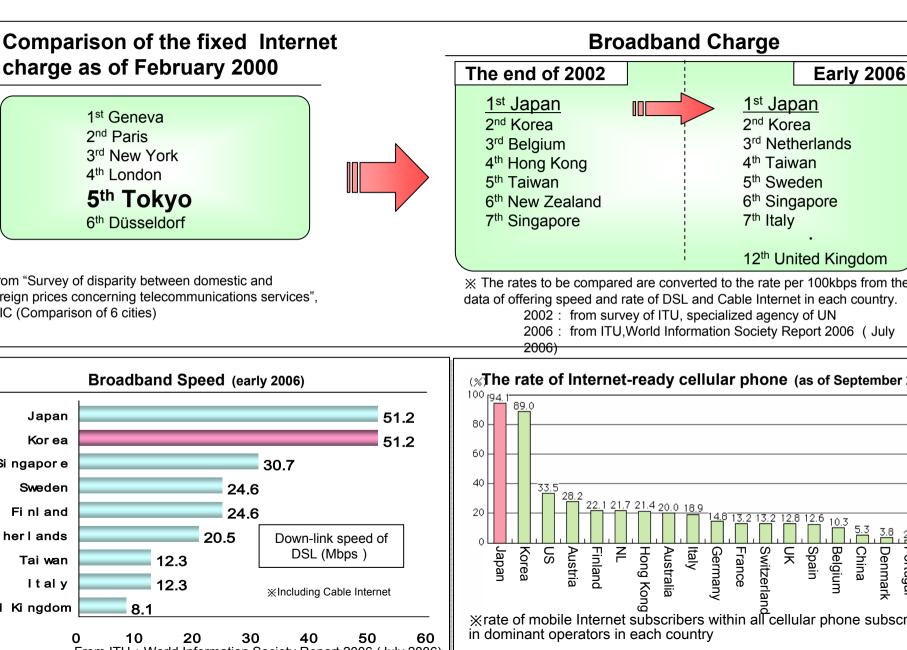
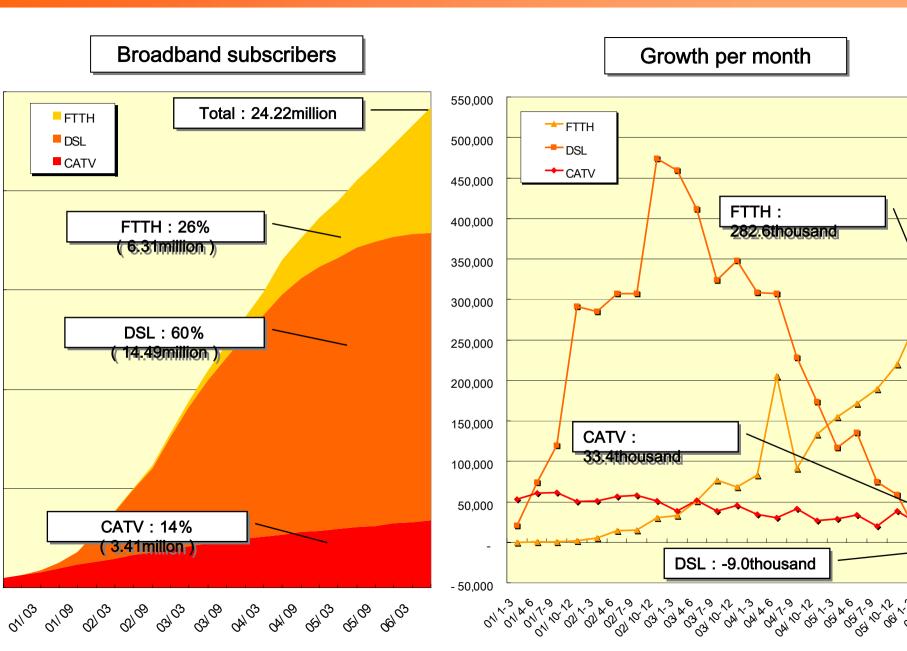
Frequency Open Policy - journey to J a p a n in

Hiroki SUMIDA, Direc tor Europe Office National Institute o f ICT, Japan

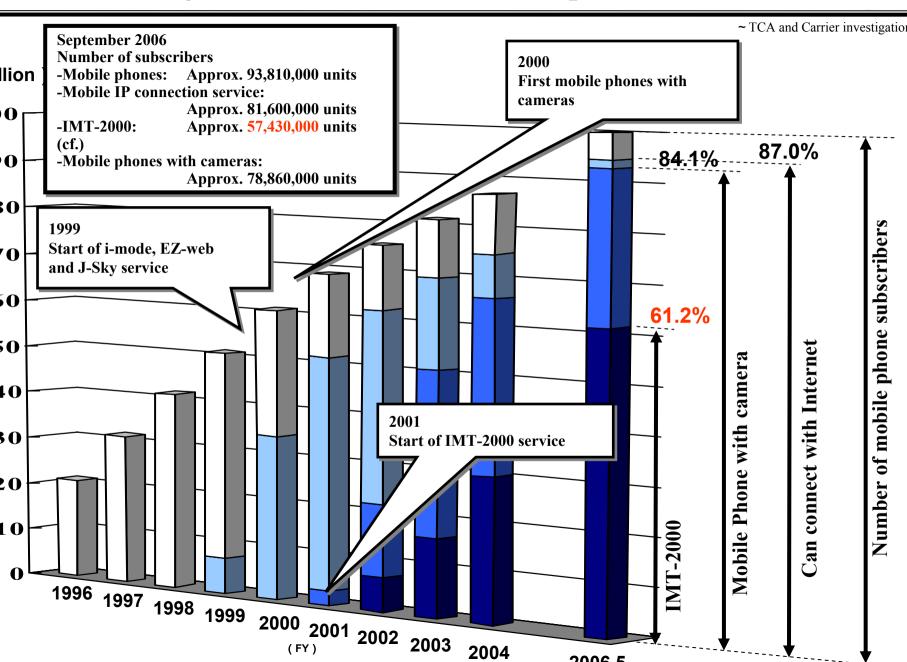




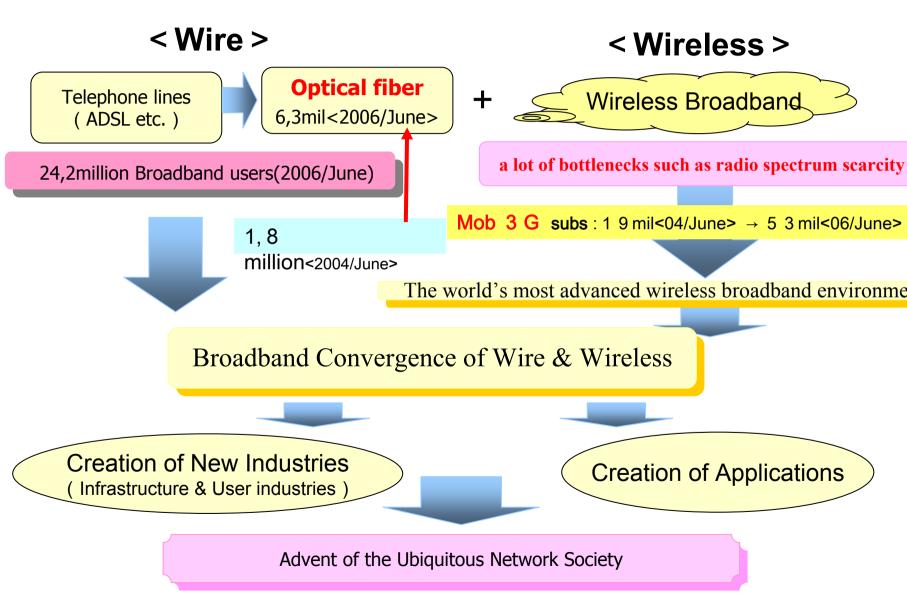
Development of Broadband Network



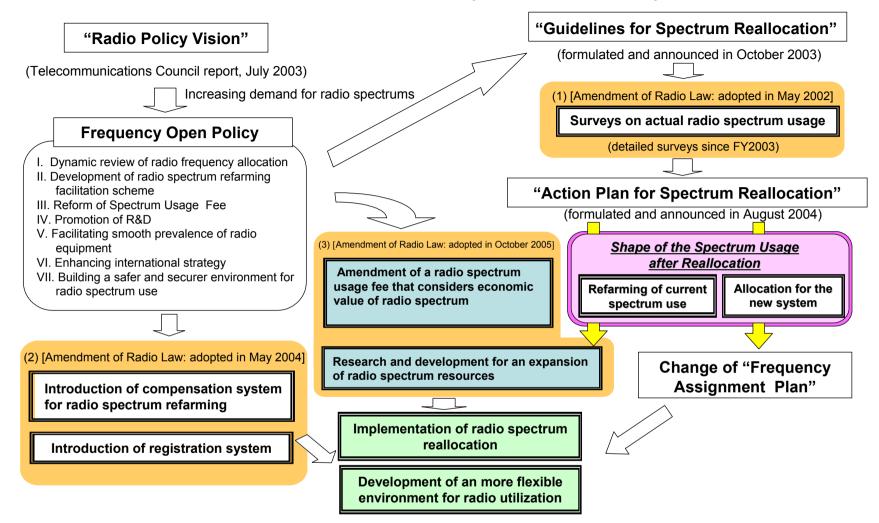
Changes in the number of mobile phone subscribers



Scenario of Frequency Open Policy



Outline of Frequency Open Policy



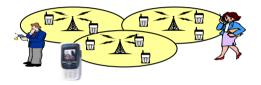
In addition to cellular phones, various systems using radio, such as wireless LANs and RFID, have been developed and become widely used. However, because of the limitation and scarcity of radio spectrum, more strategic radio policy will be equired.

In view of these circumstances, "Radio Policy Vision" (July 2003, Telecommunications Council) and "Guidelines for Spectrum Reallocation" (Oct. 2003, Ministry of Internal Affairs and Communications (MIC)) were formulated. In order to meet

Summary of New Systems and Proposed Frequency Bands

Next-generation mobile radio communication systems, Nobile offices/homes

- io communications that enable users to communicate wherever they are, without king to where the service is available.
- io communications that ensure the required quality of communications.
- mple systems: Cellular phones (Enhanced 3G, 4G offering 100Mbps transfer rates even when on the move)



- communications that have continuous access to the Internet at anytime upon request. communications that can be used in conjunction with Cellular phones and Wireless ,etc.
- nple systems: Broadband mobile wireless access (BMWA) that supports continuous IP connection (WiMAX (IEEE 802.16e), Next-generation PHS (Personal Handyphone System), etc.)



O Alternative systems to wired broadband

- Radio communications that can provide network at lower costs within areas not suitable f broadband such as rural area.
- Radio communications that use the systems based on international standards or those us urban areas will be deployed in rural areas, with respect for costs.

Example systems: FWA that can be used under the Non-Line-of-Sight (WiMAX (IEEE 8 2004), iBurst, Advanced DS-CDMA, etc.)



O ITS (Intelligent Transport System)

Radio communications that can establish ad-hoc radio communications instantly.

Example systems: Advanced ITS that reduce the road accidents



O Next-generation intelligent home appliances, Home networks

Short-range radio communications that can establish interconnection more easily than wired communications

Example system: Next-generation intelligent home appliances