

Supporting Growth of IoT

Korea's Current Status of IoT and Future Outlook

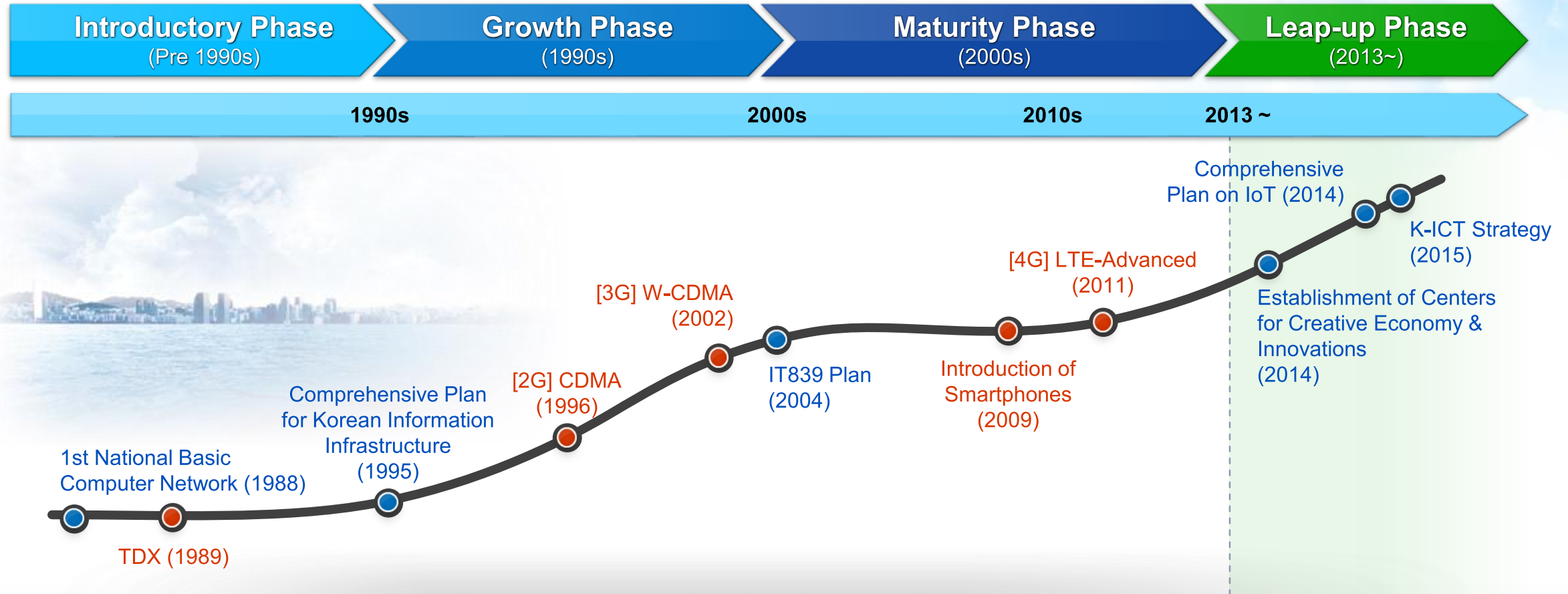
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Choi Jae-you,
Vice Minister of Science, ICT & Future Planning,
Republic of Korea



Ministry of Science, ICT and
Future Planning

History of Korea's ICT



World's Best Network

Fast Innovation Adoption

Robust Creation Environment

Realizing Creative Korea led by ICT

8% Growth, Market Size US\$ **240B** by 2020

Improve ICT Industry Fundamentals

Expand ICT Convergence Investment

Strengthen Global Cooperation

Nurture 9 Strategic Industries

9 Strategic Industries

SW



Cloud



Information
Security



5G



IoT



UHD



Smart
Device



Digital
Contents



Big Data



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Digital Contents



Big Data



Addition

AI





Solution for Global Issues

Pandemic Diseases, Climate Change, Terrorism & Disasters, ...

The Fourth Industrial Revolution

Predictive Management, Tools for Worker Safety, Fast & Flexible Production Planning, ...

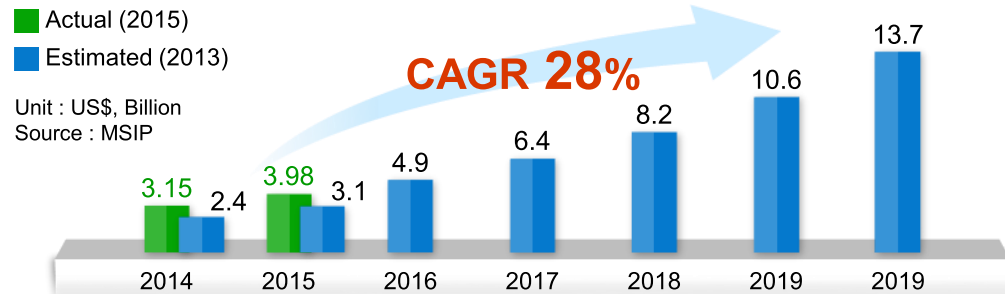


Demand for Better Life

Personalized & Intelligent Home, Car, Healthcare, ...

Fast-growing Korean IoT Market

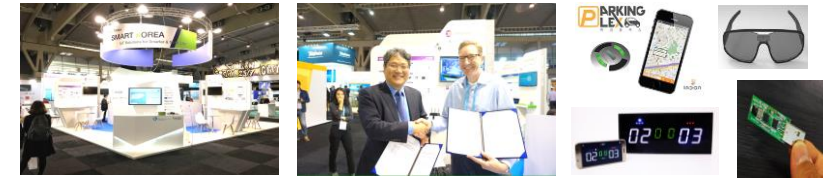
Market Growth



Startup Incubation



- **IoT Innovation Center (at Pangyo Techno Valley)**
 - Supporting Startup Mentoring, Education & Global Promotion



Telco



200,000+
Subscribers



70 Services
with 50 Partners



Incubating
280+ Startups

Investment

- **Cisco - Global Center of Excellence**
 - Invest to 3 Korean SMEs (N3N, Nexpa, Namoo I&C)
- **IBM - IoT Center of Competency**
 - World's 6th Foundation of IoT Center
 - Startup Incubation Program & IoT Education
- **Qualcomm - Startup Incubation with LGU+**
 - US\$ 0.5million for 5 startups within 2 years
- **Nokia - Foundation of IoT Lab with KT**



Global IoT Leader by 2020



Domestic Market

Up to US\$ **25 Billion**

Global Market Share

Up to **3%**



Demand

Promote innovation of services & business



Healthcare



Energy



Manufacture



Car/Transportation



Home



City/Safety

Supply

Reinforce IoT industrial competitiveness



Investment Facilitation



Platform Interoperability



Global Partnership



IoT Information Security

Promote Innovation of Services & Business



Reinforce IoT Industrial Competitiveness

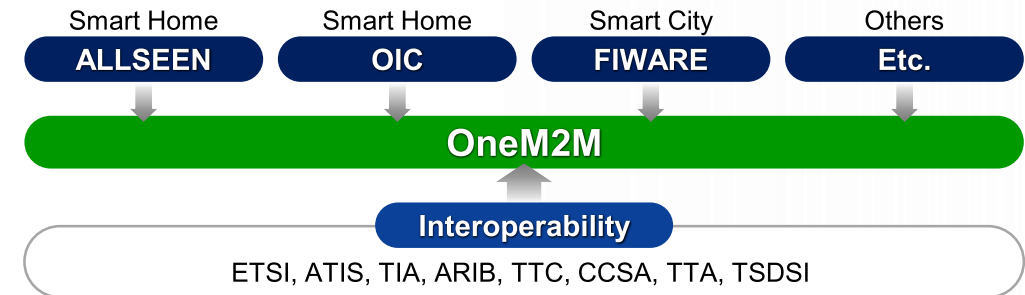
Investment Facilitation

- **Tax Reduction for IoT R&D Investment**
 - IoT platform & chipset, 20~30%
- **Promoting Investment for IoT Network**
 - Quick Permission of (LPWA) Radio Station for Experimental Use

Global Partnership

- **Global Public-Private Partnership**
 - Cisco, IBM, Intel, Qualcomm, GE, Samsung, etc.
- **Global R&D Project with EU**
 - 14 Organization from KR/EU (Spain, UK, France, Germany, Greece, Ireland)
- **Global City Teams Challenge with U.S.**

Platform Interoperability



Information Security

- **'Security by Design' Guideline**
 - ('15) Common → ('16~'17) Home/Car/Factory/...
- **Security Test-bed**
 - Home, Energy, Factory, Car, Healthcare by 2017
- **Security R&D investment**

The Way to
“Hyperconnected Intelligent Information Society”

The Impact of Internet of Things



Data-driven Economy



Artificial Intelligence
Development



Cyber-physical
Convergence

Key Success Factors



Regulation-Free

- Regulation-Free Zone
- Fast Track Approval



Risk Sharing

- Facilitator of Innovation
- Public-Private Partnership



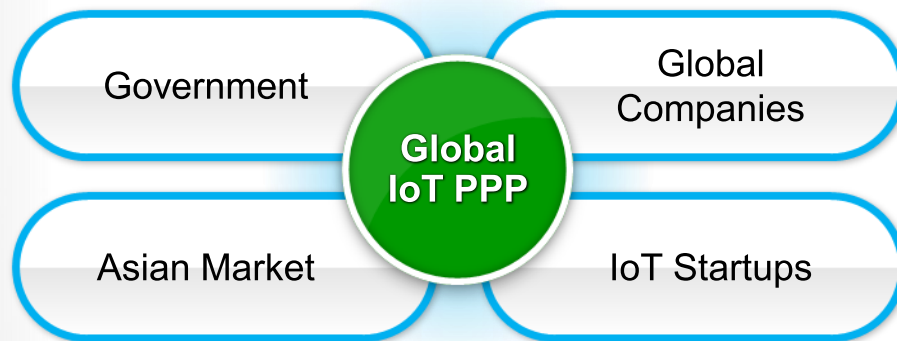
Security Readiness

- Security Issue Monitoring

Global Public-Private Partnership

Participate in Global PPP To Enter Korea's IoT Ecosystem

- Optimize advancement into Asian market through tech cooperation & biz model development with promising Korean startups
- Develop success cases through joint projects with major Korean cities & SMEs



Global City-To-City Cooperation

Open Innovation with Global Cities

- Prove interoperability between heterogeneous IoT Platforms
- Provide Open API of IoT Platforms
- Connect City-to-City through supporting creation environment of services



Thank You!



Ministry of Science, ICT and
Future Planning