# The 4th Asia-Pacific Regional Forum on Smart Sustainable Cities and e-Government 2018 4-6 July 2018, Thanh Hoa city, Viet Nam

# Smart Cities and e-Government in Korea

#### **Gyu Myoung Lee**

ITU-T Q4/20 Rapporteur, FG-DPM Chair LJMU UK/ KAIST Korea gmlee@kaist.ac.kr



# **Smart Cities in Korea**



# **Smart City Seoul**

New Connectivity, New Experience









Citizen-oriented Digital City

Digital Economy

New Citizen Experience

Global Digital Leading City

#### Citizen-driven Digital Governance

Participation

Cooperation

#### **Business Incubation**

Digital Platform

Convergence

### Solving Urban Challenges with Digital Tech.

Improving Citizen Value

#### Infrastructure

Digital Business Ecosystem

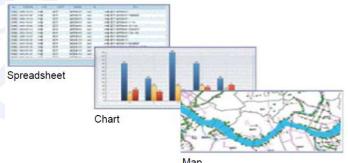
Digital Events



## **Seoul Open Data Plaza**

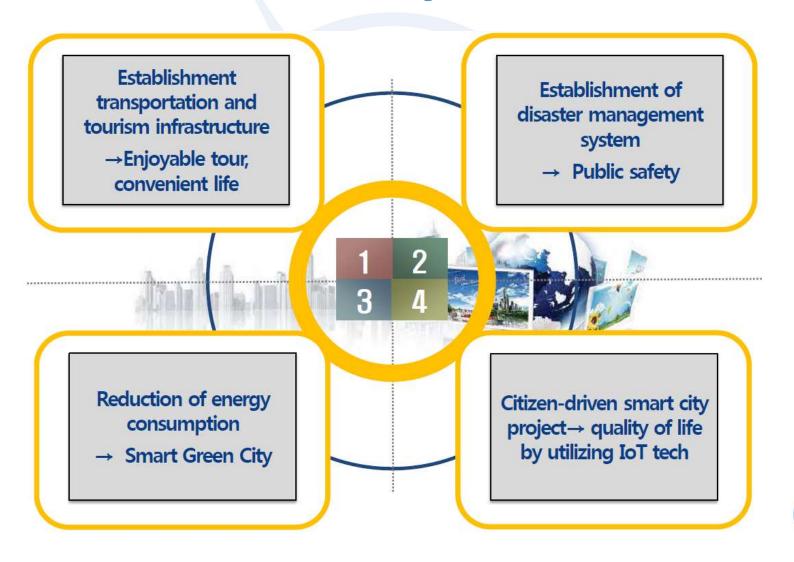


Open 4,700 dataset in 10 areas such as general administration, culture & tourism, public health, and environment



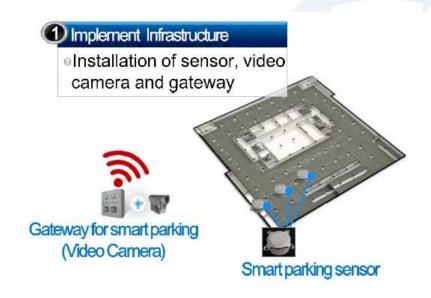


## **Smart City Busan**





# **Busan – Smart Parking**



#### 2 Search for lots

 Searching for the realtime information on available parking lot location, distance, fee



Device for Android, iOS

#### 3 Linkage with navigation

- linkage with Tmap
- Linkage with applications without input the destination



#### Monitor the parking lot

- Real-time video information
- Battery information for parking sensor



#### Inform the estimated parking fee

- Push service for the setting time/estimated fee
- Automated calculation with parking fee DB

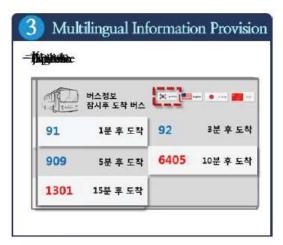




# Songdo – Public transportation information providing servcie & fusion











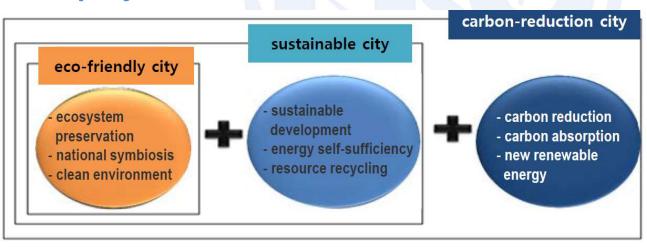


# **Anyang - Pattern analysis of suspect**vhicle through personal data



## **Low-Carbon Green City**

- A city designed to reduce potential carbon emissions and absorb emitted carbon to actively respond to climate change issues
- Green City Projects in Korea commissioned by central government and conducted by municipal governments are 9 projects in total





# Low-Carbon Green City - Wonju





## **Low-Carbon Green City - Busan**

infrastructure delivered by a successful collaboration between the local government, the global technology supplier, Cisco, and South Korea's largest telco, KT.

Population: 3.6 million people in Busan, 4.4 million in metropolitan area

Area: 760km2

Gross Regional Domestic Product

(GRDP): USD 50 billion

#### Busan Green U-City Blueprint Smart Smart Green Smart Smart Smart Safety and Community Urban Energy/ Green (Smart Work/ Mobility Resource Security Logistics Learning/ Recycling Healthcare) **Busan PTA** Green urban Integrated safety Real-time Smart work services center and security logistics Mobile App Dev Smart travel with CCTV infrastructure stations Center Smart energy build-to-lease Green logistics management Smart parking Video contact 100 center operation center Mobile Emergency system Smart buildings Smart learning augmented response and Green u-logistics reality tour Eco-mileage disaster Smart healthinformation (eco-card) prevention Busan eco-pass care utility service (smart pricing)



## Sejong, Busan into Smart Cities

A meaningful platform where all the technologies and services born from the fourth industrial revolution can be realized.

- Test beds for the realization of smart cities by 2023
  - Sejong (the country's administrative hub)
  - Busan (the southeastern port city)
- Various innovative technologies
  - Ranging from autonomous vehicles to facial recognition systems



Press Release: January 2018







- Busan, Seoul, Suwon and Gangju
  - 'triple-helix cooperation' between governments,
     research and business



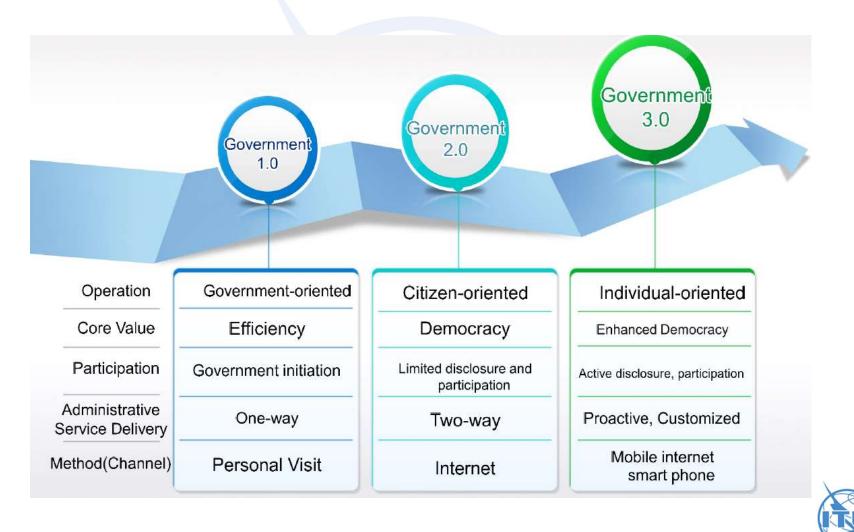


Press Release: March 2018

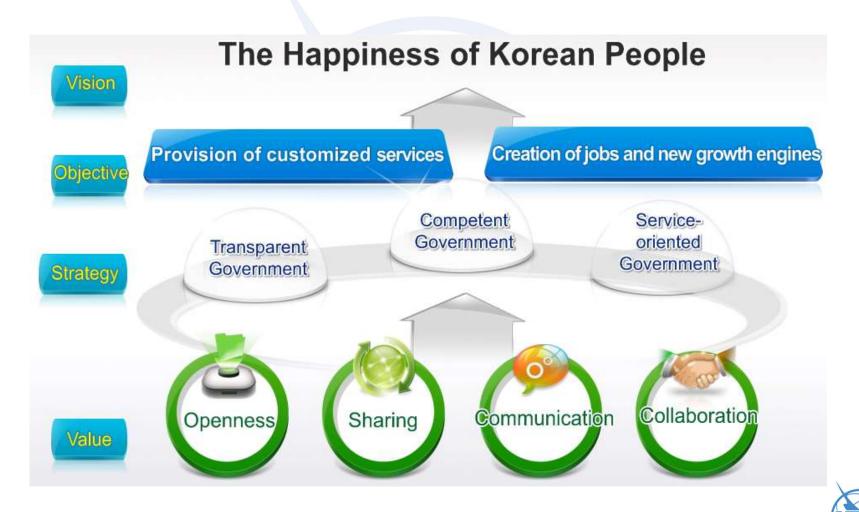
# e-Government of Korea



## The evolution of Government



### Government 3.0 of Korea



### **Smart Government in Korea**

#### Realize a world-best e-Government that works for the people

Individuals

Uses to

Uses the desired customized service at any time and place

Enterprises Improves enterprise competitiveness using customized services

Society

Lives a safe and protected life

Public servant Smart-work whereby work is harmonized with life









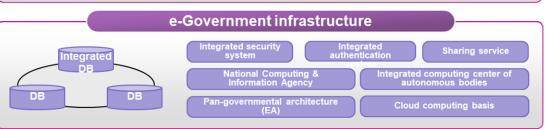


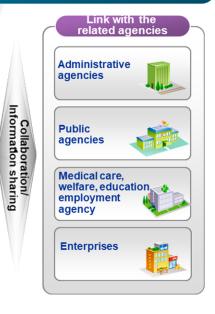


User-oriented multiple channel integration service

Information disclosure/Public participation









## **Five Agendas**

Changes in the ICT paradigm

Ranked first in U.N. e-Gov assessment

Rapid expansion of the mobile environment

Convergence with other areas and intelligent paradigm

Environmental changes of the future society

Low-birth rate and aging society

Climate change (global warming)

Increased new demand such as social welfare and disaster prevention

Limitations of existing e-Government

Supplier-oriented and government-driven services

Poor operational efficiency and increased security needs

Insufficient accompanying growth with domestic IT companies

Realize the world's best mobile e-Government.

Establish a safe and sound society.

Promote smart work that balances work and life.

Provide personalized services by communicating with the people

Build strong e-Government infrastructure.



#### e-Government Best Practices

- Government Integrated Data Center
- Government Information Sharing
- On-Nara Business Process System



• E-Procurement: KONEPS KONEPS



Online Civil Services: Minon24



Information Network Village: INVIL





#### **Government Innovation Master Plan**

- Vision Realizing a Government of the People
- Goal Promote the Public Interest through Citizen Participation and Trust-Building





## **Key commitments**

#### Social Value

- REFORM the financial systems to pursue social values.
- ESTABLISH personnel, organizational and performance evaluation systems that make a difference in citizens' lives.
- 3. **WORK** with citizens to make policies that meet their needs.

# Participation and Cooperation

- 4. **PURSUE** an open government, fully disclosing information and sharing resources with the public.
- 5. BREAK DOWN silos for the government to work better.

#### A Trustworthy Government

- A Trustworthy 6. WORK toward a fair and transparent public service that citizens want.
  - CARRY OUT citizen-centered innovation in four areas of data, creativity, regulatory
    reform and zero waste of resources.



### **Innovation in Government**

- #1 A shift toward a government which improves the quality of people's lives
- #2 Participatory democracy where citizens are engaged in policymaking
- #3 Winning trust from citizens through movement innovation

Korea
e-Government
Master Plan
2020



