

## **Broad band mobility via PWLAN**

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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**



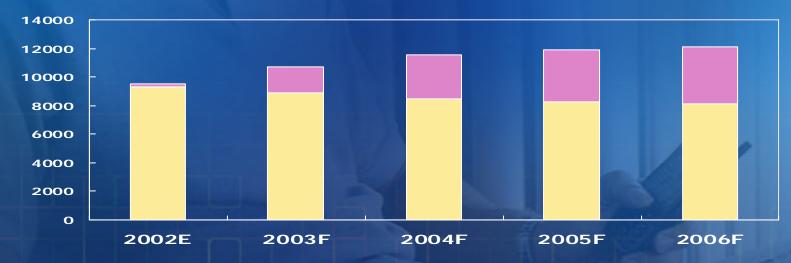
### **Broadband Extension for Hidden Market in KOREA (I)**

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%	

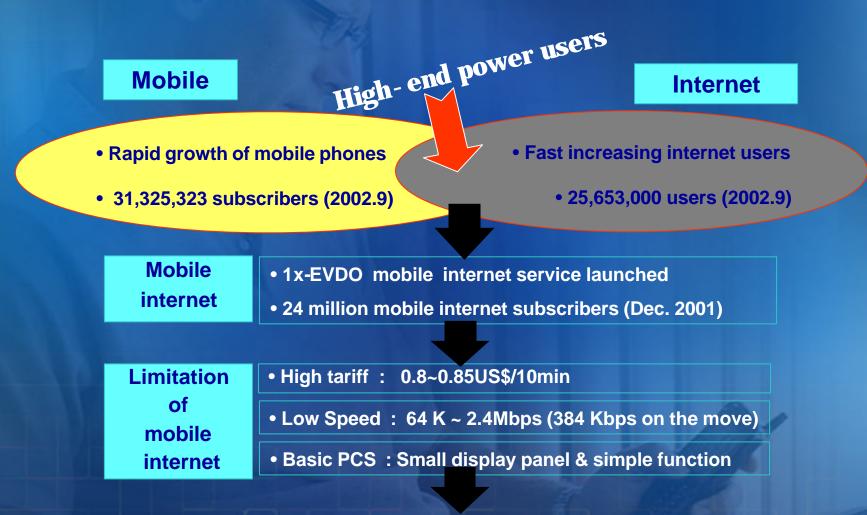


Source : LG Investment & security. 2002.2



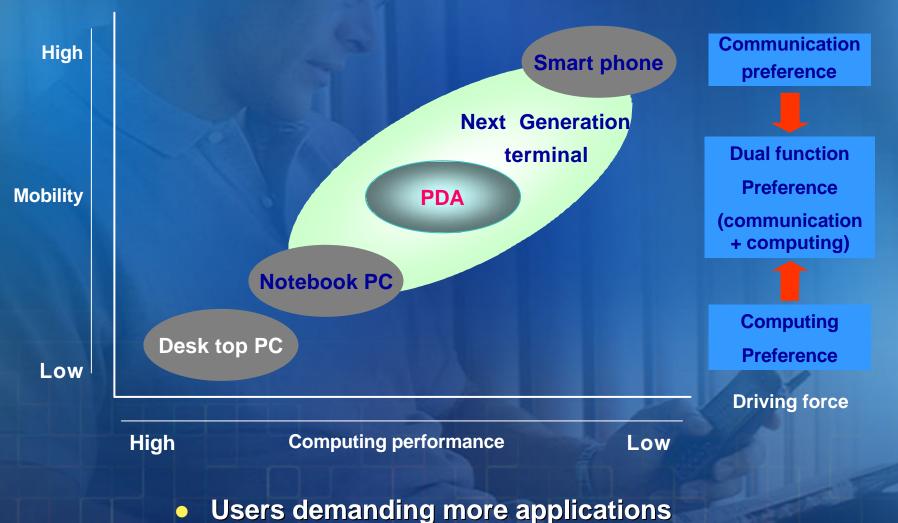
# Part II. Motivation of PWLAN

#### **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

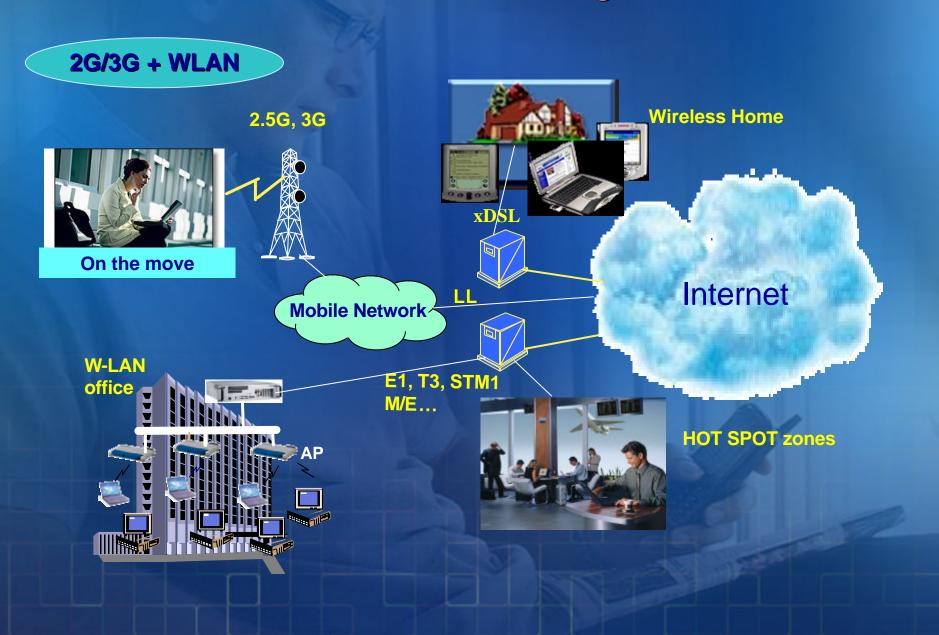
#### o Big target market

- 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\$

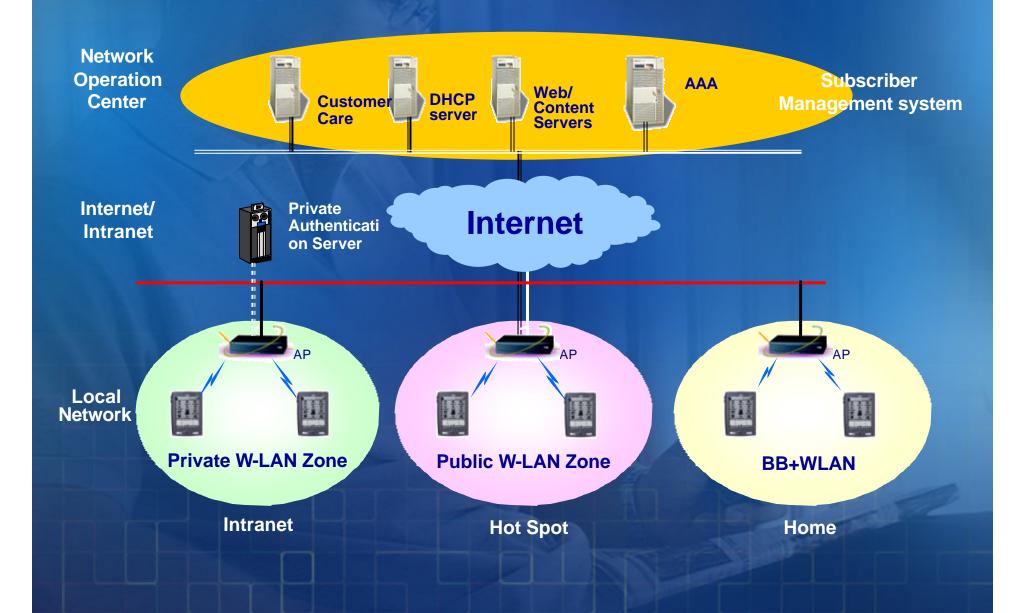
o Back end systems

- 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

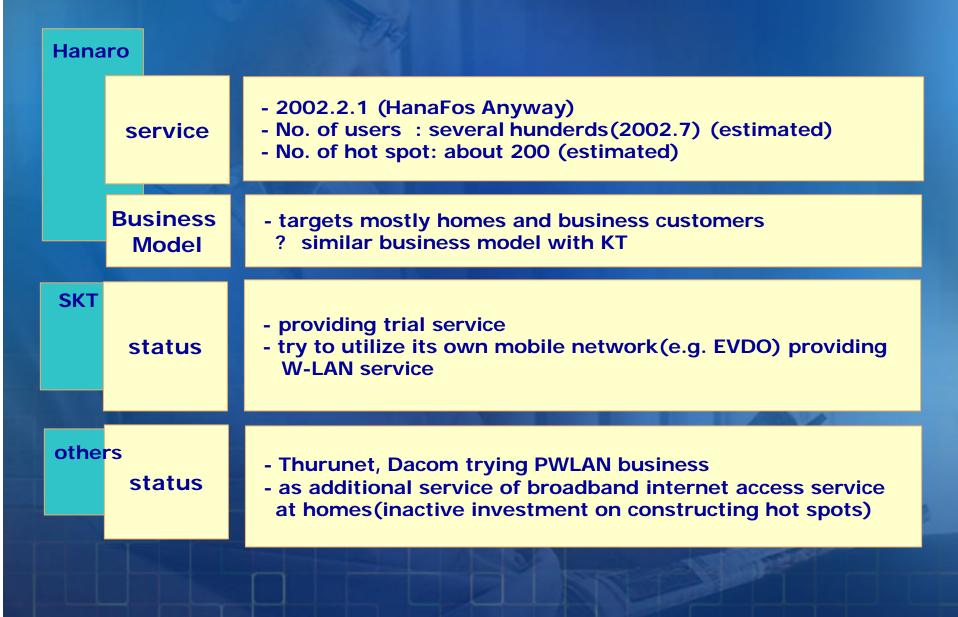
Application service open (www.nespot.com)

- **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

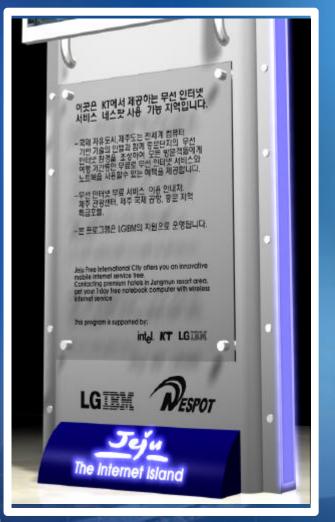
- o Public Hot spot for NESPOT users
- 0 5,277 sites in KOREA
- Plan to expand 7,000 sites in 2002

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 (1<sup>st</sup> class)
- o Franchise (Mcdonald, Hollys coffee shop)'
- o Bank, Stock Marketplace..



NESPOT Zone Kiosk in Jeju Int'l Airport



## **THANK YOU**