



# Digital Government Strategy

## of the Republic of Korea



Ministry of  
the Interior and Safety

# CONTENTS

1. Overview of Korea's Digital Government

2. Digital Government Masterplan 2021-2025

3. More in the Future





# **1. Overview of Korea's Digital Government**

# Korea's Digital Government in Numbers

**16K** information systems, **9.3B USD** annual government IT budget

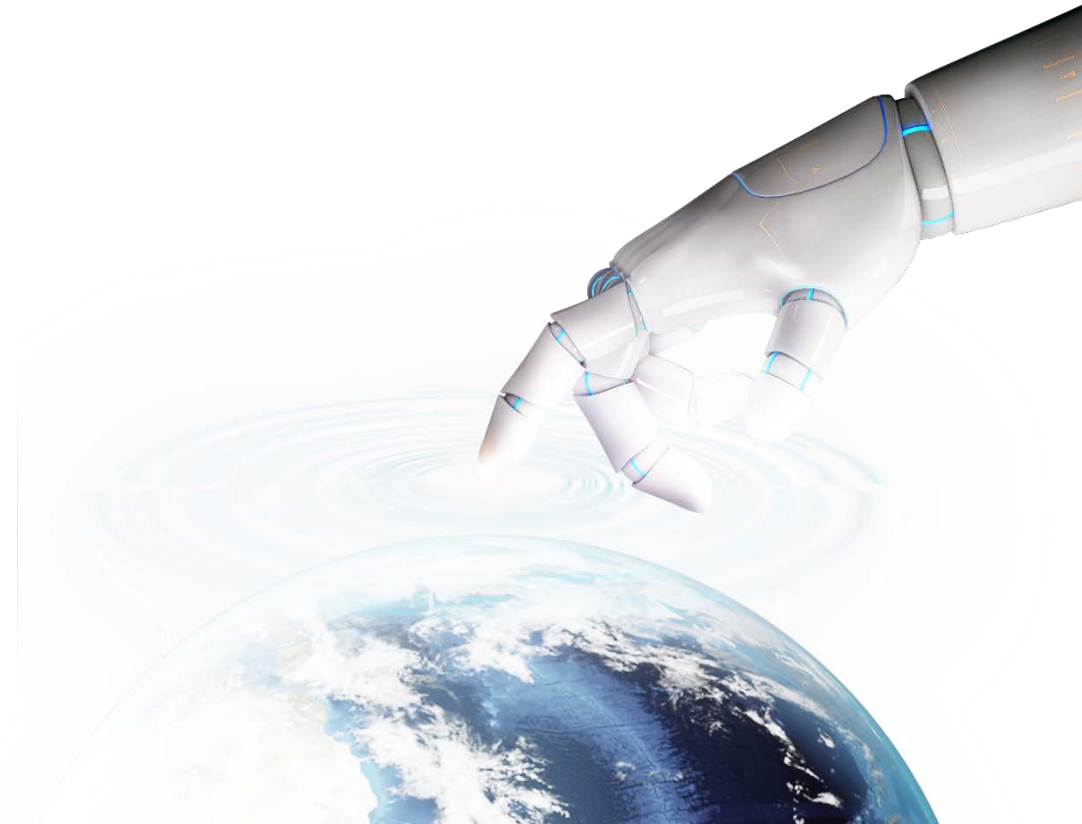
**37M** Koreans, **89%** of population are **Using** Digital Government

**98%** of users are **Satisfied** with Digital Government Services

**#1** OECD Digital Government Index 2019

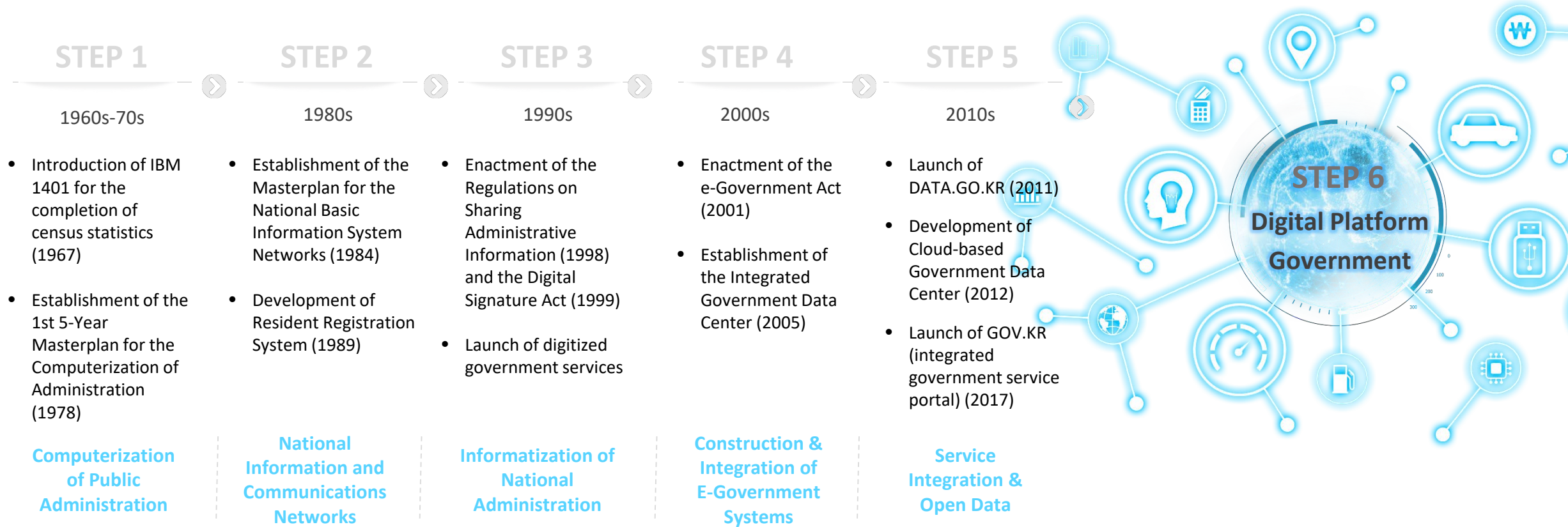
**#1** OECD OUR(Open-Useful-Reusable) data Index 2019

**#2** UN e-Government Survey 2020



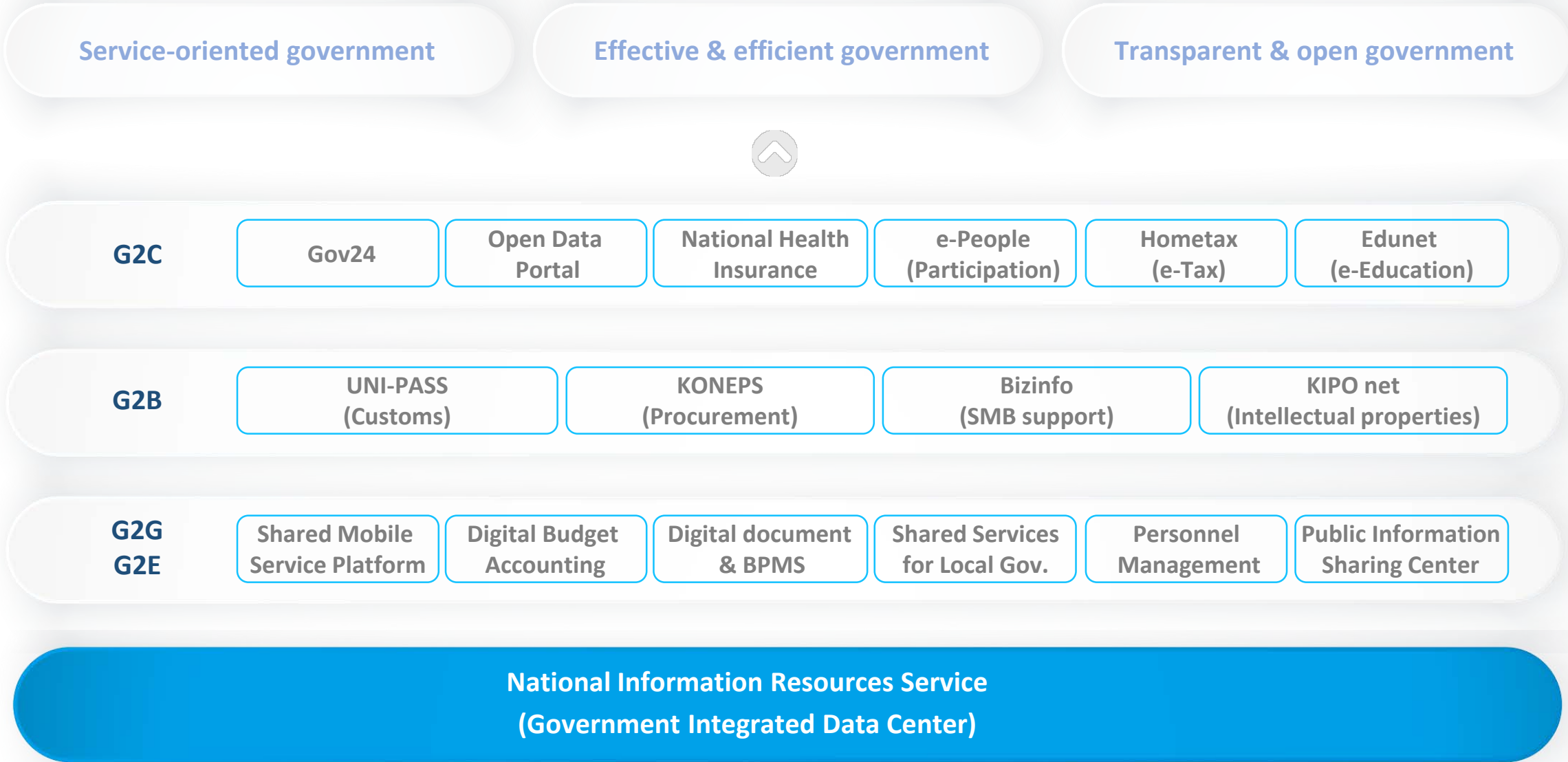
# Journey of Korea's Digital Government

## 50 years of Digital Government in Korea



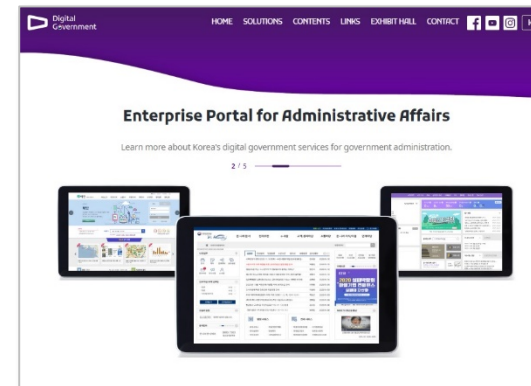
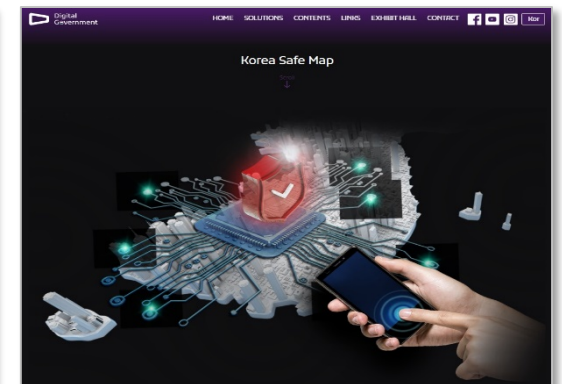
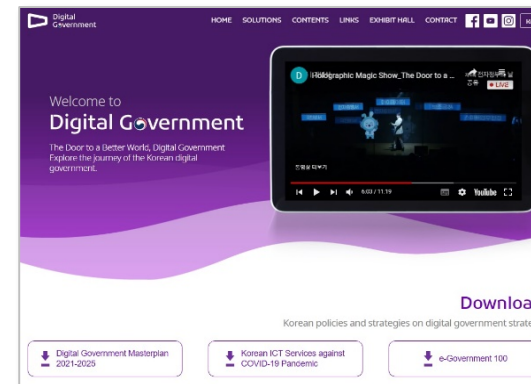


# Digital Government Services



## Introduction website of the Korean digital government

- 29 best practices of Korean digital government
- VR tour of the Digital Government Exhibition Hall
- Links and materials for further information
- Blog and updates





## 2. Digital Government Masterplan 2021-2025



# Digital Government Masterplan 2021-2025

Digital,  
the door to a better world

## THE DIGITAL GOVERNMENT

- Creates digital by design public services
- Provides personalized service delivery channels
- Asks a citizen for information once only
- Opens its data and services to the public by default



by implementing  
intelligent public services



by facilitating  
data-based government



by strengthening  
foundation of digital transformation

# Mission #1: Implementing intelligent public services

## Virtual assistant for the public

- Natural language based platform that can be merged with chatbot solutions and AI assistant services to deliver public services and relevant information to citizens.

## MyData and digital certificates for non-contact services

- Implements fully-digitized information exchange for public services
- Helps citizens to authorize and control sharing of their own data
- Helps the government to collect information with higher efficiency
- Protects people's privacy by minimizing redundant information transaction

## Mobile digital ID & user-friendly authentication

- Implements secure and convenient authentication with new technologies like blockchain, biometrics, and IOT

## Proactive service notification & one-stop application

- Provides personalized notification of service eligibility, due dates, events, and etc.
- Renovation of service processes and systems to break silos and barriers between government entities for one-stop application





# Mission #2: Facilitating data-based government

## Government data analysis centers

- Pan-government level integrated data analysis center
- Sectoral data analysis centers of ministries and regional centers of local governments

## Data analysis projects for national & local issues

- Data-based policy making, decision, and evaluation

## Data-based disaster prevention & response

- Using various data including real-time datastreams from IoT sensors for rapid disaster prevention and response

## Public data & service governance for collaboration

- Open both public data and service APIs to collaborate with the private sector

## Cloud-based shared platforms and applications

- Increase cost-effectiveness, availability, and robustness of information systems with cloud computing technology
- Increase productivity of government officials with cloud-based applications



# Mission #3: Strengthening foundation of digital transformation

## Service design for digital inclusion

- Online services designed for vulnerable groups
- Offline support programs for vulnerable groups

## Private & public partnership

- Develop cultures and legal grounds to encourage cross-sector collaboration
- Facilitate citizens' active participation such as civic hacking

## Legal framework renovation

- Legislations considering digital rights and ethics  
ex) Privacy protection, Algorithmic transparency

## International cooperation

- Experience sharing with other countries
- Supporting digital government implementation of developing countries
- Cooperation with international organizations and communities







### 3. More in the Future

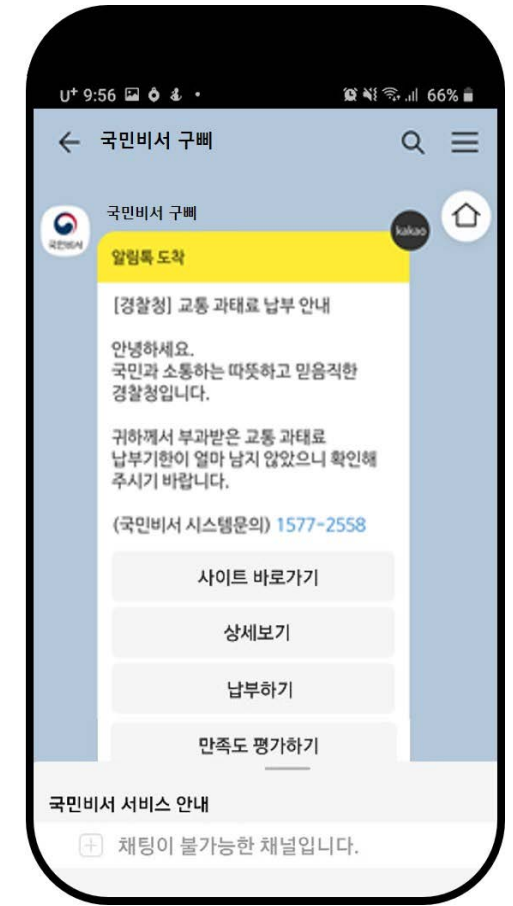
# Personalized One-Stop Service

## Customizable service channels

- Citizens can select and customize their own service channel
- Open data, Open APIs, and microservice architecture for universal collaboration between the public and private sector
- To increase agility, availability, and convenience of government-citizen interaction

## Seamless & silo-free government workflow

- Digital services of all government entities will be integrated, connected, and standardized by design
- The government as a single entity for interaction with citizens
- Better & faster response to citizens' request





# Real-Time & On-Site Interaction

## Paperless, non-contact, anytime, and mobile

- All public information and data will be digital by default
- All public services will be available online
- People can access all the resources for interaction without visiting government offices

## Interaction through portable devices

- Using on-site images, videos, and sounds for interaction
- Automatic recording of time and location of events and problems
- Rapid interaction through high-speed mobile network

## Immersive Citizen-Government Digital Interaction

- Interaction through new types of IoT devices: Smart car, Smart appliance, Smart house, Smart building, etc.
- Digital interaction will be the new normal



# Human-Friendly User Experience

## Services designed for the people, and by the people

- Websites and mobile apps should be designed user-friendly to help citizens interact with government easily
- Government online services should consider accessibility of vulnerable social groups such as the disabled
- Participatory design process to create better user experience

## Artificial Intelligence that can listen and watch

- Natural language processing, voice recognition, and vision AI will create completely new user experience
- As machines understand humans as they are, the barrier to digital literacy will be lowered
- More alternatives for the disabled



# Analytics for Data-Based Administration

## Planned analytics on key policy areas

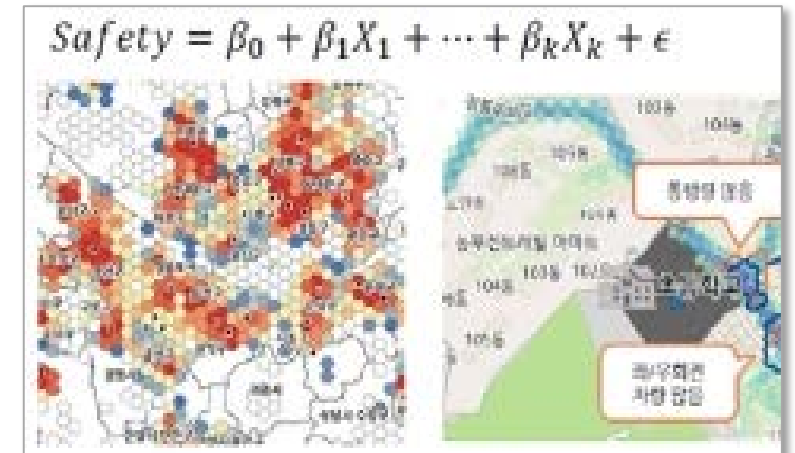
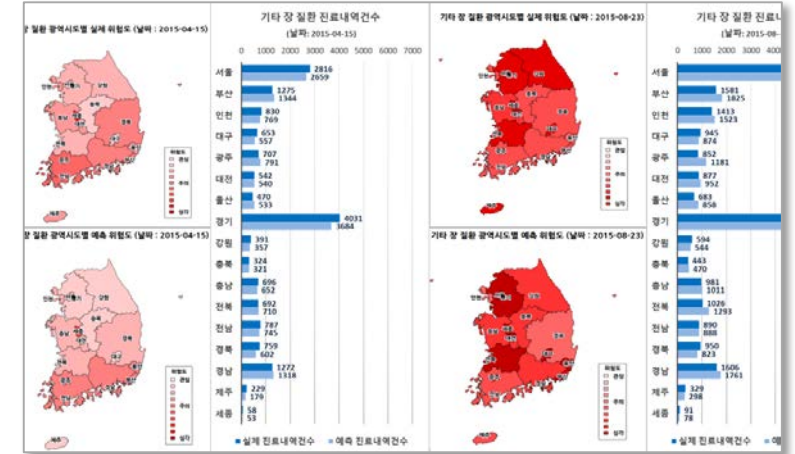
- Data analysis for national agenda, pending issues, mid to long-term strategies
  - e.g.) identifying main causes for industrial disasters, effects of air pollution in the urban areas, etc.

## On-demand analytics on specific issues

- Demand-based data analysis for individual government agency
  - e.g.) identifying the right time and location for effective pest prevention

## Reference models for analytics

- Developing and sharing reusable reference models among government entities
  - e.g.) flood risk analysis model shared by all local governments





**T h a n k   Y o u**



Ministry of  
the Interior and Safety