Latest Developments of Broadband, Policy and Regulatory factors

Nov. 24, 2010

Lee, Yeong Ro

NIA

Status Overview

Since early 2000's one of the most advanced in ICT Infrastructure and Home Access

Fibre/LAN Broadband subscribers

Rank	Country	Subscribers (per 100 inhabitants)
1	South Korea	15.1
2	Japan	12.4
3	Sweden	6.7
4	Denmark	3.9
Ave.	OECD	2.1

(OECD Jun. 2009)

Download Speed

Rank	Country	Speed (Mb/s)
1	South Korea	22.65
2	Latvia	19.56
3	Aland Islands	18.83
4	Japan	17.89
5	Romania	16.94

(www.speedtest.net, May, 2010)

Broadband Quality Score

Rank	Country	Score
1	South Korea	66
2	Japan	64
3	Sweden	57
4	Lithuania	54
5	Bulgaria	49

(Univ. of Oxford, Sept. 2009)

Households with Broadband access

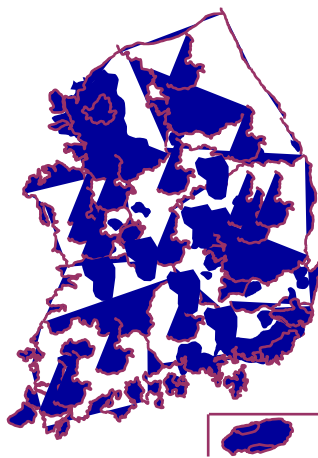| Rank	Country	Percentage of all households
1	South Korea	94.3
2	Iceland	83.2
3	Denmark	74.1
4	Netherlands	74.0
5	Norway	73.0

(OECD Jun. 2009)

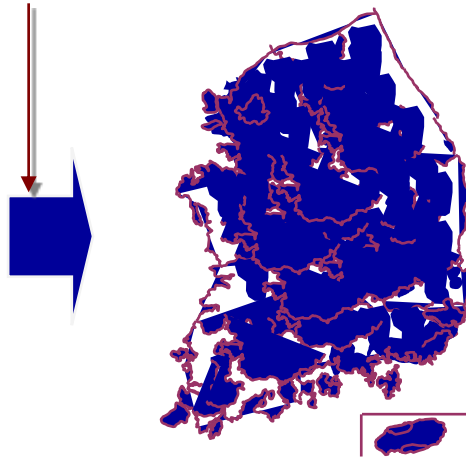# <Case 1> Broadband Network in Rural Areas ('06~'08)

Public to private collaboration applied to build rural and less competition area; Matching fund raised from Central Gov, Local Gov, Telecom Company by 1:1:2

- Impose obligations to the Carrier when Privatized in 2002
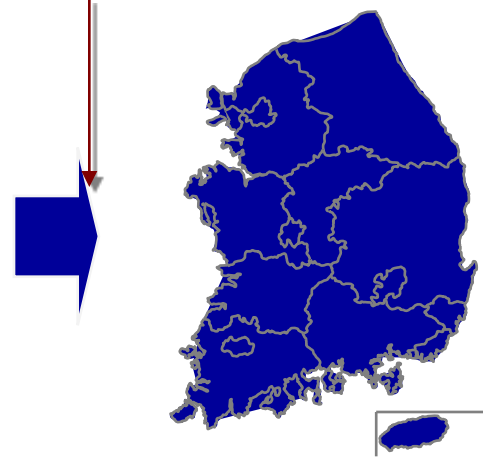- Low interest loans to other Carriers

- Matching fund put together (Carrier, Government) from 2006
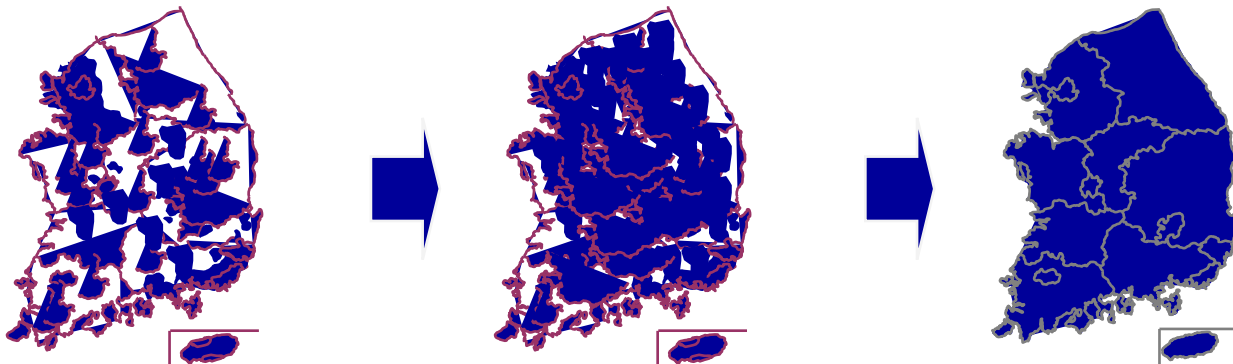
home pass ratio is 87% by 2002

home pass ratio is 94% by 2005

home pass ratio is 100% by 2008

Ultra Broadband Plan in Rural Area

- 50Mbps to 100Mbps access to home is undergoing
  - Internet TV quality guaranteed network environment
  - Coverage in 2009 is 70% ~ 80%.
    - This planed to be up-to 99% by 2014 or so

- 1:1:2 matching funds raised as before

< case 2 > School Internet - FTTS

Set up the Priority Investment on Broadband Access to all the schools except colleges and universities
 : 1/3 from Ministry of Education, 2/3 from KCC

Low Speed Access to Internet	In 2001, all the primary, middle and high school had access to Internet - free access up-to 256Kbps based on an agreement with carriers
High Quality Access to Internet	In 2009, all 11,414 schools were connected to Broadband with FTTS - Min 10 Mbps, Max 100Mbps Guaranteed which enables HDTV quality of e-learning

<case 3 > Premises Network (Building) Certification Program

For the network uncovered area less than last one mile which belongs to Inside Building or Apartment Area which owned by private companies or Individuals, Government designed an "Emblem" or " Certification" system to encourage the ready to Broadband apartment and office building

- Certification Program for Premises Network
  - ✓ On Premises Broadband capability inclusion from the stage of building or apartment design
  - ✓ Option to choose a certain Grade according to the user requirement

- Non-mandatory regulation but led by government as a guideline to the private

Construction and housing industries can choose one among types of certification

Grade	Special	1st	2nd	3rd
Cable to the Home	Fiber	Fiber+Cat5e	Cat5e	Cat3
Maximum Speed	1Gbps~	100Mbps~	10~100Mbps	10Mbps
Emblem				