ICT Development Strategies

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YONG BEOM CHO, Ph. D.
1. Is driving force in the development of a country in the 21st century.

2. Increases efficiency and effectiveness in the management of society and country.

3. Causes the decreases of the need for transportation, allowing energy savings and decrease of environmental pollution.

4. Prevents concentration in the big cities and brings balanced development throughout the country. Development of transportation infrastructure is beneficial to a country’s economy but causes concentration in the big cities. However, a balanced development of IT may contribute to the development of rural areas also.

5. Brings transparency to all areas of nation, society, and company. It also prevents corruption and contributes towards developing a “Just society”.

6. IT industry itself contributes to increase in national wealth.
ICT Developments in KOREA

Increasing ICT Infra demand

Early Stage (87~94)
Modernized ICT Infra Buildup

Informatized Stage (95~03)

Competition Structures

ICT Convergences

5 years plan for ICT e-Administrations
Nation Network Infra Project
High speed Nation Network Project
IT839, SW Industry U-Korea Basic Plan

Radio Regulation
Network Regulation NIA
Information Promotion Regualtions
E-Government Special Committee

Telephone Color TV
TDX, TICOM DRAM Memory
ADSL CDMA
BCN, DMB, WiBro

KT SK Telecom
PC and PC Communications
CDMA Service PCS Service High Speed Internet
Wireless LAN U-equipments

Value-seeking IT (04~ )

Policies
Legal
R&D
Services

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Facts for Korea IT Infra’s Level

Broadband Internet Users
- 16.7 Million users, 34.4%
  (2010, ITU)

Internet Utilization Percentage
- 39.4 Million users, 80.9%
  (2011, ITU)

Mobile Phone Diffusion Percentage
- 51 Million users, 100.0%
  (2011, NIPA)
- 63.8M (39%)
  (2011, NIPA)

e-Government Leader Nation
- Ranking 1 in terms of e-Gov
  - e-Government index (2010, UN)

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Facts for Informatization Index

International Informatization Index (’10)

- ICT Development Index 2008 (ITU) (3rd)
- e-Government Readiness index 2010 (UN) (1st)
- Online Service Index (UN) (1st)
- Digital Access Index (4th)
- IT Industry Competitiveness Index ‘09 (16th)

* () shows Korea’s position in the world

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Facts for ICT Industry growth in Korea

- Share in GDP (real): 9.5% (‘00), 10.4% (‘10)
- Export (100 million dollar): 202 in 1994, 1,539 in 2010
- Number of firms: 5,837 in 1994, 20,743 (‘06 ¾) in 2010

Source: NIPA

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Main Driver of Economic Growth in Korea

- About half of Korea’s economic growth has been achieved in the ICT industry.

ICT Industry Contribution to GDP Growth

Source: NIPA

- ICT helps to keep the country’s current account surplus.
  - The share of ICT goods in total merchandise exports is highest among OECD countries in 2010.

Current Account Surplus

Source: IITA

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## Facts for World-leading ICT Products of Korea

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<tr>
<td>Digital TV</td>
<td>World Market Share 45.6% (1st) (2010 Q4)</td>
<td>LCD</td>
<td>World Market Share 36.7% (1st) (2011 Q1)</td>
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<td>LCD</td>
<td>World Market Share 59.0% (1st) (2010 Q4)</td>
<td>DRAM</td>
<td>World Market Share 21.7% (2nd) (2011 Q1)</td>
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<td>DRAM</td>
<td></td>
<td>Broadband Internet</td>
<td>Internet penetration rate 80.9% (7-8th) (2011)</td>
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Changing with ICT Development

IT Revolution

Digitalization + Network

Government
Political
Economic
Personal

Area

Changing

- Increase Efficient by e-Gov' National Service
- Participation in Social Issue
- Internet Utilization of Political Party
- Increase IT Industry rate
- Increase productivity and Competitiveness
- Whole changing of Consumption, Culture, Social life

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**Master Plan**

**Nation’s Environment Analysis**

- Economic Society Environment
- ICT Environment

**Analysis for Nation Development Strategy**

- National Projects
- Major Development Plan

**Issue Analysis of Colombia’s Nation Area**

- Infrastructure
- Industrials
- Employments
- Administrations
- Culture
- Legal Systems
- Life
- Economic System

**Basic Direction and Structure of Master Plan**

- National Competitiveness and Quality of Life
- Balance and Connection among Infra, Informatization, and Industrial
- Basic direction of Major ICT Area

**Nation Development and ICT Analysis**

- Theoretical Approach
- International Organization
- Korea’s Experience
- National’s Properties

**Current Status and Demand Analysis of ICT Area in Colombia**

- ICT Infrastructure
- ICT Industry
- ICT HRD
- e-Application
- e-Education & Awareness Building
- ICT Legal Framework
- ICT Standardization
- ICT Institutional Framework

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Operation Plan

ICT Infrastructure

- ICT Network
- ICT Business Plan

ICT Industries

- ICT Human Resource
- ICT Industry's policy

Legal Framework

- ICT Infrastructure
- ICT Liberalization
- ICT Legal Framework
- e-Education & Awareness
- e-Application (e-Com, SMB)
- e-Application, (e-Gov.)

ICT Industry

- ICT HRD
- ICT Standardization

Personnel

Company

Government

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Thank You