

# IST Strategies in Korea and Broadband Wireless

FISTERA meeting in Sevilla  
16-17 June, 2005

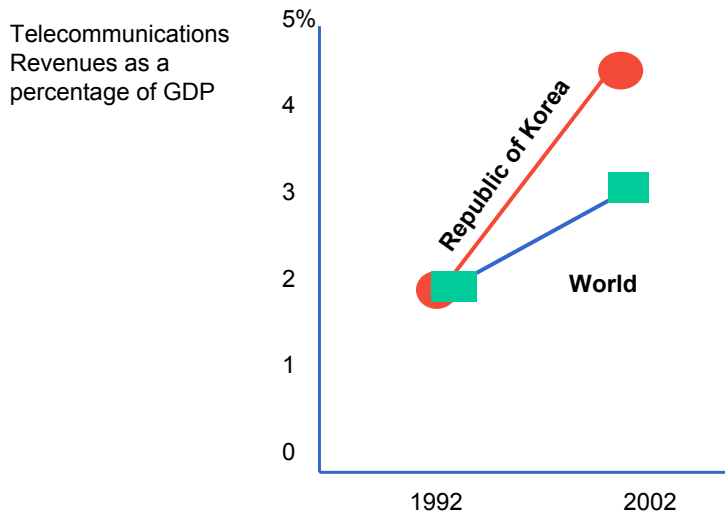
Erik Bohlin – Chalmers University &  
Simon Forge –SCF Associates

## *Korea Status Report*

- Korea has made major strides in information and communication technologies over the past three decades. From being a country with almost no ICT access 30-40 years ago, Korea has become one of the top three globally in access to ICT based services. A basic ingredient of Korean life is now the availability of communication, information and entertainment from anywhere, at anytime and from any form of terminal, most usually a mobile handset. Today 16% of Korea's GDP and 30% of exports comes from the ICT sector

- Alternative Wireless Technologies (AWTs) figure heavily in this with some 18,000 commercial WiFi hotspots available nationally by 2004 and new wireless broadband being made available this year, 2005, from new initiatives and licences for a 1Mbps wireless service nationally, WiBro. Industrial AWT networks such as Zigbee for RFID and industrial sensors are also being piloted in Korea, while most terminal and handset devices designed and manufactured in Korea have short range AWT's embedded such as Bluetooth and RFID. For instance, SK Telecom's Moneta service has more than 470,000 point of sale terminals that accept payments via RFID chips embedded in mobile handset.

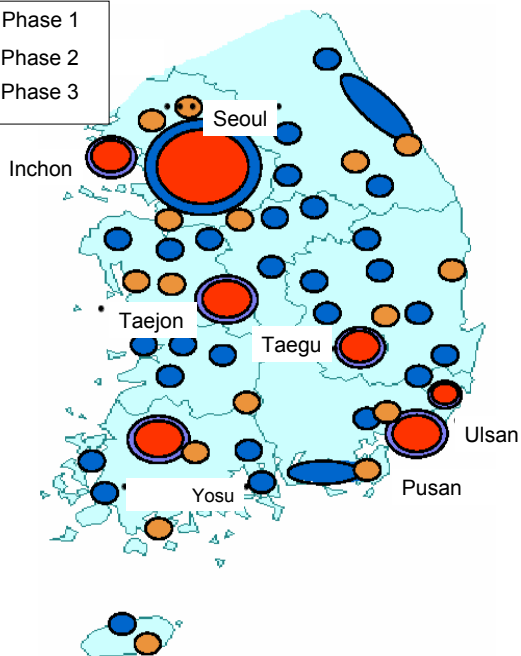
Over the decade 1992 - 2002 Korea exhibited twice the global rate of growth in telecom spend as % of GDP



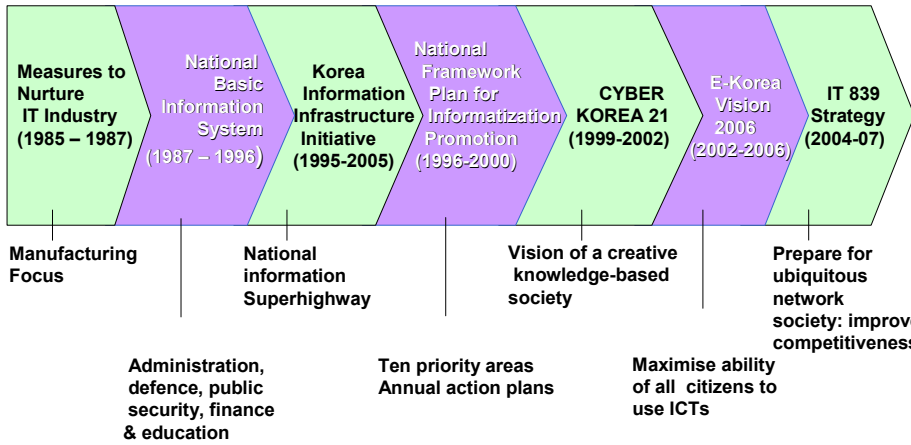
Source: ITU World Telecom Indicators Database

### Wibro roll-out plans

- Phase 1
- Phase 2
- Phase 3

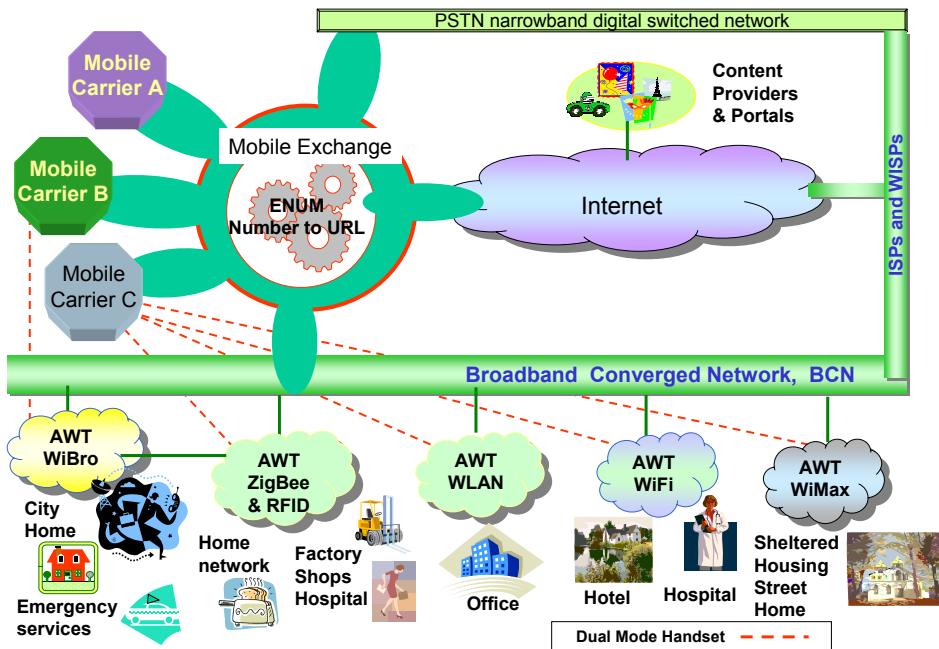


Korea's unique planning system has transformed the economy by a successive series of medium term plans, which depend on a close co-operation between the public and private sectors to deliver



Source ITU / MIC, Korea

The mobile exchange integrates the mobile and Internet worlds, with the BCN



## Korea's latest medium term strategy plan for IT - 839

**8**

### **Services**

1. WiBro Service
2. DMB Service
3. Home Networking
4. Telematics Service
5. RFID based
6. W-CDMA Service
7. Terrestrial Digital TV
8. VoIP

**3**

### **Infrastructures**

1. Broadband Convergence Network (BCN)
2. Ubiquitous Sensor Network (USN)
3. Next-Generation Internet Protocol (IPv6)

**9**

### **Growth technologies**

1. Next-Generation Mobile Communications
2. Digital TV
3. Home Networking
4. IT System on Chip
5. Next-Generation PC
6. Embedded Software
7. Digital Contents
8. Telematics
9. Intelligent Service Robots

Source MIC Korea, ITU