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**STRATEGIC DEVELOPMENT OF KOREA'S  
ICT POLICY EXPERIENCE**

SESSION 4



UNITED NATIONS  
**UNCTAD**

Mr. Jongbong Park  
Director  
Standards Promotion Department  
Telecommunications Technology Association  
Republic of Korea



# Strategic Development of Korea's ICT Policy Experience

12<sup>th</sup> May, 2015

**Jongbong PARK. Ph.D.**

**Director  
Telecommunications Technology  
Association**



# Korea, Republic of ???

What is in your mind?

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# I. STATUS OF ICT INDUSTRY

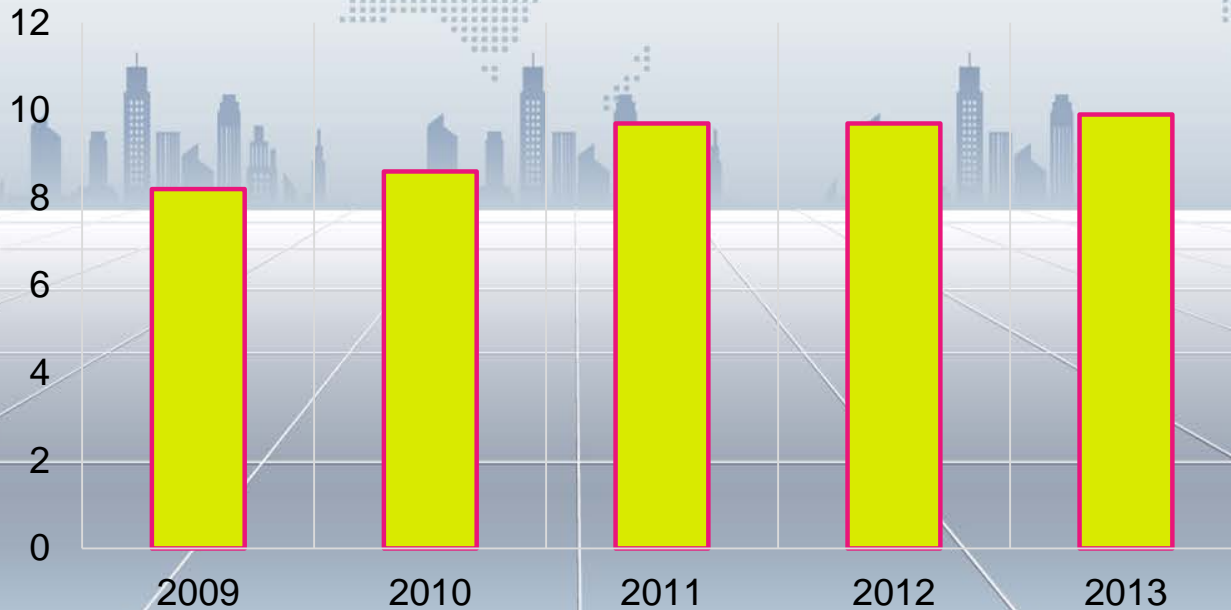




# ICT Industry In Korea (1/3)

## ICT vs. GDP

	2009	2010	2011	2012	2013
ICT Growth Rate (%)	4	12.5	11.6	3.1	5.5
Contrib. to GDP(%)	8.2	8.6	9.7	9.7	9.9

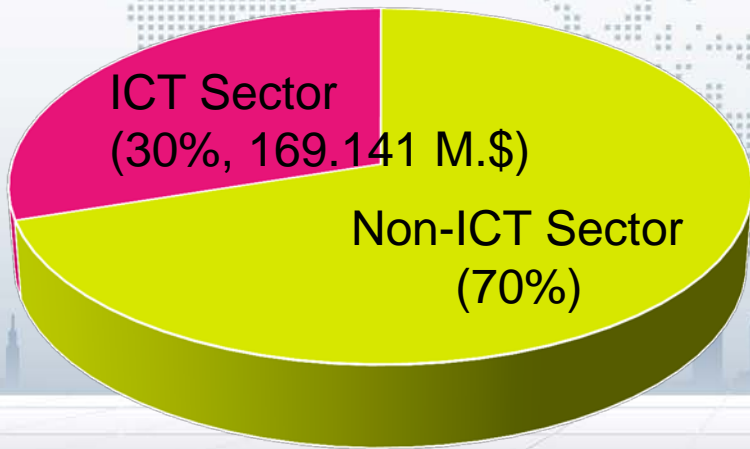




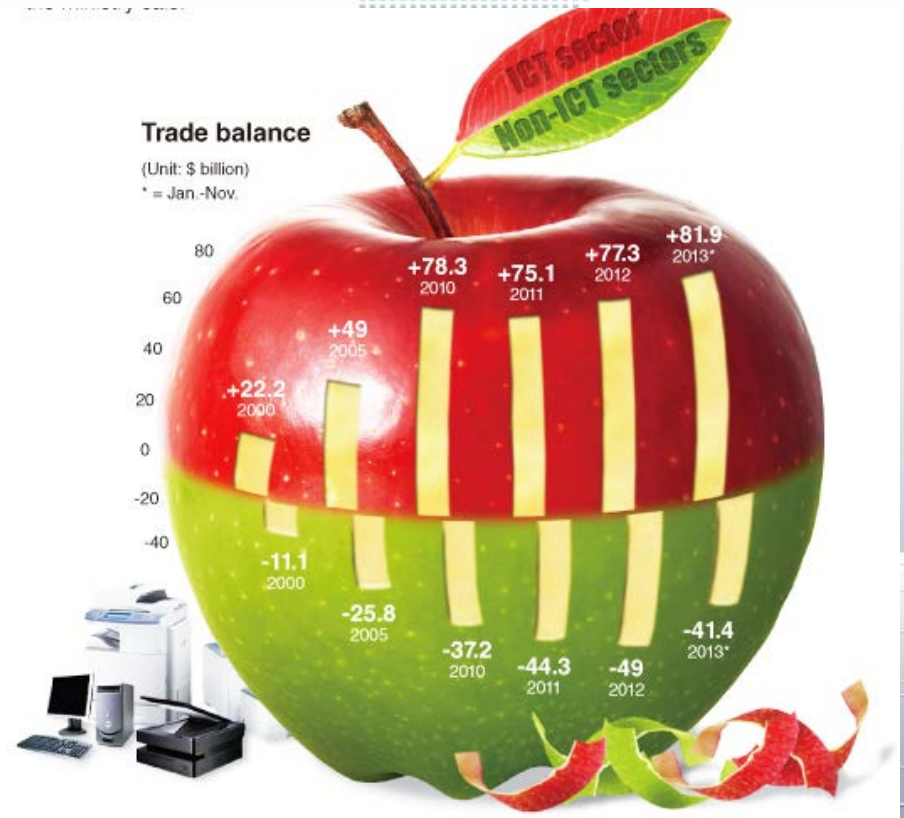
# ICT Industry In Korea (2/2)

## ■ ICT Contribution to Export

(in 2013)



## ■ Trade balance





# Korea' ICT in the World

## Global position as a ICT powerhouse

UN e-Government Survey  
2010, 2012



UN

ICT Development Index  
2010~2013



ITU

ICT Global Competitiveness Index  
2010, 2011

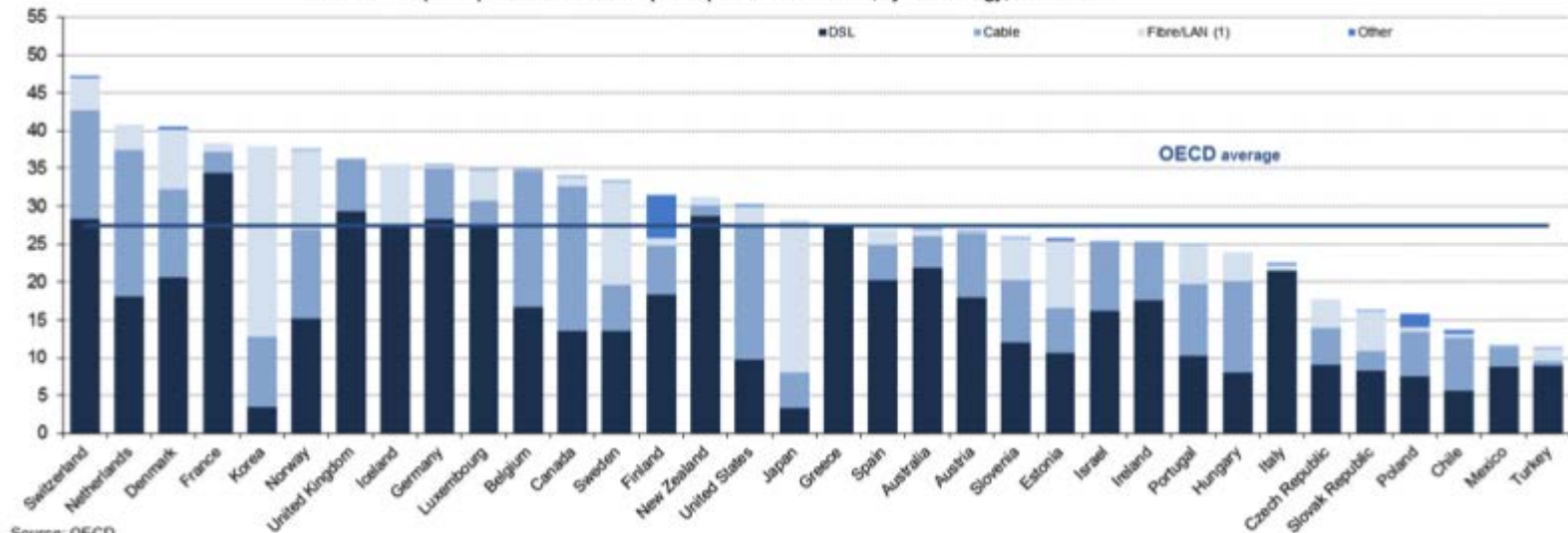


MIC-Japan



## OECD Broadband Subscription

OECD Fixed (wired) broadband subscriptions per 100 inhabitants, by technology, June 2014



Source: OECD



## **II. ICT POLICY IN KOREA**





# Significance of ICT in Korea

- A key driving force behind social changes
- The key element and best strategy for enhancing a national system
- A principal force in the growth of Korea for the past 20-25 years



# Development History of ICT in Korea

## Digitalization (1987~1994)

- Digitalization Project for Public Administration
- National Basic Information System Project

- Act on Digital Network (1985)

- 10 M + telephone lines (1987)
- Internet Commercialization (1994)

## Informatization (1995~2002)

- Basic Plan on Informatization Promotion
- Comprehensive e-Government Implementation Plan

- Basic Act on Informatization Promotion (1995)
- Informatization Steering Committee (1996)
- e-Government Act (2001)
- Act on Resolving Digital Divide (2001)

- 10 M + Internet users (1999)
- 10 M mobile users (1998)

## E-Government (2003~2007)

- e-Government Roadmap
- Basic Plan on u-Korea

- Presidential Committee on Government Innovation (2003)

- 40 M Internet banking users (2007)
- First place in ITU Digital Opportunity index for 3 consecutive years (2005~2007)

## Integration (2008~2012)

- 4th Basic Plan on National Informatization

- Framework Act on National Informatization (2009)
- National Informatization Steering Committee (2009)

- First place in UN e-Government evaluation ('2010, 2012)
- 50 M + mobile users (2010)
- 10 M + mobile banking a day (2012)

## Creative Economy (2013~Present)

- 5th Basic Plan on National Informatization
- Government 3.0

- Act on Disclosure of Public Data (2013)
- Special Act on ICT (2013)

- Creative use of ICT
- Resolve social issues with ICT
- Create jobs

**Initiatives**

**Legislations**

**Achievements**



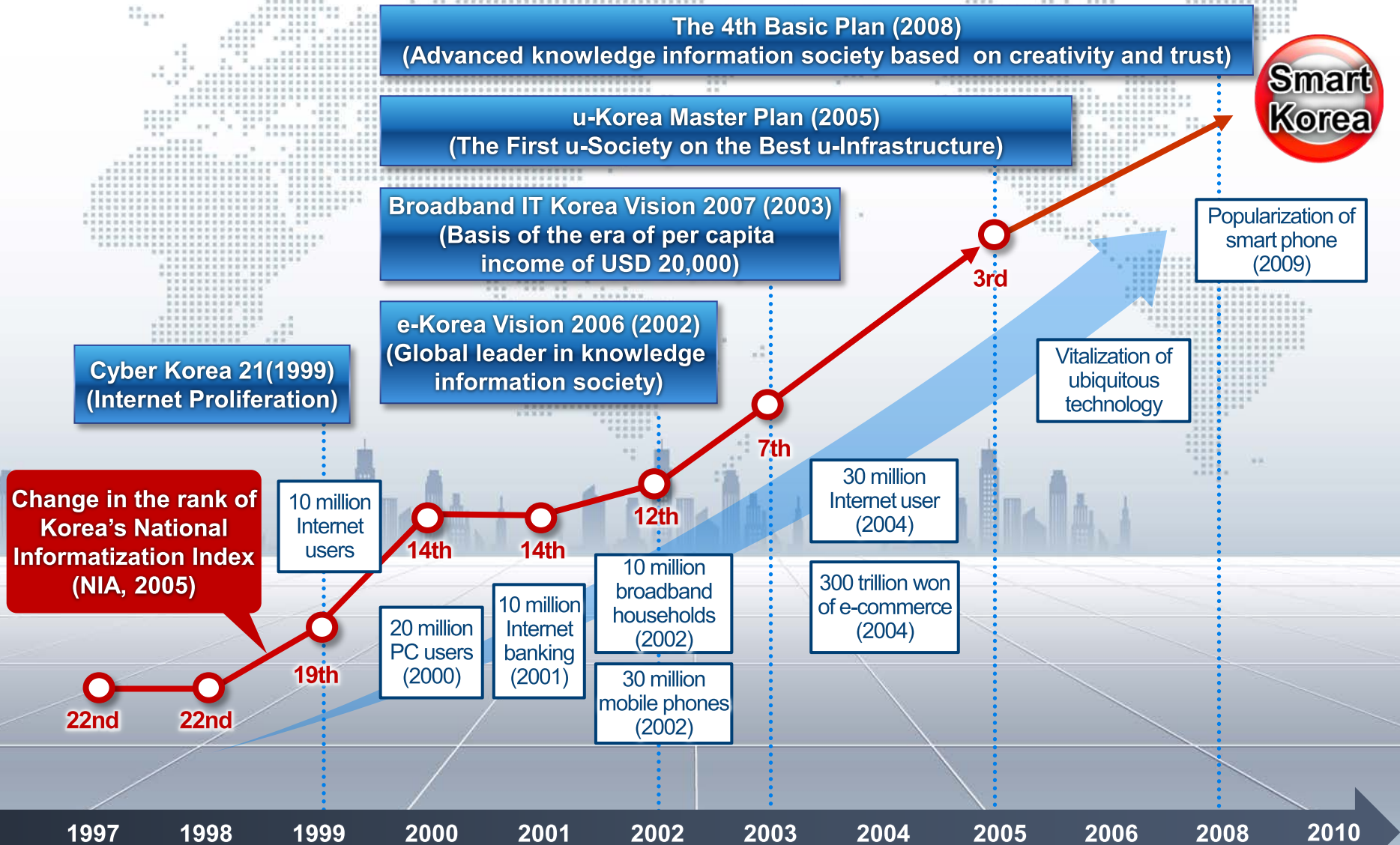
# Korea's 20-year Trace of ICT

■ Focused on **national informatization** to realize a knowledge-information society

	1987	1995	2001	2008	Present
Phase	INTRODUCTION		GROWTH		MATURITY
Goal	To build basic DB	To establish the foundation of ICT and promote the use of the Internet		Utilize & enhance ICT	
Means	Automation & efficiency	Improving the networking productivity		Convergence & service innovation	
Main plan	National Backbone Network Project	Basic Plan for Informatization Promotion Cyber Korea 21		Basic Plan for National Informatization	
e-Gov		Informatization of Ministries	Local administration integrated information system	11 major e-Gov initiatives 31 major e-Gov initiatives	
Data-based		Broadband Network		Broadband integration WiBro, RFID/USN, DMB, IPTV	



# Korea's Informatization





# Informatization Promotion Fund

## Goal

- Promotion of e-Government
- Broadband Network Roll-out
- Support R&D and Standardization
- Human resources development in ICT

## Management

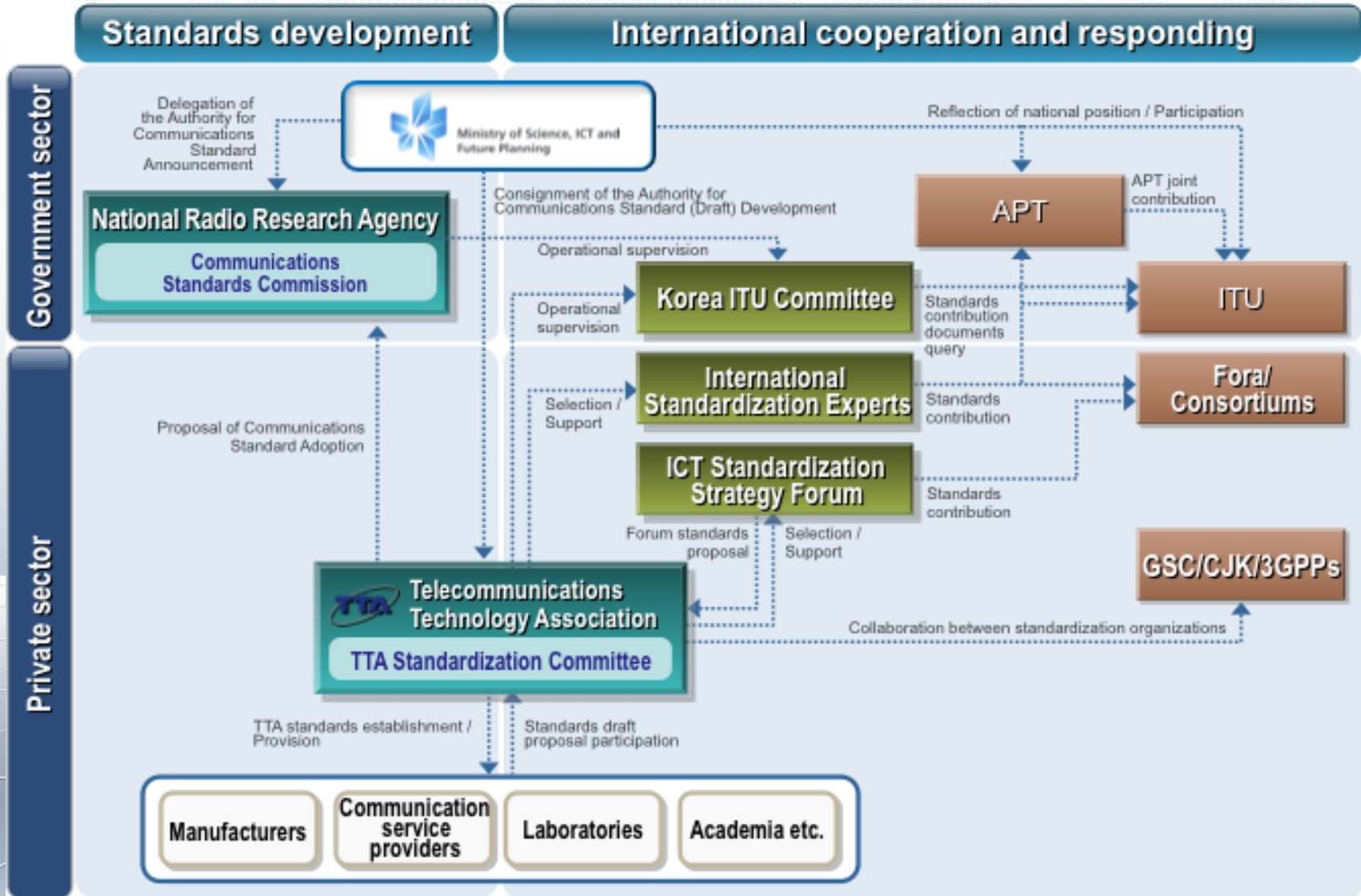
- MIC (overall management), IITA (specific project management)
- Fund Management Council (Evaluation)
  - **Chair:** Vice Minister of MIC
  - **Members:** Director Generals of related Ministries

## Status of Fund Investment

- **Funding: Total of US\$ 7.78 billion (1993~2002)**
  - Government: US\$ 3.06 billion (39.3%)
  - Private Sector: US\$ 3.59 billion (46.2%)
  - Miscellaneous profits and interests:  
US\$ 1.13 billion (14.5%)
- **Investment: Total of US\$ 5.33 billion (1994~2003)**
  - Broadband infrastructure and promotion:  
US\$ 800 million (15.1%)
  - Informatization Promotion: US\$ 1.07 billion (20%)
  - R&D Infra : US\$ 375 million (7%)
  - ICT R&D: US\$ 2 billion (37.5%)
  - ICT Human Resource: US\$ 950 million (17.8%)
  - Standardization: US\$ 135 million (2.6%)



# Standardization Policy/Framework



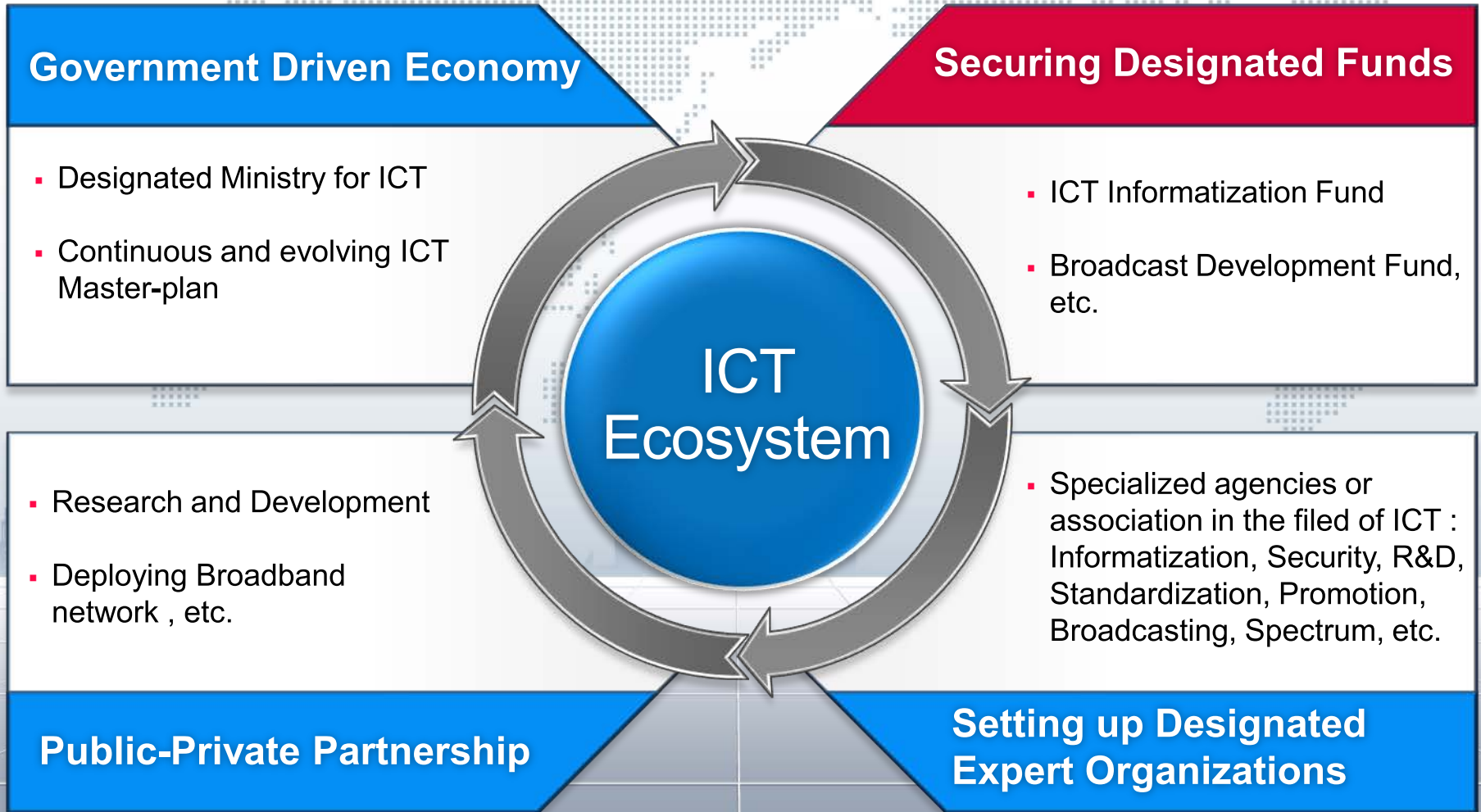
# III. KEY SUCCESS FACTORS







# KEY Success Factors

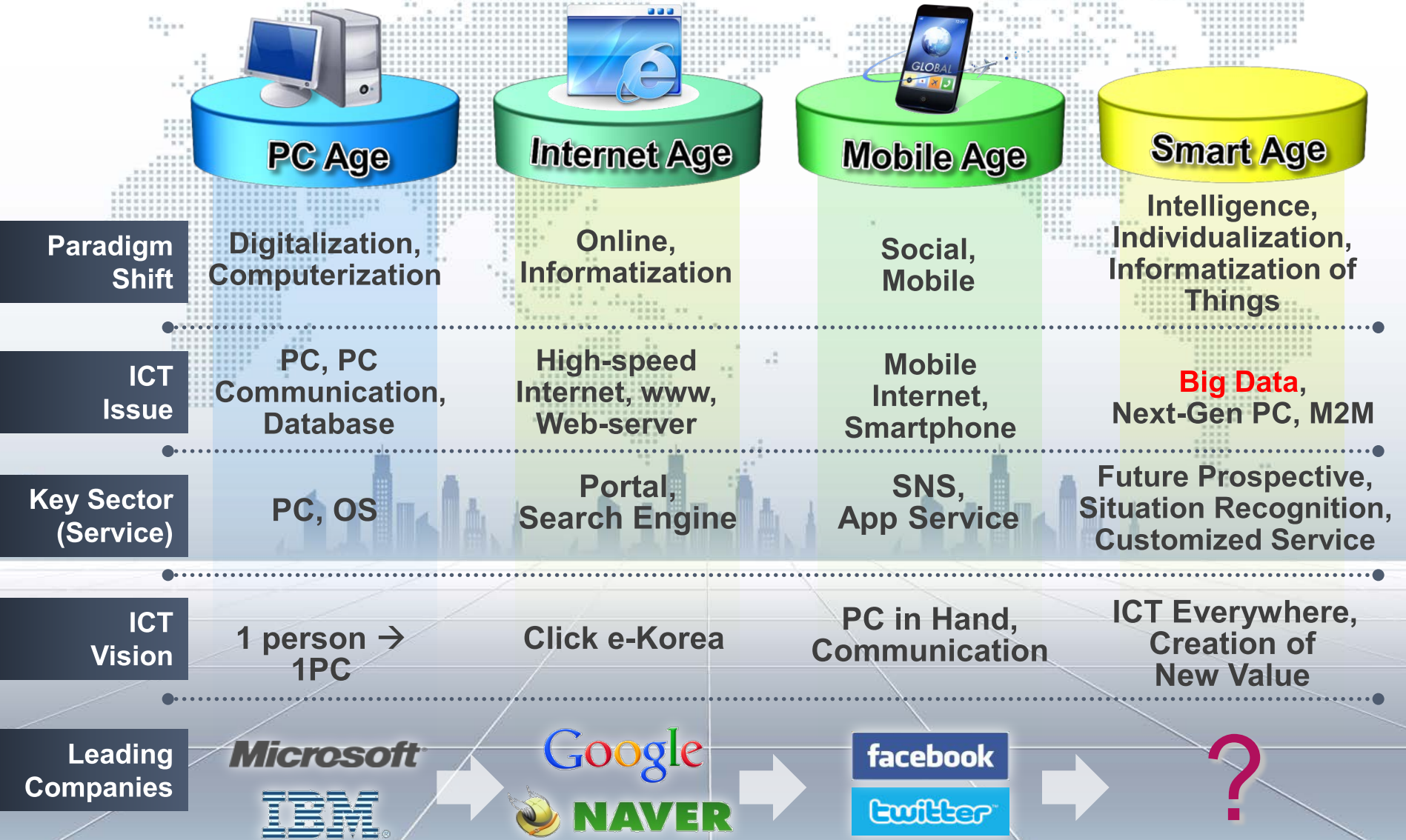


# IV. CHALLENGES





# ICT Paradigm Shift





# Policy on Technology

## ■ Techno-Nationalism

- Lessons from CDMA case



## ■ Convergence with non-ICT sectors/industries

- ICT in mature stage which needs collaboration with non-ICT sectors (e.g. Internet of Things)



# Roles of New National Informatization

1

**Lead investment in new technology and institutional improvement**  
⇒ Foster a creative economy (ICT convergence & expansion and the creation of new business ecosystem & demand for ICT)

2

**Solve current national and social issues** scientifically and effectively at low costs  
⇒ Ensure a human-centered **safe and comfortable life**

3

**Strengthen the ICT literacy** of citizens  
⇒ Combine imagination & creativity with ICT (creative assets)

4

**Enhance the network infrastructure**  
⇒ Support national & social innovation



# **V. LESSONS FROM KOREA'S EXPERIENCE**





# Characteristics of ICT Policy

Policy needs to be developed based on the premise that technology development in ICT fields is very fast and hard to forecast.

→ Constant updates are required

National informatization policy entails long-term large-scale investment and has great ripple effects

→ Long term planning is required

Policy serves as an effective tool to ensure the constant growth of economy and improve the quality of people's life, and entails changes in social structure and systems as well as values, behaviors, and norms of people

→ Cross-sectoral cooperation is required



**Thank You**

