



Korea ICT & e-Government Success through Aggressive Broadband Policy

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Young-Sik Kim
yskim@egov.md

E-Government Advisor, eGC, Moldova



Agenda

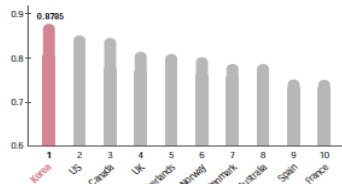
- Korea ICT/e-Government Success Areas
 - ICT, e-Government, Industry
- Lessons Learned (CSF)
 1. Leadership
 2. Aggressive Policies & Actions
 3. Institution
 4. Funding
 5. Human Capacity Building
- Current Plan for Tomorrow





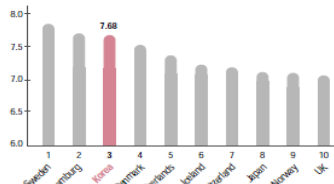
ICT Korea Global Rankings

E-government Development Index



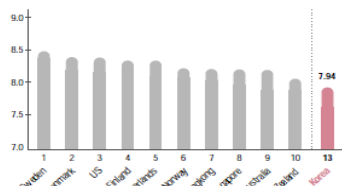
Source : UN, 'E-government Survey 2010', 2010. 4.

ICT Development Index



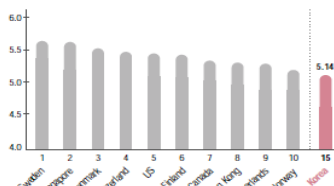
Source : ITU, 'Measuring the Information Society', 2010. 3.

Digital Economy Rankings



Source : EIU, 'Digital economy rankings', 2010. 6.

Networked Readiness Index

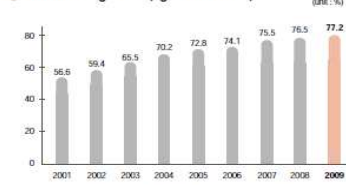


Source : WEF, 'The Global Information Technology Report 2009-2010', 2010. 3.



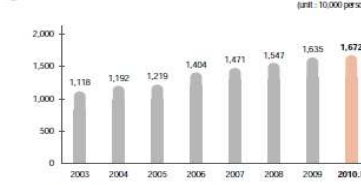
ICT Korea Domestic Numbers

Internet Usage Rate (age 3 and above)



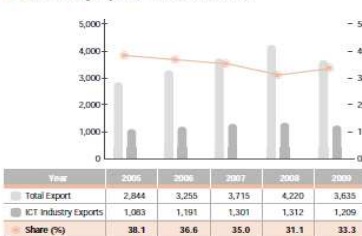
Source : Korea Communications Commission / Korea Internet & Security Agency, November 2009.

Broadband Internet Service Subscribers



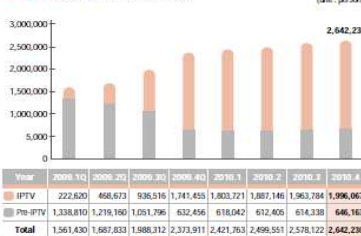
Source : Korea Communications Commission, August 2010.

ICT Industry Export (in USD 100 million)



Source : National IT Industry Promotion Agency

Number of IPTV Subscribers



Source : Korea Communications Commission





UN e-Government Index 2010

Country	Ranking by Year						Rank Difference (2001-2010)
	2010	2008	2005	2004	2003	2001	
Korea	1	6	5	5	13	15	▲ 14
US	2	4	1	1	1	1	▽ 1
Canada	3	7	8	7	6	6	▲ 3
UK	4	10	4	3	5	7	▲ 3
Netherlands	5	5	12	11	11	8	▲ 3
Norway	6	3	10	10	7	5	▽ 1
Denmark	7	2	2	2	4	9	▲ 2
Australia	8	8	6	6	3	2	▽ 6
Spain	9	20	39	34	29	16	▲ 7
France	10	9	23	24	19	14	▲ 4
Singapore	11	23	7	8	12	4	▽ 7
Sweden	12	1	3	4	2	11	▽ 1
Germany	15	22	11	12	9	10	▽ 5
Finland	19	15	9	9	10	13	▽ 6

Source : UN, "e-Government Survey", 2001-2010.

Source: United Nations 2010 E-Government Development Knowledge Base,
<http://www.unpan.org/egovkb>



e-Government Global Awards



Achieving the World Class e-Government

International Awards



KISS
 : UN Public Service Award ('07)



Invil
 : World e-Gov Forum Award ('06)



KONEPS
 : WCIT Global Excellence Award ('06)

Model Case Selection



HTS
 : OECD e-Tax Best Practice ('06)



OPPP
 : 'Online Politics Trophy Top10' ('06)



uTradeHub
 : 'World Advanced' in APEC Report ('06)

International Certifications



KIPOnet
 : WIPO IT Standard ('06)



UNIPASS
 : ISO 9001, 20000 ('06)



KONEPS
 : UN/CEFACT Int'l Standard ('05)





Infrastructure - Broadband

- Household penetration of High-speed internet : #1 of the world
 - 0.1% (1998) -> 69% (2002) -> 97% (2009)
 - * Proportion of households with Internet
- Mobile penetration [subscribers per 100 inhabitants] : top-ranked
 - 3.6% (1995) -> 30% (1998) -> 68% (2002) -> 98% (2009)
 - Rapid smartphone penetration (15M est. '11)



Three Major Factors in ICT Success

1. DB
 - Centralized, Accuracy
 - Accessible, Shareable
2. Infrastructure
 - Standard
 - High speed internet
3. Client centric applications
 - Easy of use
 - Open platform





Lessons Learned (CSF)

1. National Leadership & Commitment
2. Policy & Legal Framework (R&D & Industry Cluster)
3. Institutional Arrangement
4. IT Promotion Fund
5. Human Capacity Building



1. Leadership & Commitment



“For the second nation-building, we will focus on establishing a **knowledge-based economy where information and leading technology play a central role.**”

Address by President Kim Dae-jung commemorating the 50th Anniversary of the Republic of Korea August 15, 1998



“I will promote the continued expansion of the infrastructure for a **knowledge and information society** and **cultivate new industries..**”

Inaugural Address by President Roh Moo-Hyun February 25, 2003



“Our main task is to overcome the point at issue, our economic crisis. However, we also have to prepare for our future. Therefore, our **full-scale promotion of informatization** is valuable as a **new growth engine** for the future of Korea.”

Address by President Lee Myung-Bak “Visionary Announcement for IT” December 3, 2008



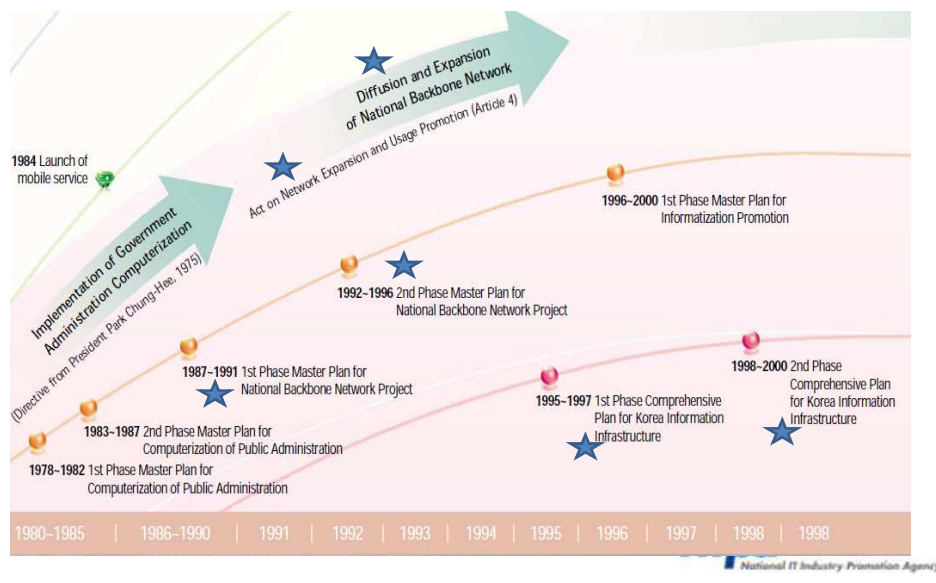


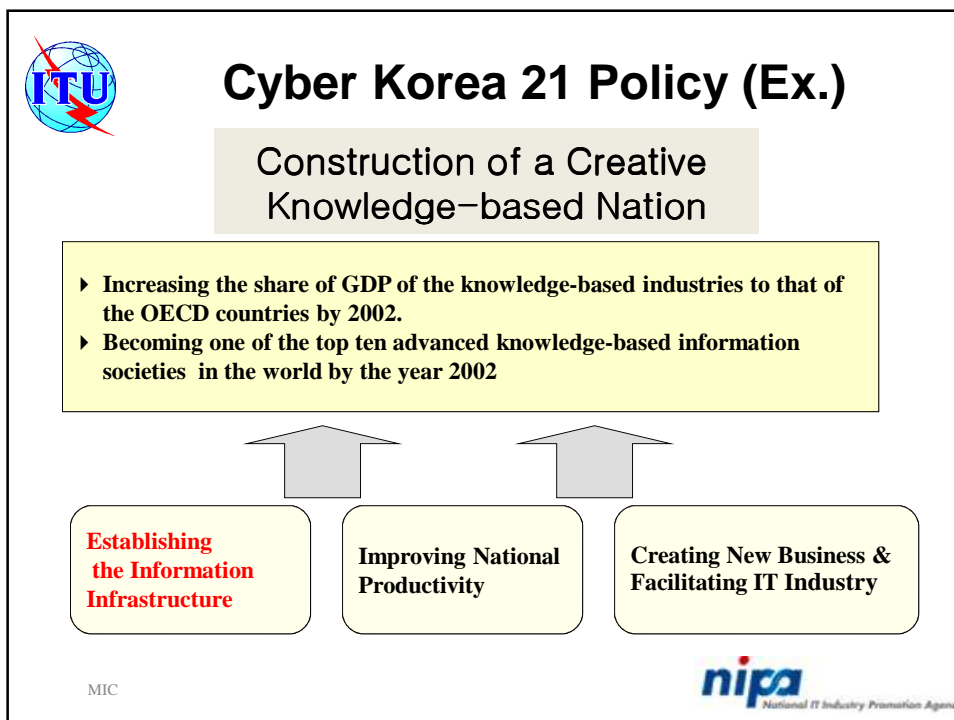
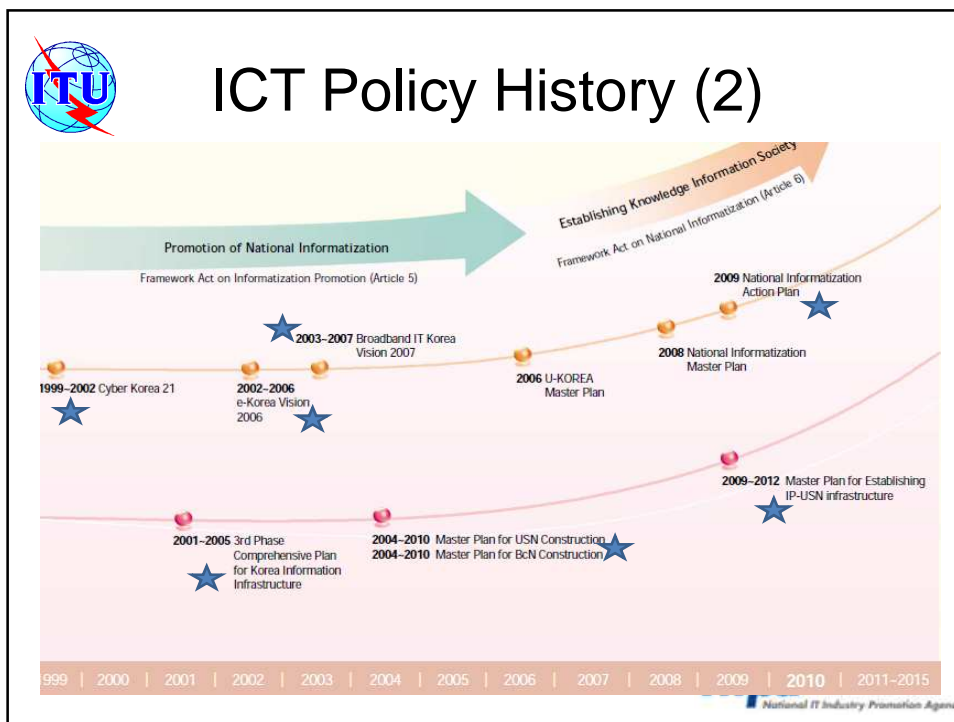
2. Aggressive ICT Policies (Informatization + Industrialization)

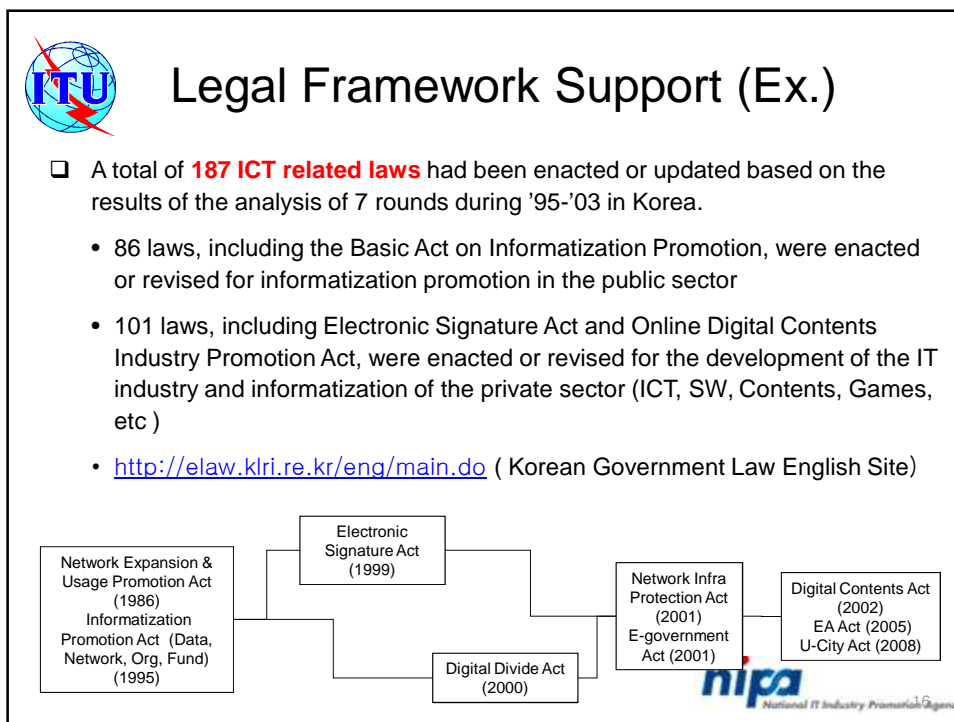
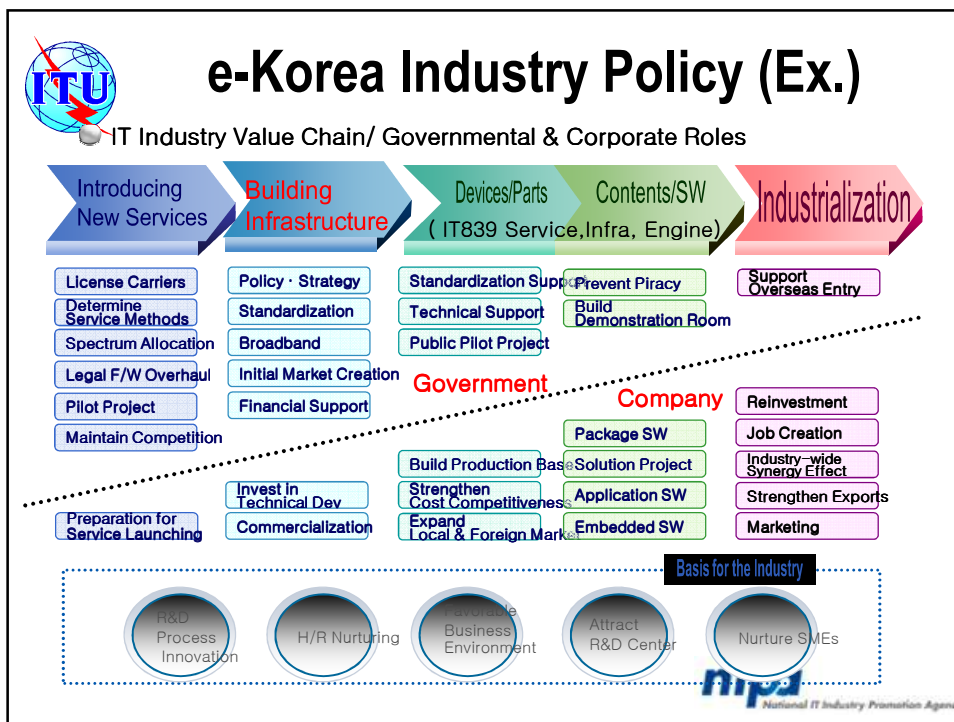
- 1978-1987 National Administration DB
- 1987-1996 National Backbone Network
- 1996-2000 National Informatization (Integration)
- 1999-2002 Cyber Korea 21
- 2002-2006 e-Korea
- 2003-2007 Broadband IT Korea
- 2006-2007 u-Korea
- 2008-2011 New National Informatization (IT Convergence, Green IT, Smart Work)



ICT Policy History (1)









3. Institutional Arrangements

- ❑ Policy by Ministry and Execution by Agencies
- ❑ MoIC from 1994-2007 during heavy ICT sector development
- ❑ Convergence activities to Other Ministry since 2008
 - National Informatization to MoPAS (e-Gov) by NIA
 - ICT Industry Promotion to MKE by NIPA (Previously KIPA, IITA, KIEC)
 - Broadcasting/Telecom Convergence, Mobile Services and Regulation to KCC by KISA, KORPA, KISDI
 - Contents (DB, Gaming SW) to MoCT by KOCCA



4. Funding

- ❑ ICT Promotion Fund based on ICT Promotion Law (9B\$ used) since 1993 by Informatization Promotion Law
- ❑ Informatization Promotion Fund Used for Major Infra projects
 - Key projects: **KII Project** and 11 e-Government projects
 - R&D ; IT839 Products and Services, Standard
 - ICT workforce Education and Training
- ❑ Public-Private Partnership
 - Co-investment: **KII Backbone and Subscriber's network**
 - BTL (Build, Transfer, and Lease): **Army Broadband Network, NEMA Digital TRS Network**
 - Share-in-Revenue: Electronic Payment Systems for on-line civil services (Supreme Court, G4C, etc.)





5. Human Capacity Building

- ❑ Mass digital literacy campaigns sponsored by Korean government
 - Target groups: the elderly, the disabled, farmers, government officials, the military, housewives, low-income groups and prison inmates, ect. (25 Millions, 50%)
 - 1st(2000 - 2002.6): 13,805,192
 - 2nd(2002.7 – 2004. 12): 11,811,145

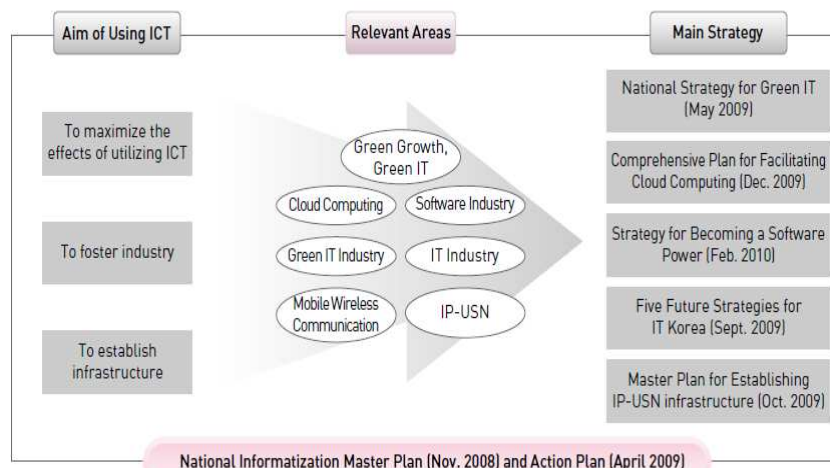
- ❑ Partnership with private computer academies, colleges, welfare organizations, etc.(Grant, matching fund, etc.)

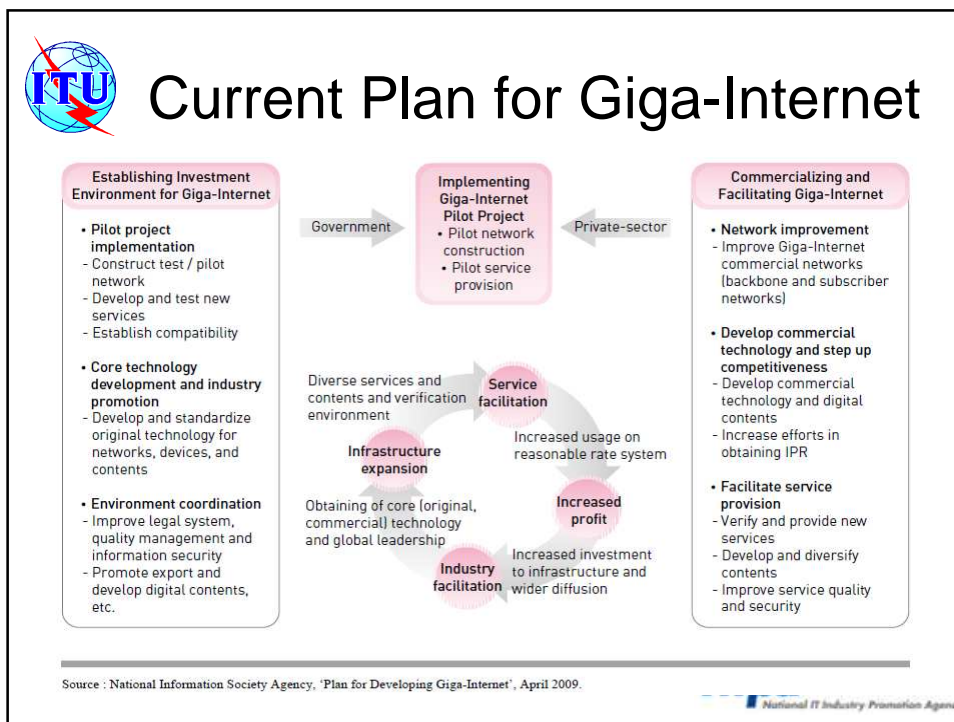
- ❑ IT Professional trainings for overseas markets (subsidies to professionals and training institutes)

- ❑ Boosting up ICT demand by training programs



Current Gov's ICT Blueprint





Questions & Discussions

Thank you

nipa
National IT Industry Promotion Agency