

Ubiquitous Network Societies

Case Study of the Republic of Korea



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New Initiatives Workshop on Ubiquitous Networks Societies

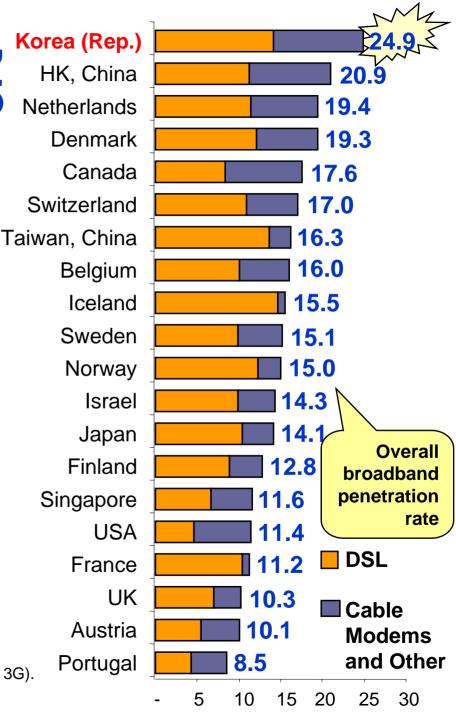
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The views expressed in this paper are those of the authors and do not necessarily reflect the opinions of the ITU or its Membership. Dr Tim Kelly can be contacted at <u>tim.kelly@itu.int</u>.

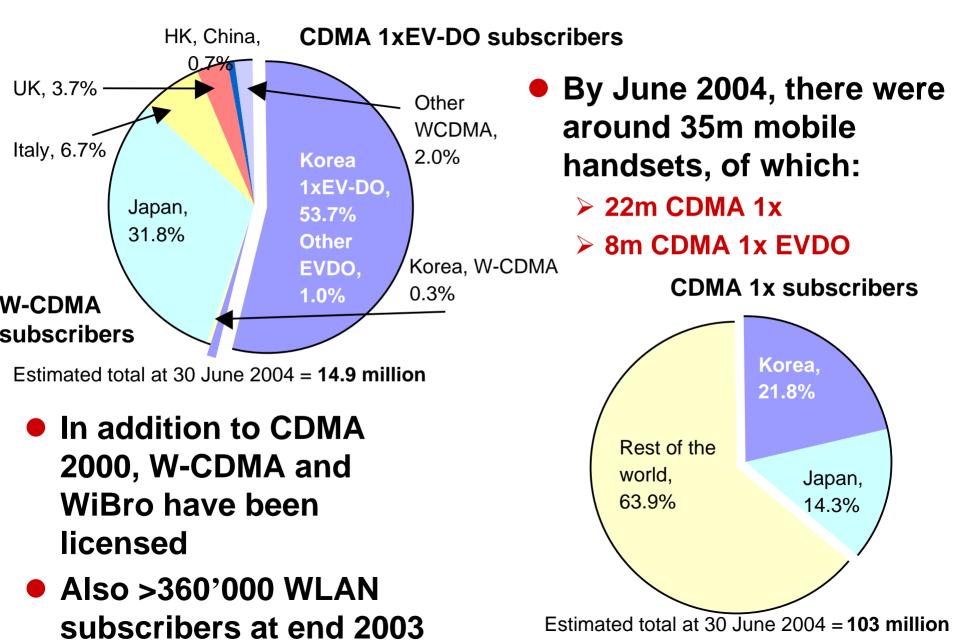
Broadband per 100, Korea Top 20, 1 Jan 2005 Nethe

- Korea is (still) #1 worldwide in broadband penetration
- Around 80% of homes subscribe to broadband
- Korea has benefited from platform competition:
 - DSL technologies
 - Cable Modem
 - > Appartment LANs
 - > Wireless LANs, satellite etc
- Very low price per (e.g., <US\$25 per month for 2Mbit/s)

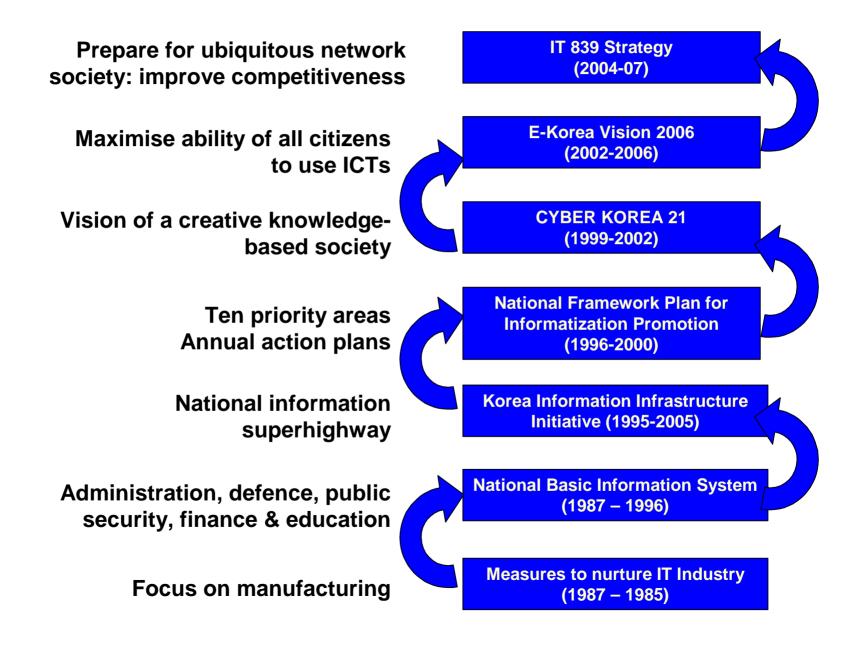
Note: Figures used in slide do NOT include wireless broadband (e.g., 3G). *Source:* ITU World Telecom Indicators Database.



Korea is also a world leader in 3G mobile



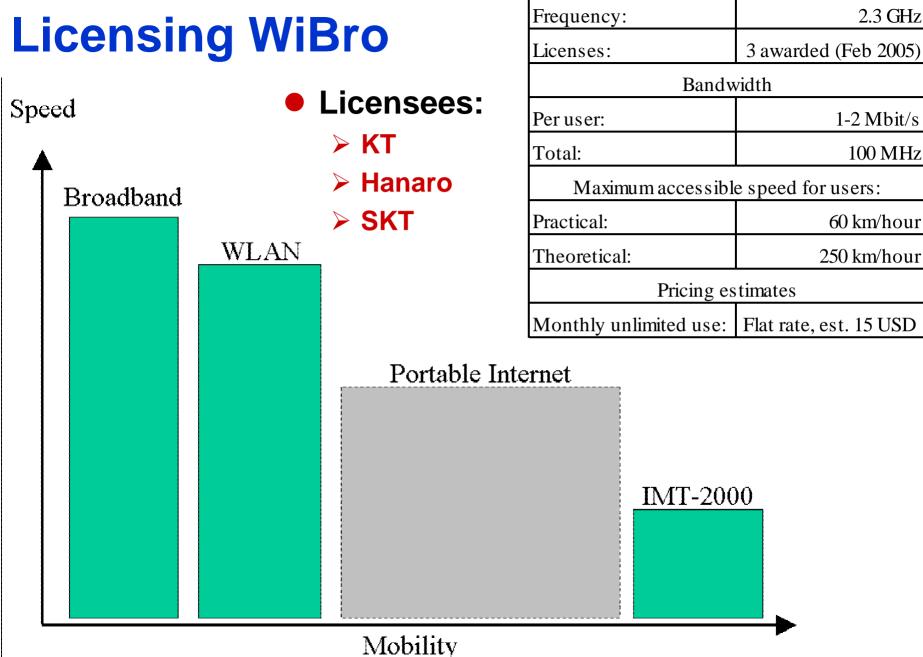
Korea's unique public/private cooperation





Korea's IT 839 Strategy

8 services	3 infrastructures	9 new growth engines
WiBro Service DMB Service Home Networking Telematics Service RFID based W-CDMA Service Terrest. Digital TV VoIP	Broadband Convergence Network (BcN) Ubiquitous Sensor Network (USN) Next-Generation Internet Protocol (IPv6)	Next-Generation Mobile Communications Digital TV Home Networking IT System on Chip Next-Generation PC Embedded Software Digital Contents Telematics Intelligent Service Robot



Source: MIC Korea.



International Telecommunication Union

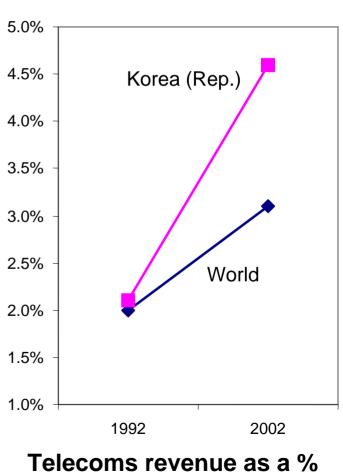
Selected examples of ubiquitous networks in Korea Digital TV delivered to mobiles **> DMB service** Mobile handsets used as wallets > "Moneta" service Telematics (automobile/mobile) "Nate Drive" Avatars in gaming > Fashion wardrobes for avatars Self-adaptive telephones that find the cheapest networks "Nespot SWING", "One-Phone DU"

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Conclusions

- Korea as a laboratory of the future
 - ~ Three years ahead of Europe in broadband
 - ~ Two years ahead of Europe in 3G mobile
- Korea as an example of public/private policy partnership
 - Strategy of picking technological winners
 - Gov't reinvestment of profits from spectrum auctions
 - Korea creating new revenue
 - Twice the global rate of growth in telecom spend as % of GDP



of GDP

Source: ITU World Telecom Indicators Database.



Thank you

The full case study (50pp) is available at http://www.itu.int/ubiquitous

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