

*Successful Policy  
to Realize Digital Opportunity  
for Upcoming Ubiquitous Society*

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# I. Overview of IT Strategy

# Korean IT In Past Decade

'95

'05

IT  
Production



34.4 TKW



240 TKW

'95

'05

IT Exports



\$ 20.2B



\$ 74.7B

Mobile  
Subscribers



0.96 M



36.6 M

Broadband  
Internet Sub



0.12M ('98)



22.5 M

Internet  
Users



0.14M



31.6M

e-commerce



50BKW ('98)



148 TKW

# Success Factors of IT Korea

## Pioneering Government Policies & Swift Response of Private Sector

'95~'97

Informatization  
Promotion Act  
( '95)

World's First CDM  
A Commercialization  
( '96)

'98~'98

'Cyber Korea  
21' ( '99)

World's First Broadband  
Internet ( '98)

'00~'01

IT Training for  
10 million citizens  
( '00)

Internet Youth Volunteer  
( '01)

Digital Broadcasting  
( '01)

'02~'03

e-Korea Vision  
( '02)

Broadband IT Korea  
Vision ( '03)

e-Government Launch  
( '02)

'04~'05

IT839 Strategy ( '04)

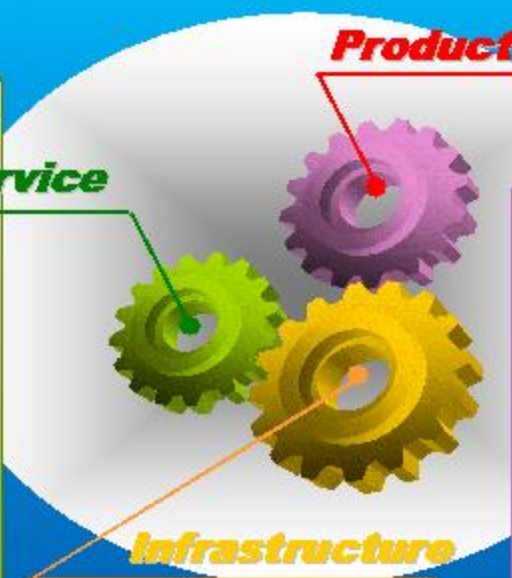
S-DMB, T-DMB Service  
( '04)

World's First Portable  
Internet (WiBro) ( '05)

## 8 Services

- WiBro Service
- DMB Service
- Home N/W Service
- Telematics Service
- RFID-based Service
- W-CDMA Service
- Terrestrial DTV
- Internet Telephony

*Service*



*Product*

*Infrastructure*

## 9 Products

- Mobile Telecomm Handset & Equipment
- Digital TV & Broadcasting devices
- Home Network Devices
- IT System-on Chip
- Next Generation PC
- Embedded SW
- Digital Contents & SW Solutions
- Telematics Devices
- Intelligent Service Robot

- Broadband Convergence Network
- Ubiquitous Sensor Network
- Next Generation Internet Protocol [IPv6]

## 3 Infrastructure

# WiBro(Wireless Broadband Portable Internet

**Fast and seamless access with lower fee to broadband internet on the move**

**Low Price**

Flat Rate

**High Speed**

30Mbps

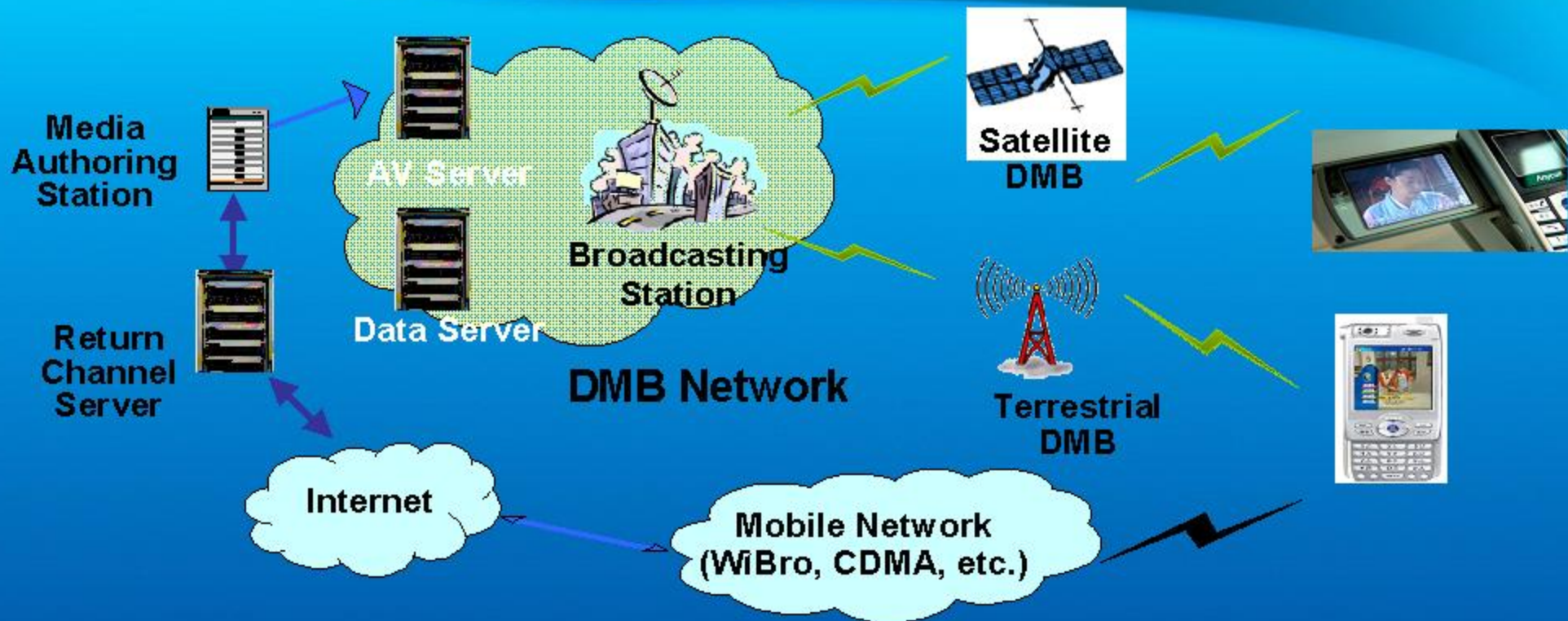
**Mobility**

< 60km/h



- Based on OFDM / TDD (IEEE802.16e)  
30Mbps with 10MHz BW @2.3GHz  
Live demo done successfully in Dec. 2004
- License given to three operators  
Commercial service starting in Jun. 2006

# DMB : 'Digital TV in Your Hand'



- **T - DMB** : Max. 700kbps @1.5MHz BW based on Eureka 147  
World DAB Forum adopted as standard.  
Commercial service (1H 2005)
- **S - DMB** : Commercial service (1H 2005)



## **II. Status of Digital Divide**

# Status of Digital Divide – Internet Usage rate

## Disabled

65.5



General Public

37.9%p

2.76



Disabled

## Age

94.3



20's

80.3%p

14



Over 50

## Income

79.9



Monthly Income  
over \$3,500

48.2%p

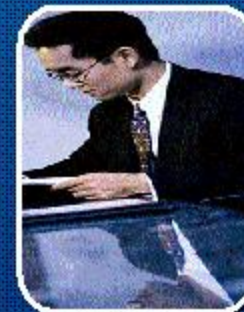
31.7



Low Income

## Occupation

92



Urban

75.8%p

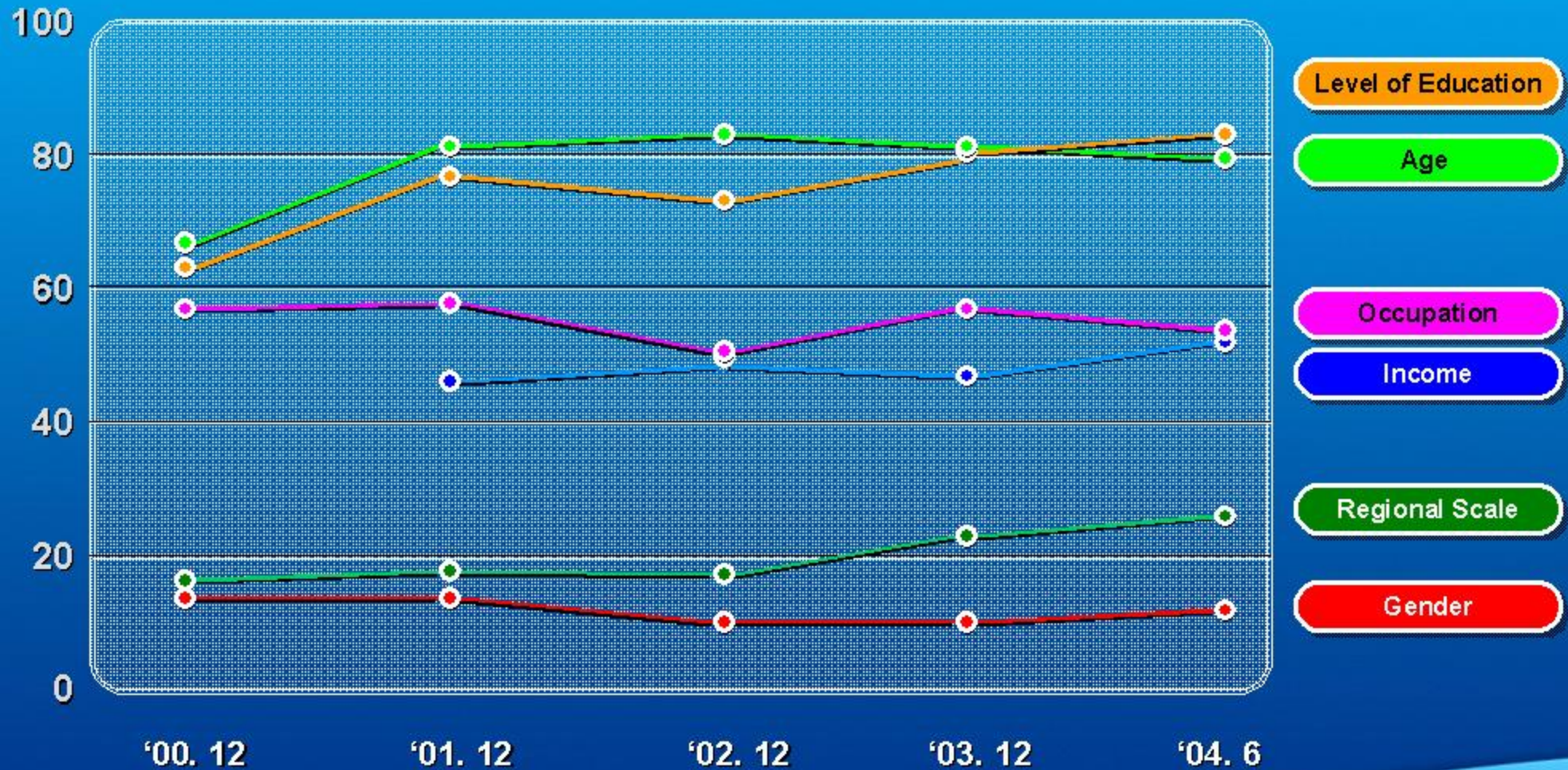
16.2



Farmer & Fisher

# Status of Digital Divide – Annual Trend

## The Trend of Digital Gap

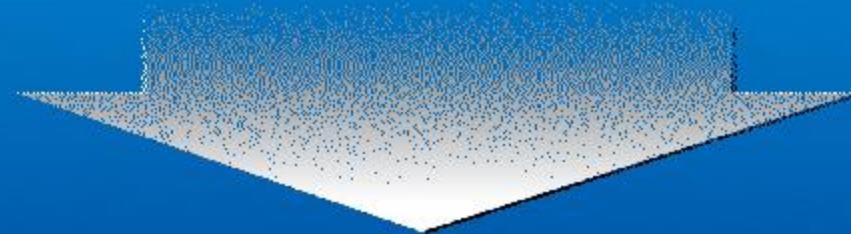


# III. Efforts to Close Digital Divide

# Efforts to Close Digital Divide

## ● Building System to close the Digital Divide

- Enacting the Act on Closing the Digital Divide (2002.1)
- Establishment of Master Plan for Closing Digital Divide (2001~2005)
- Establishment of Digital Divide Closing Committee ('03. 1)



**Establishment of Effective Legal & Organizational Framework  
assisted to close the Digital Divide systematically**

# Efforts to Close Digital Divide

## Achievements

Built fully accessible environment through network expansion

Raised amazing internet usage rate through successful IT education nationwide

And established effective legal & organizational framework



## Evaluations

Lasting the digital gap between general public and underprivileged group

Required to enhance the productive IT usage for the quality of life

Necessary to prepare for the new digital divide problems associated with the ubiquitous technology

# **IV. Main Policy to Realize Digital Opportunity**

# Main Policy to Realize Digital Opportunity

- 1 **Broadband Expansion to Rural and Remote Area**
- 2 **IT Device Supply Diffusion to the underprivileged Group**
- 3 **IT Education to 5 Million Underprivileged People**
- 4 **Expansion of Digital Contents**
- 5 **Making Earnings Through IT Usage**
- 6 **Closing Global Digital Divide**



# Broadband Expansion to Rural and Remote Area

- Establish high-speed internet connection condition Nationwide

Classification	'03 Current Status			'07 Goal		
	Total	Urban	Rural	Total	Urban	Rural
Total Household (in million)	15.3	11.9	3.5	15.3	11.9	3.5
Connection possible household (million)	15.1	11.9	3.2	15.3	11.9	3.5
Rate (%)	98.4	100	93.1	100	100	100

- Provide high-speed internet service for 240,000 household in rural and remote area.
- Construct satellite network at the rest of hinterland and remote islands unable to set the wire on

# Broadband Expansion to Rural and Remote Area

- Establishment of IT PLAZA

e-Learning system, IT Training Centers, e-Work facilities, etc

## e-Life Project based on Local Surroundings

*e-Learning*



**Well-Being Care**



*e-Health*

**IT PLAZA**

*e-Work*



*e-Safety*



# IT Device Diffusion to Underprivileged group

## ● Next 5 years of PC supply rate for the disabled and low income household

Target class	Number of Household	2003 current PC owner		2008 PC supply goal		Provision goal of Recycled PC
		rate	household	rate	household	
Disabled	1,130,000	58%	660,000	80%	900,000	240,000 unit
Low Income	700,000	47%	330,000	80%	560,000	230,000 unit
Total (Avg)	1,830,000	54%	990,000	80%	1,460,000	470,000 unit

## ● Next 5 year of provision of PC

- Collect and Recycle used PCs
- Stimulate to donate recycled PC from private sector

## ● Provide assistive IT technology to physically handicapped

- Screen magnifiers, screen reader, special keyboard, etc ( over 5000 units)

# IT Education to 5 million Underserved People

- Inducing the underprivileged group to make practical use of IT

■ Our Goal : Enhancing the Internet Usage rate [2003 : 19.7% ? 2008 : 55.5%]

Target class	Population	'03 present status (internet usage rate)	5year(04-08) Number of Trainers	'2008 Goal (internet usage rate)
Disabled	1,450,000	27.6%	464,000	59.6%
Low income	3,080,000	31.7%	812,000	57.9%
Elderly	6,780,000	14.0%	2,473,000	50.5%
Fisher & farmer	2,670,000	16.2%	1,251,000	63%
Total (avg)	13,980,000	19.7%	5,000,000	55.5%

# Expansion of Digital Contents

## ● Expansion of national knowledge information resources ([www.knowledge.go.kr](http://www.knowledge.go.kr))

- Continual digitalization of national knowledge-information resources
  - ? By 2008 increase digitalization of strategic DB up to 70%
- Expand establishment of multi-media DB
- Promotion of public usage through the campaign for information use

## ● Development of online contents for the disabled and the aged ([www.itall.or.kr](http://www.itall.or.kr))

- Establish practical contents adhering to the lives of disabled, elderly and low-income class
  - ? employment, finance, education, health, welfare, consulting, necessary local information etc
- Enhance web contents accessibility for the disabled

# Making Earnings Through IT usage

- **Direct Assist for the underprivileged group to make money through IT use**

- Provide Low-income students with the opportunity of internship in IT companies by completing S/W training course
- Provide e-Biz education and consulting services to found IT ventures for the disabled

- **Secondary assist to help the group to employ**

- Provide underprivileged group with advanced IT education course for the developing public DB

# Closing Global Digital Divide

## ● Establishment of Information Access Center in Developing Countries

- Establishment of Information Access Center equipped with internet cafe computer training room and seminar rooms in developing nations

Support Countries	City	open
Cambodia	Phnom Penh	2002. 11. 25
Rumania	Bucharest	2003. 10. 16
Vietnam	Hanoi	2003. 11. 05
Egypt	Cairo	2004. 03. 03
Philippines	Manila	2004. 10. 15
Bulgaria	Sofia	2004. 12. 20

## ● Korea IT Learning Program

Year	1998	1999	2000	2001	2002	2003	2004	Total
num. of Invitee	93	158	168	266	207	331	320	1,543
Budget (million)	500	500	700	700	1,120	3,590	2,750	9,860

# Closing Global Digital Divide

## ● Korea Internet Volunteer Program

- Dispatch college students and IT experts to developing countries to support IT education and promote the image of Korea as the IT leader

Year	Target dispatch nation	Number of dispatch team	Number of Volunteers
2001	20 nations	61	175
2002	27 nations	47	206
2003	42 nations	87	345
2004	32 nations	75	300
	Total	270	1,026



**Expand the scale of dispatch**

**Strengthen cooperation with international organizations**



# **V. Public Power and Parliament's Roles**

# Act on Closing Digital Divide

## Overview of the Act (revised in 2002)

- ◆ Purpose : Closing the digital divide between have and have-nots
- ◆ Primary Target : underprivileged groups (low-income class, the disabled, the elderly, farmers & fishermen, housewives, etc..)
- ◆ Major provisions
  - Making Master plan(5 years) for closing the digital divide
  - Making annual action plan for closing the digital divide
  - Establishing “Digital Divide Closing Committee”
  - Constructing and operating “Public Access Centers”
  - Providing IT Learning Opportunities
  - Establishing “Korea Agency for Digital Opportunity and Promotion (KADO)”

# Master Plans

## Overview of Master Plan for Closing the Digital Divide (Sep,2001)

- ◆ Period : 5 years plan (2001 ~ 2005)
- ◆ constitution : 6 main policy areas and 40 activities
- ◆ Budget : Spending \$1.9 Billion

## Overview of 2004 annual action plan for closing the digital divide

- ◆ Number of participant : 12 Ministry
- ◆ Budget : Spending \$ 0.3 Billion

Ministry of Education and  
Human Resources Development

Providing 50,000 internet PCs to low-income  
students (including internet service fee)

Ministry of Government Administration and  
Home Affairs

Constructing 100 the information network village (Invill)

Ministry of Agriculture & Forestry

Providing IT education program to farmers  
Constructing on-line shopping mall

*THANK YOU!!!*