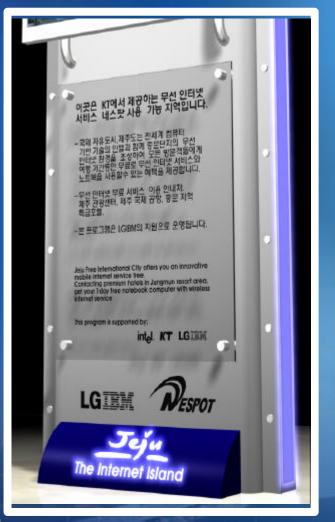
- o Public Hot spot for NESPOT users
- 0 5,277 sites in KOREA
- Plan to expand 7,000 sites in 2002

Competitive Advantage of NESPOT Zone

 Cost Efficient Network Investment ; using nationwide ADSL network

Target Site Priority for NESPOT Zone

- o In & Around University
- Complex Mall (exhibition center, theater, shopping center, subway station, concert hall)
- o Hotel (1st class)
- o Franchise (Mcdonald, Hollys coffee shop)'
- o Bank, Stock Marketplace..



NESPOT Zone Kiosk in Jeju Int'l Airport



THANK YOU