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Republic of Korea

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4 Aug. 2015 LEE, Sanghun Director







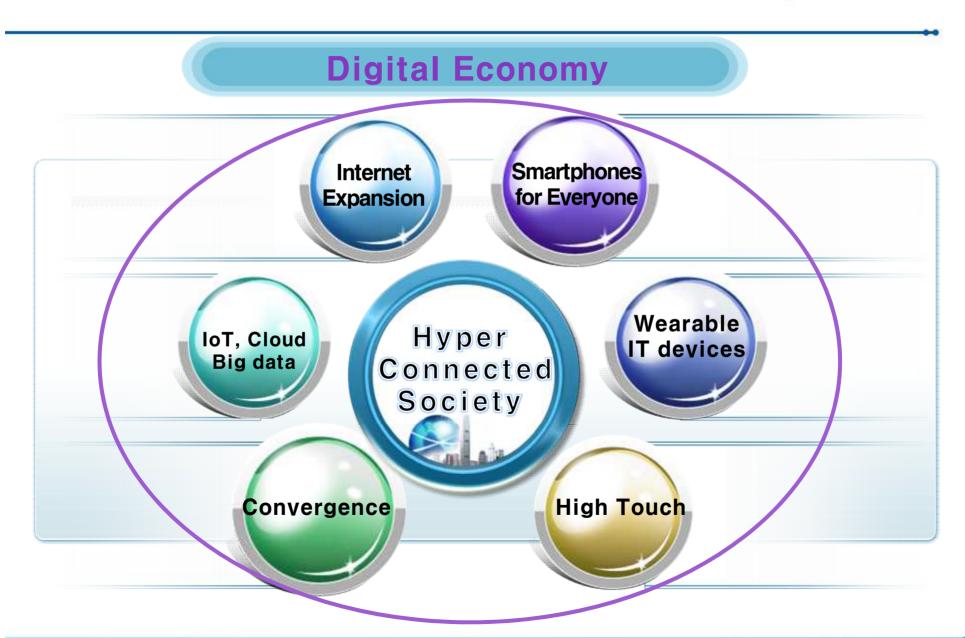


- **TOTAL STATE OF THE CONTRACT O**
- **III** K-ICT Vision and Priority Tasks
- **IV** Conclusion



Smart Digital Economy





Current Issues:Changes in the Global ICT Market Environment



Emergence of a Hyper-Connected Society and ICBM-based Economy



Rapid Growth of SW/Platform & ICT Convergence Sectors



Roles of Players



Government

- Provide leadership as a policy maker
- Act as an investor in R&D and HR
- Serve as a judge for fair competition

Industry

- Make future-oriented investments
- Strengthen core competitiveness

Consumer

- Diverse Services Vs Necessary Services
- ICT Convenience Vs Privacy

Roles of the Government



I Policy Establishment

- Establishing a vision and objectives
- Building a foundation for development
- Adopting policies based on technology and environmental changes

2 R&D and Talent Nurturing

- Seeking diversified R&D to secure leading technologies
- Encouraging the inflow of talents to Korea and long-term nurturing of problem-solving, creative talents

Emerging

Challenges & Opportunities

4 Proactive Investment and Initiatives

- Proactive response to changes, investment in and support to leading industries
- Seeking public-private cooperation for investment

3 Fair and Innovative Market Environment

- Creating a competitive environment through liberalization and deregulation
- Industrial promotion through nurturing of startups and venture companies

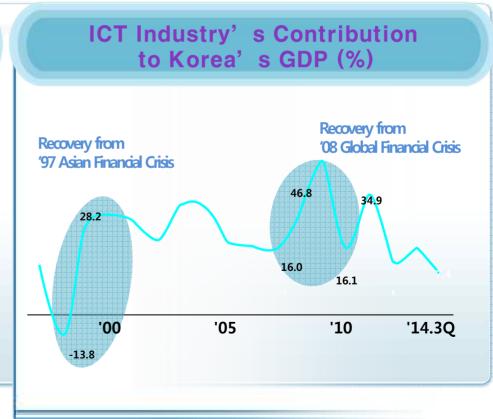
Korea's Economy and ICT



Korean Economy entering a Phase of Slow Growth

ICT, a Driver for Economic Recovery





Current Issues:

Korea's New Challenges and Implications



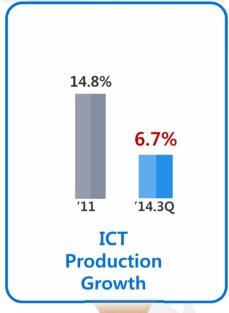
Structural Problems

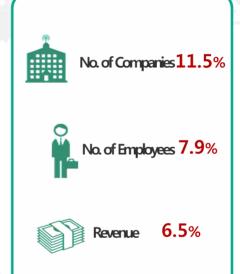
Sluggish Economic Growth Lack of
High-Growth
Companies

Investment in New Areas

18.5% 39.6% Overall Highly-skilled

Talent Shortage







1

Structural Reform

Fostering of New Industries

Creation of more Dynamic ICT Industries

Promotion of SW & New Industries

K-ICT Vision and Priority Tasks





K-ICT Vision and Priority Tasks





Structural Reform of the ICT Industry



Expanded Investment in ICT Convergence



Strengthening of Global Cooperation



Fostering of 9 Strategic Industries

Structural Reform of the ICT Industry









Attract more foreign investments

Expanded Investment in ICT Convergence Ministry of Science, ICT and Future Planning



Smart City

Education

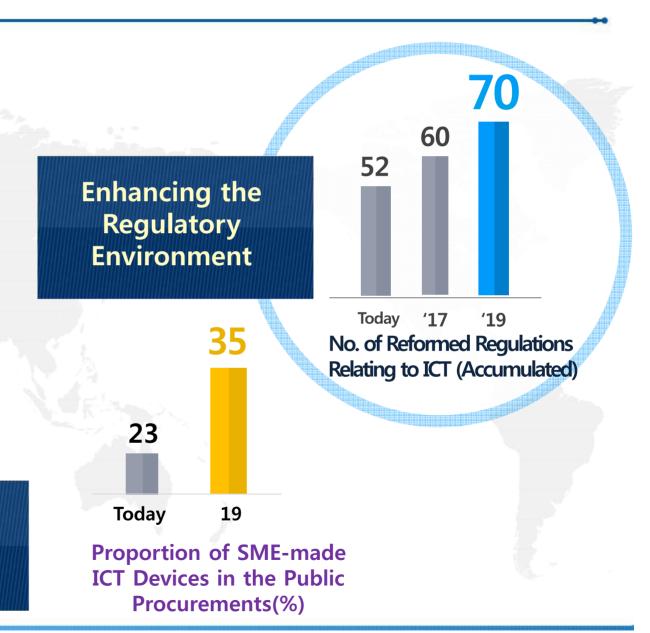
Healthcare

Tourism

Transportation

Energy

Creating Public Demand for SME Products



Strengthening of Global Cooperation



Taking a
Customized Approach
for Overseas
Market



Enhancing Korea's Global Partnership





Content

Digital Content Big Data

Service

5G

UHD

Device

Smart Devices

Infrastructure

Software

IoT

Cloud

Information Security

- Content



Digital Content

- Promoting cooperation among global/big/medium/small companies so as to foster promising future content and source technologies
- ◆ Nurturing talents in next-generation content through establishing an open campus based on industry-academia-research cooperation
- Establishing a convergence content business center to provide systematic and integrated support

Big Data

- Developing a standard big data analysis model for 7 promising industries, creating new markets and achieving fast vitalization
- ◆ Seeking pilot service projects to address day-to-day urban issues (i.e. transportation, parking, energy) by using big data based on the u-City infrastructure
- ◆ Improving a legal framework to expand the supply of anonymization technologies and SW, and to balance big data industry promotion and privacy protection
- Aiming to develop and distribute advanced PETs (Privacy Enhancing Technologies) and encourage voluntary adoption to promote the safe use of big data





Smart Devices

- ◆ Securing technological competitiveness through developing various next-generation device technologies and parts that SMEs can produce
- ◆ Fostering globally-successful companies through developing signature products and encouraging the production of smart devices in other industries as their main items
- Supporting the virtuous cycle of creating and developing SMEs and venture companies (i.e. active support to device startups and regional hubs)





5G

- Developing commercial technologies for 5G equipment, terminals and services that have global competitiveness
- ◆ Securing investment capital and pursuing commercialization in 2020 by encouraging sound competition in the mobile telecom market

UHD

- ◆ Established plans (Jun. '15) for the world's first terrestrial UHD broadcasting and aiming for commercial launch after spectrum allocation and pilot services
- Enhancing support to foster the media industry by building a regional media venture center, etc.
- ◆ Aiming to overhaul the regulatory system to help broadcasting service providers actively embrace next generation media services and thereby continue to grow





Software

- ◆ Enhancing the fundamentals of the SW industry by supporting big, long-term promising future SW projects (5 projects by '17/max. 10 years), creating regional SW convergence clusters (SW companies-universities-research institutes, 10 by '17), etc.
- ◆ Providing customized support based on the development phase of a company (i.e. company foundation, growth, and globalization)

IoT

- Creating large-scale 'IoT test sites in the fields of health care and smart city by collaborating with selected local governments
- ◆ Fostering specialized IoT companies with global competitiveness by identifying and supporting promising IoT startups and SMEs
- ◆ Building and operating the 'IoT Security Center' to check vulnerabilities, security functions, and performance in all stages (design→implementation→inspection) of the IoT test site project





Cloud

- ◆ Applying the 'Cloud First' policy to promote the adoption of cloud in the public sector (20% by '19) and the migration of public services to private cloud (40 by '19)
- ◆ Increasing the use of cloud services (40% by '19) by adopting cloud services in industrial complex (50 by '19) and supporting the use of cloud for SMEs and startups
- ◆ Adopting security measures ('15) and achieving bank-level security for companies

Information Security

- Creating new demands for information security technologies through vulnerability check and analysis, and from IoT security and technology development projects
- ◆ Planning to build 'Cyber Security Spark' a cluster of tech institutes, training facilities, a test bed, and a business cooperation center
- ◆ Going global with customized information security services including consultingdemonstration/test bed project- joint market entry, based on Korea's experiences

Conclusion

