

DEVELOPMENT PATH OF DIGITAL GEORGIA

Digitalization & Transparency

June 21, 2022

DIMITRI GUGUNAVA

LEPL Digital Governance Agency

Ministry of Justice of Georgia

General Overview

Area: 69,7 km²

Population: 3,7 mln

Life expectancy: 73.26

Capital: Tbilisi (1,2 mln)

Currency: Lari (GEL)

**Official Language: Georgian (also
Abkhazian – in Abkhazeti)**

**GDP per capita: \$4,346 (nominal,
2018 est.)**



SOVIET HERITAGE



Property Registry - 2004



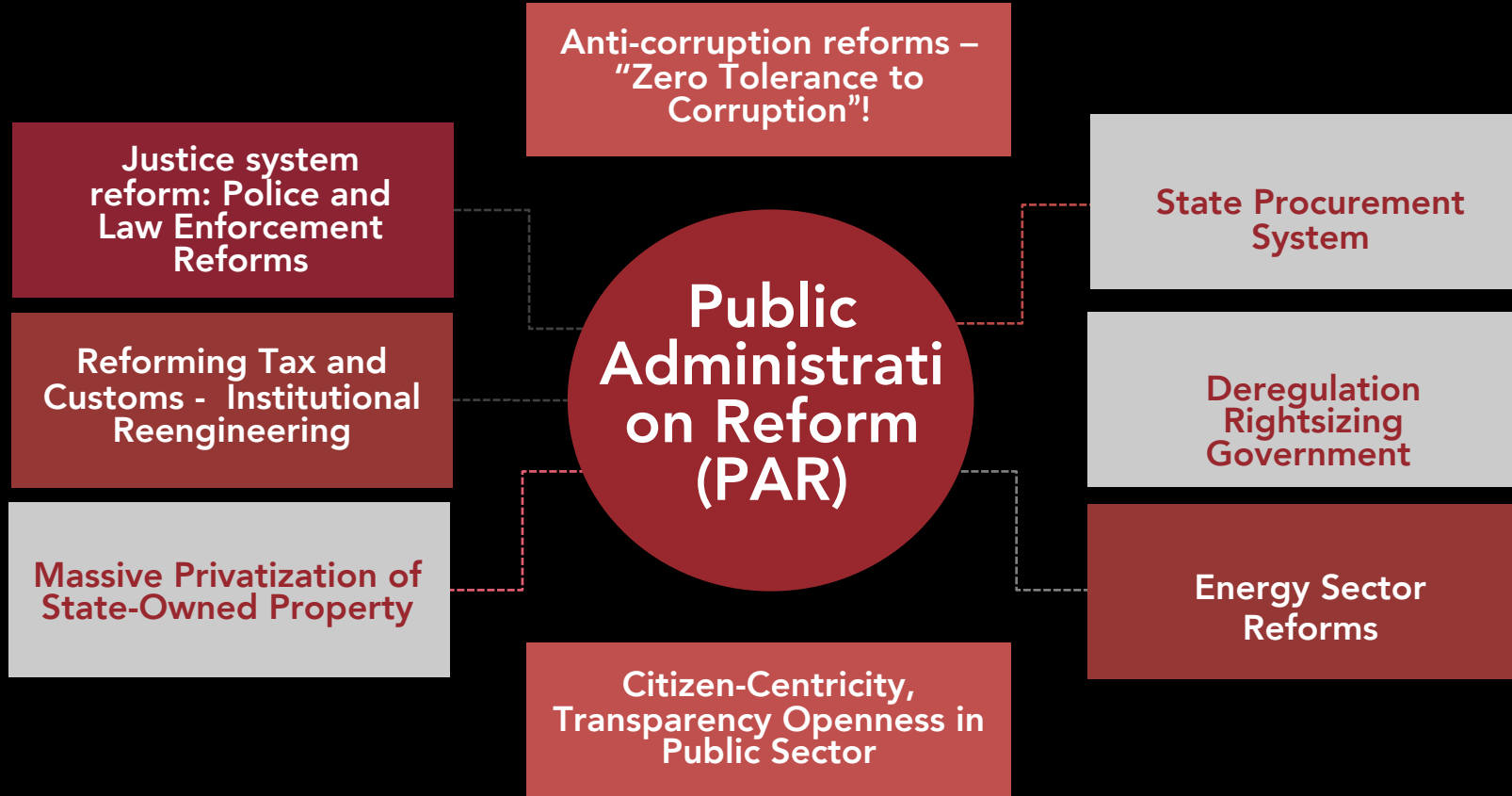
Business Registry - 2006



Strategy, Policy, Law.

E-GOVERNMENT INITIATIVES - OVERVIEW (2006 - 2022)

- Property registration, eAbstracts
- Business Registry
- Civil Registry
- eID and eSignature
- Biometrical Passport
- eFiling system in the Ministry of Finance of Georgia- 99% of taxpayers are actively using this system;
- Automation of tax and customs systems;
- eApostille
- Case management system of tax dispute resolution
- Central data storage and reporting system
- Electronic Treasury project. eTreasury
- Cash register management automation project-planned for next year;
- Electronic system for VAT refund
- Automation of the Ministry of Internal Affairs;
- Case management program for Ombudsman;
- Computerization of schools
- Schools are equipped with computers connected to internet
- Netbooks for all first graders
- Students' Information System
- Unified state registry of public registries and information systems
- National school exam online
- Automated case management system for court system;
- Centralized criminal case management is being introduced in judiciary
- eProcurement
- eAuction of state property
- eAuction of real estate of Tbilisi City Hall
- Automation project of Enforcement Bureau
- eNotary project
- Electronic Legislative Herald
- Automation project of Social Subsidies Agency
- Trade Facilitation system (TFS)
- e-Healthcare system under development
- Core Banking System of National Bank
- Electronic Chancellery systems - implemented in all ministries.
- Georgian Government Gateway
- Citizen's Portal
- Electronic monitoring system of financial declarations of political figures.
- Electronic case management in Tbilisi municipality for construction permits
- Open Data portal
- National Strategy on Digital Governance (ongoing)





MORE THAN
2 700 000
CITIZENS HAVE EID



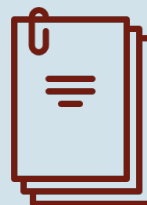
EID CARDHOLDER HAVE ACCESS TO ALL EGOV
SERVICES, CAN **REGISTERS A BUSINESS ONLINE** AS
WELL SIGN DOCUMENTS WITH DIGITAL SIGNATURE;



ONLINE TRANSACTIONS INCREASED
(E.G. E-AUCTION PORTAL HAS **10,500**
VISITORS DAILY)



22,6% OF BUSINESSES ACCESSED
PUBLIC AGENCIES' PORTALS FOR EGOV
SERVICES IN 2016;



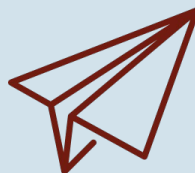
ICT LEGAL EMPOWERED REFORMS IN
POLICE SYSTEM RESULTED IN
25-30% REDUCED BUREAUCRACY;



PRIVACY AND SECURITY OF CONFIDENTIAL
INFORMATION, PERSONAL DATA IS PROTECTED
ONLINE – **221** CASES ARE INVESTIGATED;



SINGLE PORTAL FOR eSERVICES IS USED
BY **>100,000** PHYSICAL USERS AND BY
>1000 LEGAL ENTITIES



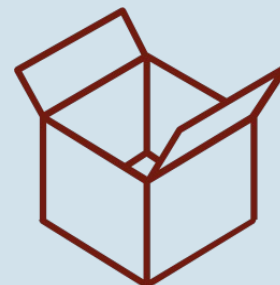
>50 MLN ANNUAL TRANSACTIONS OF
138 INTEGRATED ORGANISATIONS ARE
CONDUCTED THROUGH DATA EXCHANGE
INFRASTRUCTURE



eSERVICES SAVE TIME AND OTHER RESOURCES
AND REDUCE ADMINISTRATIVE BURDEN FOR
SOCIETY AND GOVERNMENT. E.G. TOTAL
ANNUAL SAVING RELATED TO CONTAINERS
MANAGEMENT THROUGH TFS WILL BE
GEL 4,530,000



>700 REGISTRIES AND INFORMATION
SYSTEMS ARE DESCRIBED THROUGH RoR LAW.



>500 OPEN DATASETS ARE PUBLISHED
ON OPEN DATA PORTAL FOR PUBLIC
AVAILABILITY.

Service Delivery Accessibility



Public Service Hall





საზოგადოებრივი ცენტრი
COMMUNITY CENTRE

საზოგადოებრივი ცენტრი COMMUNITY CENTRE



COMMUNITY CENTRE





Georgian Governmental Gateway (G3)



UNIFIED PORTAL FOR ELECTRONIC SERVICES

MY.GOV.GE

MY.GOV.GE

Log In 



Main > [Main services](#)



Personal data



Correspondence with public institutions



Participation in legal acts



Vehicles



Real estate



Border crossing



Debtor's registry



Information about the enforcement proceedings

Once Only ←

- Safe and reliable solution for bringing e-services closer to citizens, entrepreneurs, and government officials
- E-services are available 24/7
- Channel for Electronic Communication with different public entities
- Once only principle is realized within the portal

User-friendly Ecosystem ←

- Designed in a simple and clean manner to help visitors find the information they need quickly and easily
- User-friendly ecosystem
- Customer-centric manner
- Registration is possible with Georgian e-ID cards; username and password are also possible

Single Window Concept ←

- MY.GOV.GE has recently added a dedicated section intended solely for legal entities
- Portal – is virtual single window concept for Citizens and Legal Entities

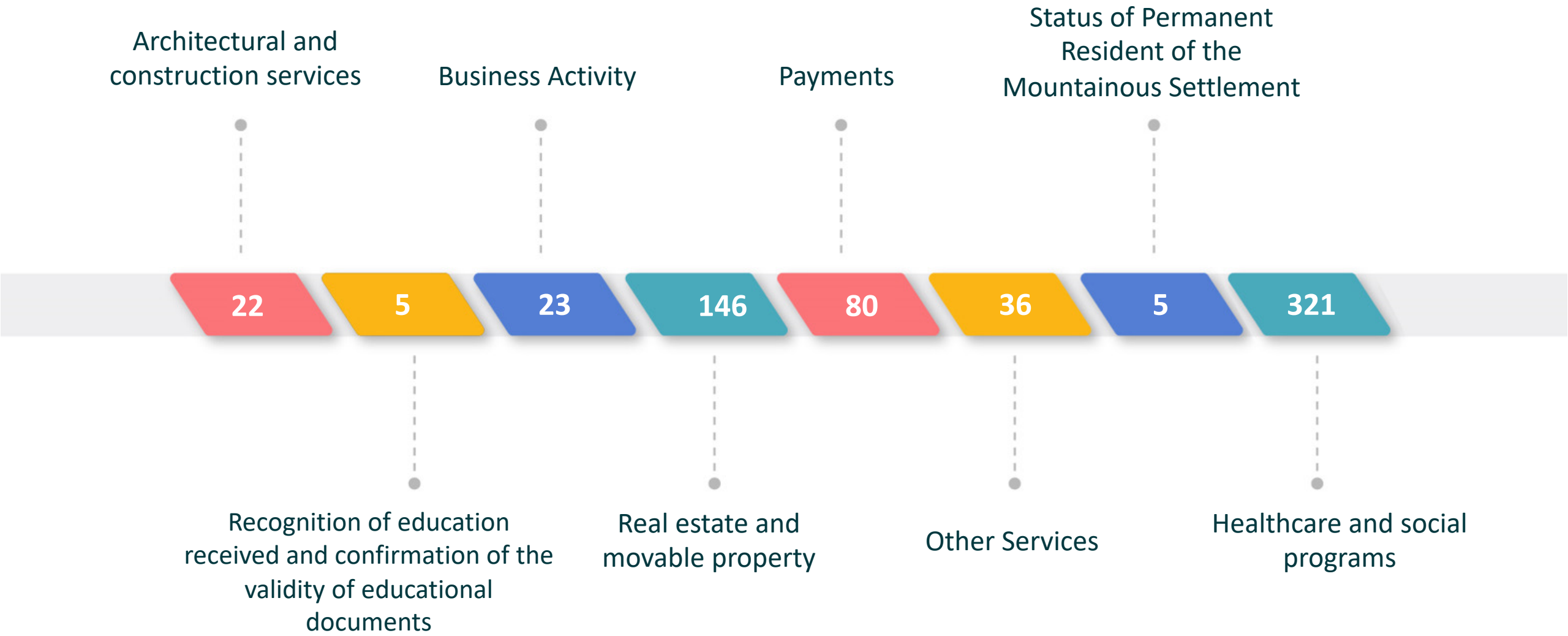
Registration of the user on the portal is possible with these options: ←

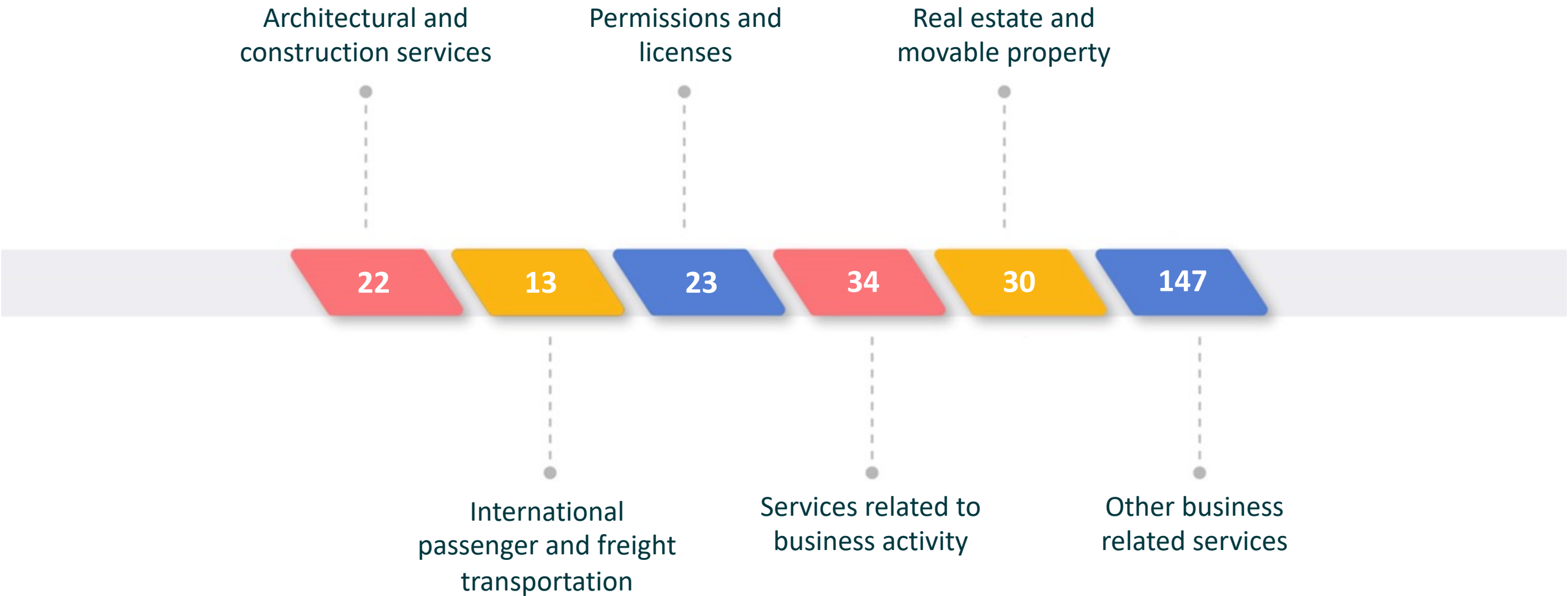
- Username and password
(in order to get the username and password, it is optional to visit Public Service Halls/Community Centers only once)
- Using of Georgian eID card (residence permit card) when the registration can be performed by users independently, no needs of visits to PSH or CCs)

Authorization of the user: ←

- Using of Georgian eID card (residence permit card)
(card reader and authentication pin 1 is optional)
- Username and Password
(Authorized user is able to use all services fully, integrated on the portal, but using of Georgian eID is necessary in order to sign digitally)

- A possibility of unique authentication on the portal
- Access to all information about the authorized user, existing in different public entities
- Access to the data, existing and defining in civil acts and other documents without extra need of physical visit
- A possibility to receive more than 700 services online and with the concept of one window
(It is possible to fill the application easily, attach the documents to be submitted, pay the fee necessary for the service, make qualified electronic signature and send the signed application and then track its processing, receive an answer and etc.)
- A possibility of using qualified electronic signature and stamp
- To involve and invite the third parties to sign the document digitally and track this process itself
- Issuing of electronic power of attorney
- Electronic storage of documents
- Private space for legal entities







To demand the help from the municipality within the scope of the approved healthcare and social programs



To use the municipal services related to agreement upon Architectural and construction documents



To invite the partners' meeting and vote the issues to be discussed electronically



To communicate with public entities electronically (incl. FOI requests)



To demand the status of permanent resident of the mountainous settlement




To get the permissions and licenses regarding different activities



To register the business

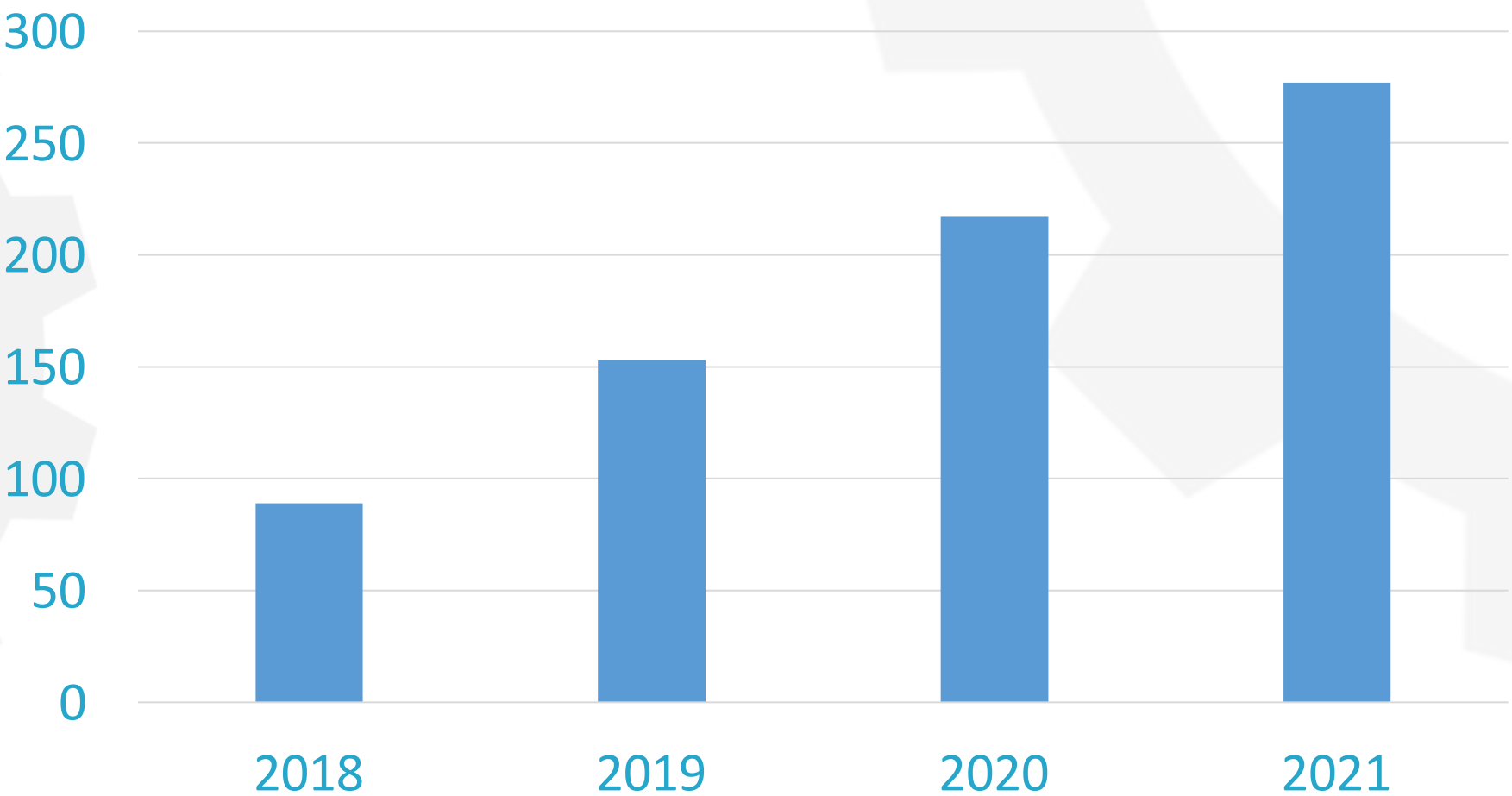
-

- 1 TBILISI CITY HALL
- 2 REVENUE SERVICE
- 3 MINISTRY OF INTERNAL AFFAIRS
- 4 SERVICE AGENCY OF MINISTRY OF FINANCE
- 5 HEALTHCARE AND SOCIAL SERVICES
- 6 REAL ESTATE SERVICES

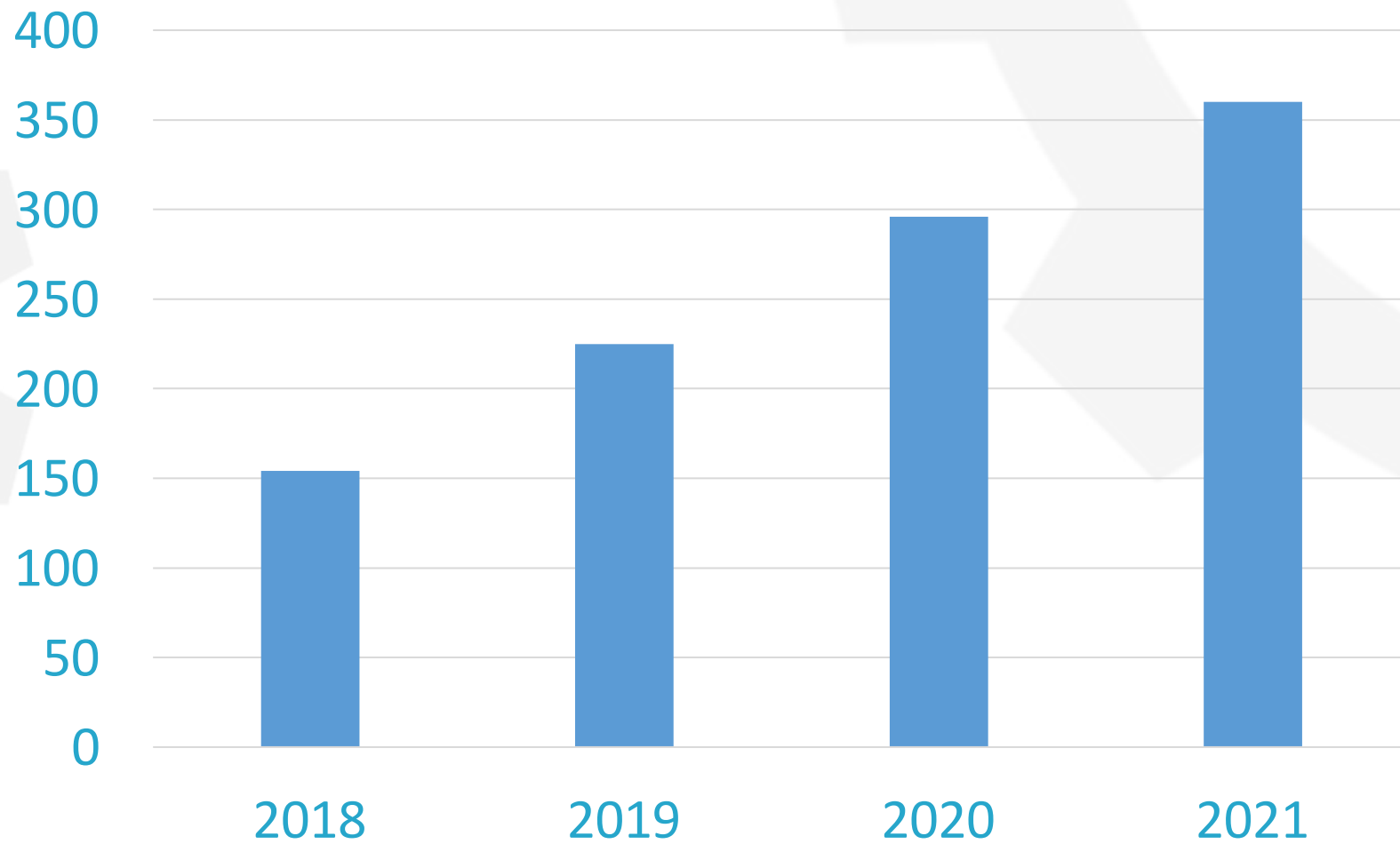


>700
Services

Number of users (k)



Number of Service Usage (k)



Transparency

A large white circle containing the text "Open Data" in a blue, sans-serif font. The background of the entire image is a repeating pattern of blue binary code (0s and 1s).

Open
Data

Data.gov.ge



roi.gov.ge





eProcurement



eAuction



A close-up photograph of a wooden gavel with a brass band, resting on a wooden block. In the background, a stack of books is visible. The scene is set on a wooden surface.

eEnforcement

eArchive

*for more
transparency*



Sargis Kakabadze

Historian, Archivist, Researcher



საქართველოს
იუსტიციის
სამინისტრო



საპარტაზოს
ჯანდაცვის
მინისტრო

Ensuring information and
cyber security, privacy and
protecting personal data



Personal Data Protection Service





Privacy

The logo features the acronym 'GDPR' in a bold, white, sans-serif font. It is centered within a circular arrangement of twelve yellow five-pointed stars, which are identical to those on the European Union flag. The stars are set against a dark blue background that has a subtle, dotted pattern.

GDPR

Privacy by design

Transparency



**THANK YOU
FOR YOUR
ATTENTION!**



OVERVIEW OF GEORGIA'S DIGITAL GOVERNMENT

Digitalization & Transparency

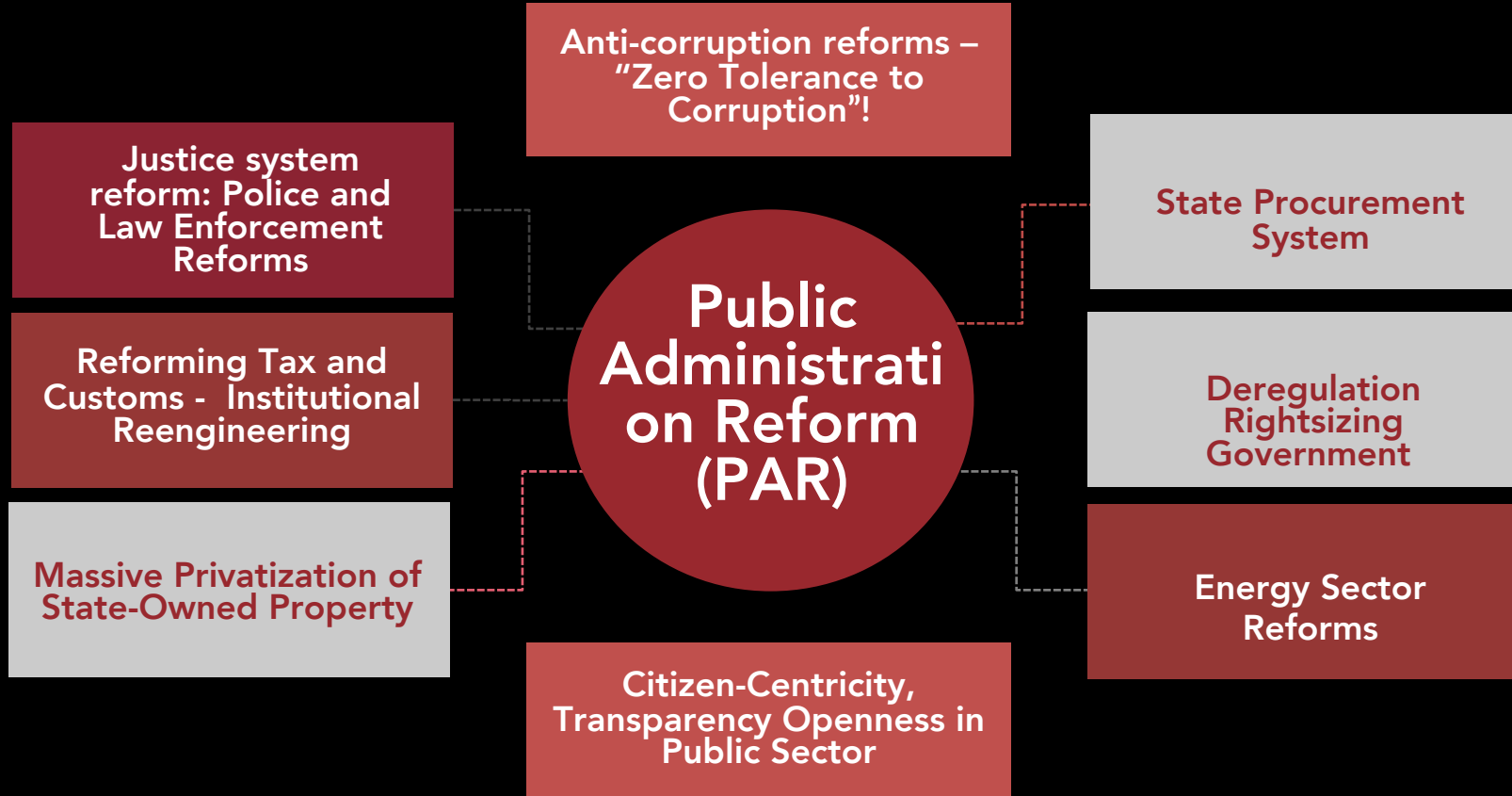
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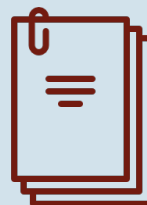
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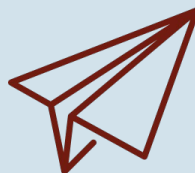
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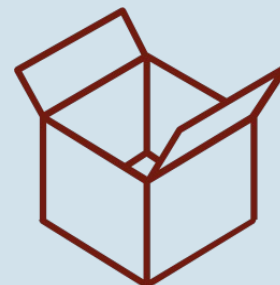
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Public
Service
Hall



UNIFIED FRONT DESK



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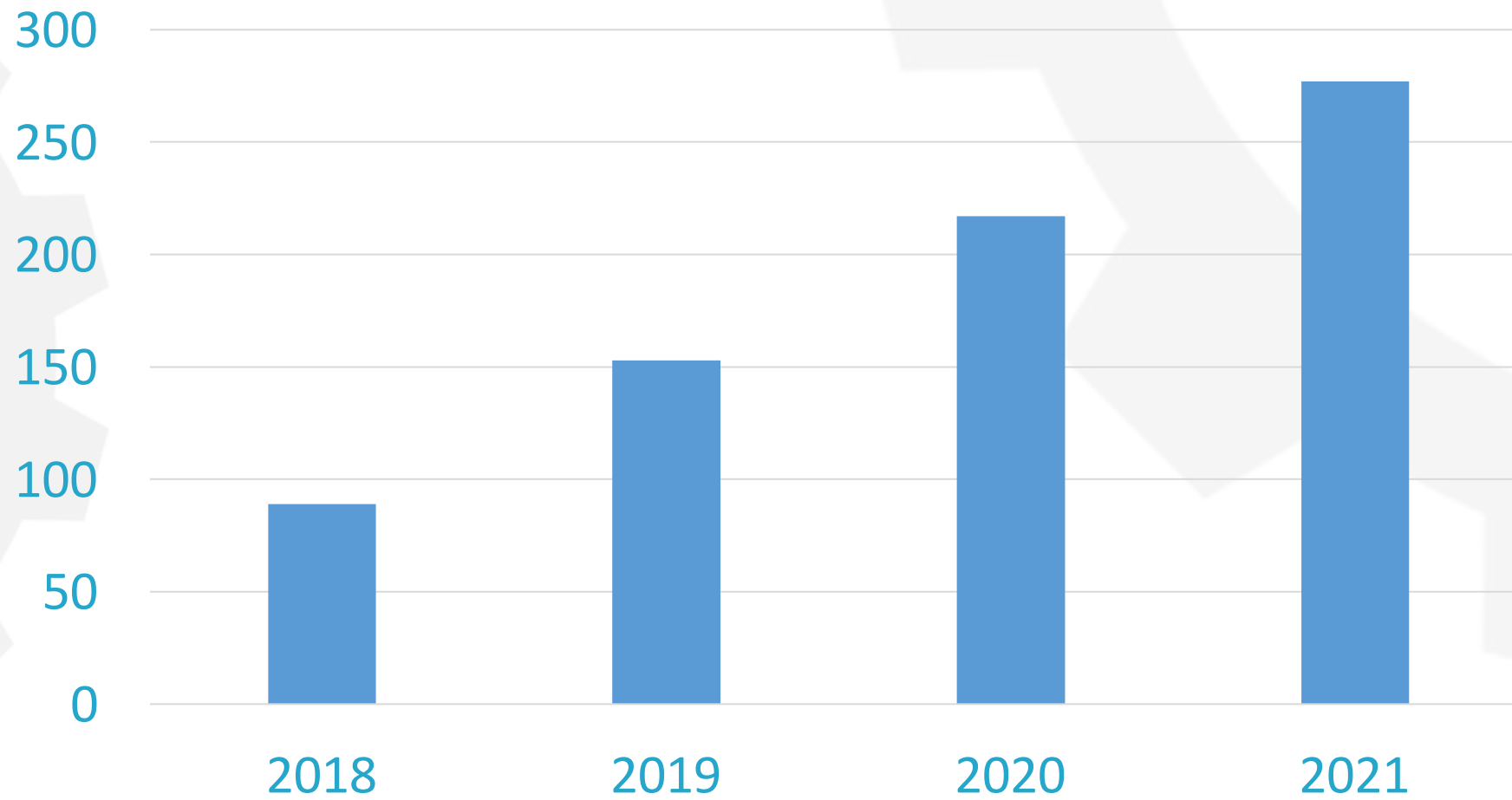


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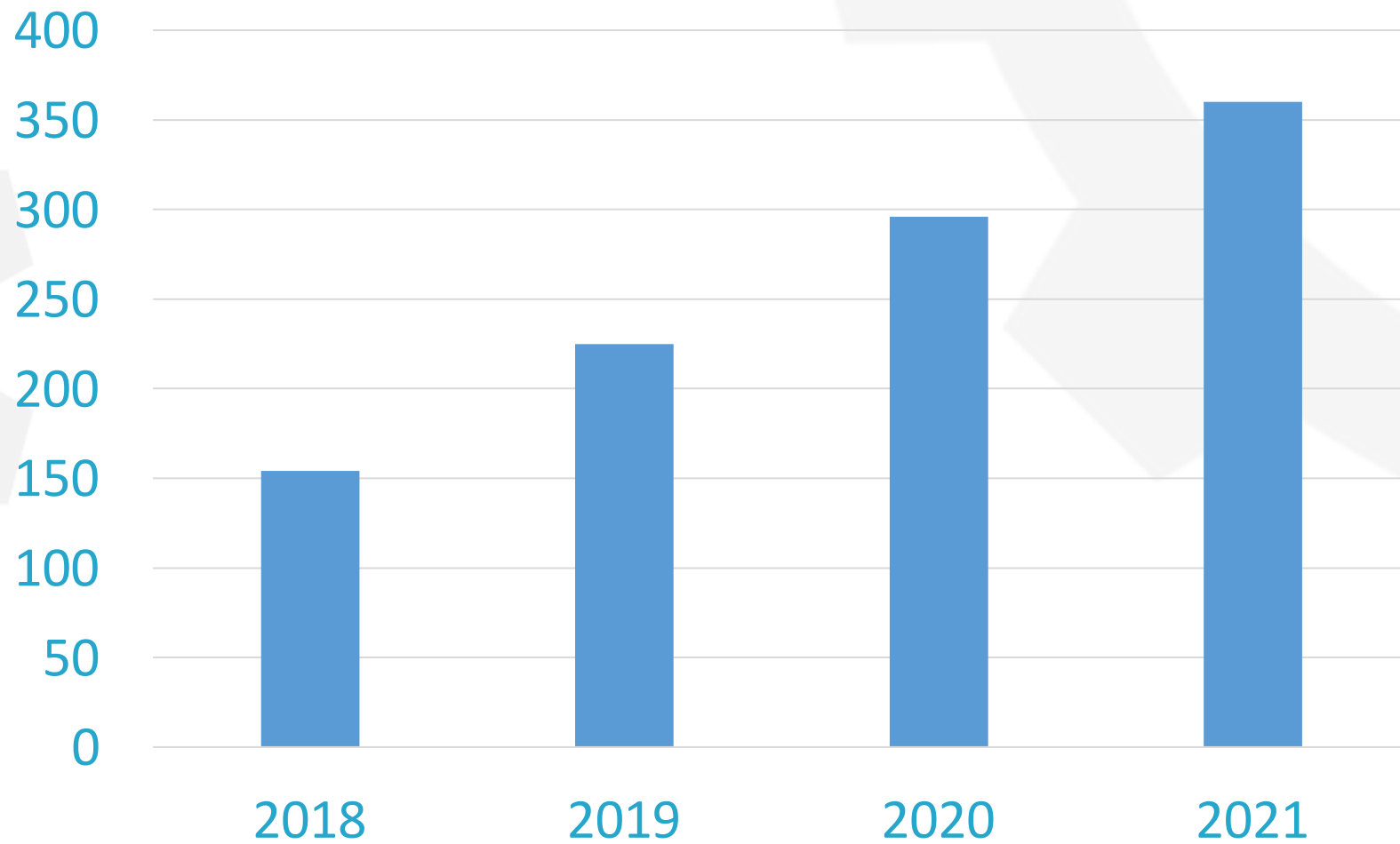


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roi.gov.ge

[o





Digital Governance Agency

The goals of operation of the Agency are as follows:

- a) facilitating the introduction of digital governance principles in the process of public governance;
- b) providing natural and legal persons with tailored, available, effective and transparent electronic services;
- c) ensuring the interoperability of information systems in the process of using modern information and communication technologies;
- d) developing and ensuring information security and cyber security within the scope of authority determined by the legislation of Georgia.



**THANK YOU
FOR YOUR
ATTENTION!**



Digitalization of Tax Administration

NTS, Republic of Korea
June 2022



- I Footsteps**
- II NTIS Overview**
- III Outcomes**
- IV Way Forward**

Step 1

Embark on Digital Age

1971

Introduce computer

1975

Launch GIT

1977

Launch VAT

Step 2

Development

1997

Tax Integration System

2002

Hometax

2005

Cash Receipt

2009

E-tax Invoice

Step 3

Take off into Digital Age

2015

Neo Tax
Integrated System

2019

Establish
Big Data Center

Step 1 Embark on Digital Age

Introduce computer and deal with tax document electronically for the first time

Challenges

- ✓ **Launch PIT (1975)**
 - need to integrate all income data by taxpayer
- ✓ **Launch VAT (1977)**
 - need to compare sales and purchase data of tax invoice

How to address

- ✓ **Introduce computer for the first time (1971)**
 - massive process of tax data acquired from all tax offices



Step 2 Development

Digitalization began in earnest with TIS

Challenges

- ✓ **ICT revolution reached doorstep**
 - wide spread of PC
 - increase in internet user
- ✓ **Launch taxation on financial income**



How to address

- ✓ **Launch TIS (1997)**
 - Nationwide network linked all tax offices
 - Turn most tax affairs into digital phase

Step 2 Development

Digitalization began in earnest with TIS

Challenges

- ✓ **ICT revolution reached doorstep**
 - wide spread of PC
 - increase in internet user
- ✓ **Launch taxation on financial income**

How to address

- ✓ **Launch Hometax (2002)**
 - provide internet-based e-filing service
- ✓ **Launch Cash Receipt (2005)**
 - world 1st infrastructure on cash transactions
- ✓ **Launch e-Tax Invoice (2009)**
 - capture false tax invoice

Step 3 Take off into Digital Age

Launch NTIS by integrating separated systems

Challenges

- ✓ **Separated IT system**
 - increased operating cost
- ✓ **Rise of Open Standardized System**
 - Replace main system
- ✓ **Big Data Area**
 - Challenges in integrated analysis

How to address

- ✓ **Launch NTIS (2015)**
 - provide various and faultless tax notice
 - Basic framework for 4th industrial revolution



II NTIS Overview

Overview

Establishment of NTIS



Budget
202B KRW



Workforce
560 people



Program
22,300 programs



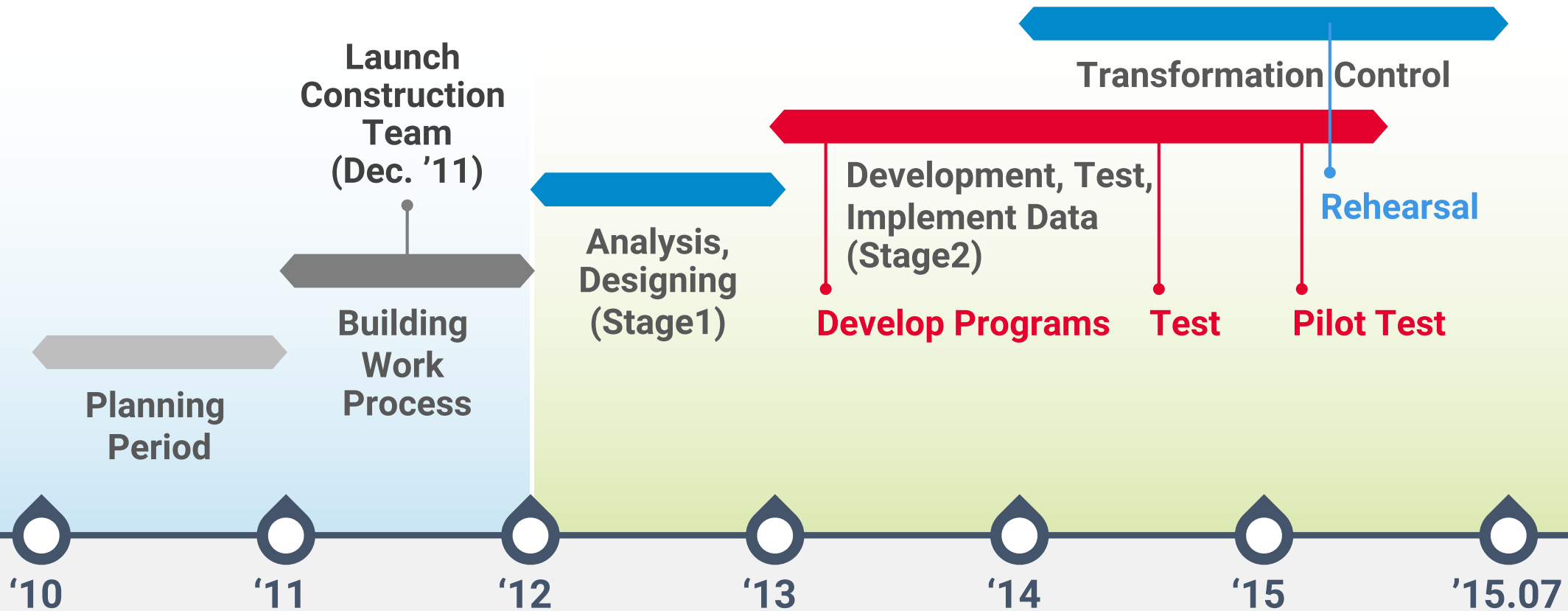
Data Transformation
180B cases

II NTIS Overview

Process

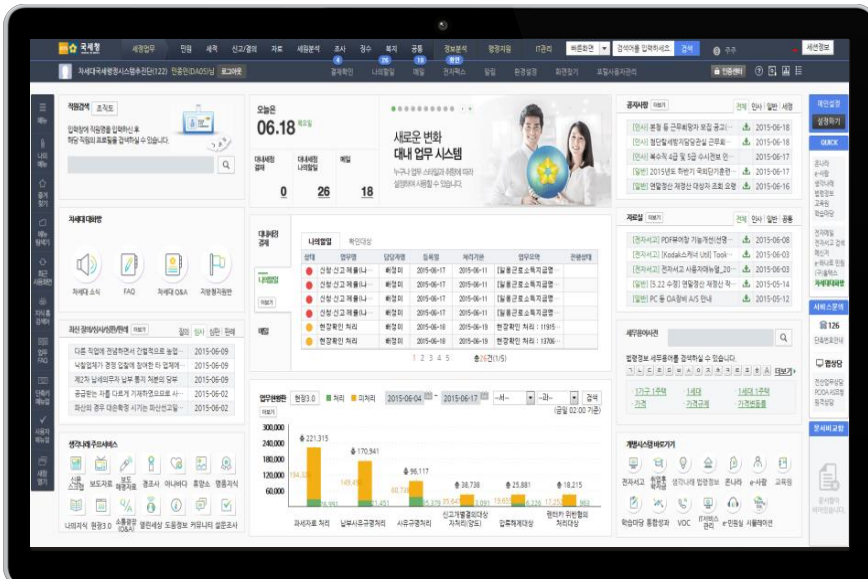
Establishment of NTIS

← Preparation → Construction Period →



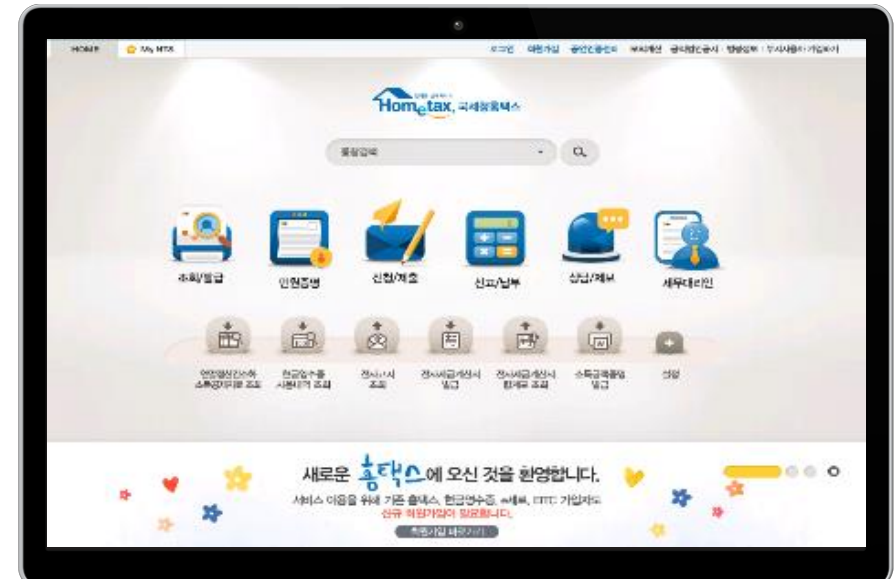
II NTIS Overview

Structure of NTIS



Internal Portal

A platform of all internal work process for NTS staffs



Hometax

An online tax service platform for taxpayers

II NTIS Overview

Work Platform

Work Process

Registering
Taxpayers

Receiving
Tax Returns

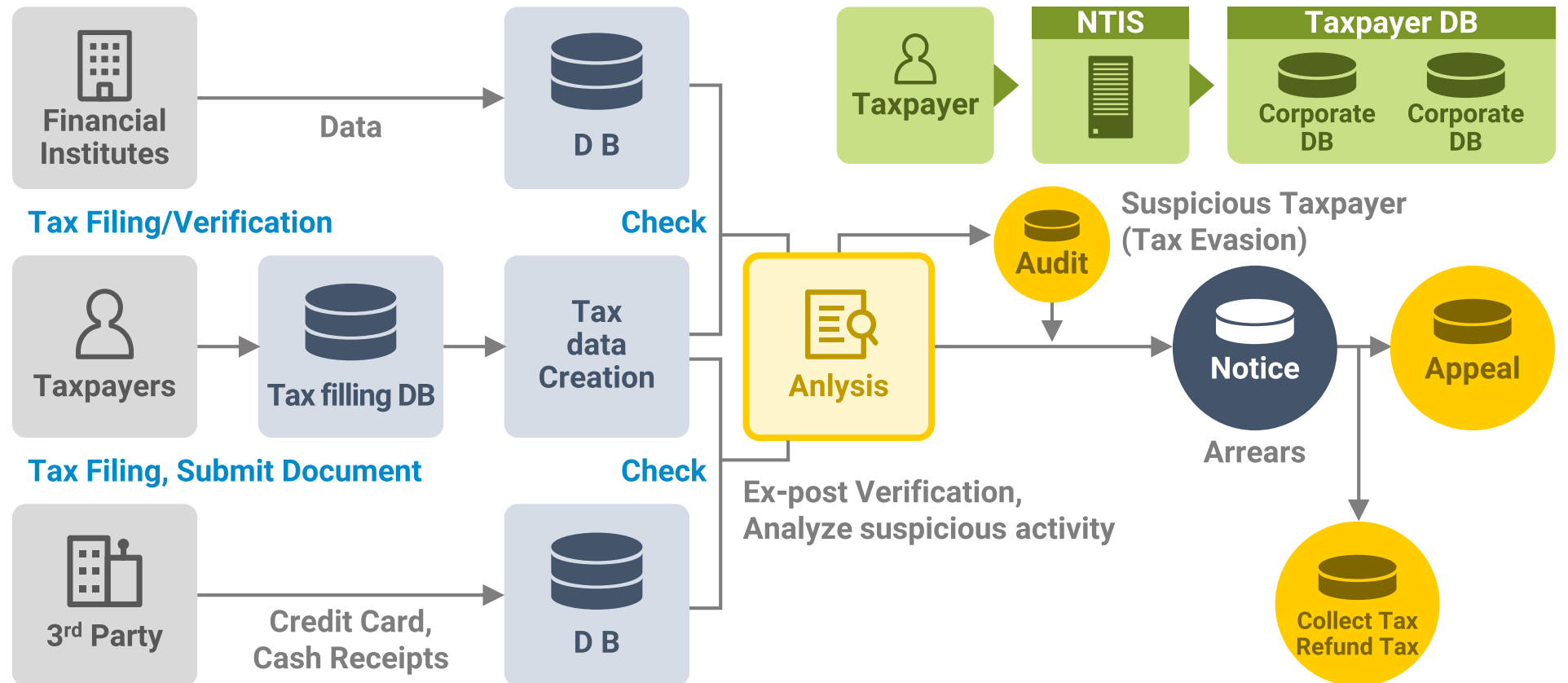
Collecting
Data

Analyzing
Data

Conducting
Tax Audit

Managing
Tax Appeal

Collecting
Tax



II NTIS Overview

Tax DB Platform



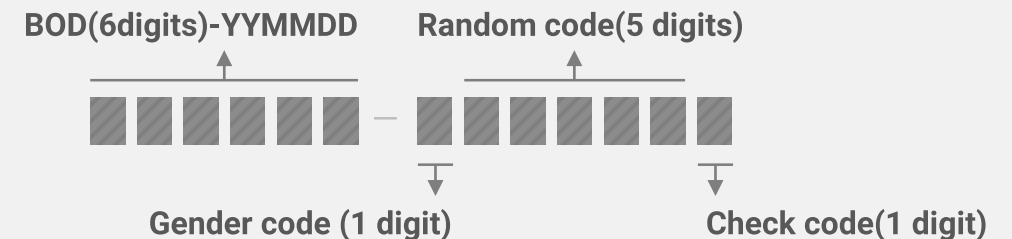
Business Registration ID (Tax ID)

Provide 10 digit business registration ID



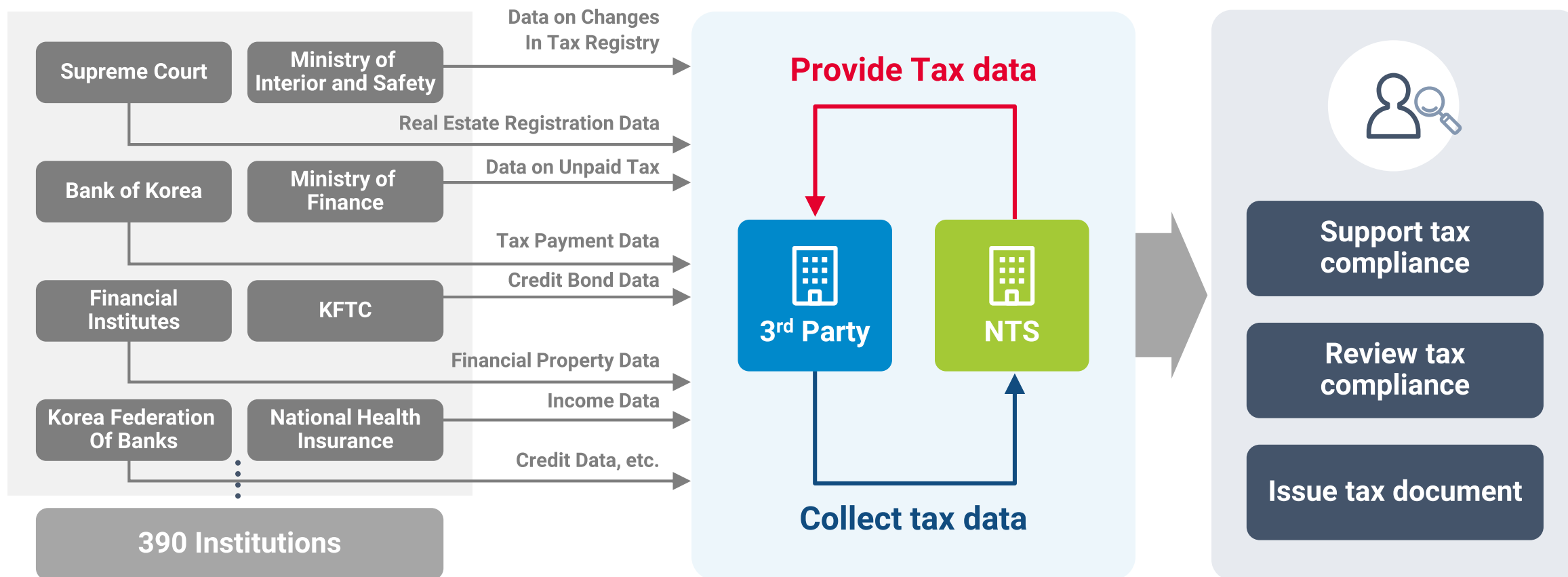
Resident ID

Collect 13 digit resident ID from other government bodies

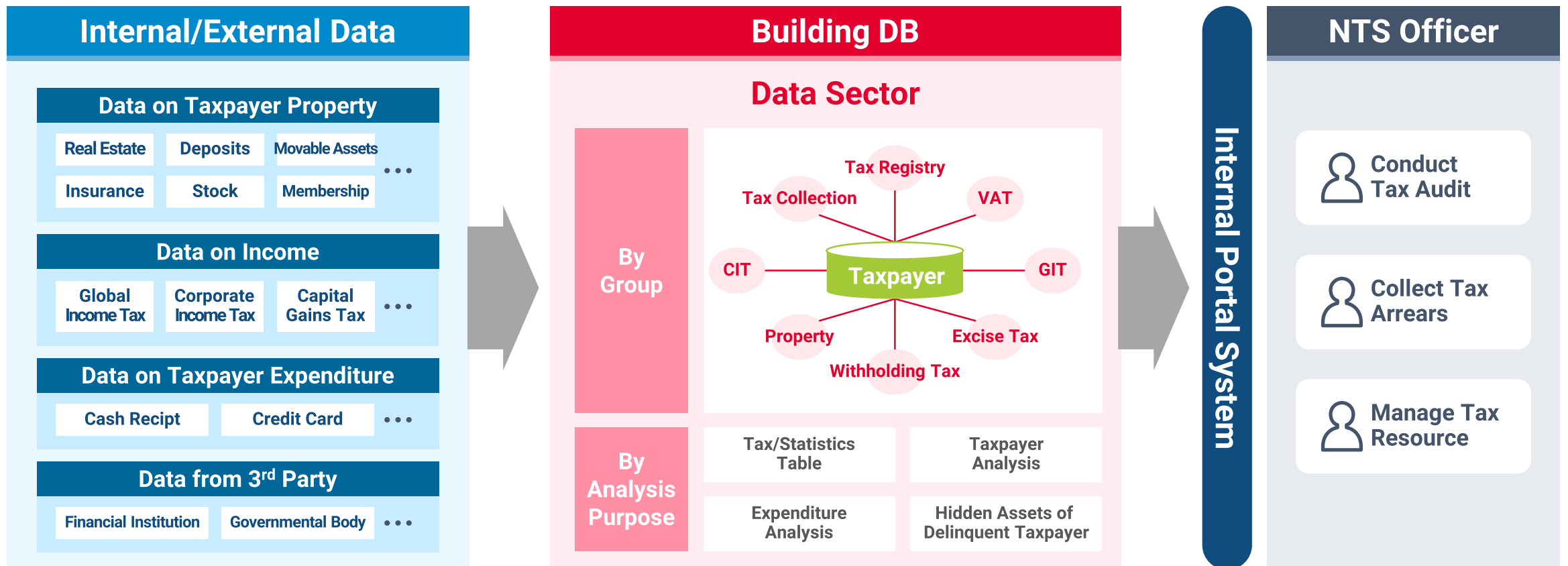


II NTIS Overview

Cooperation with 3rd Party Institutes



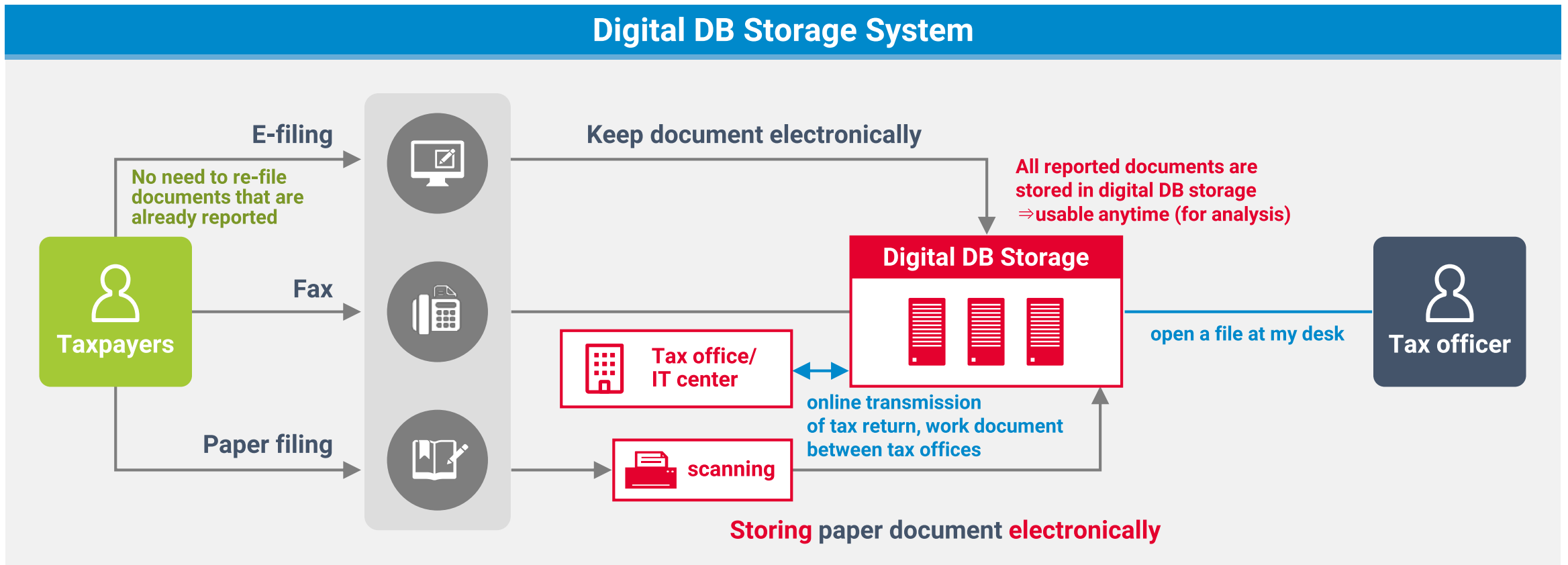
Integrated Data Management



II NTIS Overview

Paperless work process

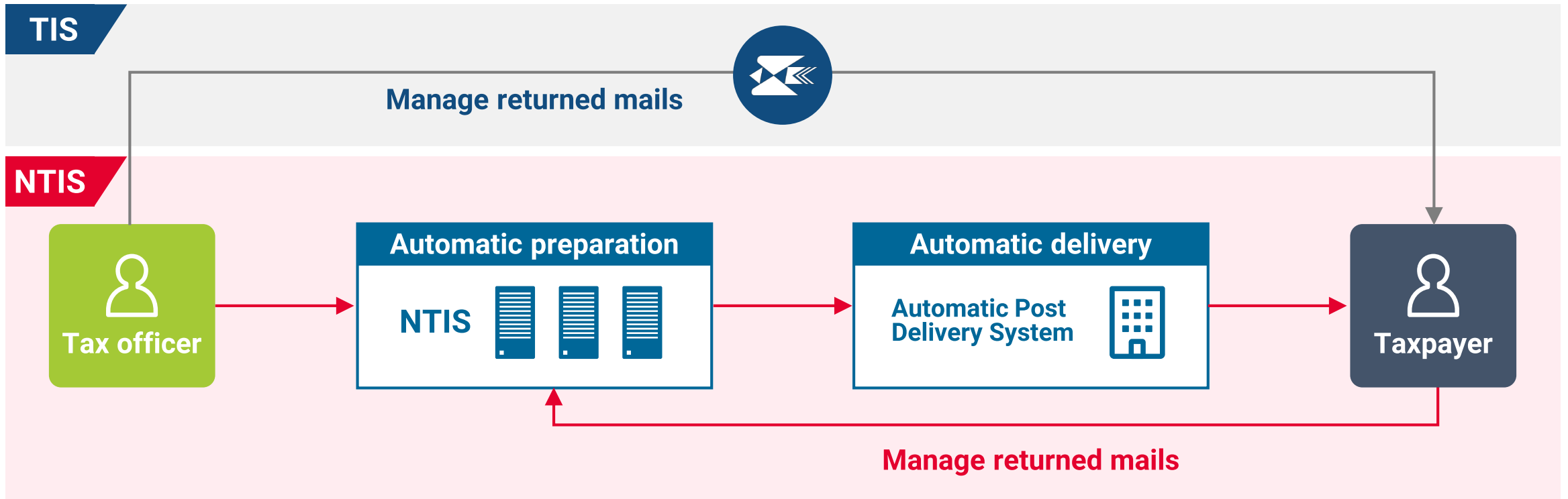
Digital DB Storage System



II NTIS Overview

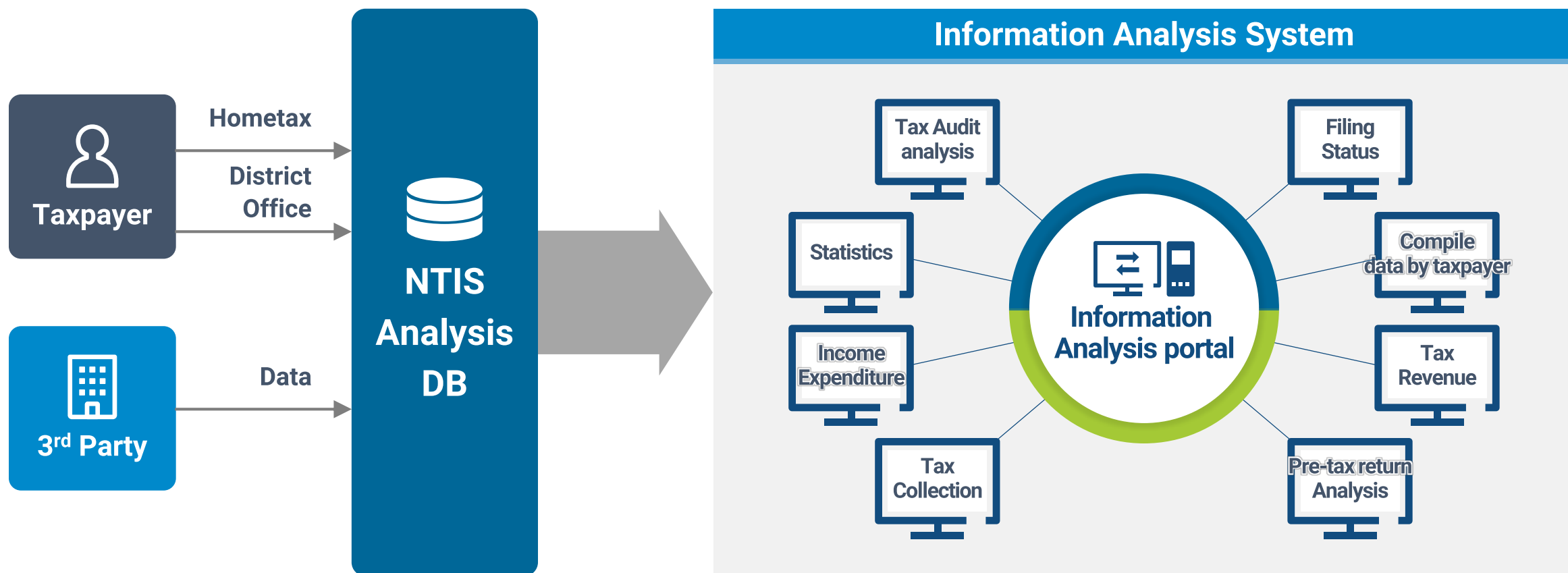
Automatic post delivery system

Change in post delivery process via Automatic Post Delivery System



II NTIS Overview

Information Analysis Portal



Guidance on Tax Compliance

Provide Various Pre-analysis

Risk areas
by company

Comprehensive
analysis by taxpayer

Transaction Data

Data collected from The
3rd Party



Improve Accuracy of Analysis

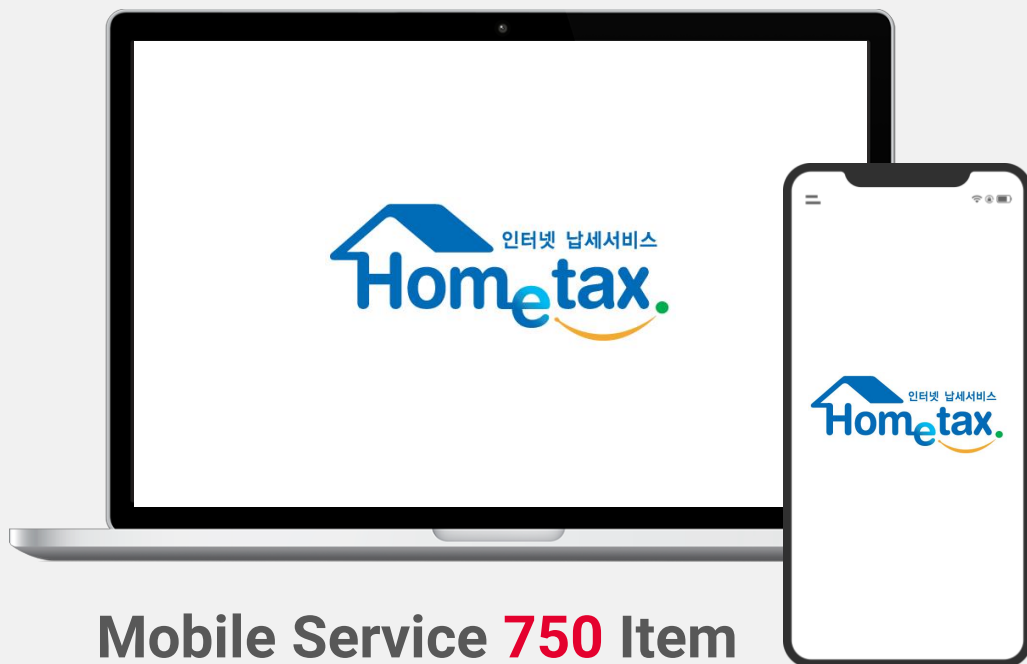


Provide Guidance on Tax Compliance



II NTIS Overview

Overview of Hometax



Mobile Service **750** Item

No.1

Public administration site **No.1**

365 D

Operating hour **24/7**

30 M

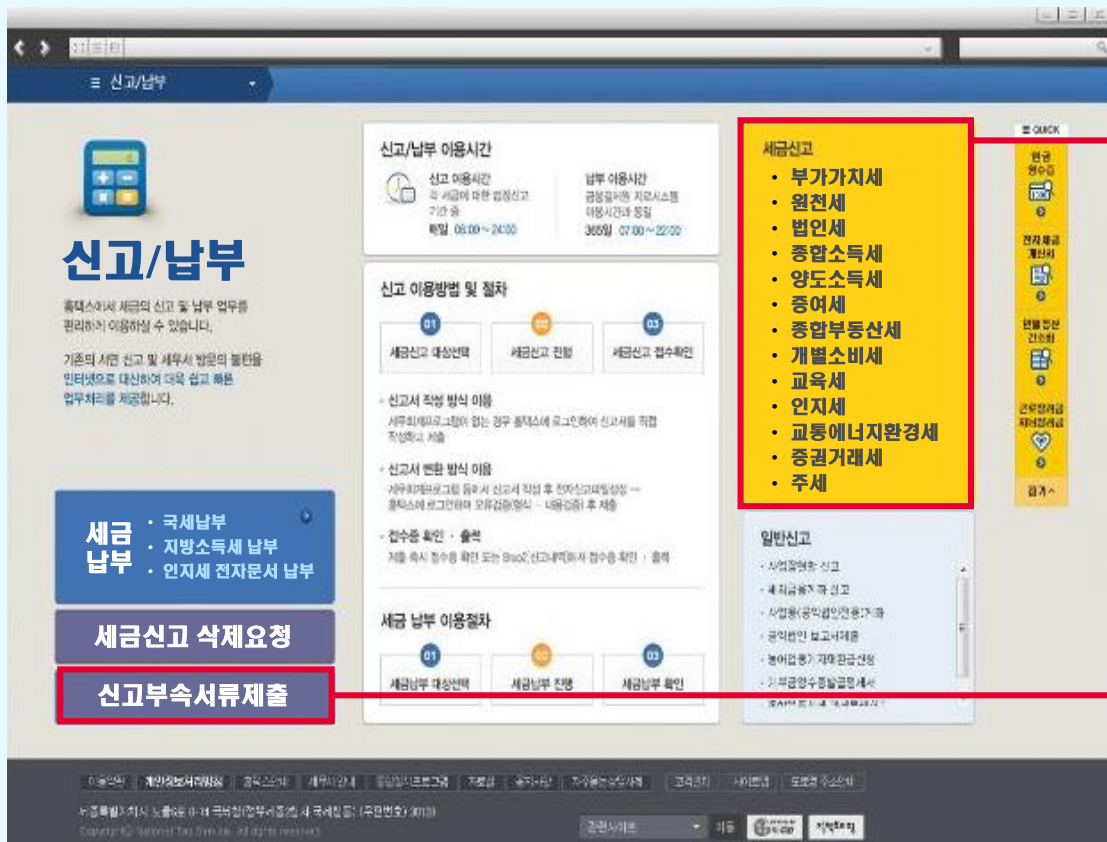
Subscriber **30M** people

14 B

Visitor **13,393M people**(total)

II NTIS Overview

E-tax filing



E-tax filing is available for most of tax items

Filing relevant document is also available

II NTIS Overview

E-tax filing

부가가치세

Step 1. 세금신고 Step 2. 신고내역

01. 일반과세자 기본정보 입력

02. 일반과세자 신고내용

03. 과세표준 및 매출세액

04. 매입·공급공제세액

05. 기타제출서류(영세율 제외)

06. 기타제출서류(영세율 제외)

07. 기타제출서류(영세율 제외)

08. 신고서제출

자주주님 | 정보 YEP #DI 20-00-10779

제출여부 >>> 작성중입니다. 미리보기

신고내용(앞쪽)

- 일반과세자 과세표준 신고서를 입력하는 화면입니다.
- 신고내용 입력시 "작성하기" 버튼을 클릭하거나 왼쪽의 선택여유를 클릭하시면 해당 서식으로 이동합니다.
- 작성하기 버튼이 없는 경우 신고내용을 직접 입력하시기 바랍니다.

과세표준 및 매출세액 (단위: 원)

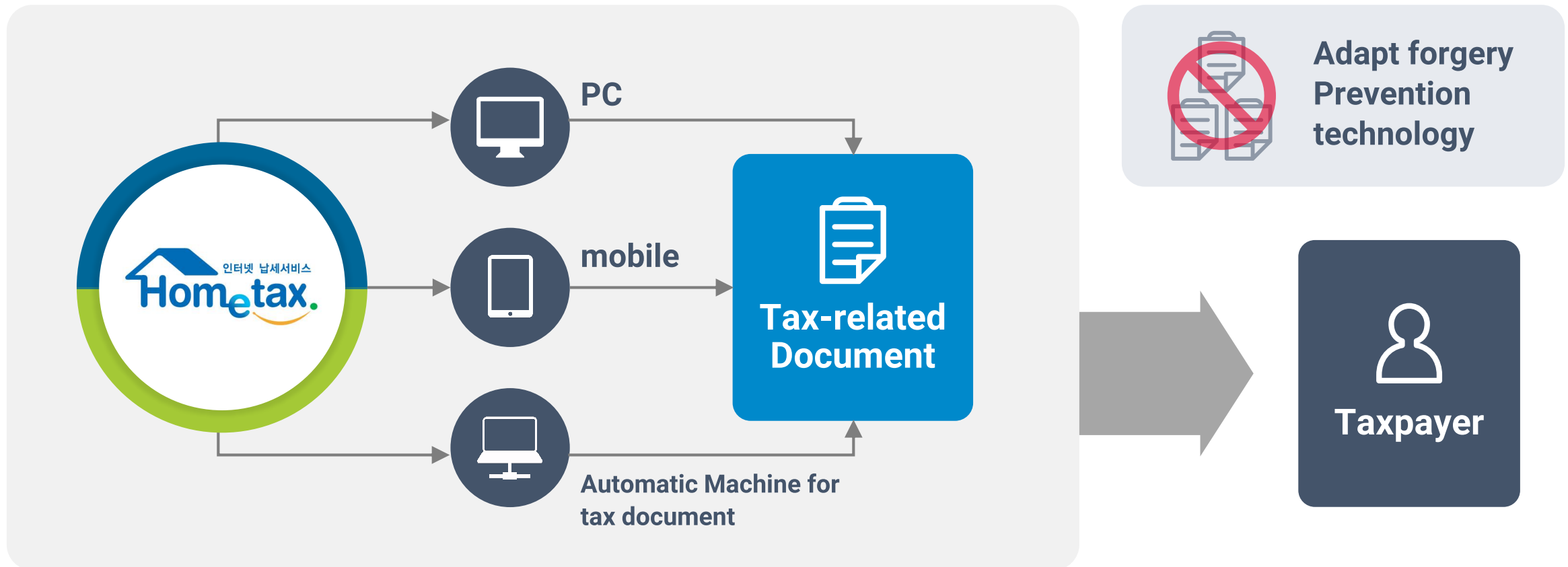
항목	금액	세율	세액
과세 세금계산서 발급분 (1)	137,859,000	작성하기	10 / 100
과세 배합지발행 세금계산서 (2)	0	작성하기	10 / 100
과세 신용카드·현금영수증 발행분 (3)	33,050,000	작성하기	10 / 100
과세 기타(장규영수증 외 매출분) (4)	1,730,000	작성하기	10 / 100
영세율 세금계산서 발급분 (5)	0	작성하기	0 / 100
영세율 기타 (6)	0	작성하기	0 / 100
매정신고 누락분 (7)	0	작성하기	
매출세액 가감 (8)		작성하기	
합계 (9)	0		

Designed as the same as the paper tax return

Pre-filled service (full-filled service)

II NTIS Overview

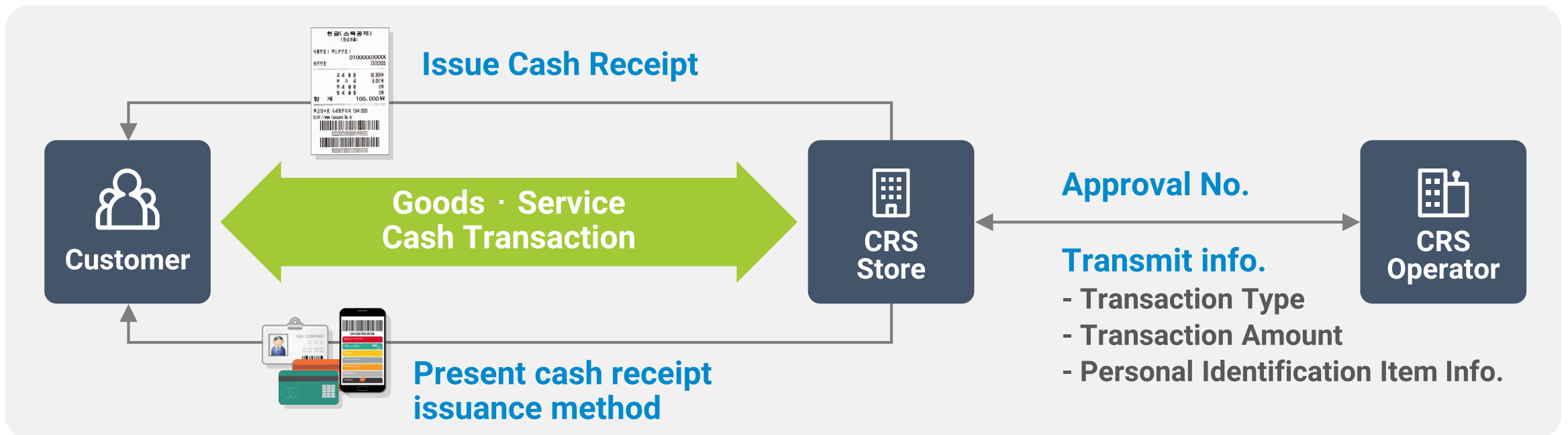
Issue Tax Document



II NTIS Overview

CRS : Cash Receipt System

- Under this program a CRS store issues a cash receipt to its customer when the customer pays a cash, while the transaction information is transmitted to a CRS operator in real time



⚠ CRS operators transmit the transaction data of CRS stores to NTS everyday (one time)

II NTIS Overview

e-tax Invoice

Thru Internet



Thru Mobile



Thru representative



ARS



ASP-ERP



Schedule submission

NTIS

Operation

- Data keeping, internal support

Analysis

- Early alert
- Data analysis

Issuance, view, filing

- Internet issuance
- View invoices
- Convenient VAT filing



Call center ARS issuance

External parties



Korea Internet Promotions Center



Certification organizations

Secure national revenue with stable revenue budget

Less Compliance Burden

Fair & Just Taxation

System

NTIS(Neo Tax Integrated System)

Work force

21,744 tax officers

Organization

HQ, 7 regional Offices,
133 district offices

III Outcomes

**Less
compliance burden**

Hometax – Internet-based all-in-one tax service



✓ Service

- All tax filing service
- 750 services including e-filing, e-tax documents

✓ Outcome

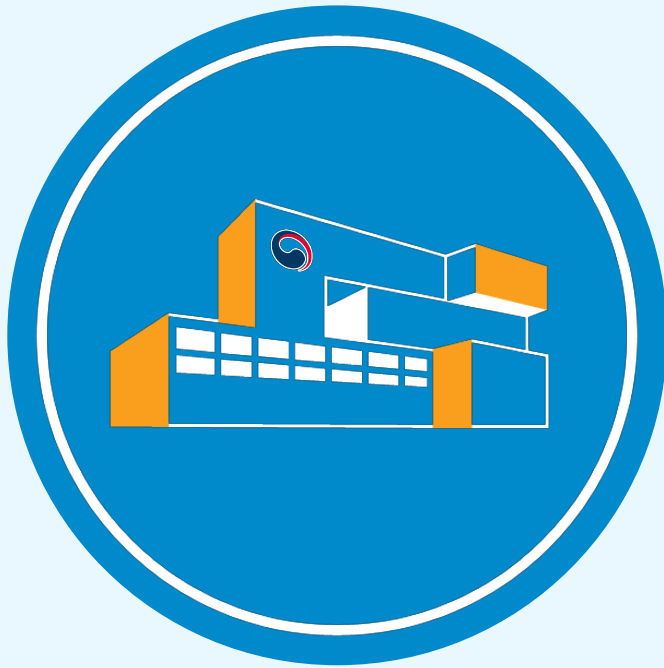
- 30M subscribers from 50M citizens
- 13B accumulated visitors, mega public governmental service

✓ Success Factor

- intuitional support : tax credit for e-filing
- convenience : pre/full-filled service

**Less
compliance burden**

Hometax – Internet-based all-in-one tax service



- ✓ **Simplified tax deduction data service**
(full-filled service for salary earners -income tax filing-)

- ✓ **1.9B annual tax deduction data**
- medical/educational expense, credit card, donation

- ✓ **Full-filled service**
- items for earned income, deduction on tax return
- for 150M salary earners (75% of all wage earners)

Fair & Just Taxation

Electronic Tax Resource Management Framework

01



Increase in
credit card use

02



Cash
receipt

03

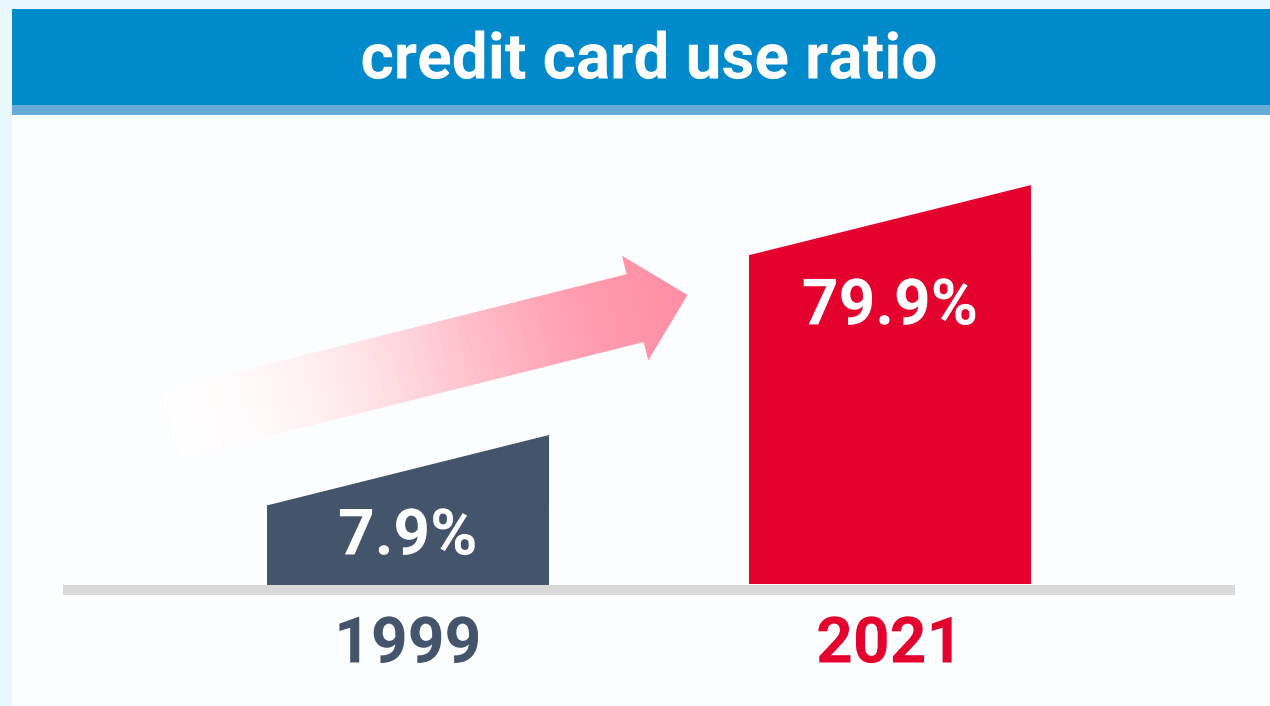


e-tax
invoice

Fair & Just Taxation

Electronic Tax Resource Management Framework – increase in credit card use

- ✓ **Income deduction**
 - for the amount on credit card use
- ✓ **Early warning system**
 - collect transaction information, prevent illegal/irregular transaction

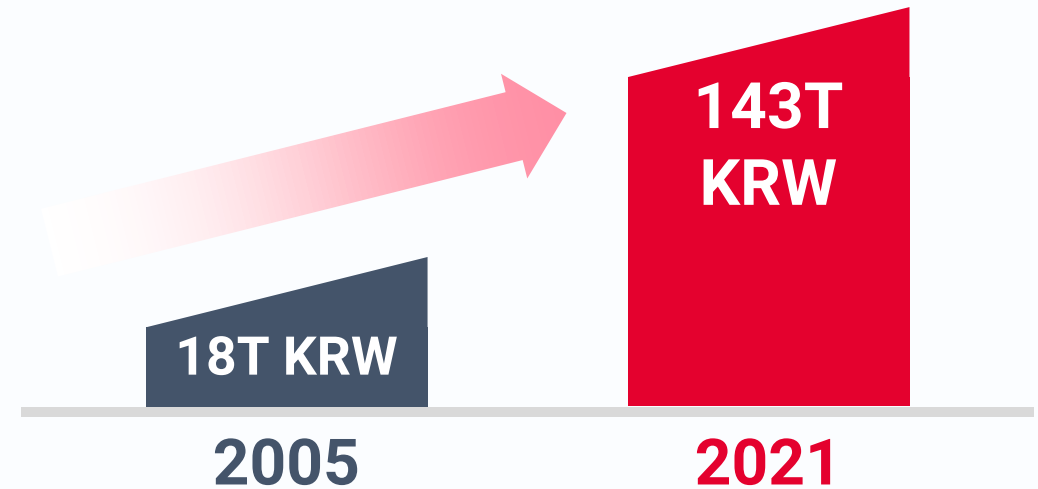


Fair & Just Taxation

Electronic Tax Resource Management Framework – Cash receipt

- ✓ **Income deduction**
 - for the amount issued by cash receipt
- ✓ **Award for reporting violation activity**
 - on the issuance of cash receipt
- ✓ **Mandatory issuance**
 - cash transactions over a certain amount of amount

amount issued by cash receipt

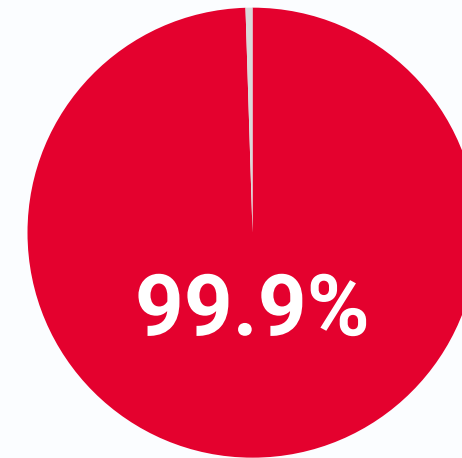


Fair & Just Taxation

Electronic Tax Resource Management Framework – E-tax Invoice

- ✓ **Early warning system**
 - Real-time prevention on false tax invoice
- ✓ **Step-by-Step implementation**
 - expand subject scope of mandatory issuance of e-tax invoice

e-tax invoice issuance ratio



2021

Fair & Just Taxation

Electronic Tax Resource
Management Framework – success factor

PENALTY

Mandatory issuance
Penalty tax
(fail to issue, delayed issue ...)
ETC



Voluntary
participation of
taxpayers

INCENTIVE

Income deduction
(for customer)
Tax Credit for VAT
(for business operator)
ETC

Changes in tax environment

Less compliance burden

- ✓ **Mobile First Age**
 - start IT-centered service
- ✓ **Digital generation**
 - demand for Innovative e-tax service
- ✓ **Increase in aged taxpayers**
 - risk to be in blind spot for taxpayer service

Fair and just taxation

- ✓ **IT Development creates new tax resource**
 - virtual currency, personal media, etc.
- ✓ **Aggressive tax avoidance scheme by digital IT entities**
 - utilize advanced technologies (Blockchain, cloud)
- ✓ **Limit on exercising on taxation right due to globalized economy**
 - intelligent offshore tax avoidance supported by experts

Metaverse



AI, Bigdata



Blockchain



Cloud



Thank You





Ministry of
Justice of
Georgia



PUBLIC SERVICE
DEVELOPMENT AGENCY

Public Service Development Agency

Speakers:
Tamar Tchampuridze

June --, 2022
Tbilisi, Georgia



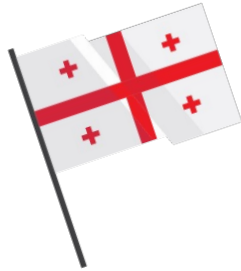
PSDA's Goals

- Facilitating development of public services
- Introducing new and innovative services
- Supporting projects and reforms that are important for the development of the country
- Fostering creativity and innovation in public services
- Maintaining and continuously improving the civil registry
- Updating the population database

Main Directions of PSDA



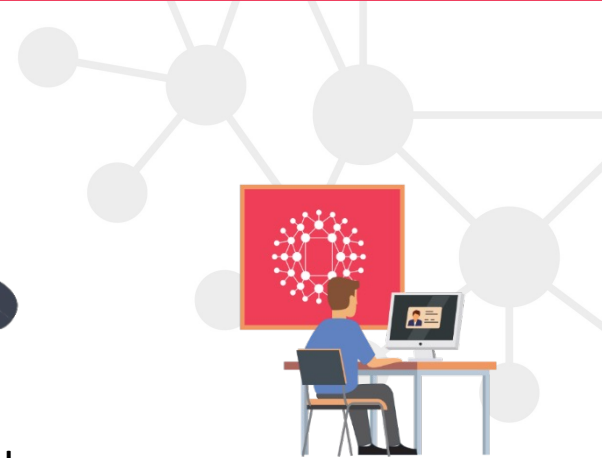
Civil acts, Identity Documents, Registration



Citizenship and Migration



Apostille and Legalization



Online Services



Qualified Trust Services

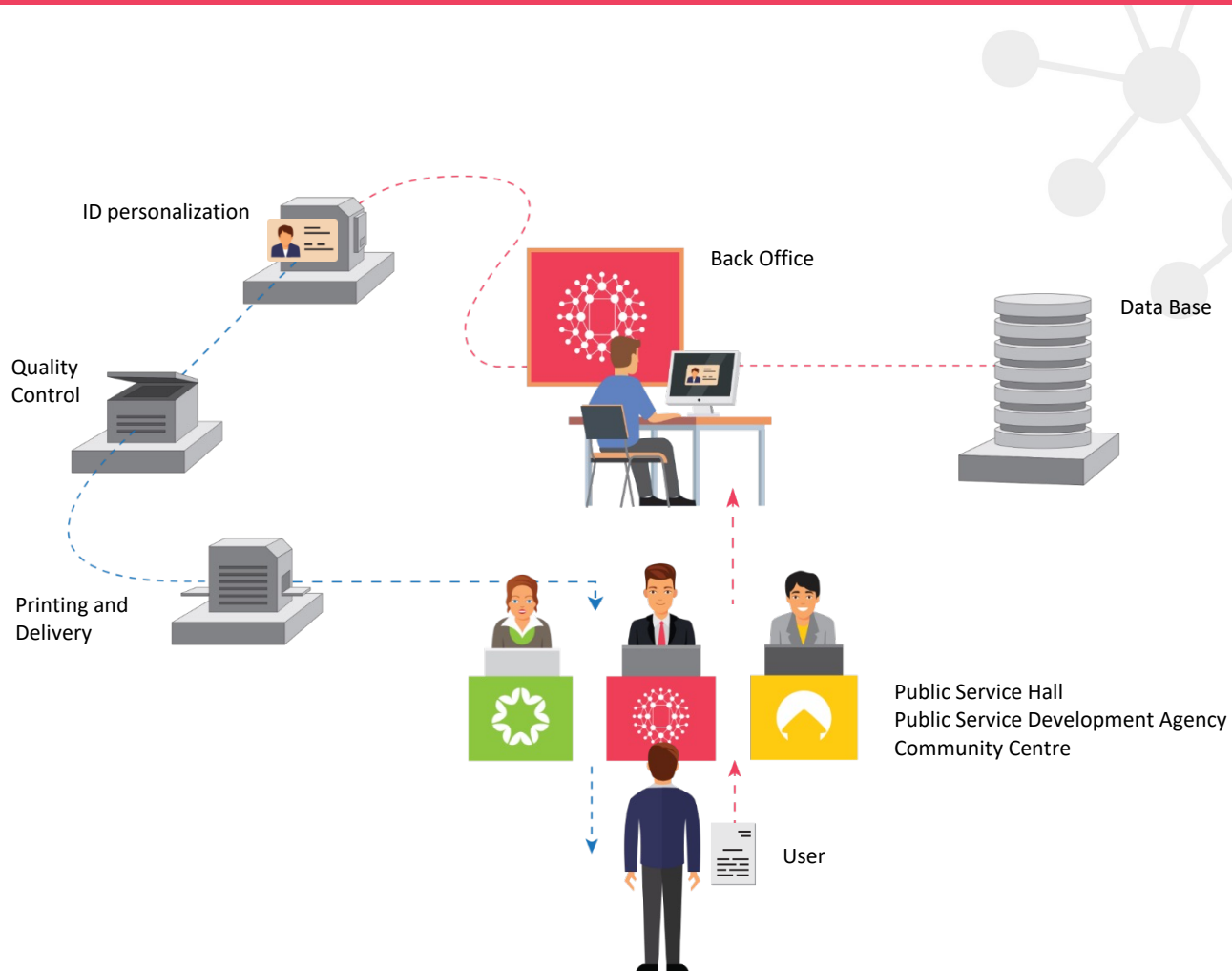


Identification Verification



Innovative Service Lab

Service Delivery Process



Types of Civil Status Acts

- Birth
- Establishment of paternity
- Marriage
- Divorce
- Adoption
- Change of name/surname
- Death



PSDA and Electronic Trust Services

Qualified Trust Services

- eSignature
- eSeal
- Time – stamp
- OCSP
- CRL



Trust service

- Biometric encryption
- Preservation and decryption



Georgian Legislation

- **The first Law** of Georgia on “Electronic Signature and Electronic Document” was adopted in 2008 (compatible with Directive 1999/93/EC)
- In 2017, it was substituted with the new law “On Electronic Document and Electronic Trust Services” which is **based on eIDAS regulation** (Regulation No 910/2014)
- Fully entered into force on July 1st, 2018

For all electronic document exchange with the government
(C2G, G2C, B2G, G2B, G2G),
Qualified Electronic Signature or Qualified Electronic Seal
is mandatory

eSignature Creation Devices

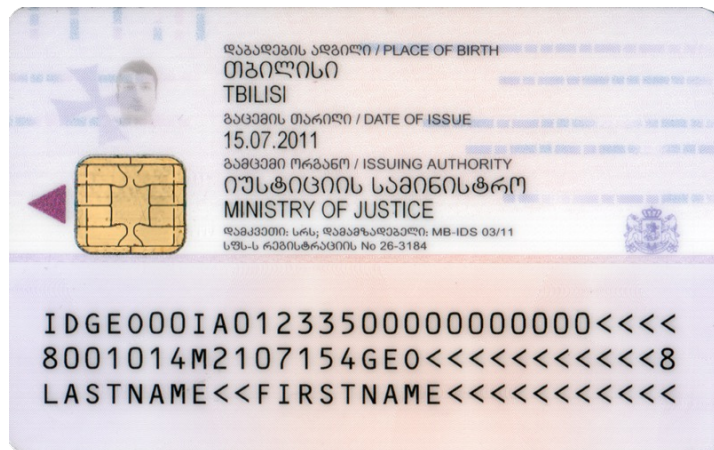
Electronic ID Card (Since 2011)



Contact



Contactless



Temporary Residence Card

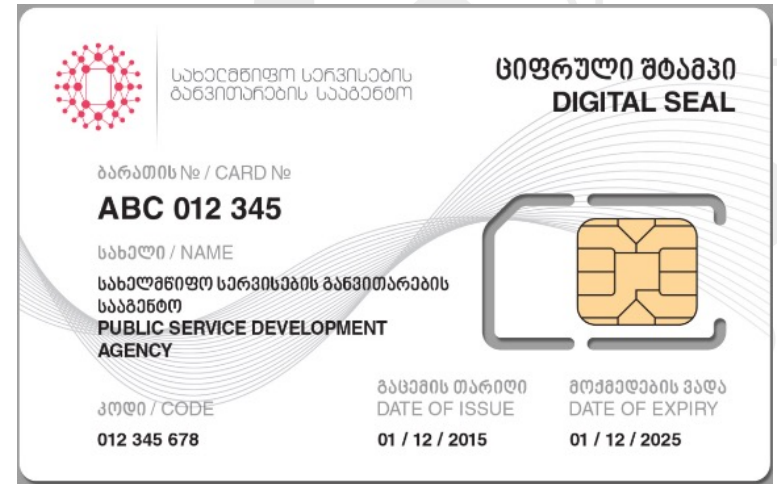


Permanent Residence Card

eSeal Creation Devices

eSeal

- Agency's Token
- Subscriber's Token
- Agency's HSM
- Subscriber's HSM



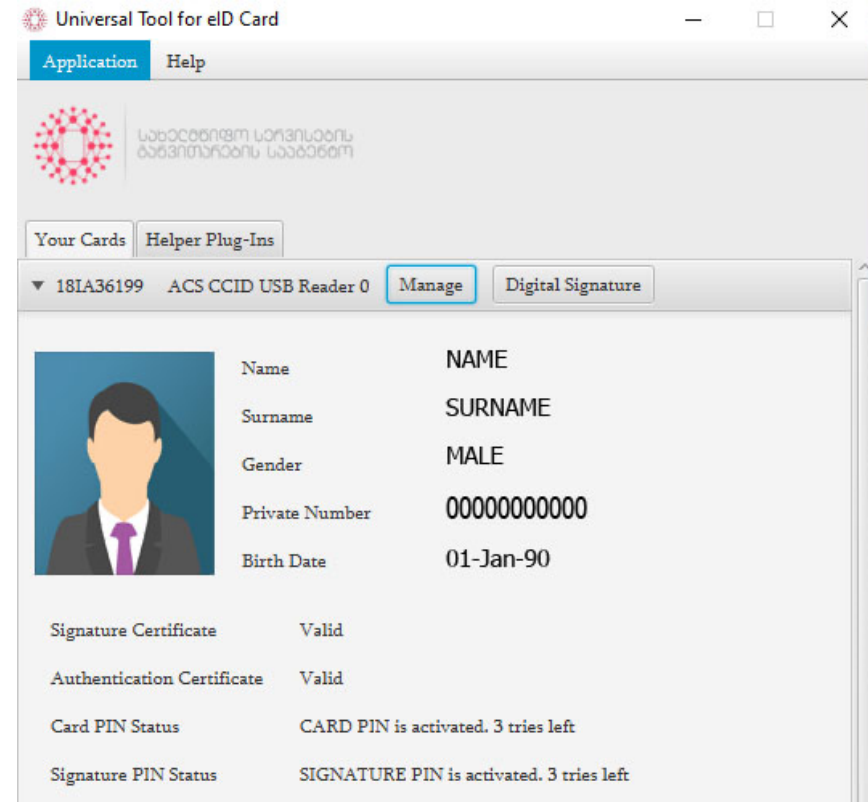
Georgian ID Card Tool

Availability

- Freely downloadable from <https://id.ge/download>
- Available for Windows & Mac
- For Linux in experimental mode
- Automatic updates

Functionality

- View card data
- PIN code management
- Certificate renewal
- Authentication
- Qualified electronic signature
- Document time-stamping



Web-based Signing/Authentication



მოქალაქის პორტალი – ჩემი ელექტრონული მთავრობა
მთავარი / პირადი ინფორმაცია / დოკუმენტის ხელმოწერა



ხელშეკრულება

კომპანიის დასახელება:

ხელშეკრულების სახელი:

დოკუმენტი:

ხელმოწერა

ელექტრონული პირადობის მოწმობის უნივერსალური პროგრამა

სახელმწიფო სერვისების განვითარების სააგენტო

ვებსაიტი <https://portal.gateway.gov> ითხოვს ხელმოწერას ელექტრონულ დოკუმენტზე

გადახედვა

სერტიფიკატი

დეტალები

ხელმოწერა უარი



საქართველოს რკინიგზა
GEORGIAN RAILWAY



My.gov.ge



PUBLIC SERVICE
DEVELOPMENT AGENCY



Web Services for Identification/Verification

- More than 250 organizations
- Public Sector organizations
- Private sector (mainly financial) representatives
- Data protection



Issued Certificates Statistics



Electronic
signature

4 815 958



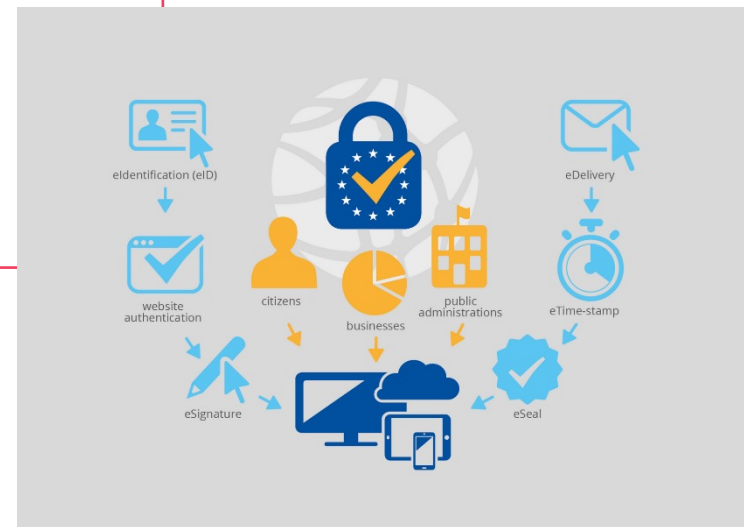
Electronic
seal

9 553

As of April 11, 2022

Identity & Trust Service Delivery in 2021

- Qualified Time Stamp (TSA) More than **77 Million**
- Online Certificate Status checks (OCSP) - More than **123 Million**
- Personal data provisioning via web service more than **345 Million**
- Electronic Covid passport signing (Visual Digital Sign) more than **6 Million** in 2 months



Centralized Authentication System

Purpose

- Authentication of the natural and legal persons
- Verified online identity



Technology - open and widely used protocols

- SAML2 – used by many corporate systems
- Open ID Connect – emerging standard used by Google, Facebook and other top players

Centralized Authentication System

Authentication Credentials

- Electronic ID card
- Username/Password from my.gov.ge

Enhancement Capabilities

- Adding existing users of:
 - Government organizations
 - Public sector representatives
- Adding other identification methods
 - mobile ID
 - Biometric identification
 - Etc.



საპენსიო სააგენტო
PENSION AGENCY



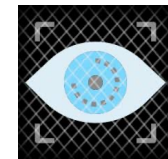
MIA



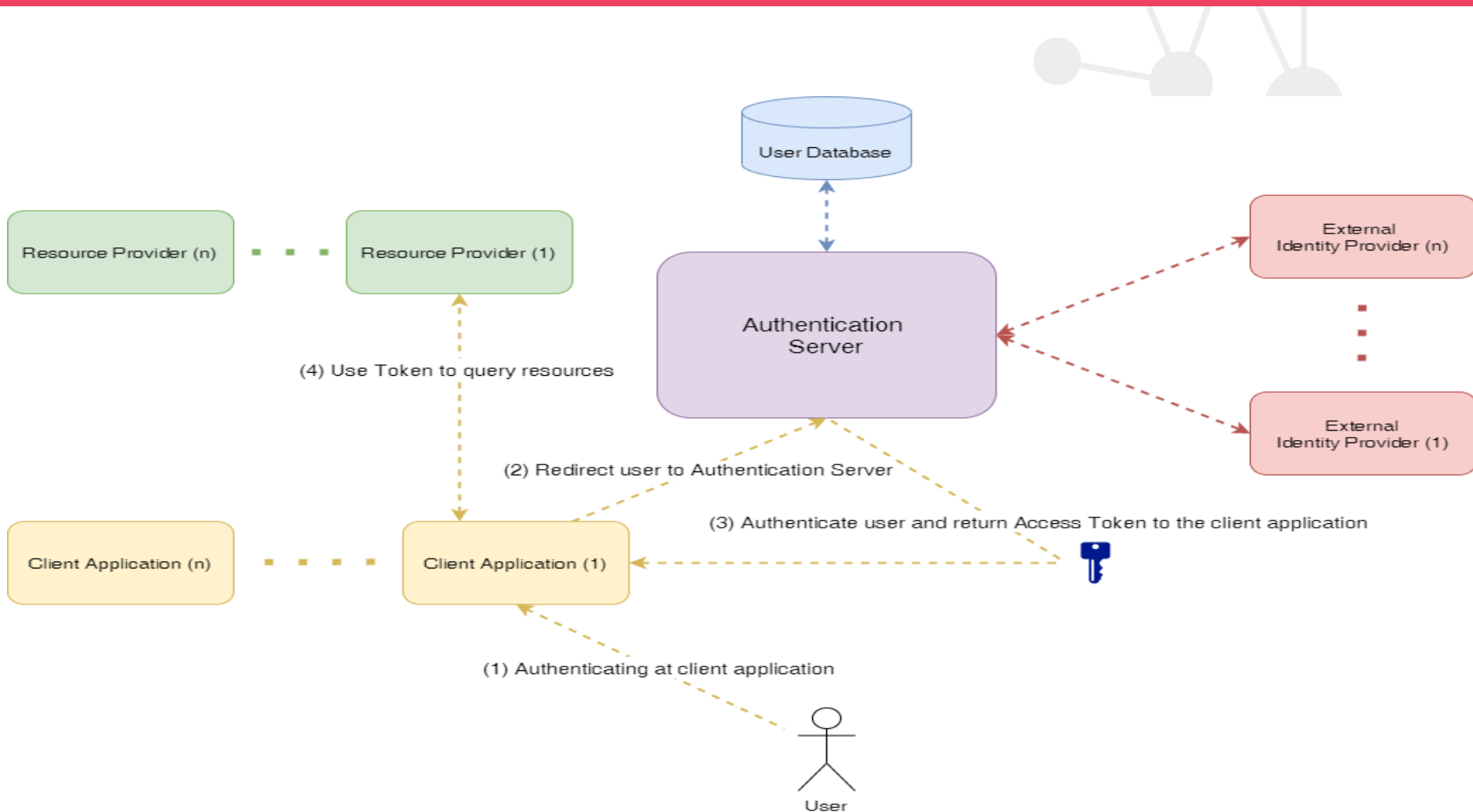
NAPR



RS



Centralized Authentication System



Future plans for authentication system

Attribute Sharing

- Age verification
- Sharing other personal data

GDPR compliant

- Using subject's consent
- Choosing what to share



Future Plans

More qualified trust and identification services

- Mobile ID



- eDelivery





Ministry of
Justice of
Georgia



PUBLIC SERVICE
DEVELOPMENT AGENCY

sda.gov.ge



Introducing 「Government24」



< Table of Contents >

1. Background
2. What is Government24?
3. Progress
4. Service Type
5. Main Services
6. Service Provision and Utilization Status
7. Future Plans



❑ Implementation of One Touch and One GOV

- Citizens have long been inconvenienced because of searching for the distributed services of each institution on multiple administrative and public institution websites.

Issue	Necessity
<ul style="list-style-type: none">▪ Confusion and inconvenient access to public services▪ Duplicate website management by institution▪ Insufficient service tailored to each individual's needs	<ul style="list-style-type: none">▪ Unification of service channels for citizens▪ Demand for integrated service management system▪ Improving the efficiency of service use

- Minwon24 (www.minwon.go.kr) has significantly strengthened its online civil service since its introduction as “G4C (Government for Citizen)” in 2002 and established itself as an integrated online window for the public.
- **Established and operated “Government24” (July 26, 2017) to help citizens use distributed government services, policy information, and civil services in one platform.**

◆ **What is “Government 24”? = “One Gov” + “One Touch”**

We linked civil services, public services, and policy information from each department and integrated them into a mobile-oriented one-stop portal called “Government24” to allow citizens to access everything in one place.

* Established the integrated portal "Government24" in 2017, linked the portal with the major services and policy information of other institutions in 2019, and set up "One Gov" in 2020.



Integration/Linkage Concept Map



Government services

**89,000 types of government services
provided by fields and needs**

Civil services

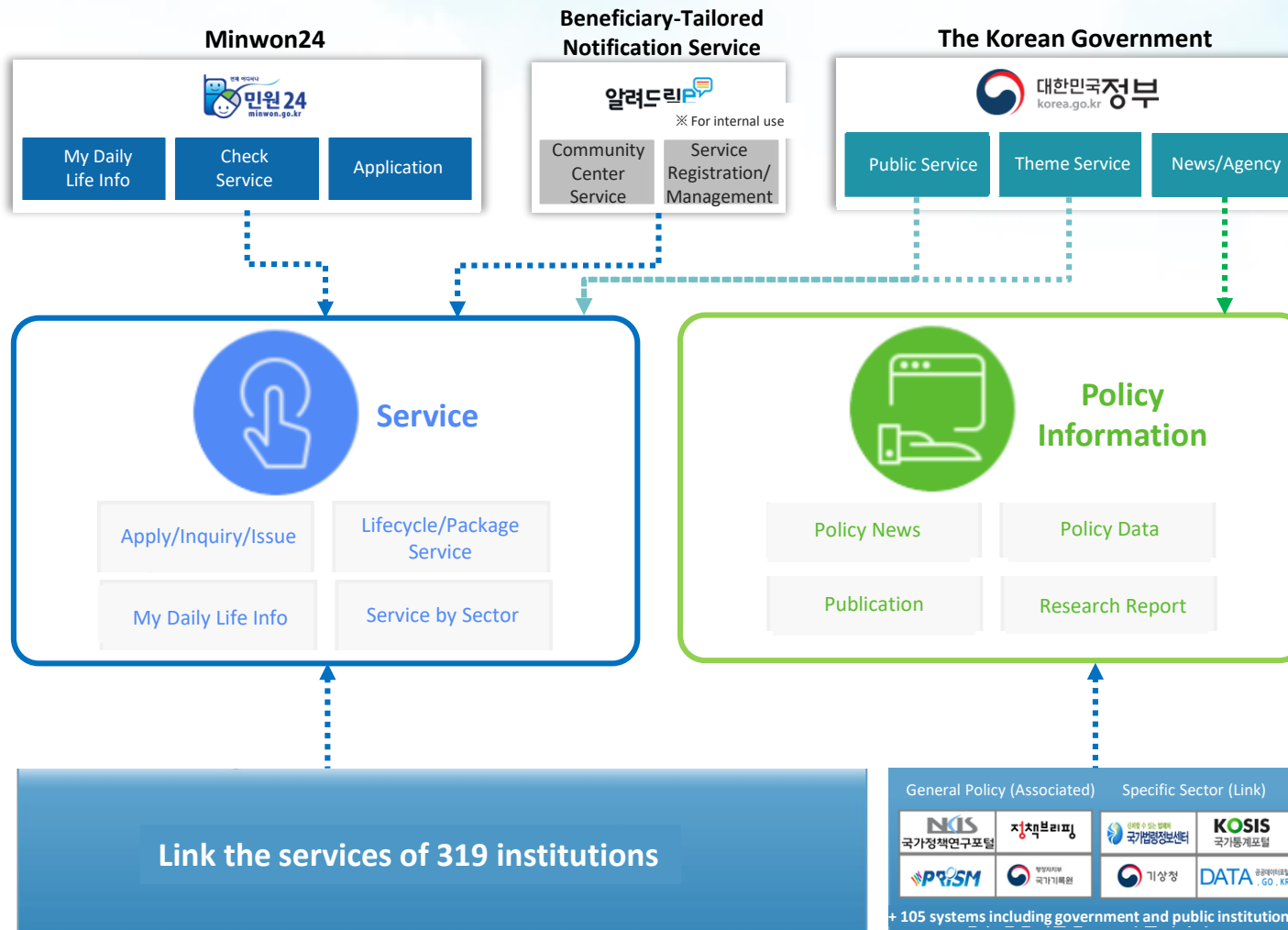
5,800 types of civil services information

More than 1,200 types of civil service applications/issuances

Policy information

Share the main policy information of the government and institutions

2. What is Government24? (2)



1. Services

- Integrate government services and civil services of individual institutions.
- Existing specialized services (tailored service, lifecycle service) are integrated and configured to be used separately.

2. Policy and information

- Government policies and information are provided separately from services.
- ※ Phased linkage of policy information

2. What is Government24? (3)

◆ “Government24” is divided into “Services” and “Policy Information.”

Classification	Services		Policy information
	Government Services (Beneficial)	Civil Services	
Service Definition	<ul style="list-style-type: none"> Cash/in-kind benefits, vouchers, or discount services provided to persons who meet specific requirements such as the elderly, the disabled, veterans, etc., in accordance with the relevant laws and regulations. Support for payment, facility rental, loan/loan facilitation, education, facility use, and information provision 	<ul style="list-style-type: none"> Provision of services for guiding, applying, issuing, and accessing legal civil services stipulated in laws and regulations * Article 7 (Application, etc. for Electronic Processing of Civil Petitions) * Article 9 (Processing of Civil Petitions without Appearance) 	<ul style="list-style-type: none"> A public service offered by the government and public institutions to provide benefits to or receive applications from citizens, or public service (regulations, obligations, and various general information provided on each institution's website) that targets citizens (businesses)
Service Target	<ul style="list-style-type: none"> Focused on specific beneficiaries with certain requirements defined in legislation. Some services target all citizens. 	<ul style="list-style-type: none"> Citizens who apply for and issue a legal civil petition 	<ul style="list-style-type: none"> All citizens
Service Example	<ul style="list-style-type: none"> Local tax reduction and exemption for low-income people, childcare cost for families with multiple children, and income support for the severely disabled Support for part-time jobs and start-ups Support for self-sufficiency work and residential lease Information literacy education for farmers and those who return to the farm and rural areas 	<ul style="list-style-type: none"> Miscellaneous certificates/services, including resident registrations Notifications of moving-in, mail-order business, etc. Licensing, including permission for fishery, etc. Confirmation of authenticity of issued documents, resident registration card, etc. 	<ul style="list-style-type: none"> Simplified year-end tax settlement Information on the National Pension Service Maternity leave system

3. Progress (1)

2000

2015

Jul 26, 2017

Feb 26, 2019

Nov 5, 2020

Introduced Government24

Exceeded
10 million registrations

Terminated Minwon24



The Korean Government



대한민국정부
korea.go.kr

Beneficiary-Tailored
Notification Service



Government24

- ✓ (2015) ISP/BPR for integration of civil affairs and suggestions services
- ✓ (2016-2020) Integration of civil affairs and suggestions services
 - Integrated public portals and public official window
 - Extended service linkage (government service, policy information, etc.)
 - Expanded mobile services (fingerprint authentication, etc.)
 - Upgraded one-stop, package, and foreign national services, etc.
- ✓ (2020-2022) Establishment of tailored services for national subsidies(「Subsidy24」)
 - Integrated guide and application service for tailored services

Minwon24

(2000-2007)
Established G4C
(Online civil service)

(2009-2011)
Developed
advanced civil service

(2013-2015)
Established daily living
information service

Korean Government

(2009-2011)
Set up
Korean government portal

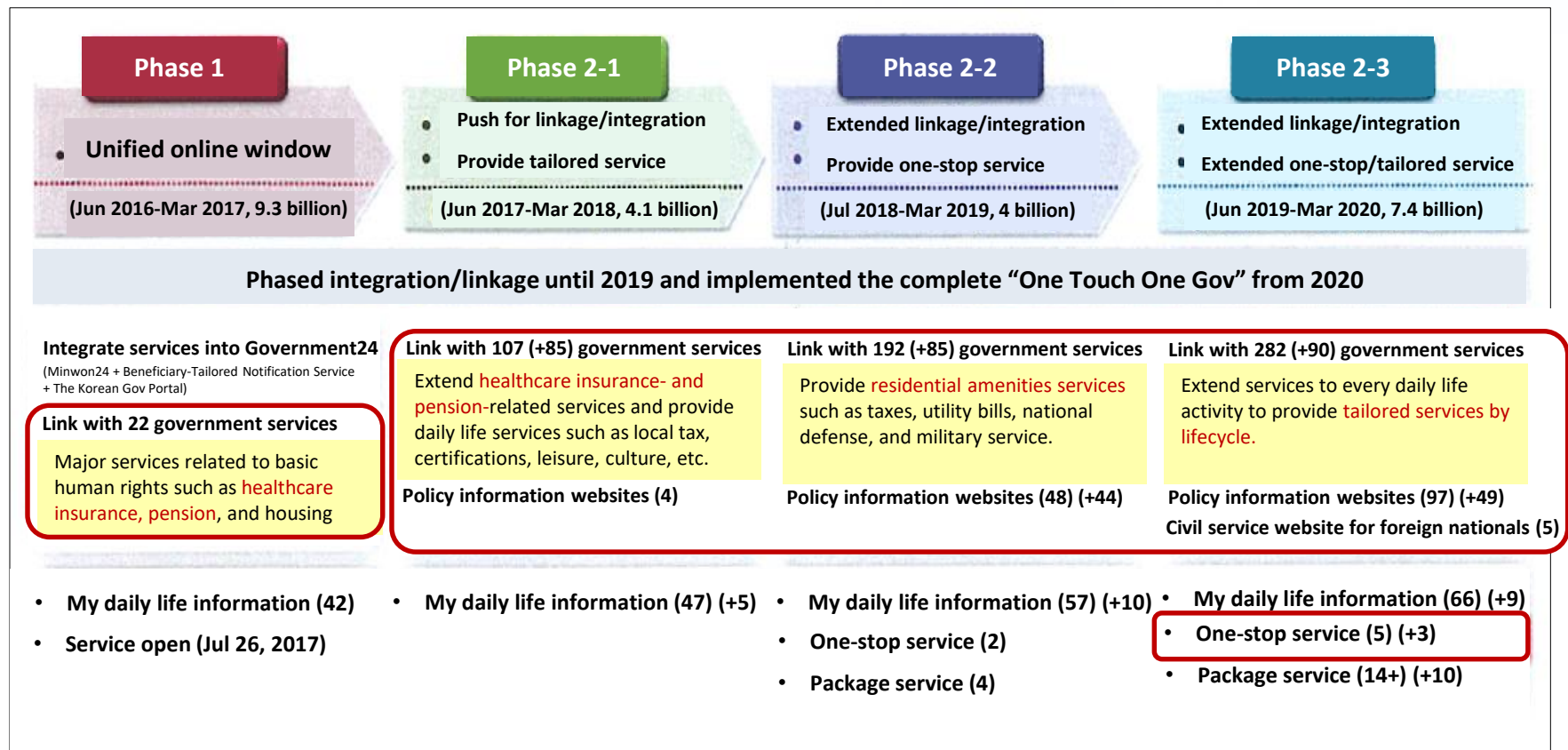
Beneficiary-Tailored Notification Service

(2013-2015)
Established
beneficiary-tailored
notification service

3. Progress (2)

□ 「Government24」 aims to unify service channels for the citizens, such as various civil affairs, government services, and policy information shared by departments. Under this goal, the service started by integrating three sites, including Minwon24, beneficiary-tailored notification service, and the Korean government portal in 2017.




A total of KRW 24.8 billion was invested in service establishment projects.



3. Progress (3)

- 「Subsidy24」 is a service that allows you to check and apply for beneficiary services provided by the government or local governments at once by one-time logging in through Government24

A total of KRW 19.2 billion was invested in service establishment projects.

	Phase 1	Phase 2	Phase 3
	Provide central government Customized information (May 2020-Jan2021, 5 billion)	Provide local government Customized information (Mar 2021-Dec 2021, 7.2 billion)	Provide public institutions , office of Education Customized information (Apr 2022-Dec 2022, 7 billion)
Service Target	<ul style="list-style-type: none"> Central government service (1043) Customized information service(348) Online application service(25) 	<ul style="list-style-type: none"> Local government service (6430) Customized information service(3196) Online application service(315) 	<ul style="list-style-type: none"> Public institutions, office of Education (2,200) Customized information service(+420) Online application service(+500)
Information Linkage	Qualification-supply information (115)	Qualification-supply information (118)	Qualification-supply information (90)
Beneficiary	'21.4.28. service opening  oneself, children under 14 <ul style="list-style-type: none"> Household Register Parental consent for use of information on children under 14 	'21.12.16. service opening  oneself, spouse, children <ul style="list-style-type: none"> Household member consent 	 oneself, spouse, children, one's parents <ul style="list-style-type: none"> Certificate of relations Family member consent

※ (1~2Phase) '22.4.30. Reference date

4. Service Type

Guidance

Civil Service Information and Application

Issuance of Resident Registration Certificate (Abstract)

Application	Internet, visit	Processing Period	Immediately (3 hours during business hours)
Fee	1 copy (KRW 400)/For persons interested (KRW 500)/ Internet issuance (Free)	Application Form	Application form for perusal of resident registration card or issuance of certified copy, power of attorney for issuance (Enforcement Regulation of the Resident Registration Act: Addenda 7, 7-2, 9) * For the application form, refer to the final article of the Act. <Examples of application form>
Required Documents	Yes (Refer to the bottom)	Eligibility	Principal or agent (Online application is unavailable for an agent)

Apply

* Provide information such as application guide for civil services, basic information, processing agency, required documents, etc.

Inquiry

My Daily Life Information

Register Service Schedule
f 서비스 일정 등록

My Daily Life Information (Details)

Information	Passport expiry date	Service	Passport expiry date
Service Group	Housing/Welfare	Remarks (Amount, etc.)	
Processing Due Date	Details		
Passport expiry date is ____.			

- Name (Korean):
- Name (English):

* Information sharing services related to application details and daily life information, etc.

Application

My GOV / Logout / Gov24 Overview / Sitemap

Service Policy Information Agency Information Customer Center

Issuance of Resident Registration Certificate (Abstract)

Resident Registration Certificate	Resident Registration Certificate (Abstract)	Resident Registration Certificate (English)	Resident Registration Certificate (English/Abstract)
Apply			Cancel

* Apply for civil/government services, one-stop service, etc.

Issuance

Service Application Details

Gov24 Print

Online Application Submit to 3rd party or agency (Send) 제3자제출 및 위탁

For applications made 3 days earlier, please enter the date range to check the details.

Date range: 2021 3 15 - 2021

Receipt No. [Application Date] 20210315-39807304 [Mar 16, 2021]

Service Issuance of military service certificate

No. of Copies 1

Progress Completed

Print

Document Confirmation No. : 1815-8182-7542-0242

Enforcement Regulation of the Military Service Act (Addenda 5) <2019.2.27>

The certificate can also be issued at Government24 (www.gov.kr).

Military Service Certificate

Issuance No. 099400 Expiry Date: None

Use [] Declaration (Public officials, etc.) [] Other []

Personal Info. [] Discharged [] In Service

Military (Alternative) Service

Military Service Information

- Enlistment
- Rank
- Service number
- Branch
- Arms of service (Occupational specialties)
- Date of enlistment (commission) / Date of call-up
- Date of discharge (discharged from call-up)
- Type of discharge (discharged from call-up) (Reason)

* Print out issued documents for applied service.

◆ Government24 Service Composition

Civil Services

- Integration of guides, applications and issuance services related to 5,800 types of civil services in connection with 319 institutions, including central and local governments
- (Central Departments) A total of 30 institutions including the Ministry of the Interior and Safety, the Ministry of Health and Welfare, the Ministry of Land, Infrastructure and Transport, and the National Police Agency
 - * Linked to 51 systems such as Wetax, Resident registration information system, Social security information system, Real estate administration intelligence system, etc.
- (Local Governments) A total of 245 local governments (16 cities/provinces, 229 cities/counties/districts/Sejong Special Self-Governing City)
 - * City/Provincial administrative system, Saeol administration information system, etc.
- (Public Institutions) A total of 39 institutions, including the National Pension Service and the National Health Insurance Service

Government Services

- Integration of guides on/the provision of government services that were distributed across 3,900 sites, including central and local governments, and related guides.
- * About 89,000 services = Beneficial services (85,000) + Non-beneficial services (4,000)

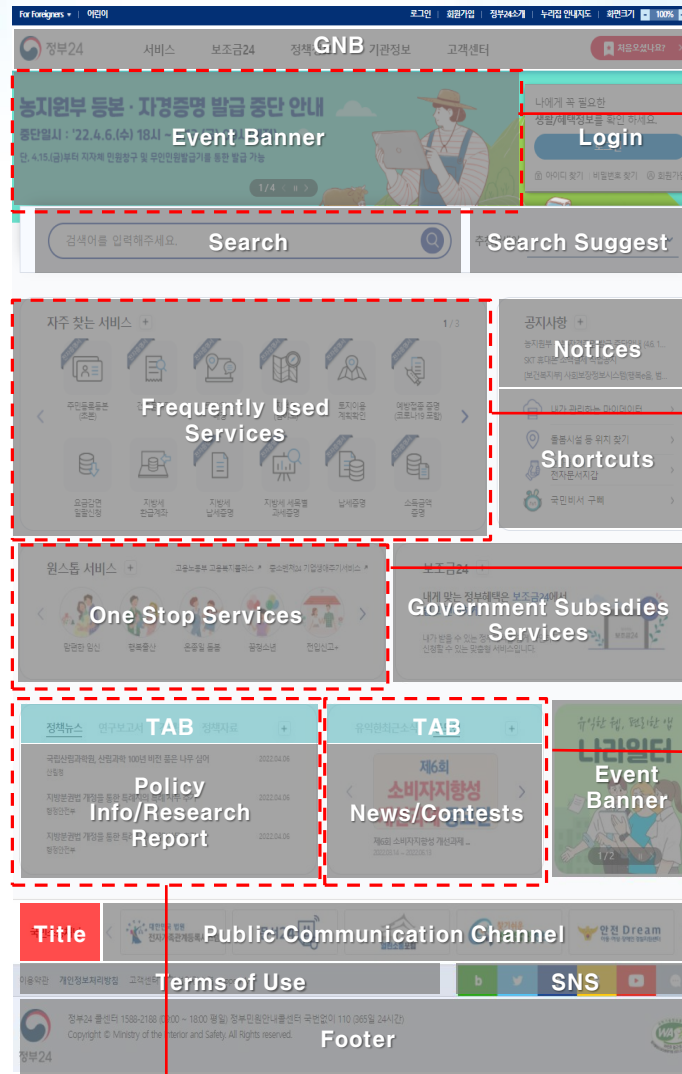
Policy Information

- Integration of the provision of 1.69 million policy information, including policy news, research reports, and publications by linking the portal with 105 websites.
- National communication channel: A total of 15 channels (Safety e-Report, e-People, Information Disclosure Portal, Electronic Gazette, Korean Law Information Center, etc.)

Institution Information

- Information on the central government and 17 cities and provinces, and 228 cities, counties, and districts.
- Local government news, festivals/events, and contests.

5. Main Services (2)



Central government and local government policy promotion

Collection of frequently requested civil services

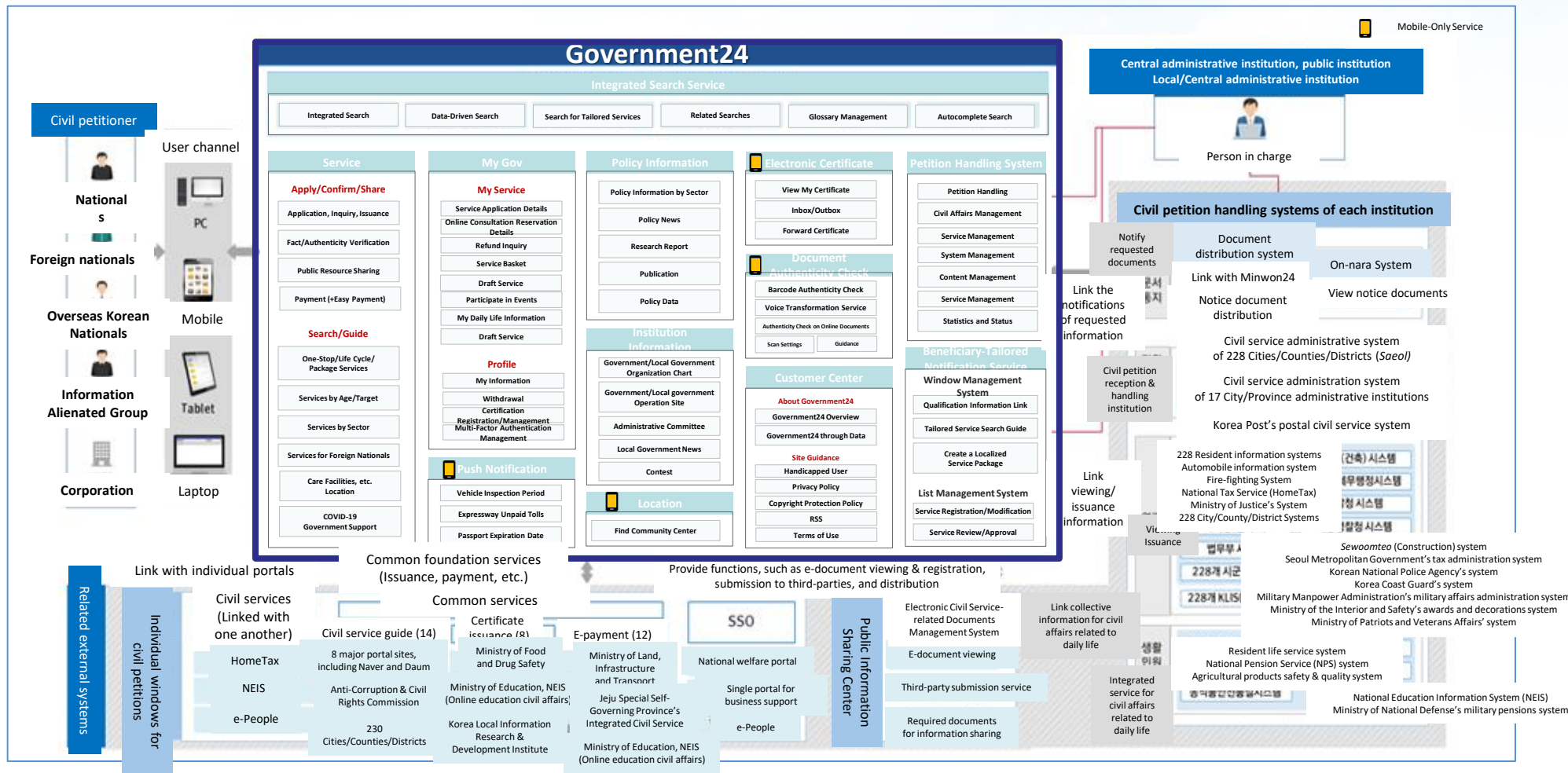
Integrated application for major services, including pregnancy, childbirth, childcare, etc.

Government news and events such as contests

Publications of government institutions

5. Main Services (3)

- Offer service applications and issuances, policy information, institution information, customer center, personal window, etc.
- It consists of an operating system to handle civil petitions for public officials and a beneficiary-tailored notification service.



6. Service Provision and Utilization Status (3)

□ Representative Government Website 「Government24」 (gov.kr)

[As of April 30, 2022]



Monthly Visits

36.04 million

(Daily Average: 1.2 million)



No. of registered accounts

18.15 million

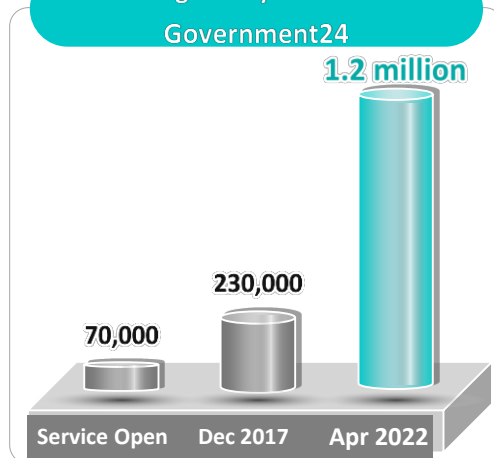


Monthly Usage

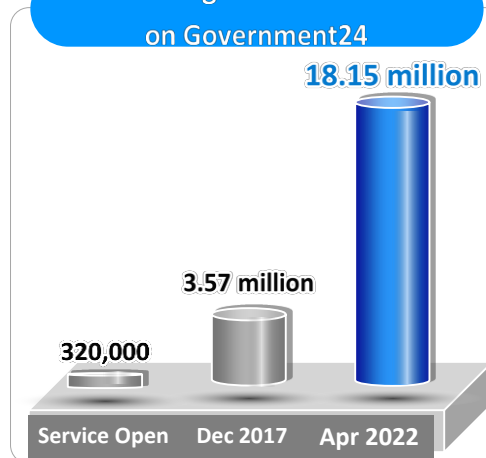
34.96 million cases

(Daily Average: 1.16 million)

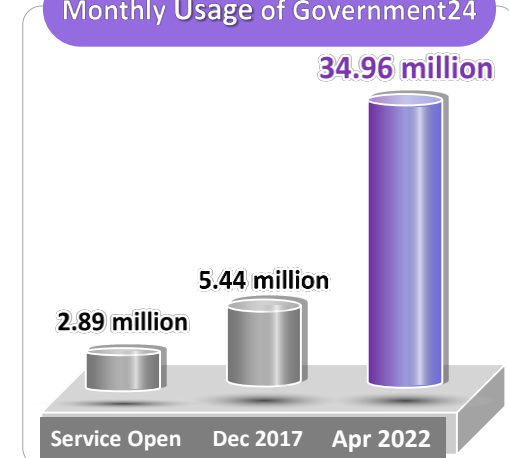
Average Daily Visitors to
Government24



No. of Registered Accounts
on Government24

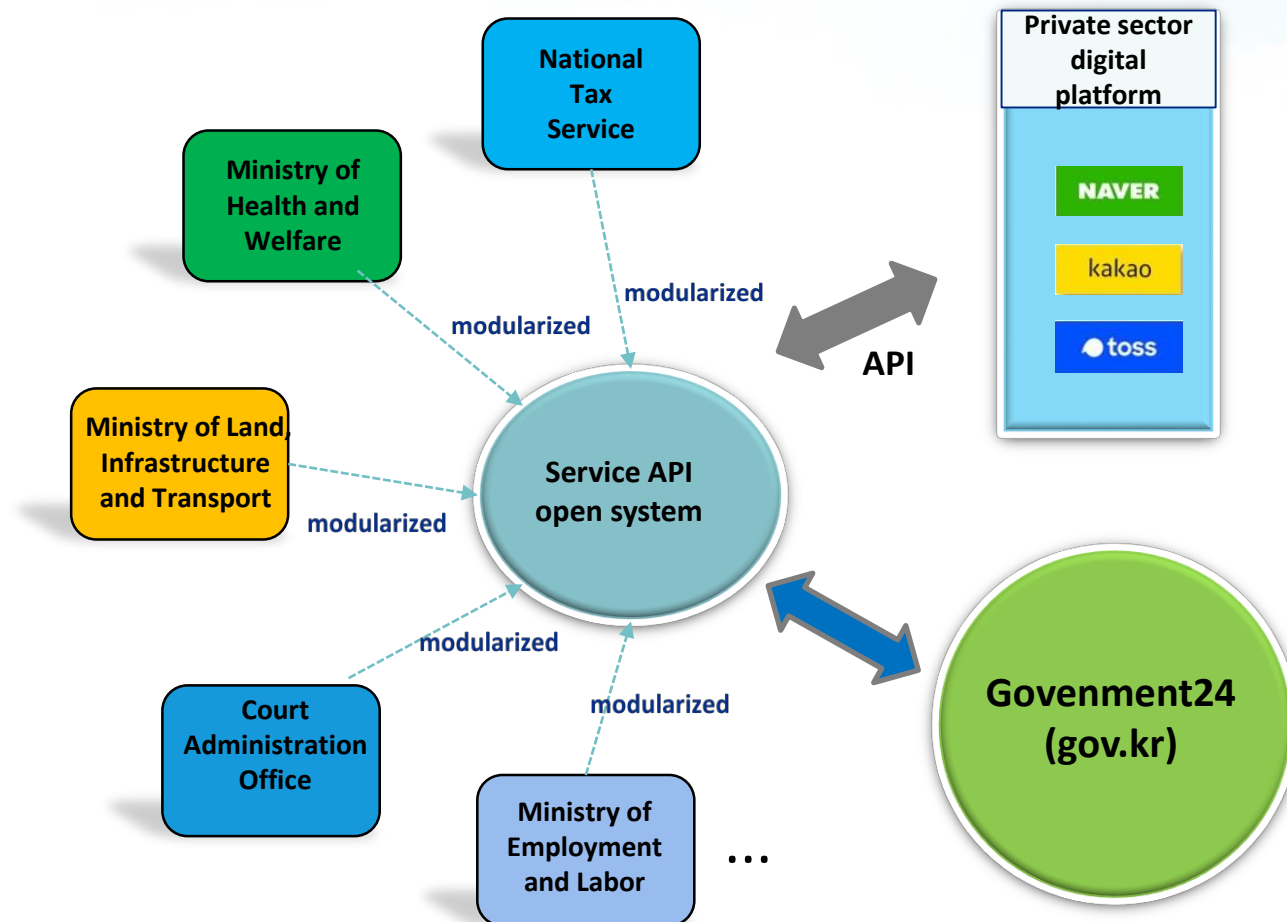


Monthly Usage of Government24



7. Future Plans

- ☐ In the future, Government24 is developing and operating public services using the modularized service registered in the 'Service API open system'



Thank you

Journey to Excellence of Digital Transformation

Mobile ID

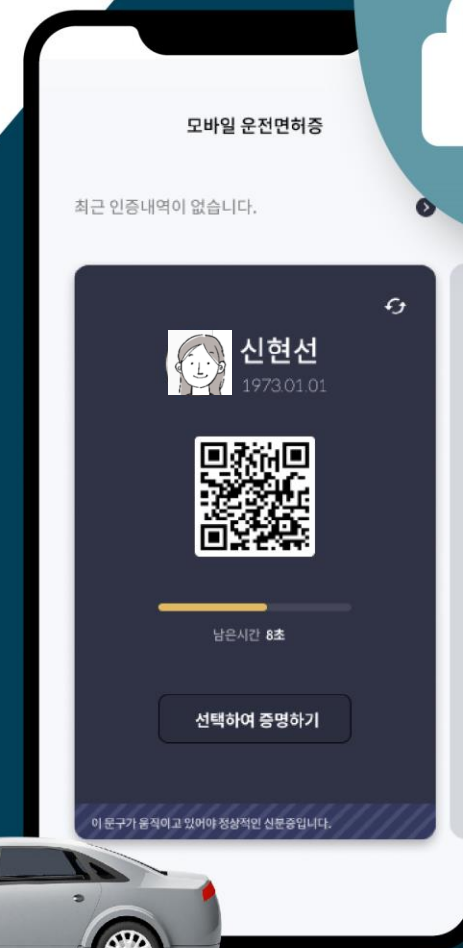
Korea's Mobile Driver's License

2022. 6.

Creating Trust & Value

KOMSCO

Korea Minting, Security Printing &
ID Card Operating Corp.



Mobile ID

Contents



I KOMSCO at a glance

II Understanding of Mobile ID

III Korea's MDL & Use Cases

IV Expected Values

I KOMSCO at a glance

Who are we?



About KOMSCO

[Background]

70 years

State-owned enterprise with a long tradition

50 years

Experience in exporting Banknotes, Coins, NIDs, Passports, Security inks, etc.

1400 people

Seasoned workforce with comprehensive knowledge

What KOMSCO provides ...

[Business portfolio]

Security Printing



Mintage



Security Paper & Inks



ID Products



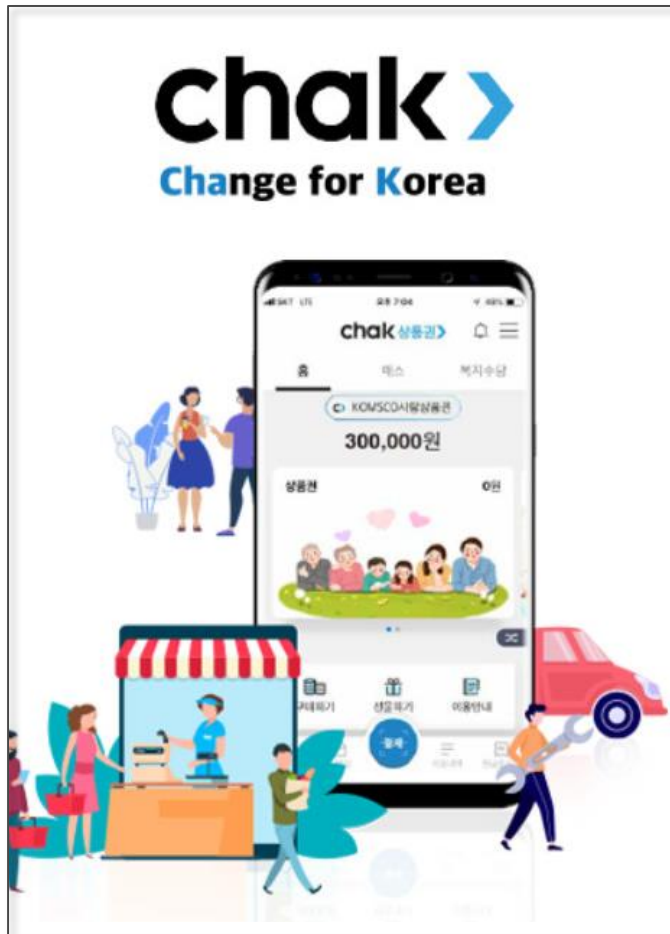
And... Solutions from Core Competencies

[Business portfolio]

Brand Protection

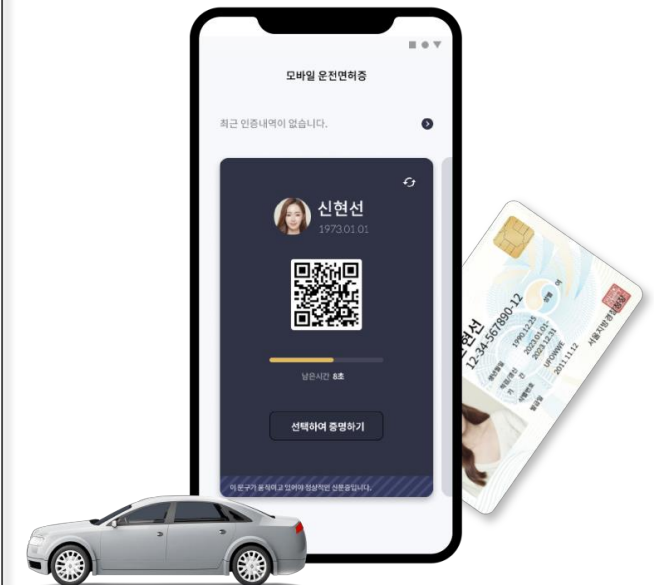


Mobile Payment



Mobile ID

Mobile Driver's License





Understanding of Mobile ID

What is Mobile ID all about?



II-1. Understanding of Korea's ID Concept

Korea's Top 3 ID cards

Resident Registration Card



Issuer



Resident Registration Act

Plastic card

(Forgery prevention technology applied)

Passport



Passport Law

Electronic Passport
with IC Chip(Unique)

Driver's License



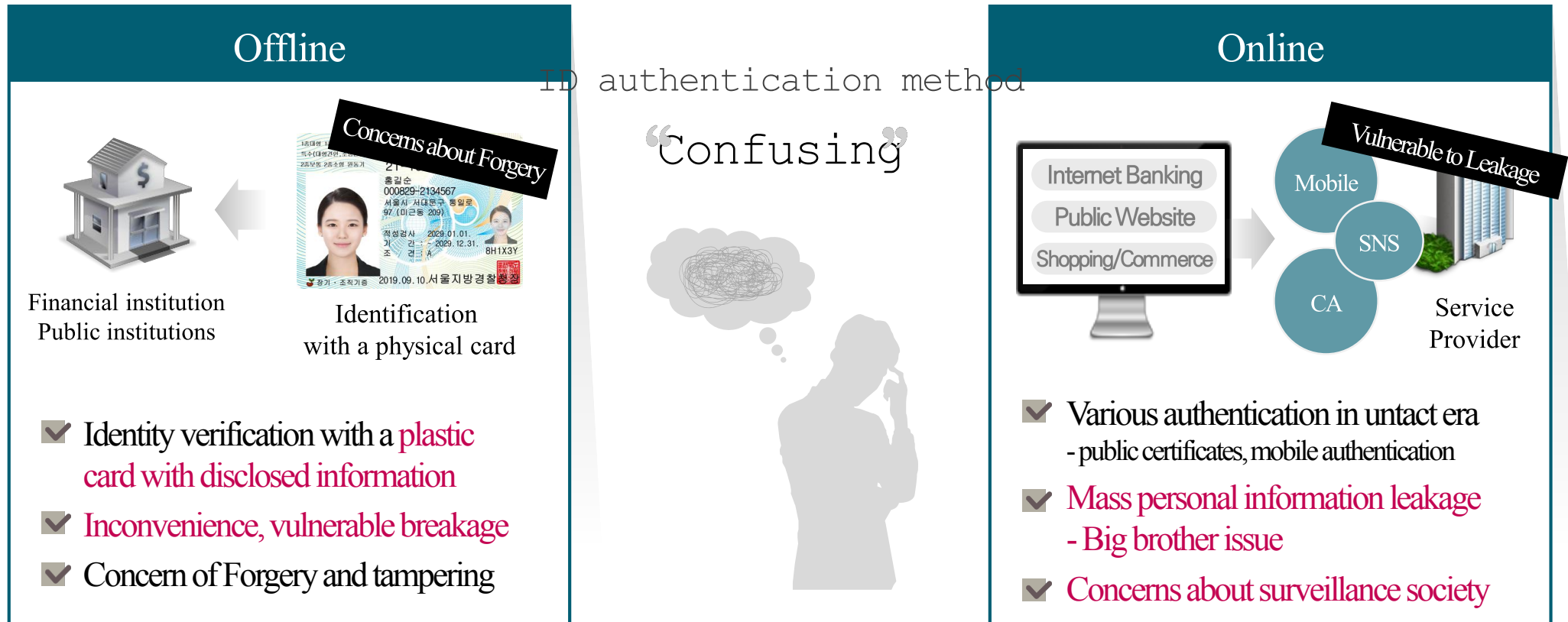
Road Traffic Law

Plastic Card
(Forgery prevention technology applied)

Issued according to the relevant laws and regulations by the government
The state formally certifies an individual's identity

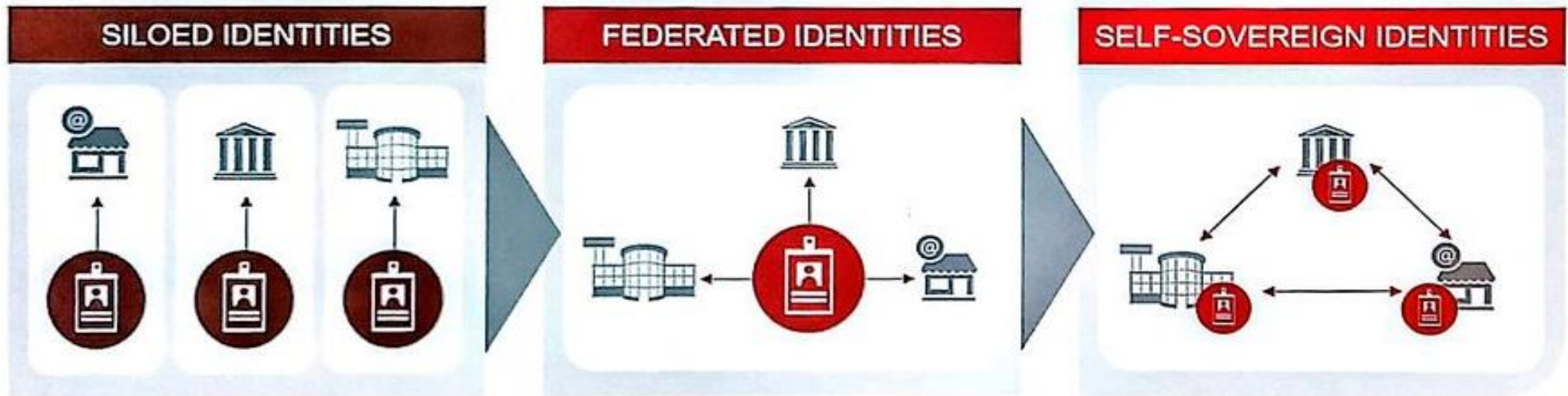
II-1. Understanding of Korea's ID Concept

However, the current identity authentication system is...



Vulnerable to personal information leakage

II-2. Paradigm Shift to Digital ID



Siloed(Centralized)

- Personal information is stored and managed by each service provider by governing the Personal Information Protection Act
- In order to use the service, personal information should be provided. IDs/PWs are different from each service provider and should be maintained by person efforts and the inconvenience of memory
- Still popularly used system

Federated

- Reliable 3rd party authentication method to conquer disadvantages of siloed identities
- OAuth service providers such as Google, Naver, and Kakao are representative.
- As a result, personal information is becoming more centralized, increasing the threat of massive personal information theft attacks, and 3rd party dependence.

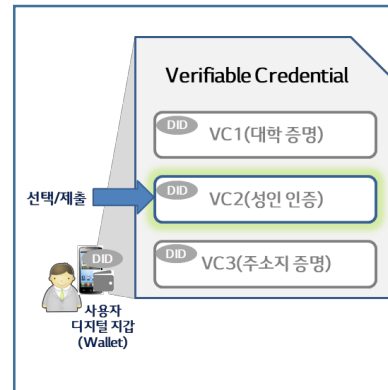
Decentralized

- **Personal information is owned by individuals, not service providers, and used for authentication**
- As the service provider can authenticate **without storing personal information**, only the amount of personal information necessary for the service is stored
- **The duty and right for the handling of personal information** is moved from a service provider to an individual
 - the technical implementation of self-sovereign identity is **DID**(Decentralized ID).

II-3. DID & VC

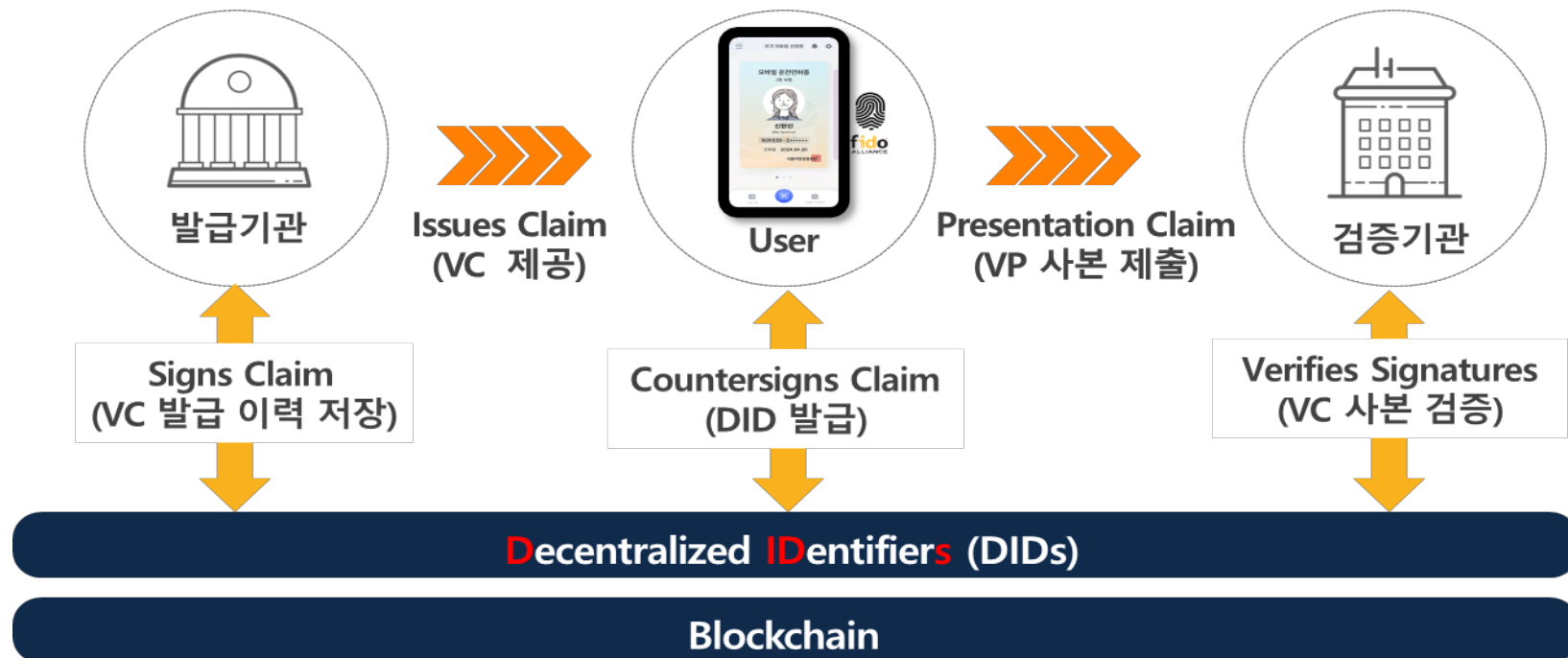
> DID(Decentralized Identity/Identifier)

- DID(identity) is a SSI's technical implementation model and identity information authentication system in which a personal information management entity generates and manages IDs.
- DID(identifier) in a narrow sense is the only identifier in the DID blockchain network.
- Example “did : komsco :3k9dg345adf4958djfik”



> VC(Verifiable Credential)

- VCs include DIDs, details of certified qualification for DID owners, and individuals can own multiple VCs, just like they own several IDs.
- The signature of the agency that issued the VC is included for example adult certification, driver's license, resident card, university graduation certificate, student ID, home address, etc



II-4. Mobile ID: Gov't shall deliver for the digital future...

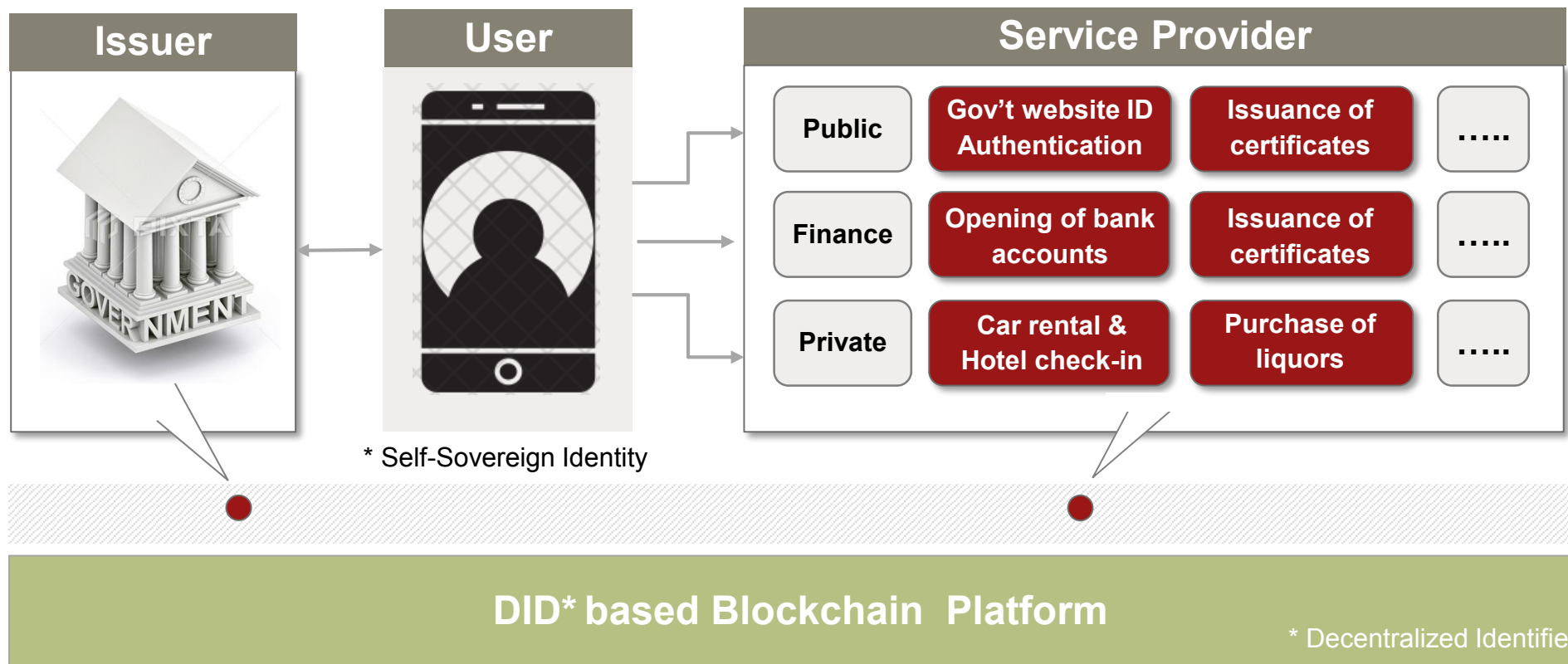
Objectives



- 
- 1 (Citizen) Provide the minimum personal Info online and offline**
 - Self Sovereign Identity enables Users to present and authenticate personal Info
 - 2 (Government) Establish ONE national digital ID platform**
 - Enhance quality of nationwide public services and make better policy decisions
 - 3 (Service Provider) More useful services by guaranteed security**
 - Lessen burden of ID authentication and costs of usage of private certification

Can be **a shortcut** to accelerate digital transformation

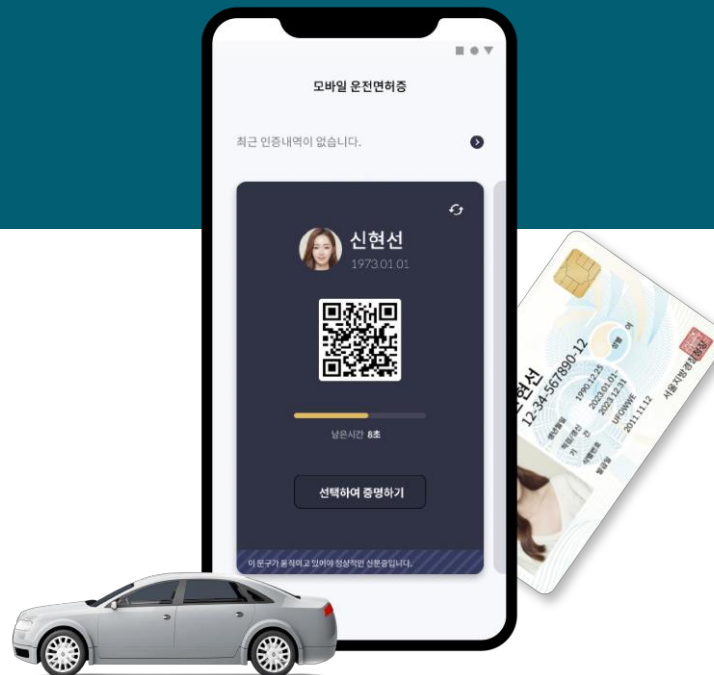
An inclusive solution ONE mobile ID enables citizens to prove who they are online, authenticate to website, confirm transactions, and digitally sign documents





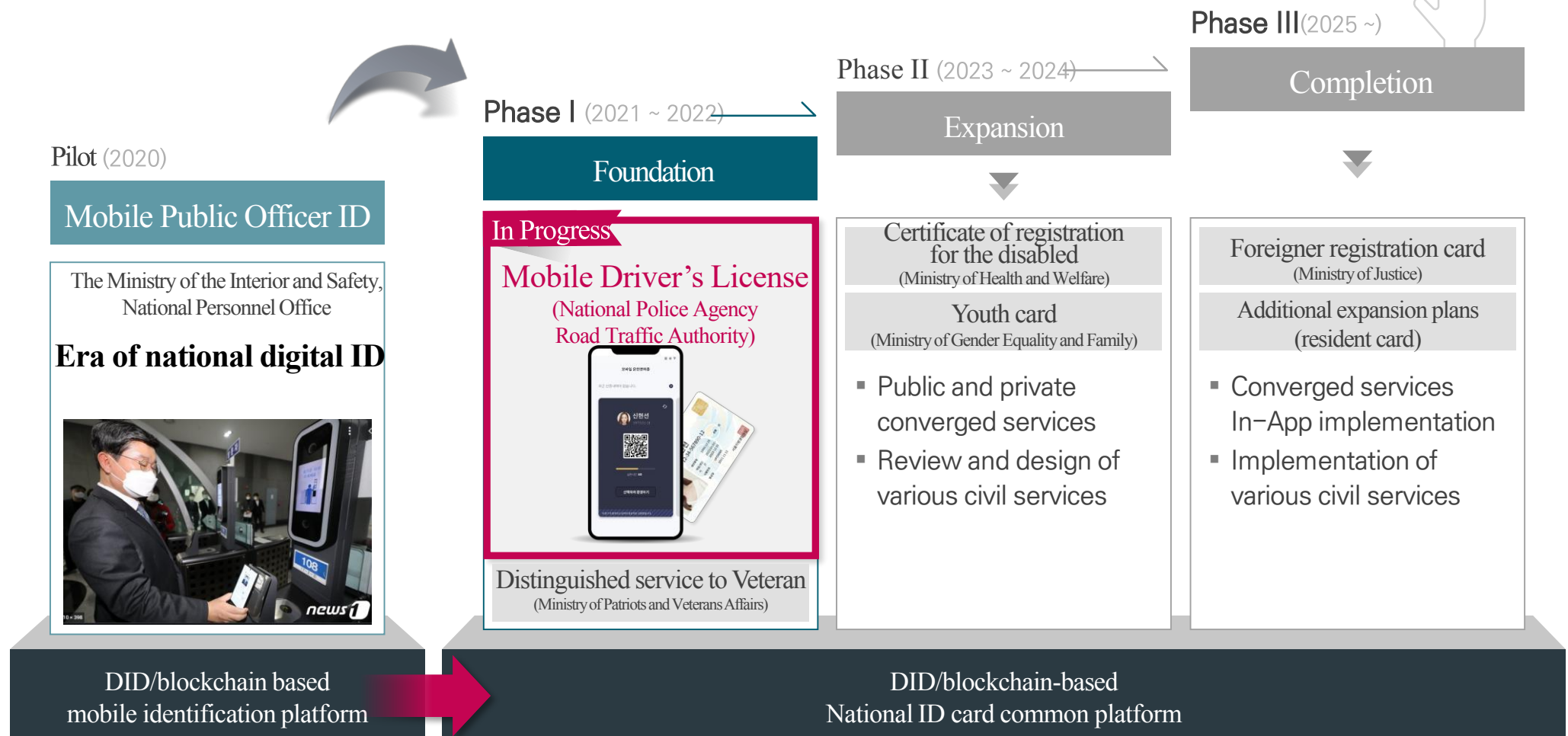
Use case: Korea's Mobile ID projects

What is the progress of the world first national DID reference?



Roadmap for National Digital ID

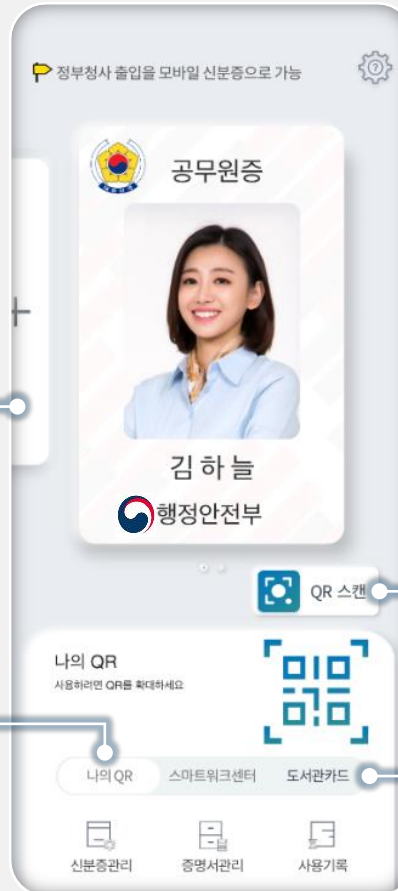
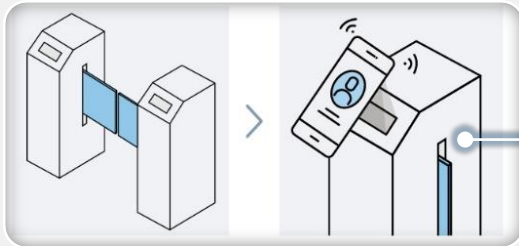
It is the on-going long term journey with phase by phase project.



III-1. Mobile ID of Public Officer



(Entering the government building)



(System Log-in)



Scanning QR

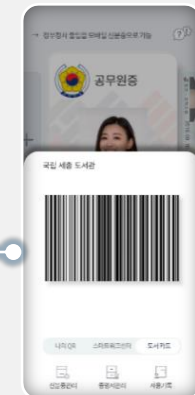


SWC



5G Notebook

Library



III-2. Mobile Driver's License

Identify yourself with your mobile, whatever you want anywhere



Decentralized (DID) Blockchain Platform

Schedule	Jun. 2021.	...	Sept.	...	Dec.	Jan. 2022.	...	July 2022.
Milestone	Starting Project		Development of MDL system		Pilot Operation	▲ Pilot period ⚡ Legal amendment of MDL act		Roll out Nationwide

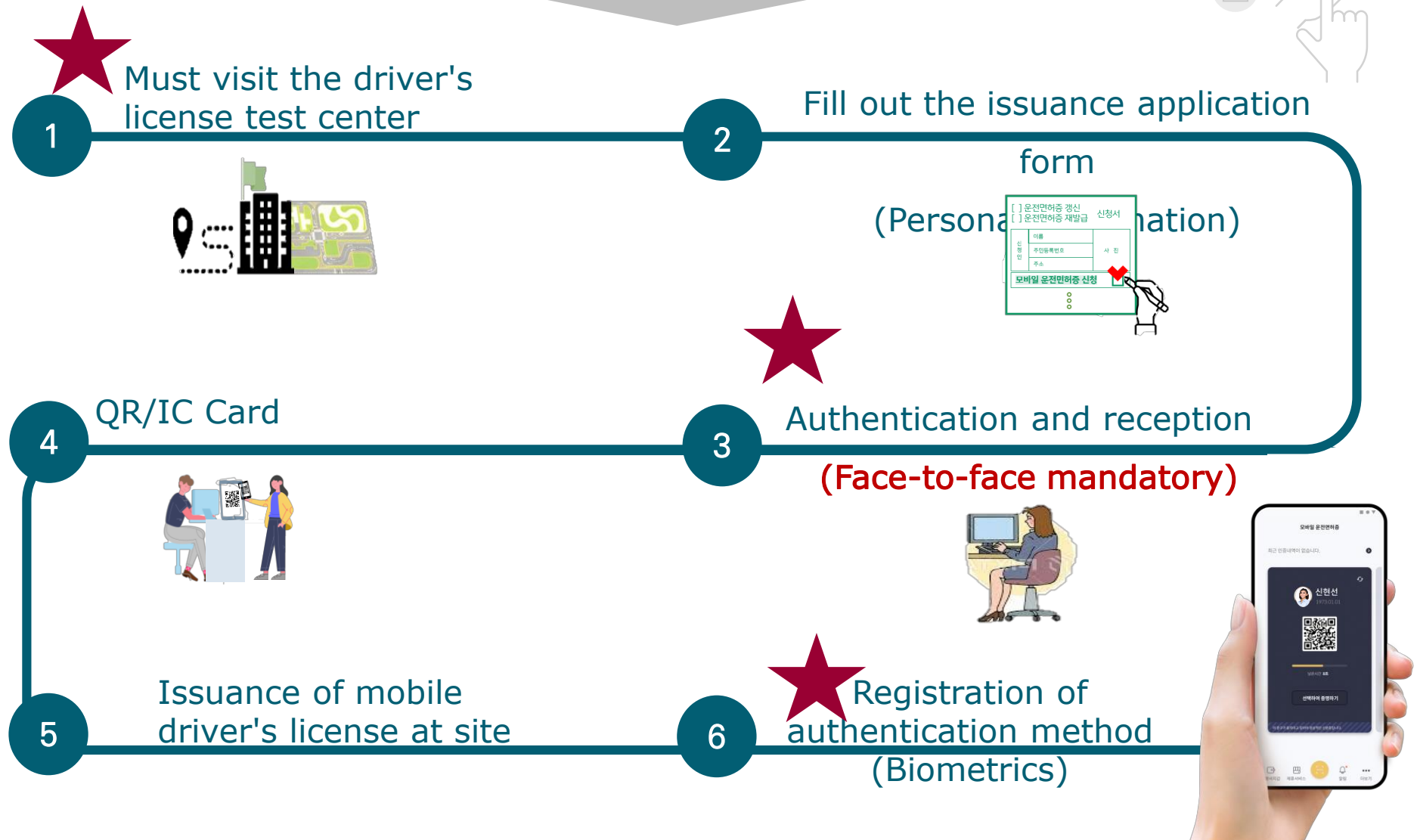
As a national ID,
Guarantee Creditworthiness

Safe and reliable
Establishing a common national platform

Useful and various
Service Expansion for people

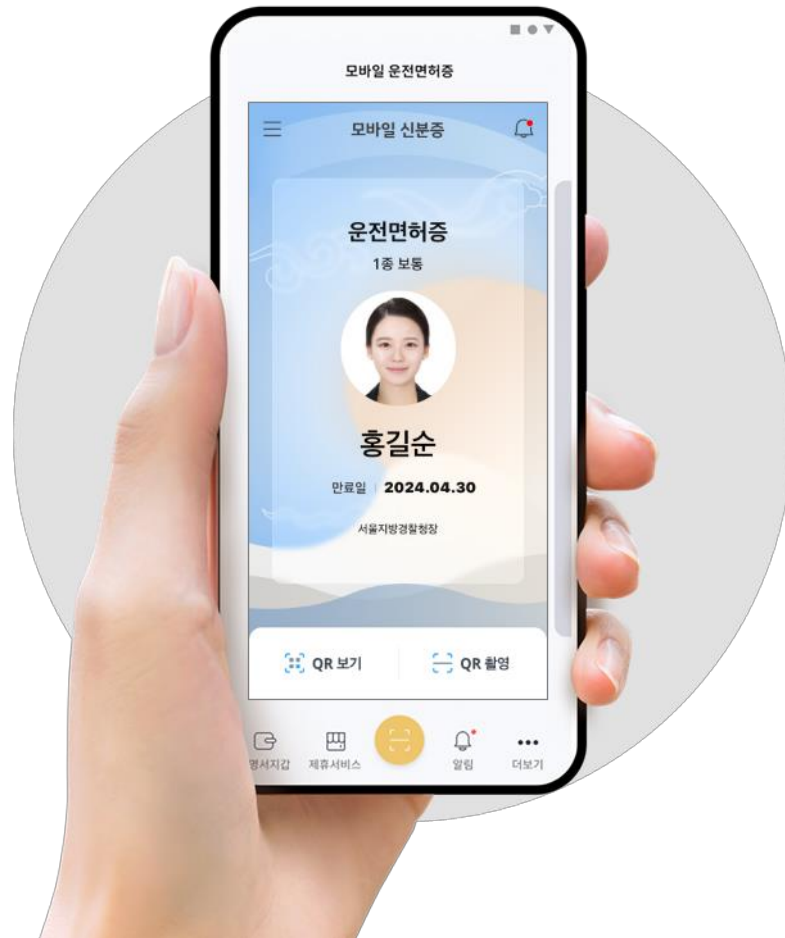
III-3. Major Considerations

How can you trust someone in online? Is DID/Blockchain enough?



III-4. Our final effort, Korea Mobile Driver's License

Mobile Driver's License App



Smart driver's card equipped with the same IC chip as the e-passport

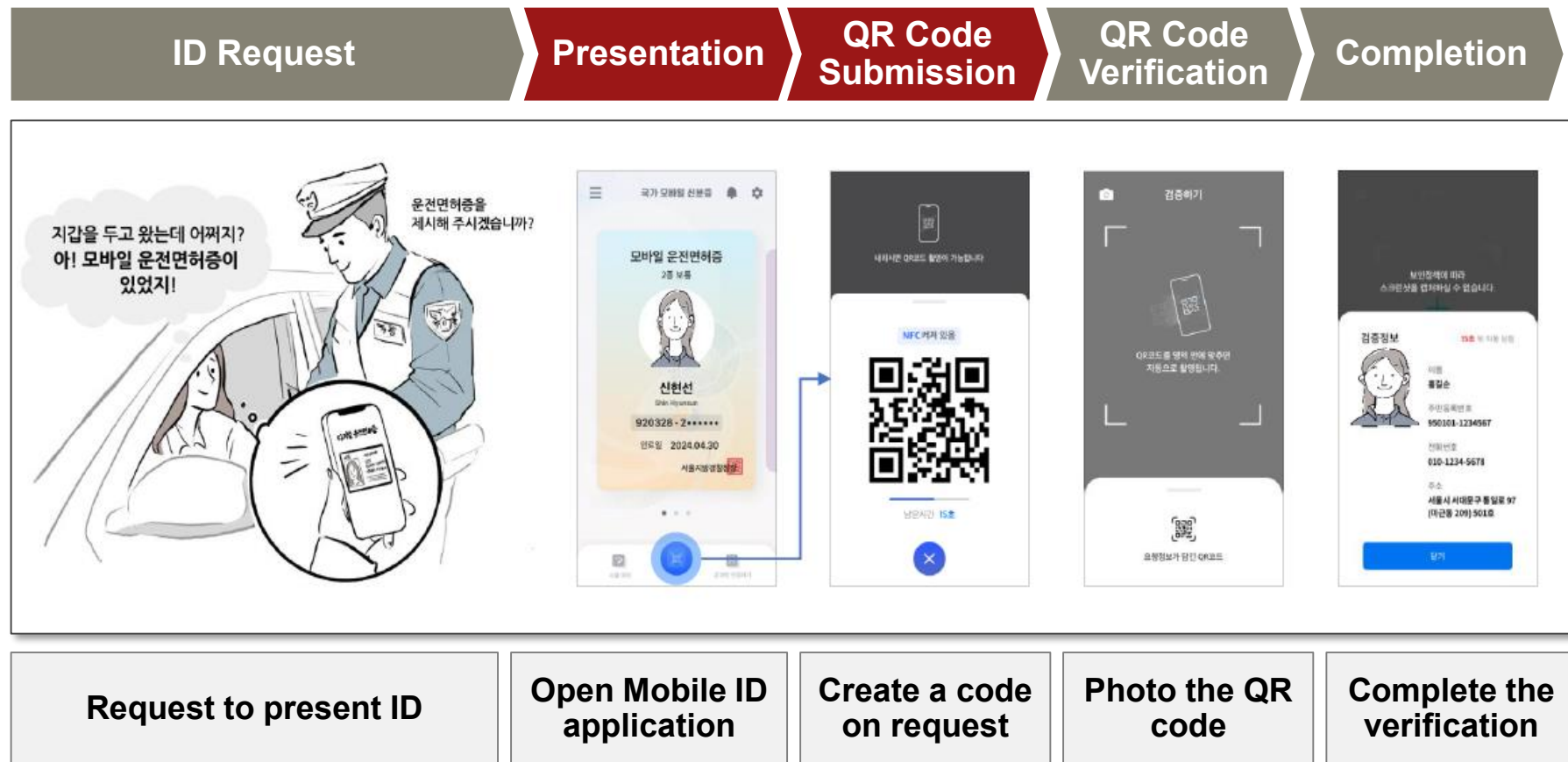


Use Case 1

How does Mobile ID work in real life?

QR Presentation

1 Confirm identification by law enforcement official

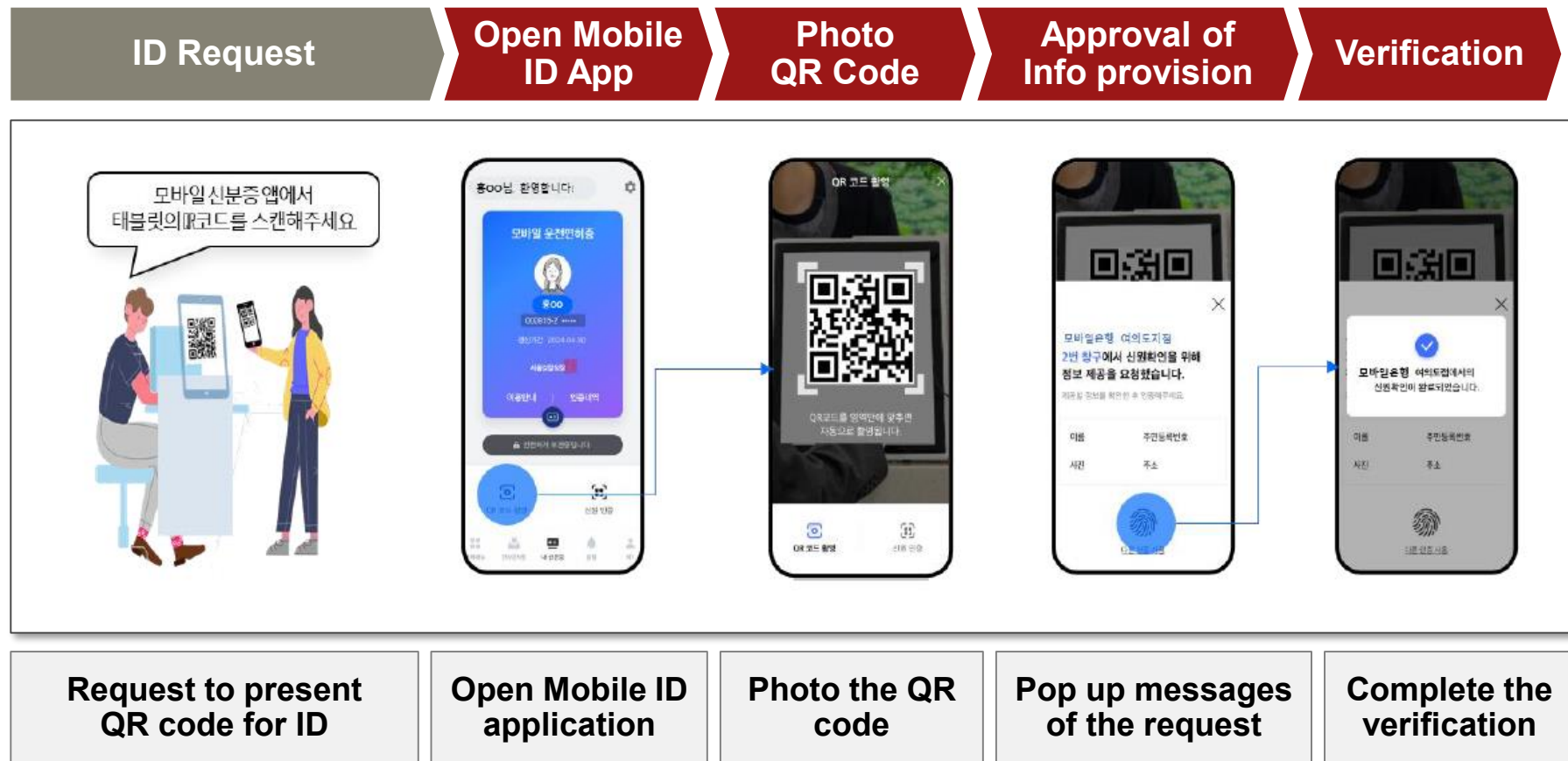


Use Case 2

How does Mobile ID work in real life?

QR Scanning

2 Confirm identification by civil servants at government offices



Request to present QR code for ID

Open Mobile ID application

Photo the QR code

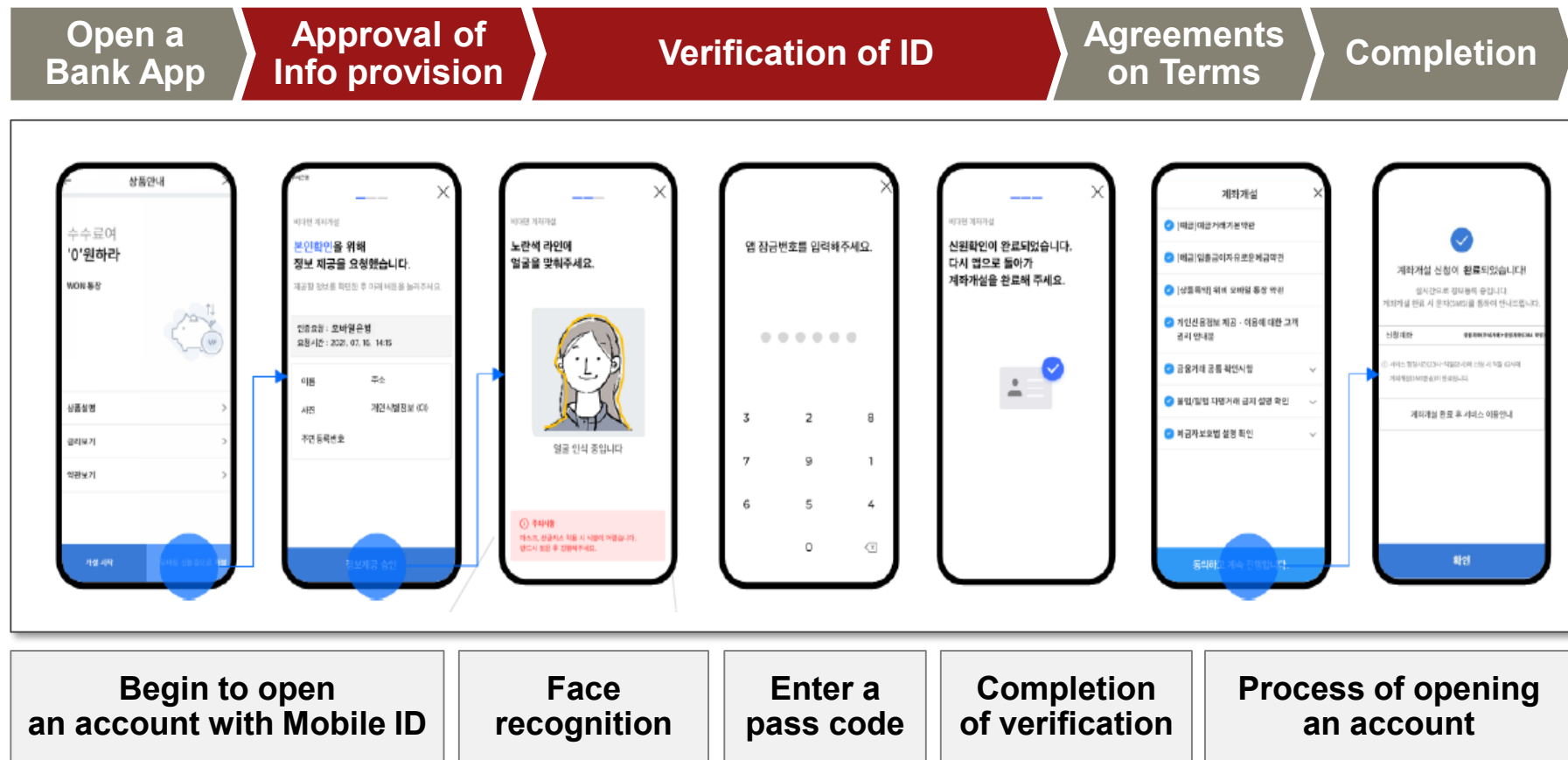
Pop up messages of the request

Complete the verification

Use Case 3

How does Mobile ID work in real life?

3 Open a new bank account by untact



Use Case 4

How does Mobile ID work in real life?

Notification Message

4 Confirm identification on e-government websites

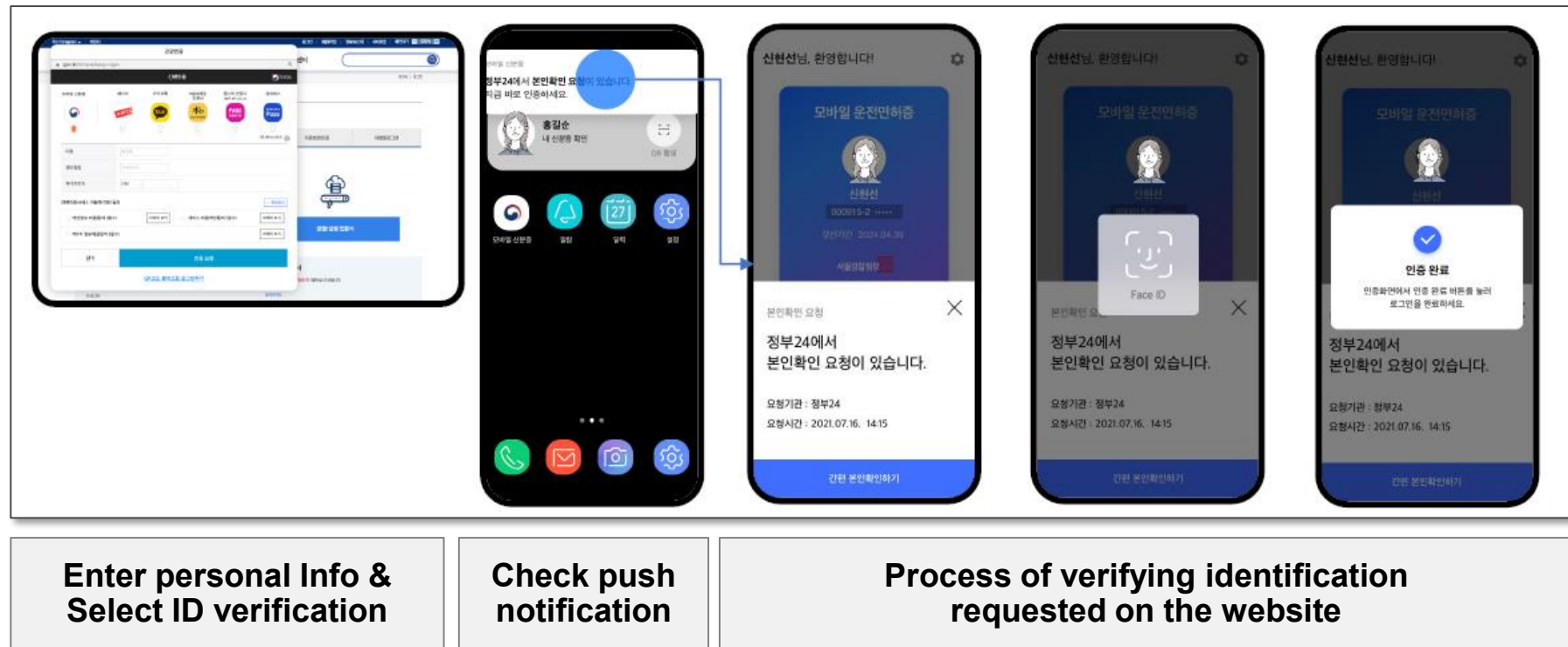
Select a way of ID verification at a website

Push notification

Request of verification

Verification process

Completion

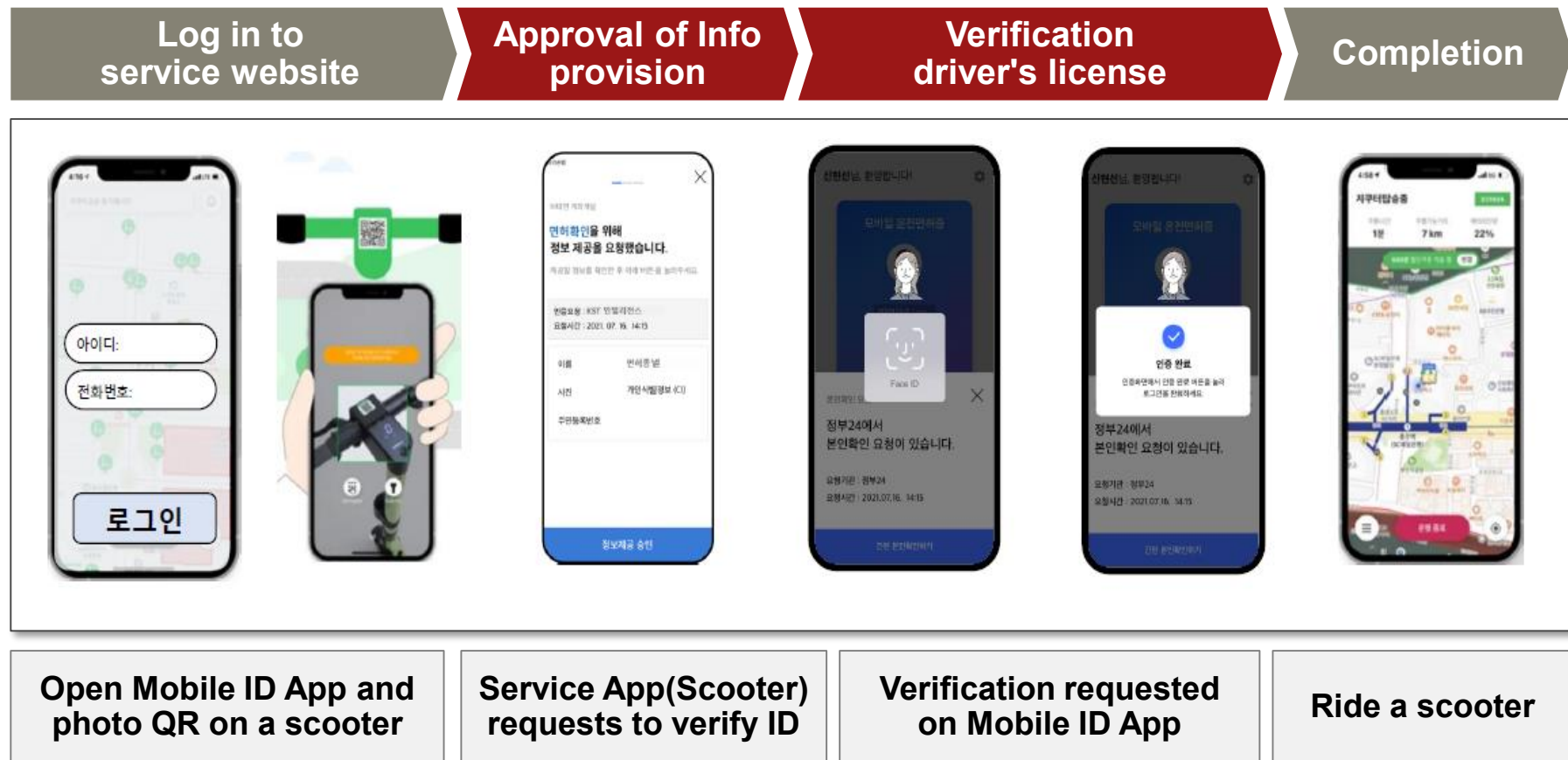


Use Case 5

How does Mobile ID work in real life?

App2App

5 Confirm identification for renting a e-scooter or a car



Open Mobile ID App and photo QR on a scooter

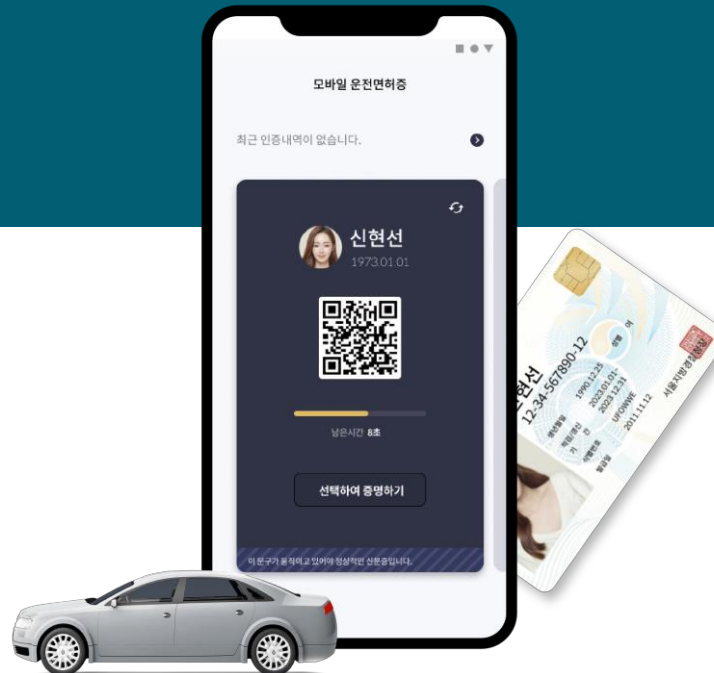
Service App(Scooter) requests to verify ID

Verification requested on Mobile ID App

Ride a scooter

IV

Expected Values & its Ecosystem



Expected Values

When the mobile driver's license are available



Issuer

With a national digital ID common platform

Versatile and Safe



- As a trust national backbone network, it will be jointly used for issuing various ID cards.
- Leading national innovation in the ID authentication system to improve public services and support rational policy decision.

Holder

By having control over personal information with self-sovereign identity

Only Necessary Info.



- Manage my personal information more securely both on & offline
- As a sovereign data, providing minimal information where it is absolutely needed

Verifier

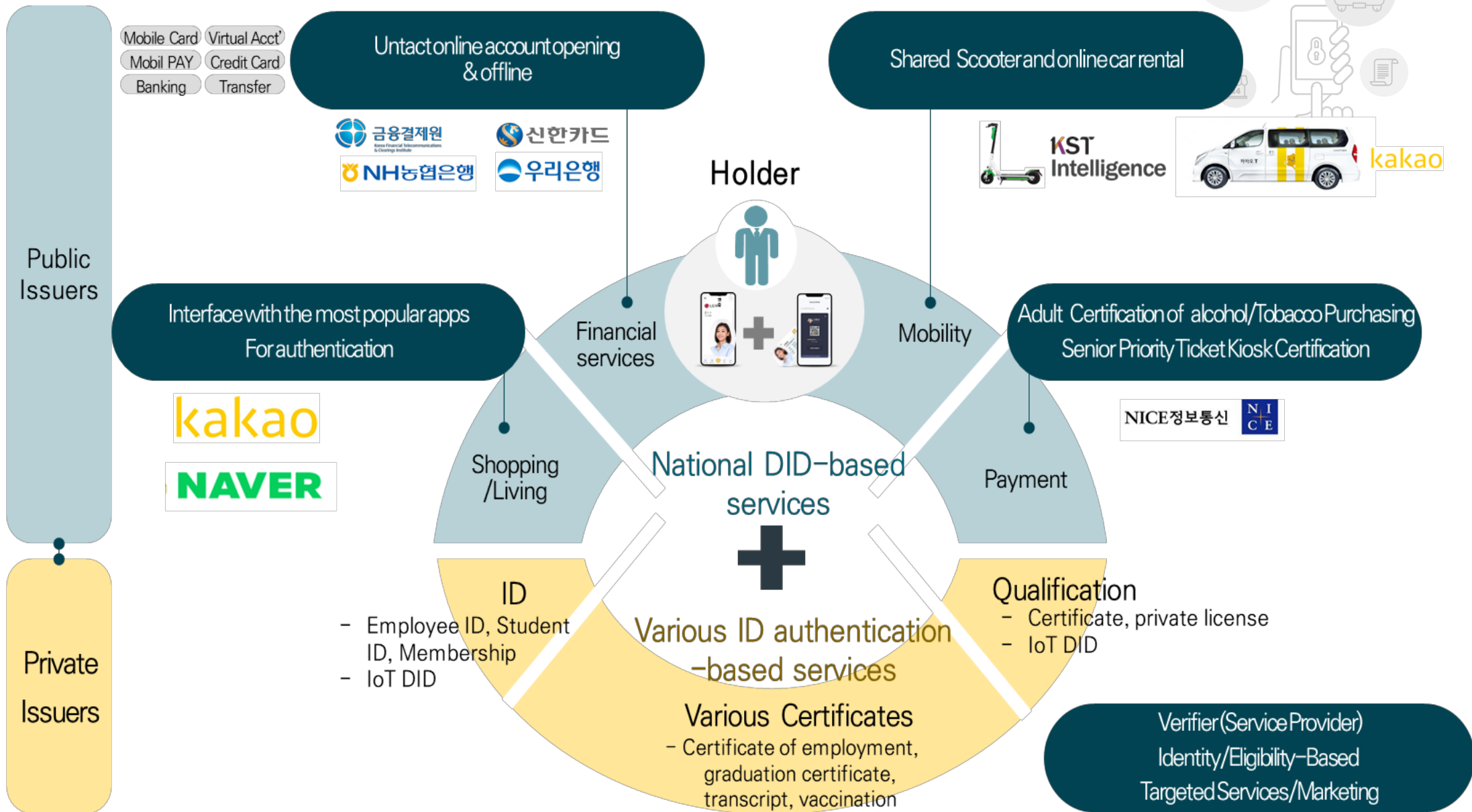
As reliability and security are guaranteed, in various places

more reliable and more useful



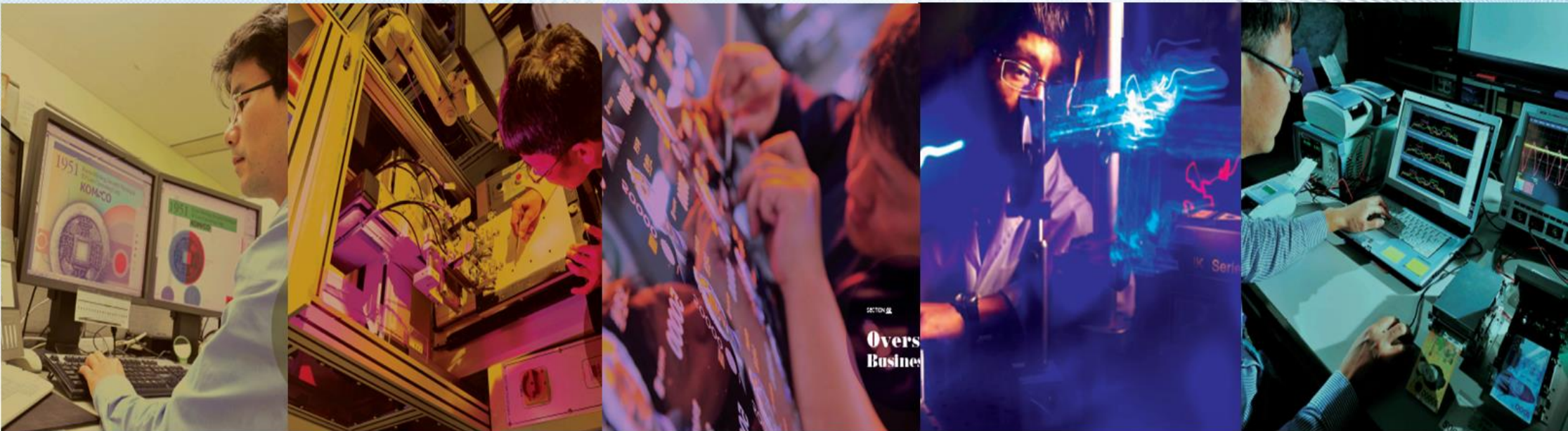
- Reduce the burden of ID verification
- Reducing the burden of certification payment costs
- Easily utilize provided SDK

DID-based Ecosystem



KOMSCO “Creating Value, Connecting Trust”

[Thank you]



HOMEPAGE
www.komsco.com



SHOPPING MALL
www.koreamint.com



f FACEBOOK
facebook.com/komsco



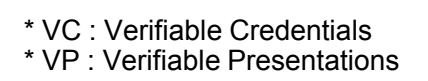
Twitter
twitter.com/komsco



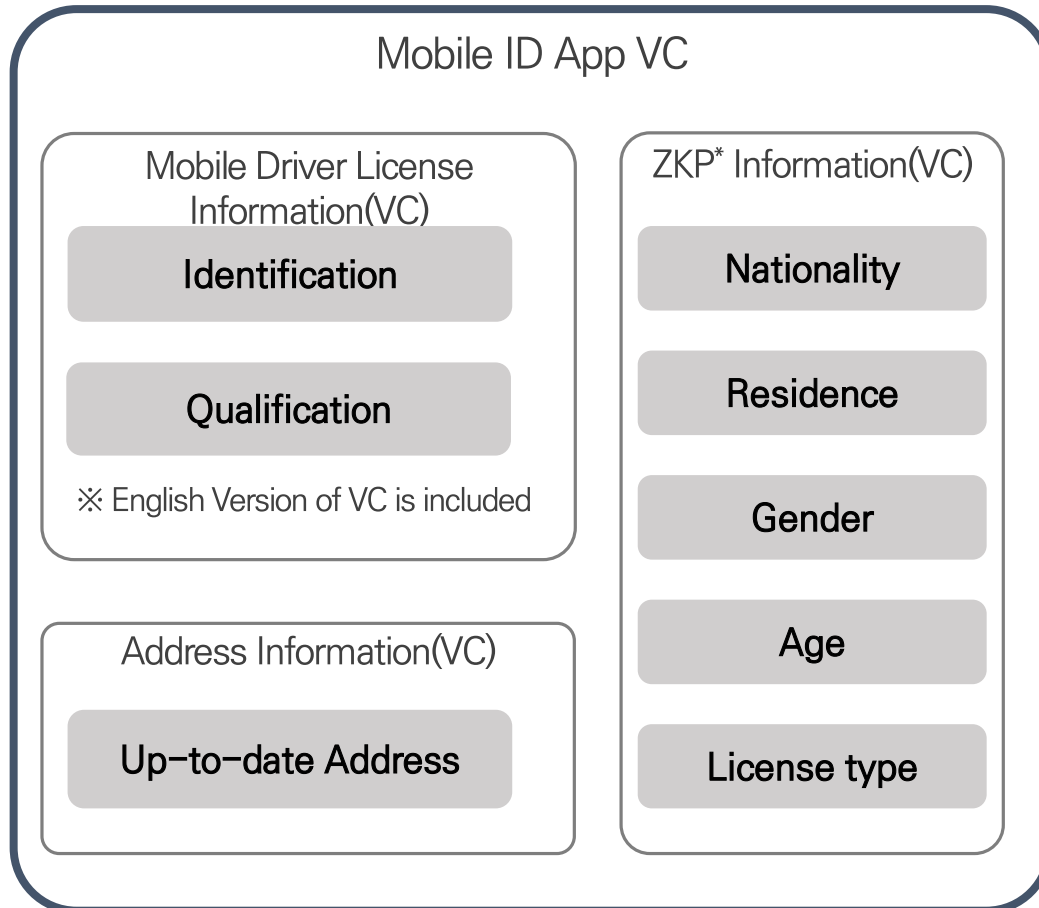
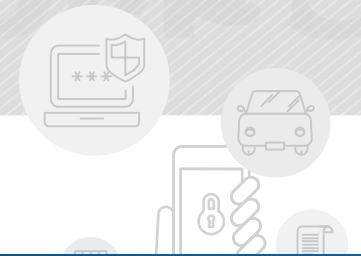
b BLOG
komsco.tistory.com



YOUTUBE
youtube.com/user/prkomsco



[Back-up] VC of MDL

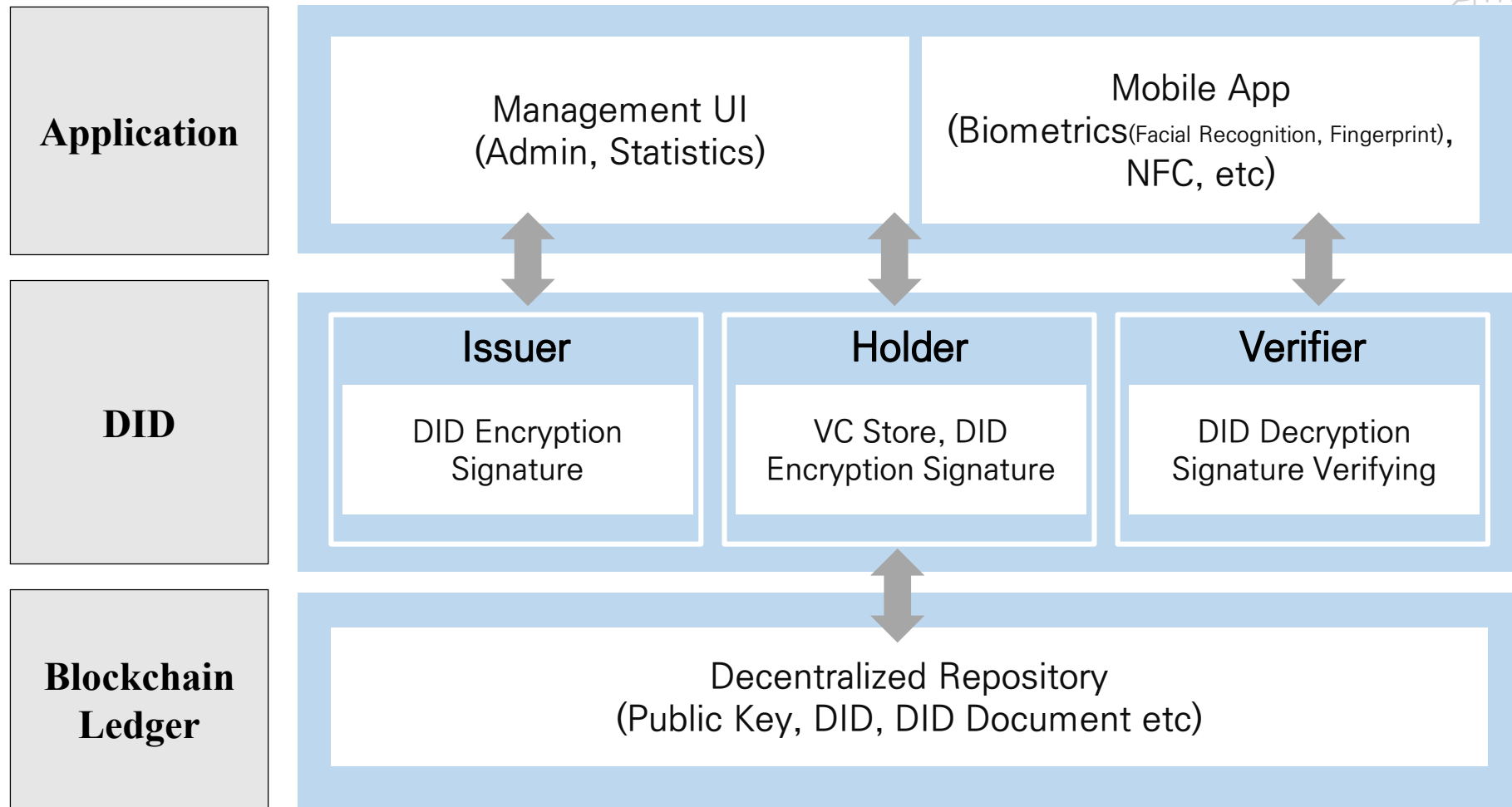


*ZKP: Zero-Knowledge Proof

Implementation Direction

- Driver's License Information(VC)
 - Issued by the National Police Agency by integrating identity VC and qualification VC into one driver's license VC
(Identification, Qualification, Korean and English version)
- ZKP Information VC
 - Submission of use by nationality, residence, gender, age, and license type
- Up-to-date Address (VC)
 - Address VC is issued separately in the name of the National Police Agency in the same way digitally when changing an address
 - Issuance in Korean/English

[Back-up] Blockchain/DID Platform of MDL



Major Considerations



Issuer

- How to secure public credibility of a national ID?
- How to safely store an ID on a personal device?
- How to handle various ID and credentials??

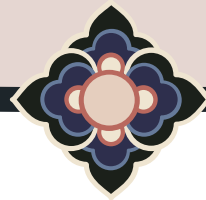
Verifier

- ‘How do I prove ‘I am me’?
- How to secure the legal status of mobile ID?
- How will it spread nationwide?

..... Introduction to Korean Law Information center


Korean Law Information Service

Jeong-hoon Kim, Law Data Innovation Team, **Ministry of Government Legislation**



Contents

.....  **01** Overview of the Korean Law Information Service

.....  **02** Introduction to the Korean Law Information Center

.....  **03** Implementation Results and Overseas Support Cases

01

Overview of the Korean Law Information Service

- ■ 1-1. Implementation Goal
- ■ 1-2. Implementation Progress

1-1. Implementation Goal

Resolving inconvenience caused by laws and regulations as well as responding quickly to changes in the living environment
Guaranteeing the public's right to know about law information by supporting an easy search

Realizing a fair and just **rule of law society**

Supporting **the general public** with no specialized knowledge on laws and regulations to **easily, quickly, and accurately search and utilize law information** without assistance from experts

The service is planned to switch to **an intelligent service centered on real life** in order to overcome the limitations of text-based law information service and to actively respond to changes in the living environment

1-2. Implementation Progress

The law information service centered on current laws and precedents has been expanded to administrative rules, local regulations, and public institution regulations. The service that started as PC communications network has changed and developed into Internet and smartphone apps.

Period	Type	Service Contents
1954 ~ 1998	Paper statute book PC communications network	○ Publication and dissemination of the current statute book (1 postscript per month, 78 books in 1 set)
		○ Text-based current law service through PC communications (1992)
1999 ~ 2007	The Internet	○ Establishing an Internet-based integrated law information center jointly with the Supreme Court ○ Service of providing current laws, historical laws, precedents, etc.
2008 ~ 2011	The Internet	○ Establishing Korean Law Information Center which allows a integrated law information search ○ Service expansion of providing unconstitutional decision cases, legal interpretation cases, administrative adjudication cases , etc. ○ Service of providing links to quotation articles related to law information and other related information
2012 ~ Present	The Internet Smartphone apps	○ Smartphone app service on Korea, law information (IOS and Android) ○ Service expansion of providing administrative rules, self-governing laws and regulations of public institutions
		○ Developing various services , such as: a table of comparison between the upper and lower laws and old and new laws, a dictionary of legal terms, an electronic law book, printing service of laws, and a system of laws/jurisprudence

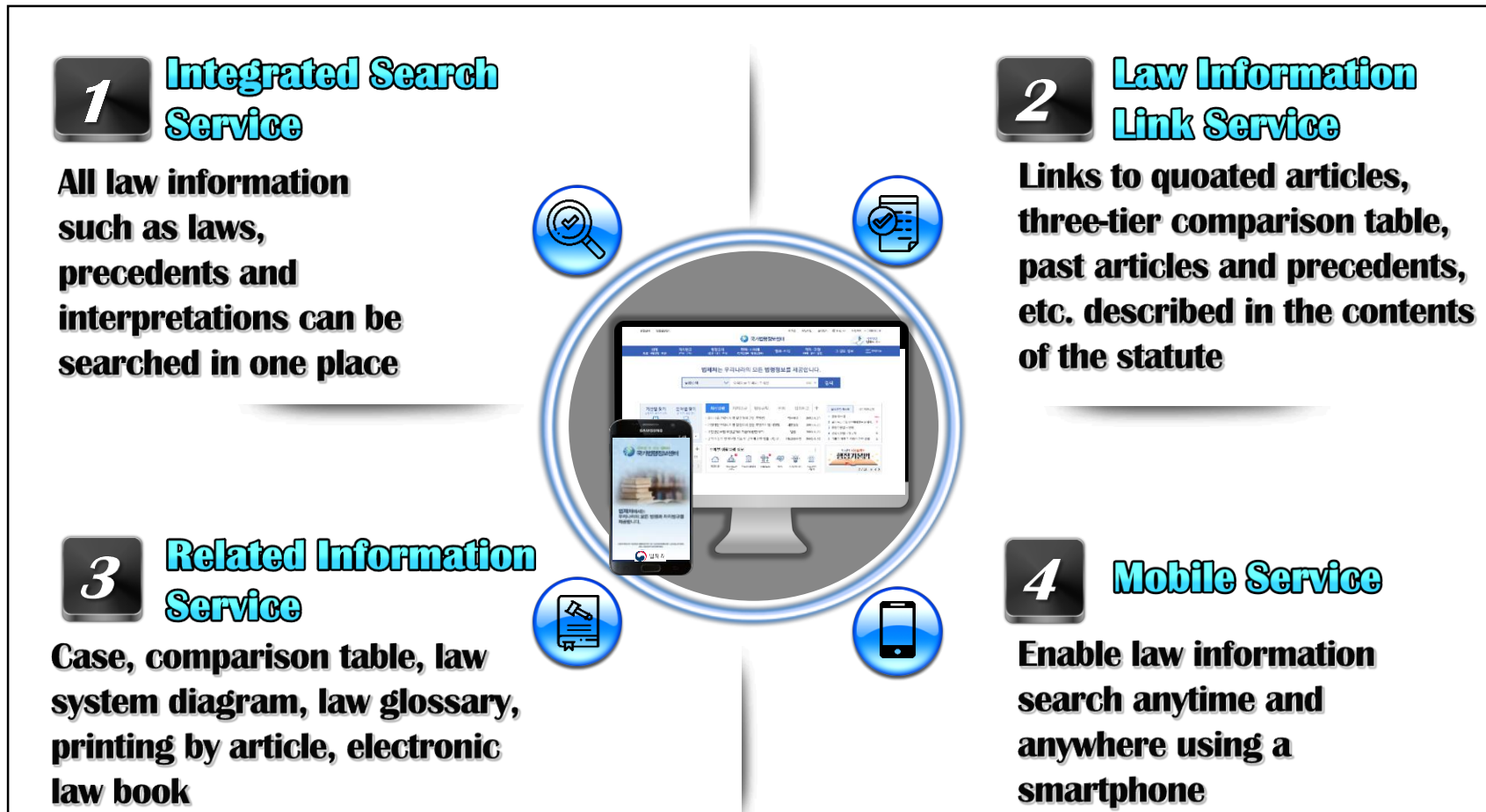
02

Introduction to the Korean Law Information Center

- ■ 2-1. Major Services
- ■ 2-2. Integrated Search Service
- ■ 2-3. Law Information Link Service
- ■ 2-4. Law-related Information Service
- ■ 2-5. Mobile App Service

2-1. Major Services

All law information of Korea can be searched and utilized in one place. It supports searches by field and department as well as supports searches with various keywords such as law name, content and article title.



2-2. Integrated Search Service

All law information of Korea can be searched and utilized in one place. It supports searches by field and department as well as supports searches with various keywords such as law name, content and article title.

The screenshot displays the homepage of the Korean Law Information Center. At the top, there is a navigation bar with links to Laws, Local Regulations, Administrative Rules, Precedents, Interpretations, Attached Tables, public institution regulations, and Other Information. A search bar is prominently featured in the center, labeled 'Integrated Search', with a placeholder text 'Please enter a search term' and a 'Search' button. Below the search bar, there are several sections: 'Search by institution' and 'Search by field' on the left; 'Latest Law' in the center, listing recent legislative updates; 'Real-time search ranking' on the right, showing a list of top search results; and 'Life-related law information by subject' at the bottom, featuring icons for various legal topics like family law, education, and labor. A banner for 'The Ministry of Government Legislation provides all law information in Korea.' is also visible.

Korean Law Information Center

국가법령 만족도 조사

전체메뉴

The Ministry of Government Legislation provides all law information in Korea.

Integrated Search

Please enter a search term

Search

Search by institution

중앙부처

자치단체

Search by field

법 분야

Latest Law

Local Regulation | Administrative Rules | Precedents | pre-announcement of legislation

- 경제자유구역의 지정 및 운영에 관한 특별법 법무부령 2019. 6. 21
- 개발제한구역의 지정 및 관리에 관한 특별조치법 시행령 대통령령 2019. 6. 20
- 국민건강보험 요양급여의 기준에 관한 규칙 법률 2019. 6. 20
- 공직자 등의 병역사항 신고 및 공개에 관한 법률 시행규.. 국토교통부령 2019. 6. 19

Real-time search ranking

- 1 문화재수리 New
- 2 감시적근로종사자에대한적용제외.. ↑
- 3 관광진흥법 시행령 -
- 4 관광진흥법 시행규칙 ↓
- 5 국토의 계획 및 이용에 관한 법률 ↓

Law I searched

This week's ordinance

18 19 20 21 22 23

법률 29 대통령령 19, 부령 2

Life-related law information by subject

- 가정법률
- 아동·청소년 / 교육
- 부동산/임대차
- 근로/노동
- 복지
- 환경/에너지
- 사회안전 / 범죄

행정의 사용설명서 행정기본법

3 / 11

2-2. Integrated Search Service

All law information of Korea can be searched and utilized in one place. It supports searches by field and department as well as supports searches with various keywords such as law name, content and article title.

The screenshot displays the Korea Law Information Center (국가법령정보센터) website. The search bar at the top contains the text "Labor Standards Act". Below the search bar, there are navigation tabs for "Laws", "Local Regulations", "Administrative Rules", "Precedents, Interpretations", "Attached Tables", "Public Institution Regulations", and "Other Information". The "Laws" tab is selected, and the search results are displayed in a table format.

The search results table has the following columns: Law Name, Law Contents, Article Contents, Article Name, Additional Articles, and Revision. The first result is the "Labor Standards Act" (제15513호, 2018. 3. 20., Partially Revised). The second result is the "Labor Standards Act" (제17326호, 2020. 5. 26.).

The "Labor Standards Act" (제15513호, 2018. 3. 20., Partially Revised) is highlighted. The content of the act is displayed below the table, including the title "Labor Standards Act" and the date "[Enforced on 2021. 7. 1.] [No. 15513, 2018. 3. 20., Partially Revised]". The content is organized into sections, including "Main Contents", "Addendum", and "Attached Table/Format".

The "Main Contents" section includes the following items:

- 1. Labor Standards Act [시행 2021. 7. 1.] [법률 제15513호, 2018. 3. 20., Partially Revised]
- 2. Labor Standards Act [시행 2020. 5. 26.] [법률 제17326호, 2020. 5. 26.]
- 3. 근로기준법 시행령 [시행 2020. 3. 3.] [대통령령 제30509호, 2020. 3. 3.]
- 4. 근로기준법 시행규칙 [시행 2020. 1. 31.] [고용노동부령 제281호, 2020. 1. 31.]

The "Addendum" section includes the following items:

- 1. 근로기준법 시행규칙 [시행 2020. 1. 31.] [고용노동부령 제281호, 2020. 1. 31.]
- 2. 근로기준법 시행규칙 [시행 2020. 1. 31.] [고용노동부령 제281호, 2020. 1. 31.]

The "Attached Table/Format" section includes the following items:

- 1. 근로기준법 시행규칙 [시행 2020. 1. 31.] [고용노동부령 제281호, 2020. 1. 31.]
- 2. 근로기준법 시행규칙 [시행 2020. 1. 31.] [고용노동부령 제281호, 2020. 1. 31.]

The "Article Contents" section includes the following items:

- 1. 제18조(단시간근로자의 근로조건) ① 단시간근로자의 근로조건은 그 사업장의 같은 종류의 업무에 종사하는 통상 근로자의 근로시간을 기준으로 산정한 비율에 따라 결정되어야 한다.
- 2. 제19조(근로조건의 위반) ① 제17조에 따라 명시된 근로조건이 사실과 다를 경우에 근로자는 근로조건 위반을 이유로 손해의 배상을 청구할 수 있으며 즉시 근로계약을 해제할 수 있다.
- 3. 제20조(위약 예정의 금지) 사용자는 근로계약 불이행에 대한 위약금 또는 손해배상액을 예정하는 계약을 체결하지 못한다.

2-3. Law Information Link Service – Quoted articles

To find or understand law easily, the system provides a quoted article described in the contents of the law, a link service to the history of articles and precedents, and a three-tier comparison table (Law-Enforcement Decree-Enforcement Rules), etc.

The screenshot displays the Korean Law Information Center interface. The top navigation bar includes links like 'Main Contents', 'Reason for Enactment/Revision', 'Additional Table Format', 'History', '3-tier Comparison', 'Comparison of Old and New Laws', 'Law System Diagram', and 'Comparison of Laws'. On the right, there are search and document management buttons.

The main content area shows the 'Labor Standards Act' with a focus on 'Article 43 (Payment of Wages)'. A red dashed box highlights the article title and its first paragraph. A red arrow points from the title to the first paragraph. Another red dashed box highlights the phrase '대통령령으로 정하는 임금' (wages prescribed by Presidential Decree), with a red arrow pointing to it from a callout box that says 'wages prescribed by Presidential Decree'. A hand icon points to this callout box.

Below the article text, there is a section for 'Enforcement Decree of the Labor Standards Act' with a link to 'Article 43 (2) of the Act'. A red dashed box highlights this section and the link. A red arrow points from the '대통령령으로 정하는 임금' phrase to the 'Article 43 (2) of the Act' link.

The interface also shows a list of related articles and a search bar.

2-3. Law Information Link Service – Comparison with past articles, precedents, etc.

To find or understand law easily, the system provides a quoted article described in the contents, a link service to the history of articles and precedents, and a three-tier comparison table (Law-Enforcement Decree-Enforcement Rules), etc.

Article 18 (Terms and Conditions of Employment of Part-Time Employees)

제18조(단시간근로자의 근로조건) ① 단시간근로자의 근로조건은...

② 제1항에 따라 근로조건을 결정할 때에 기준이 되는 사항이나 그...

제19조(근로조건의 위반) ① 제17조에 따라 명시된 근로조건이 사...

② 제1항에 따라 근로자가 손해배상을 청구할 경우에는 노동위원회...

제20조(위약 예정의 금지) 사용자는 근로계약 불이행에 대한 위약금...

제21조(전차금 상계의 금지) 사용자(前借金)이나 그 밖의...

제22조(강제 저금의 금지) ① 사용자는 근로계약에 덧붙여 강제 저...

② 사용자가 근로자의 위탁으로 저축을 관리하는 경우에는 다음 각...

1. 저축의 종류·기간 및 금융기관을 근로자가 결정하고, 근로자 본...

2. 근로자가 저축증서 등 관련 자료의 열람 또는 반환을 요구할 때에...

Labor Standards Act

[시행 2021. 7. 1.] [법률 제15513호, 2018. 3. 20., 일부개정]

Labor Standards Act 2007. 4. 11.	Labor Standards Act 2008. 3. 21.
<p>제18조 (단시간근로자의 근로조건) ① 단시간근로자의 근로조건은 그 사업장의 다른 종류의 업무에 종사하는 통상 근로자의 근로시간을 기준으로 산정하되, 비율에 따라 결정되어야 한다.</p> <p>② 제1항에 따라 근로조건을 결정할 때에 기준이 되는 사항이나 그 밖에 필요한 사항은 대통령령으로 정한다.</p> <p>③ 1주 동안의 소정근로시간에 뚜렷하게 짧은 단시간근로자로써 대통령령으로 정하는 자에 대하여는 이 법의 일부 규정을 대통령령으로 정하는 바에 따라 적용하지 아니할 수 있다.</p>	<p>제18조(단시간근로자의 근로조건) ① 단시간근로자의 근로조건은 그 사업장의 다른 종류의 업무에 종사하는 통상 근로자의 근로시간을 기준으로 산정하되, 비율에 따라 결정되어야 한다.</p> <p>② 제1항에 따라 근로조건을 결정할 때에 기준이 되는 사항이나 그 밖에 필요한 사항은 대통령령으로 정한다.</p> <p>③ 4주 동안(4주 미만으로 근로하는 경우에는 그 기간)을 평균하여 1주 동안의 소정근로시간이 15시간 미만인 근로자에 대하여는 제55조와 제60조를 적용하지 아니한다. <개정 2008.3.21></p>

Article 18 (Working Hours of Full-time Employees)

제18조(단시간근로자의 근로조건) ① 단시간근로자의 근로조건은 그 사업장의 다른 종류의 업무에 종사하는 통상 근로자의 근로시간을 기준으로 산정하되, 비율에 따라 결정되어야 한다.

② 제1항에 따라 근로조건을 결정할 때에 기준이 되는 사항이나 그 밖에 필요한 사항은 대통령령으로 정한다.

③ 1주 동안의 소정근로시간에 뚜렷하게 짧은 단시간근로자로써 대통령령으로 정하는 자에 대하여는 이 법의 일부 규정을 대통령령으로 정하는 바에 따라 적용하지 아니할 수 있다.

Labor Standards Act, Article 18 (Working Hours of Full-time Employees)

Upper and Lower Laws | **Precedents** | Current decisions | Law Interpretation | Administrative Judgment Cases | Examples of opinions

판례 총49건(1/5)

부당해고구제신청정회소 [서울행정법원 2015. 11. 12., 선고, 2015구합57727, 판결 : 항소]

甲 재단법인의 바이올은 자문 단원인 乙, 동이 乙의 주주 부당해고 구제신청을 하여 인용되자, 甲 법인이 중앙노동위원회에 재심을 신청하였다가 기각되었다.

... [대법원 2011. 10. 13., 선고, 2009다22001]

[1] 대법원의 의미와 정당성 판단 기준

[2] 상여금이 임금에 해당하기 위한 요건

[3] 사용자가 근로자에게 지급한 보로금이 임금에 해당하는지 문제된 사안에서, 보로금은 매년 경영성과에 따라 노사합의를 통해 지급 여부나 지급 기준 등이 정해졌으므로 평균임금 산정의 기초가 되는 임금에 해당하지 않는다고 본 원심판단을 정당하다고 한 사례

[4]

Total 49 precedents(1/5)

2-3. Law Information Link Service – Comparison of articles of upper and lower laws

To find or understand law easily, the system provides a quoted article described in the contents of the law, a link service to the history of articles and precedents, and a three-tier comparison table (Law-Enforcement Decree-Enforcement Rules), etc.

The screenshot displays the Korean Law Information Center interface. The top navigation bar includes links for Law Name, Law Texts, Article Contents, Article Name, and Additional Articles. The main content area shows the Labor Standards Act, with a sidebar on the left listing various articles and a table of contents. The main text area displays the full text of Article 18 (Restrictions on Dismissal for Managerial Reasons) and Article 19 (Reporting on Layoff Plan on Grounds of Business Management). A red dashed line highlights the '3-tier Comparison' link in the top navigation bar, which points to a comparison table at the bottom of the page.

Labor Standards Act	Enforcement Decree Of The Labor Standards Act	Enforcement Rules of the Labor Standards Act
Article 24 (Restrictions on Dismissal for Managerial Reasons) 경영상 이유에 의하여 근로자를 해고하려면 긴박한 경영상의 필요가 있어야 한다. 이 경우 경영 악화를 방지하기 위한 사업의 양도·인수·합병은 긴박한 경영상의 필요가 있는 것으로 본다. ② 제1항의 경우에 사용자는 해고를 피하기 위한 노력을 다하여야 하며, 합리적이고 공정한 해고의 기준을 정하고 이에 따라 그 대상자를 선정하여야 한다. 이 경우 남녀의 성을 이유로 차별하여서는 아니 된다.	Article 10 (Reporting on Layoff Plan on Grounds of Business Management) 제24조제4항에 따라 사용자는 1개월 동안에 다음 각 호의 사항에 대하여 근로위원회에 신고하여야 한다. <개정 2010. 7. 12.> 1. 상시 근로자수가 99명 이하인 사업 또는 사업장 : 10명 이상 2. 상시 근로자수가 100명 이상 999명 이하인 사업 또는 사업장 : 상시 근로자수의 10퍼센트 이상	Article 3 (Reporting of Dismissal Plan for Managerial Reasons) In accordance with Article 10 of the Enforcement Decree In accordance with Article 24 (3) of the Act 근로위원회에 신고하여야 한다. <개정 2010. 7. 12.>

2-4. Law-related Information Service – Information map for law/precedents

In order for you to easily search and understand the entire contents of law, the system provides a tree form of a complete list of related laws, presidential ordinances, ministerial ordinances, administrative rules, local regulations and precedents

Law Info Map

Upper and lower laws,
administrative rules,
precedents, etc.

The screenshot shows the 'Law System Diagram' interface. At the top, it displays the URL 'https://www.law.go.kr/LSW/lsStmInfoP.do?lsiSeq=228483&ancYnChk=0'. Below the title bar, there are navigation tabs: 'Law System Diagram', 'Road Traffic Act', 'Upper and lower laws', 'Old and new laws', 'Precedents', 'Current decisions', 'Law Interpretation', and 'Administrative Judgments'. A red box highlights the 'Upper and lower laws' tab. The main content area shows a tree structure of laws, with '도로교통법' (Road Traffic Act) selected. The tree includes sub-items like '시행령' (Regulations), '시행규칙' (Administrative Rules), and '자치법규' (Local Regulations).

Precedent System Diagram

공무집행방해·폭력행위등처
[대법원 2014. 11.]

Precedent system diagram | Similar Cases | Current decisions
Law Interpretation | Administrative judgment

원심판결

참조판례

참조조문

법률 제12898호, 2014. 12. 30., 일부개정

제37조(籠舍犯)

법률 제12899호, 2014. 12. 30., 일부개정

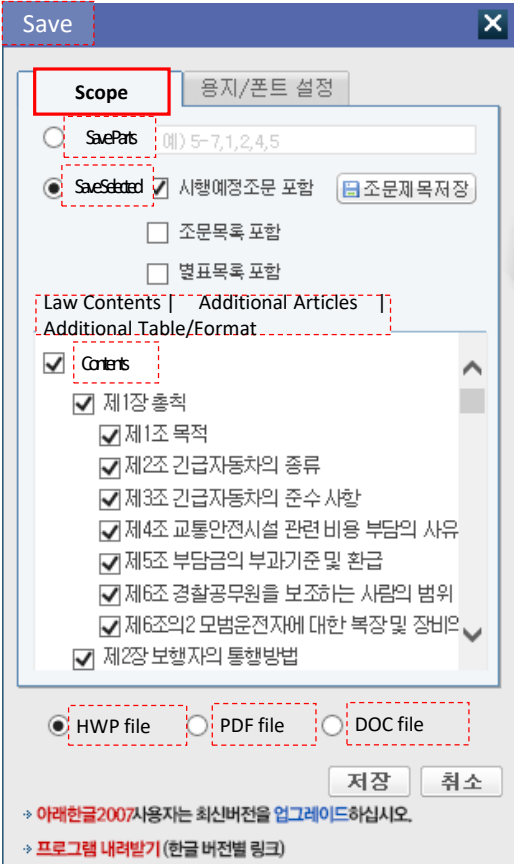
제439조(不利益變更의 禁止)

Precedent Info Map

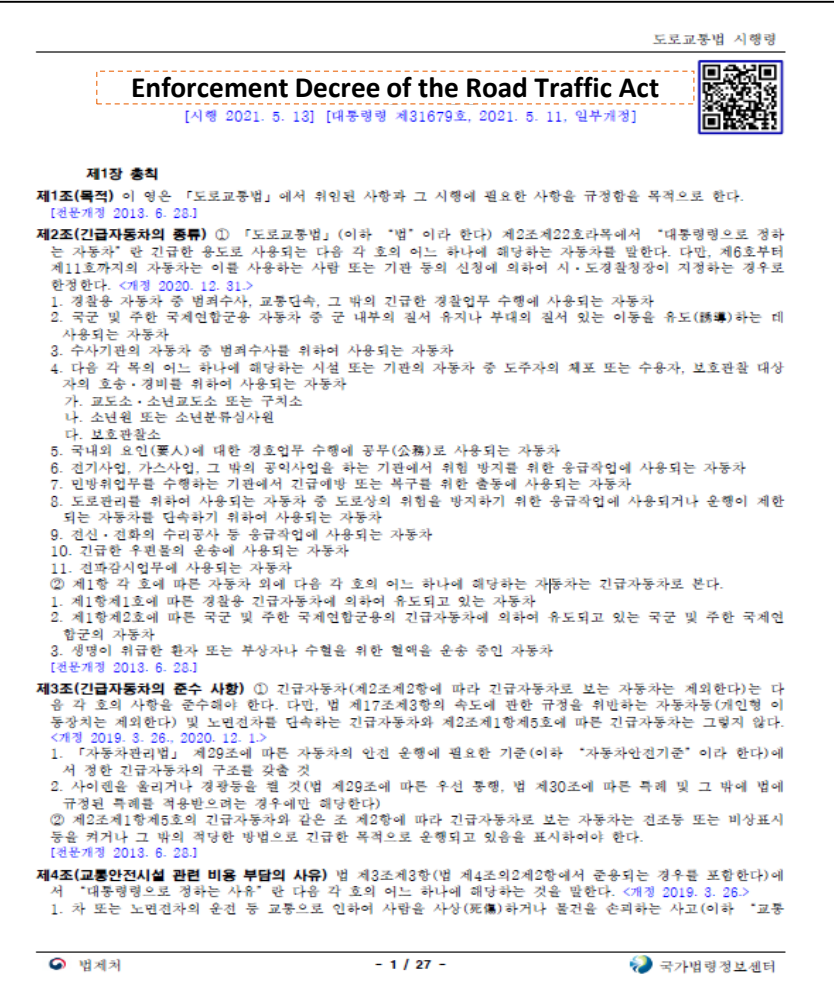
Reference articles, similar
precedents, response cases, etc.

2-4. Law-related Information Service – Selective article printing

Supporting for saving or printing the entire contents of laws or selected articles in various formats (*.pdf, *.doc, *.hwp) without additional editing




Select and save/print per article



2-5. Law Information Mobile App Service


Supporting for saving or printing the entire contents of laws or selected articles in various formats (*.pdf, *.doc, *.hwp) without additional editing




Korea Law Information Center

The Ministry of Government Legislation provides all laws and local regulations of Korea.

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국가법령정보센터

Enter the keyword or law name

Search

法 Laws	Administrative Rule	Local Regulations	Public Institution Regulations
Examples of Opinions	Precedents	Current Decision	Law Interpretation
Administrative Judgment	Treaty	Laws in English	Additional Table, Format

개정알림에일신청 불판법령신고센터 내가찾은법령 입법예고

실시간 검색순위 이번주 시행법령


공공기관 규정 통합 제공!

공공기관의 정관·법령 위임규정을 국가법령정보센터에서 쉽게 확인하세요

Latest Law Information

법령 행정규칙 판례 자치법규

Act on the Restoration of Honor for Victims of the November 27th Buddhist Persecution Incident
[2021.9.29.][대통령령 제32018호, 2021.9.29. ...]



Current Laws

Enter the subject word or law name

Search

Current Laws Six Laws: Constitution, Civil Law, etc. Law I Searched

- Enforcement Decree of the Act On The Prevention Of And Countermeasures Against Violence In Schools
[2021.9.29.][대통령령 제32018호, 2021.9.29., 타...]
- Enforcement Decree of the Act on the Prevention of and Compensation for Accident at School
[2021.9.29.][대통령령 제32018호, 2021.9.29., 타...]
- Enforcement Decree of the Installation and Utilization of Sport Facilities Act
[2021.9.29.][대통령령 제32018호, 2021.9.29., 타...]
- Enforcement Decree Of the Small And Medium Enterprises Promotion Act
[2021.9.29.][대통령령 제32018호, 2021.9.29., 타...]
- Enforcement Decree of the Act on Supporting Education of Korean Nationals Abroad
[2021.9.29.][대통령령 제32018호, 2021.9.29., 타...]
- Enforcement Decree of the Banking Act
[2021.9.29.][대통령령 제32018호, 2021.9.29., 타...]
- Regulation on Disclosure of Diplomatic Documents
[2021.9.29.][외교부령 제98호, 2021.9.29., 일부개...]
- Enforcement Decree Of The Act On Support For Female-owned Businesses
[2021.10.21.][대통령령 제32016호, 2021.9.29., ...]

2-5. Law Information Mobile App Service

All law information such as laws, local regulations, administrative rules, and precedents provided by the Korean Law Information Center can be searched in the same way as one would on a smartphone

The image displays three screenshots of the Korean Law Information Center mobile app interface, illustrating the search and viewing process for various legal documents.

General Act on Public Administration

The first screenshot shows the 'General Act on Public Administration' section. The top navigation bar includes 'Reason for revision', 'History', 'Complaints', and 'Article List'. The main content area displays the title 'General Act on Public Administration' with a date range [시행 2021.9.24.] [법률 제17979호, 2021.3.23., 제정]. Below the title, the text indicates the law is from the '법제처(행정법제혁신추진단), 044-200-6737, 6738'. The section is titled '제1장 총칙' (General Provisions) and '제1절 목적 및 정의 등' (Purpose and Definitions, etc.). The first article (제1조(목적)) states the purpose of the law is to regulate the principles and basic matters of administration, ensuring its democratic and legal nature, and promoting efficiency and effectiveness. The second article (제2조(정의)) defines the terms used in the law. The bottom navigation bar includes icons for '본문검색' (Full-text search), '조문이동' (Move to clause), '책갈피' (Bookmark), '메모' (Memo), '확대/축소' (Zoom in/out), '인쇄/저장' (Print/save), and '음성지원' (Voice support).

Precedents

The second screenshot shows the 'Precedents' section. The top navigation bar includes 'Enter the keyword, case name, case number, and case date.' and a 'Search' button. The main content area displays a list of precedents, including 'Refund of Down Payment, etc.', 'Loan Cost Refund', 'Prohibition of Trademark and Trade Name Use', 'Compensation for Damages (Vehicle)', 'Violation of the Food Sanitation Act', 'Rent/Legal Reserve of Inheritance', 'Arbitrary Appointment of the Arbitrary Guardianship Supervisor', and 'Violation of the Copyright Act'. Each entry includes a date range [대법원 2021.07.15., 선고, 2018다214210, 판결] and a right arrow indicating further details.

Compensation for Damages (Others)

The third screenshot shows the 'Compensation for Damages (Others)' section. The top navigation bar includes 'Compensation for Damages (Others)' and a star icon. The main content area displays the title 'Compensation for Damages (Others)' with a date range [대법원 2021.6.30, 선고, 2018다290672, 판결]. Below the title, the text indicates the law is from the '법제처(행정법제혁신추진단), 044-200-6737, 6738'. The section is titled '제1장 총칙' (General Provisions) and '제1절 목적 및 정의 등' (Purpose and Definitions, etc.). The first article (제1조(목적)) states the purpose of the law is to regulate the principles and basic matters of administration, ensuring its democratic and legal nature, and promoting efficiency and effectiveness. The second article (제2조(정의)) defines the terms used in the law. The bottom navigation bar includes icons for '본문검색' (Full-text search), '조문이동' (Move to clause), '책갈피' (Bookmark), '메모' (Memo), '확대/축소' (Zoom in/out), '인쇄' (Print), and '음성지원' (Voice support).

03

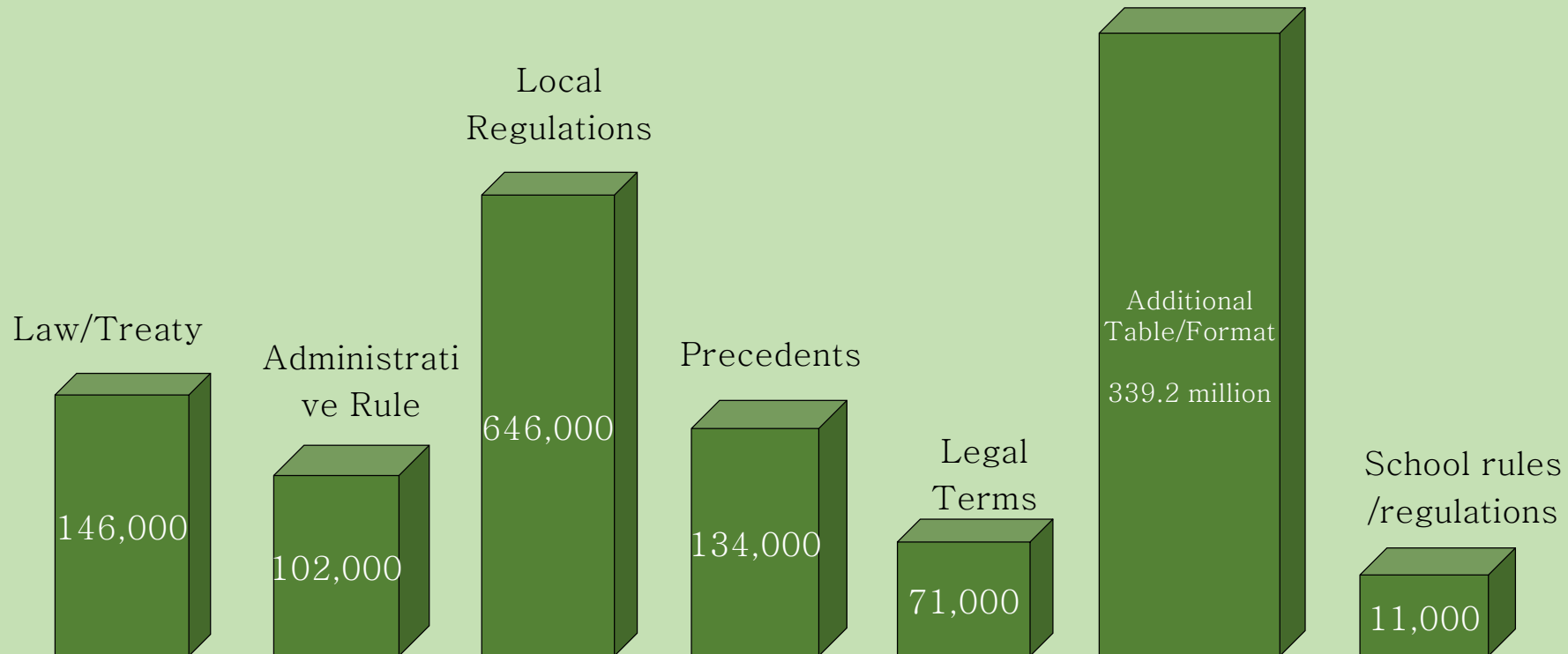
Implementation Results and Overseas Support Cases

- ■ 3-1. Law Information Status
- ■ 3-2. Implementation Results
- ■ 3-3. Future Implementation
- ■ 3-4. Overseas Support Cases

3-1. Law Information Status

Systematically constructing and using law information such as current laws and regulations that were enacted and revised since the establishment of the Korean government, including its historical laws, precedents, etc.

Law information: around 4.502 million pieces



3-2. Implementation Results

The Law Information system updates and shares law information since the day of law declaration. As the service level for law information such as the law information link service increases, the daily average number of law information users also increases rapidly

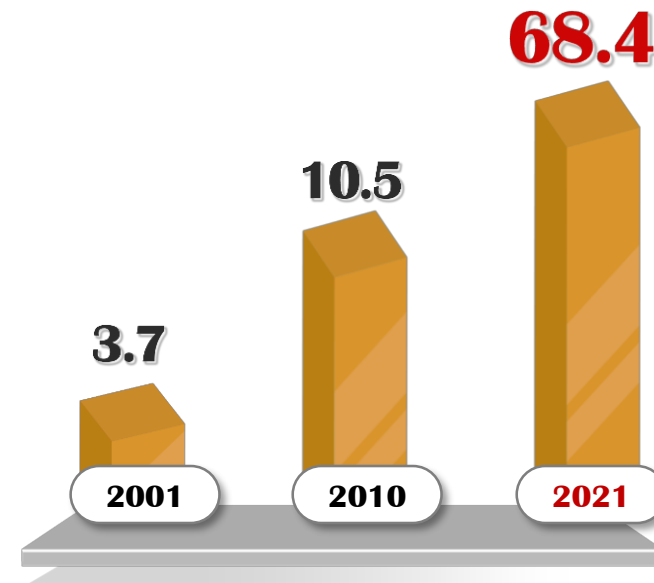
Law information update on the day of declaration

Rapidly share the latest law information



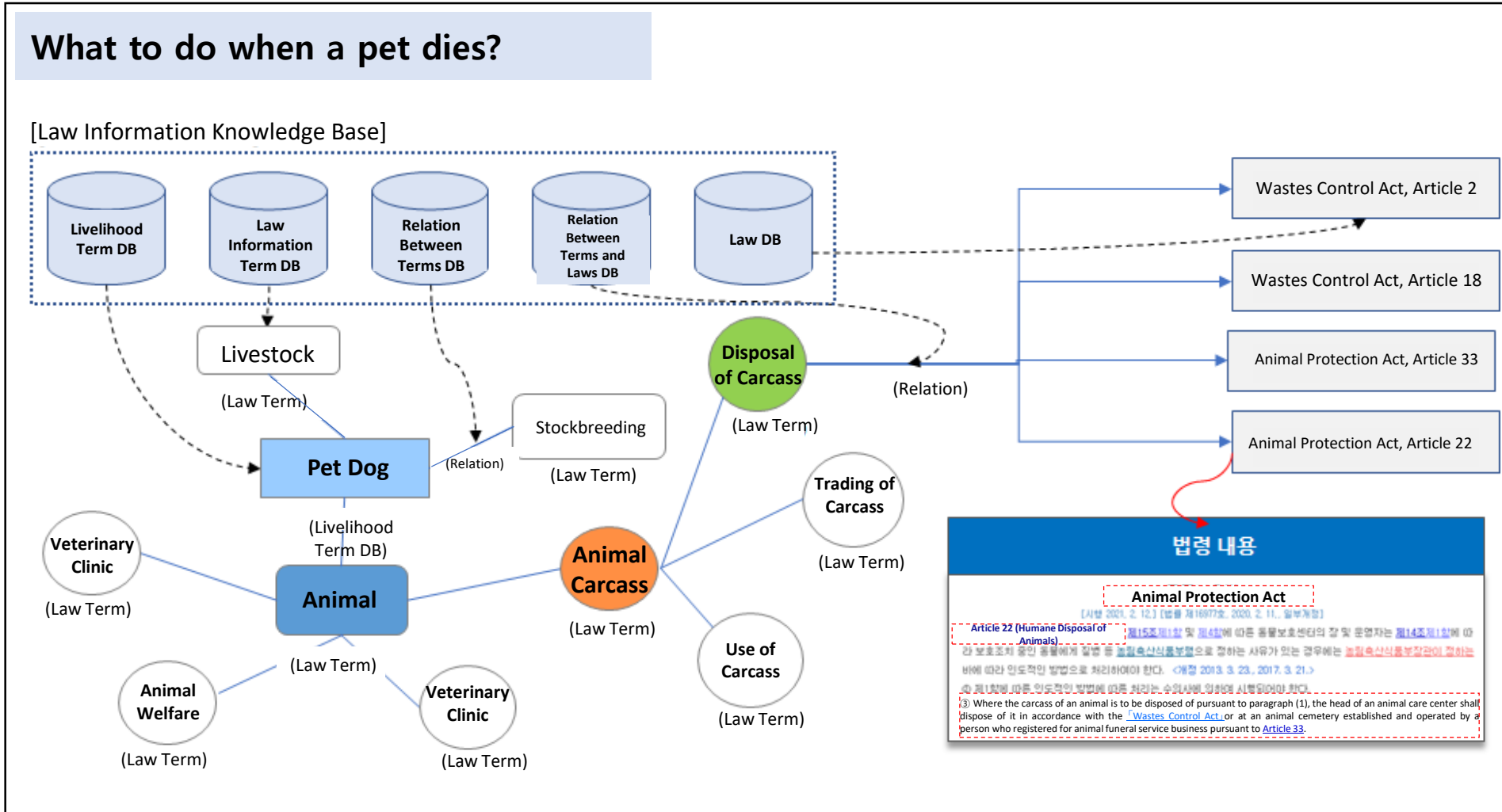
Status of Korean Law Information Center users

Number of daily visitors (unit: 10,000)



3-3. Future Implementation

Planning to establish a law information search service, which allows not only legal experts but also the general public to easily search for law information through sentences, questions, and everyday terms (2022~2025)



3-3. Overseas Support Cases

Continuous exchange, cooperation and support with Myanmar, Indonesia, Mongolia, and Uzbekistan **Promotion of law information and legislative system for countries in Southeast Asia and Latin America**

☐ **Myanmar** (Naypyidaw, Ministry of Justice)

- Mid to long-term ISP establishment project for establishing a law information system (2016. 6.~11.)
- Invitation training: policy process executing operator course, user course (2016. 8.)
- Dispatch experts in different fields from Korea and train (3 times in the development phase, 3 times in the operation phase) (2017. 6~2018. 5.)
- Develop and establish the database for the Myanmar law information website, law information management system and app (2017. 6~2018. 5.)

☐ **Mongolia** (Ulaanbaatar)

- Training on National Law Information Center, Government Legislative Support Center, and Bill Editor
(In 2018, participated by dispatched staff from the Ministry of Government Legislation, members of the Mongolian National Assembly, staff from the Ministry of Justice, etc.)
- Establishment of mid to long-term ISP for establishment of a legal information system (supported by the Ministry of the Interior and Safety)

☐ **Indonesia** (Jakarta, Ministry of Law and Human Rights)

- KOICA ODA selected a project of establishing the Indonesian law information system (proposed by the Ministry of Government Legislation)
- Proceed with Indonesian law information system establishment project (2021~2025)

3-3. Overseas Support Cases – Establishing the Myanmar law information system

Creating the Myanmar law information service website and supporting the search for current laws and historical laws by department, law field and era in consultation with the Myanmar Ministry of Justice.

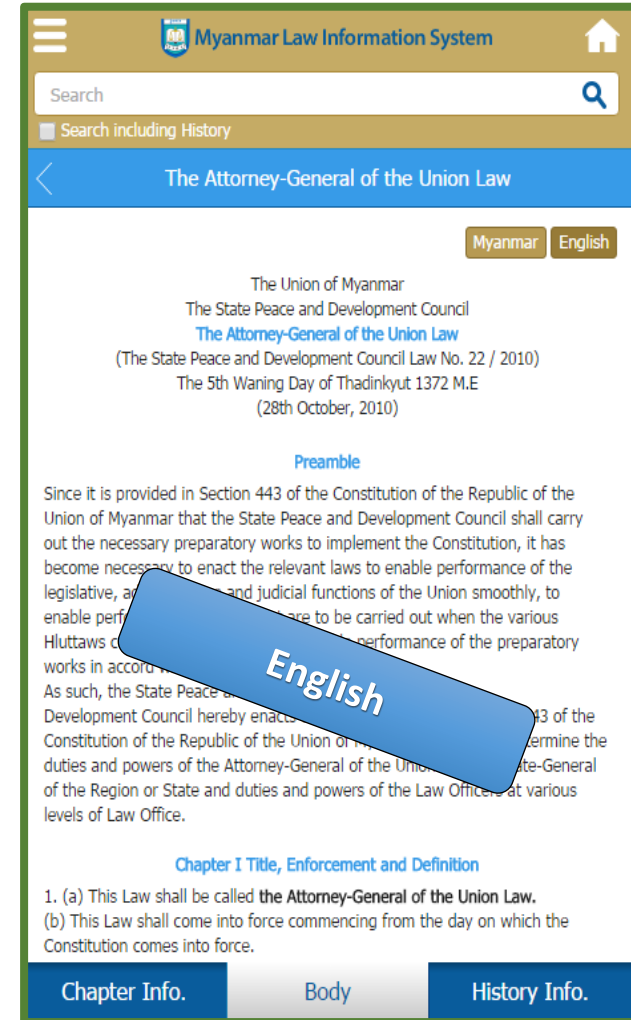
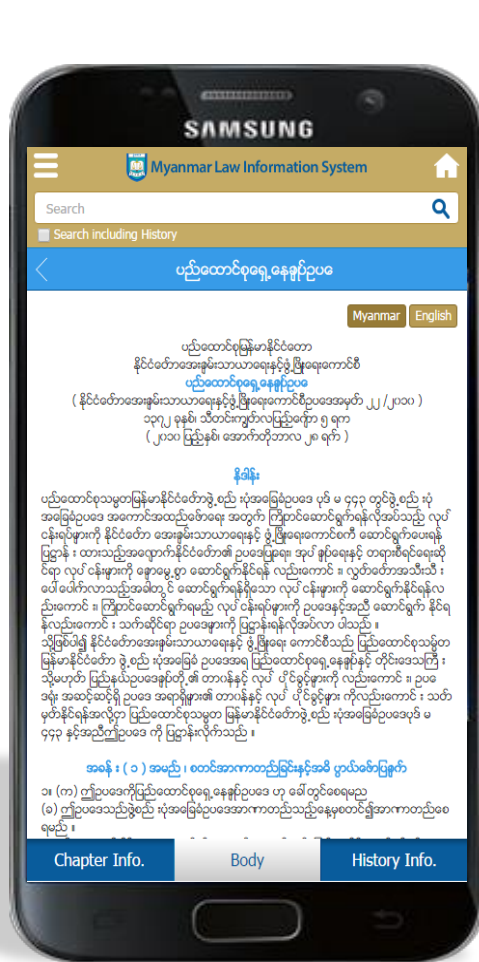
The screenshot displays the Myanmar Law Information System website. Key features and annotations include:

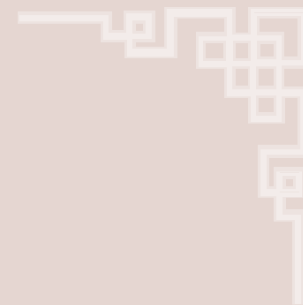
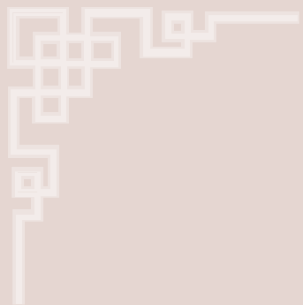
- 11 main menus:** A horizontal bar at the top containing 11 menu items for navigation.
- Integrated search:** A search bar with a dropdown menu and a search button, labeled "Integrated search".
- Latest law information:** A section titled "Latest law information" displaying a list of recent legal updates.
- Law calendar:** A calendar for the year 2018, showing dates for various legal events.
- By department/law field/era:** A section for filtering results by department, law field, or era.
- Notice FAQ/Q&A:** A section for notices, frequently asked questions, and answers.

The website footer includes logos for the Union Attorney General's Office (UAGO), KOICA, and the Ministry of Government Legislation, along with copyright information for 2018 UAGO, Myanmar.

3-3. Overseas Support Cases - Establishing the Myanmar law information system

Developing and supporting a smartphone app for searching law information anytime and anywhere while moving. Providing the service in Burmese or English depending on the type of Myanmar law information contents





.....
Thank You
.....





National Information Resources Service

FIRST MOVER OF KOREAN ICT

2022

CONTENTS LIST

I. OVERVIEW

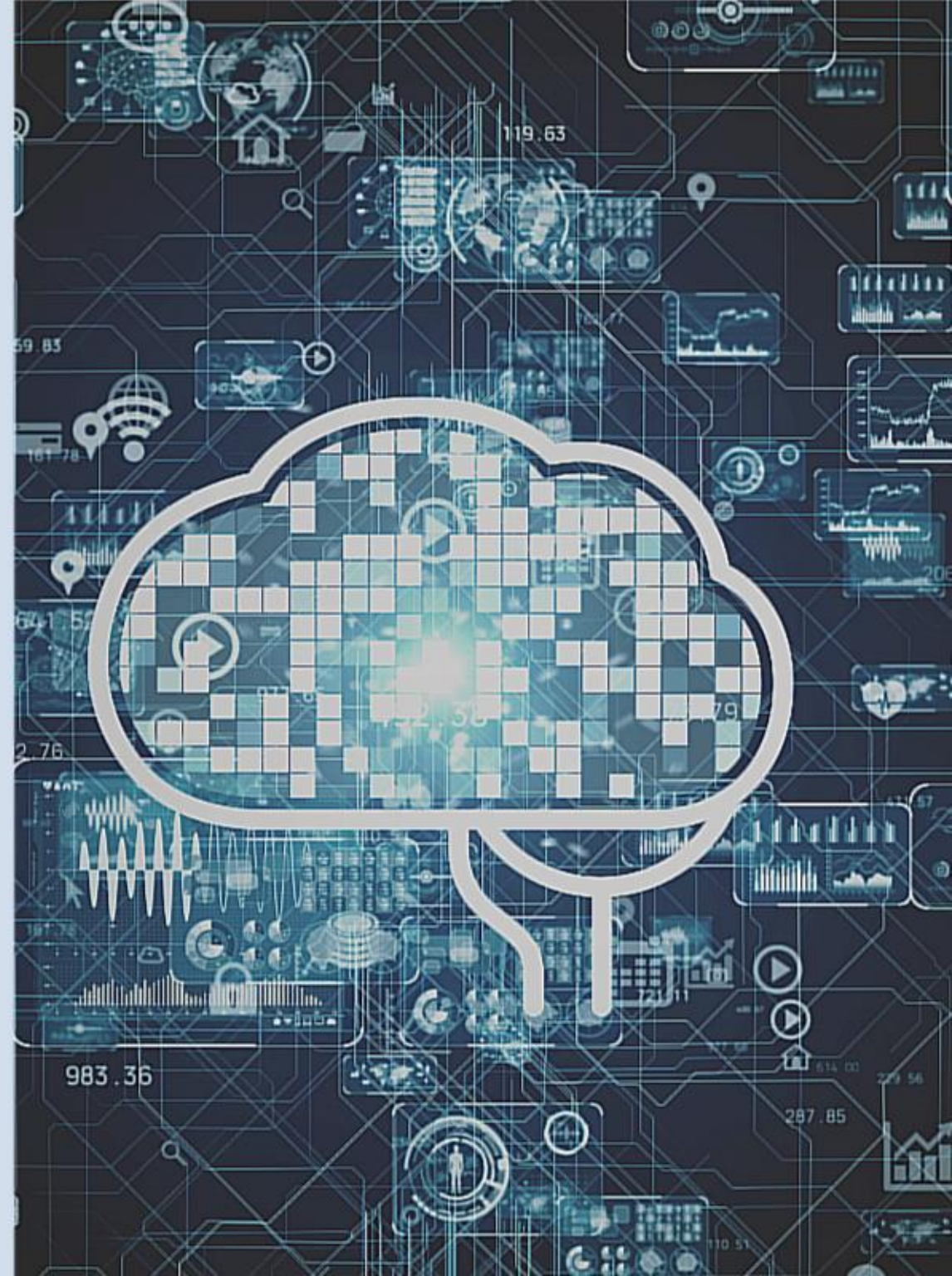
- 1-1. History
- 1-2. Organization
- 1-3. Strategies
- 1-4. Operational Status
- 1-5. Future of NIRS

II. MAJOR PROJECTS

- 2-1. G-cloud Migration
- 2-2. SDDC
- 2-3. A.I. based Security Management
- 2-4. Reinforced Cloud Security
- 2-5. National Integrated Network

III. ROADMAP

- 3-1. Roadmap





I. OVERVIEW

1-1. History

1-2. Organization

1-3. Strategies

1-4. Operational Status

1-5. Future of NIRS

1-1. History

NIRS,
First Mover of Korean ICT

Side effects from
quantitative growth
of e-gov. in early 2000

Redunadant
Investment

Insufficient
HR

Poor
Computing
Environment

Vulnerable
Security

Exclusive
Gov't. Data Center
with optimal IT infra.
& professional expertise



2005. NIRS Daejeon

2007. NIRS Gwangju

2008. MoICT -> MoIS

2017. Changed the title to 'NIRS'

1-2. Organization

NIRS,
First Mover of Korean ICT

A leading gov. institution guiding the intelligent digital government

Comprehensive Resource Management



Comprehensively operate & manage about 47,000 information systems of 50 government agencies

Cyber Security Management



Implement the next generation cyber security management system using A.I. technology

Resource Integration & G-cloud



Provide cloud-based digital government services with intelligent resource consolidation

National Integrated Network



Extensively integrate individually run legacy networks into a single network

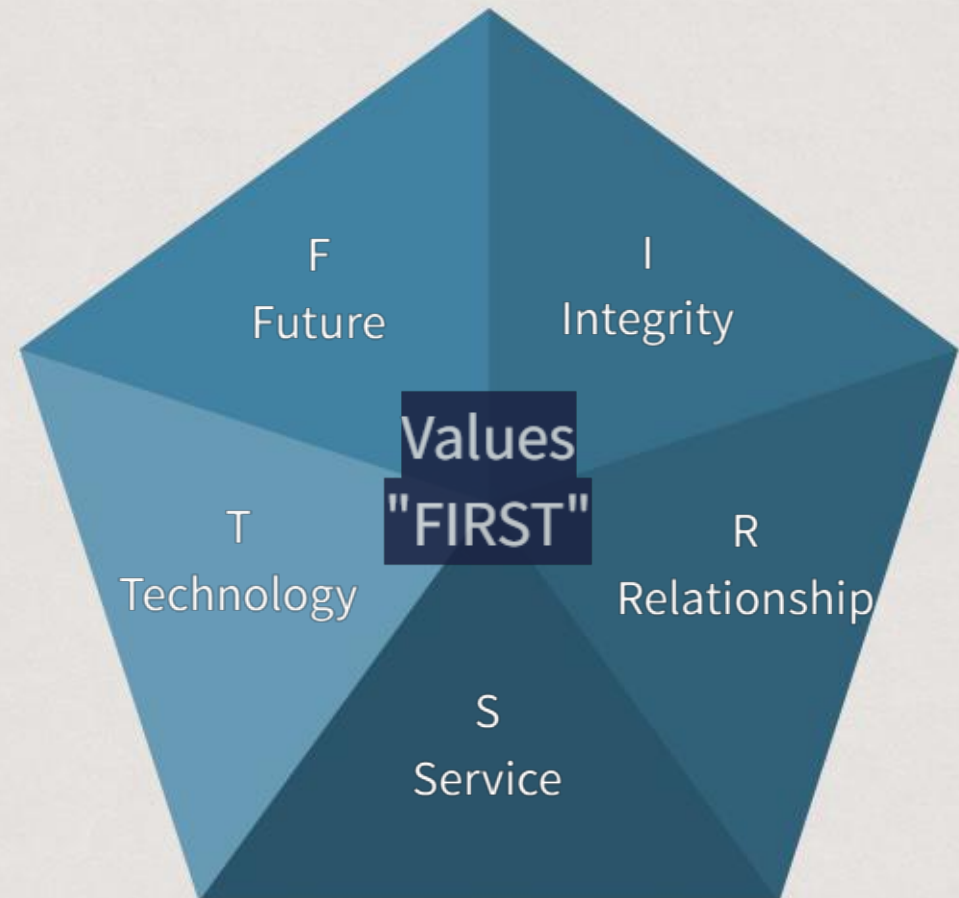
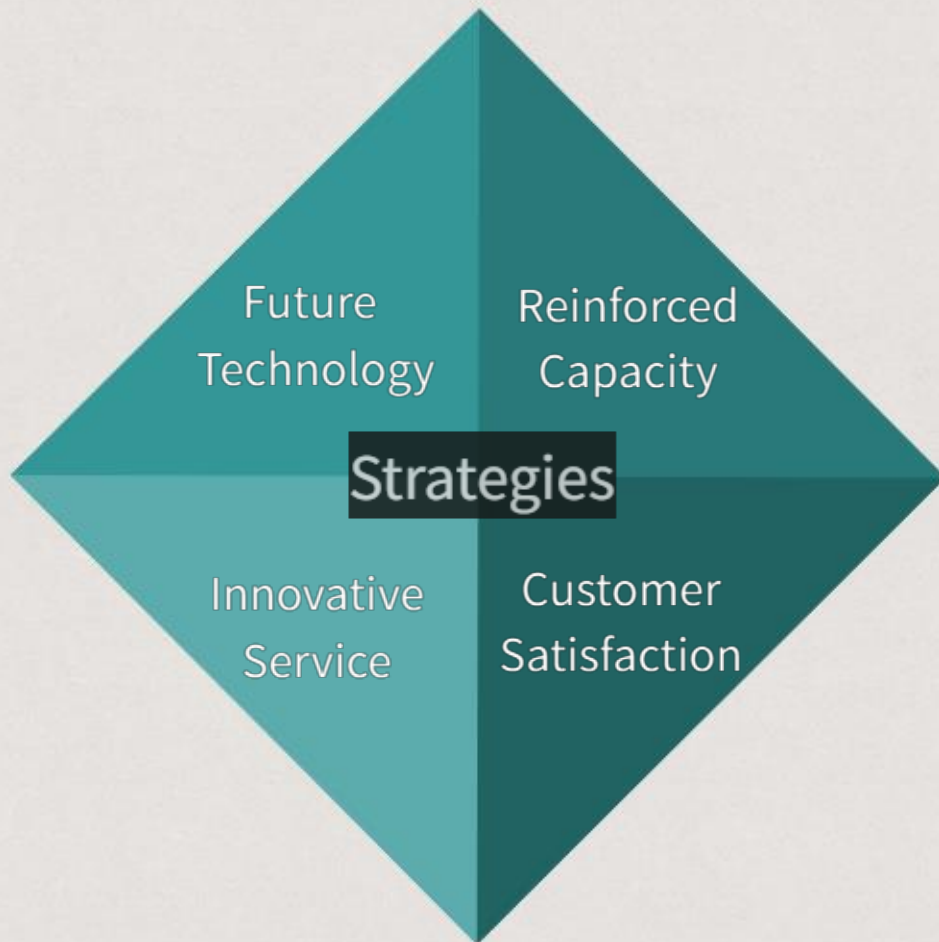


Status	HR	Annual Budget
2 centers 2 offices 13 divisions 1 team	about 300 Public Officials & about 800 Private Experts	USD 540 mil. * as of. Feb.'22

1-3. Strategies

Mission To provide quality ICT services leading the Digital Gov't.

Vision Professional agency providing i-cloud services

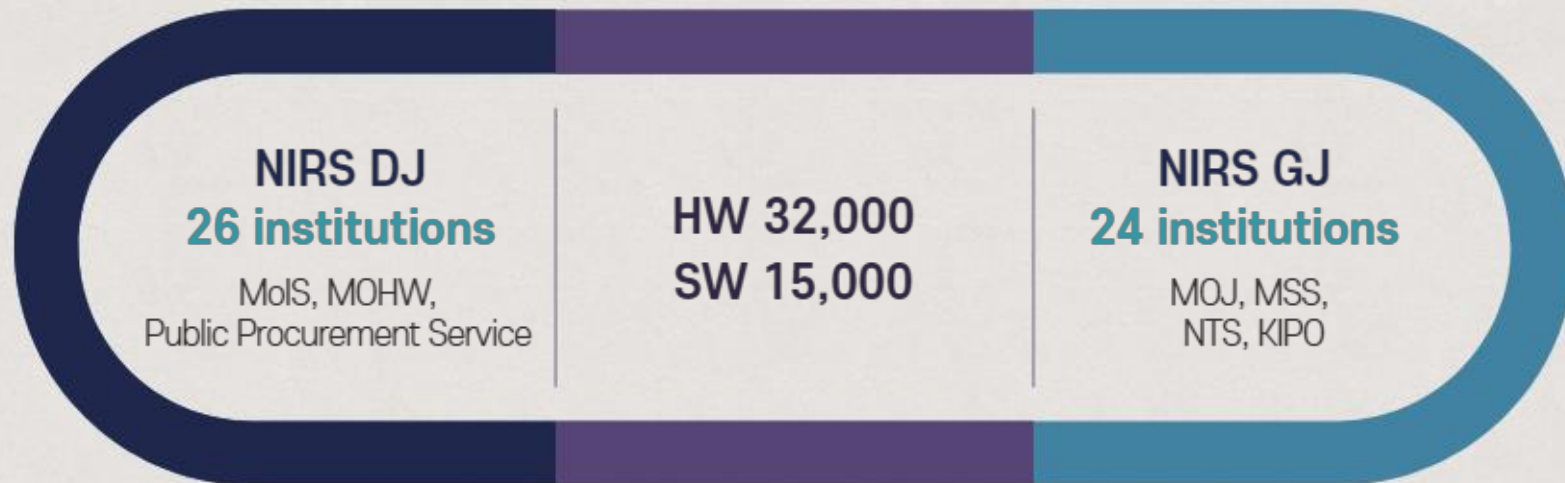


1-4. Operational Status

NIRS,
First Mover of Korean ICT

Operates info. systems of 50 central gov. institutions

Supports 1,321 digital services



Conduct prevention checks,
performance optimization

After cares

Device

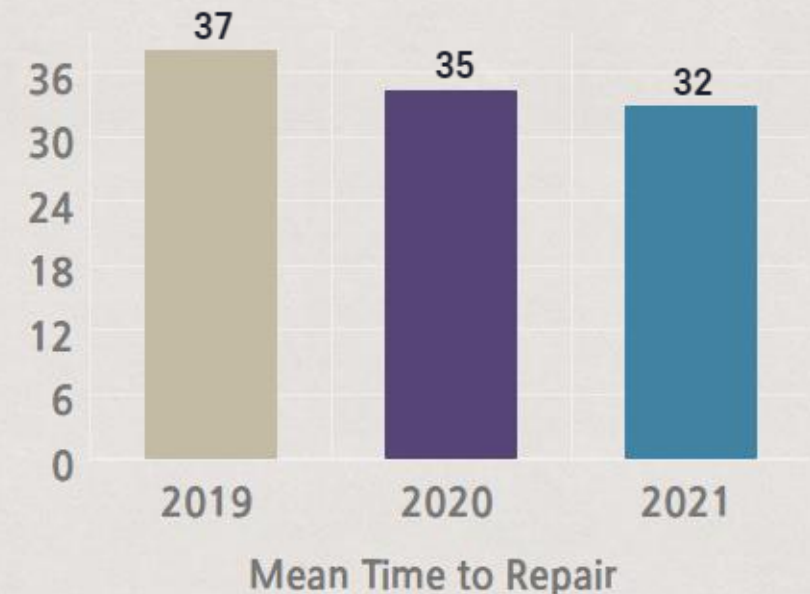
Mgmt.
System

Visualize service flows
by conducting
relation analysis
over intertwined systems

Prevention

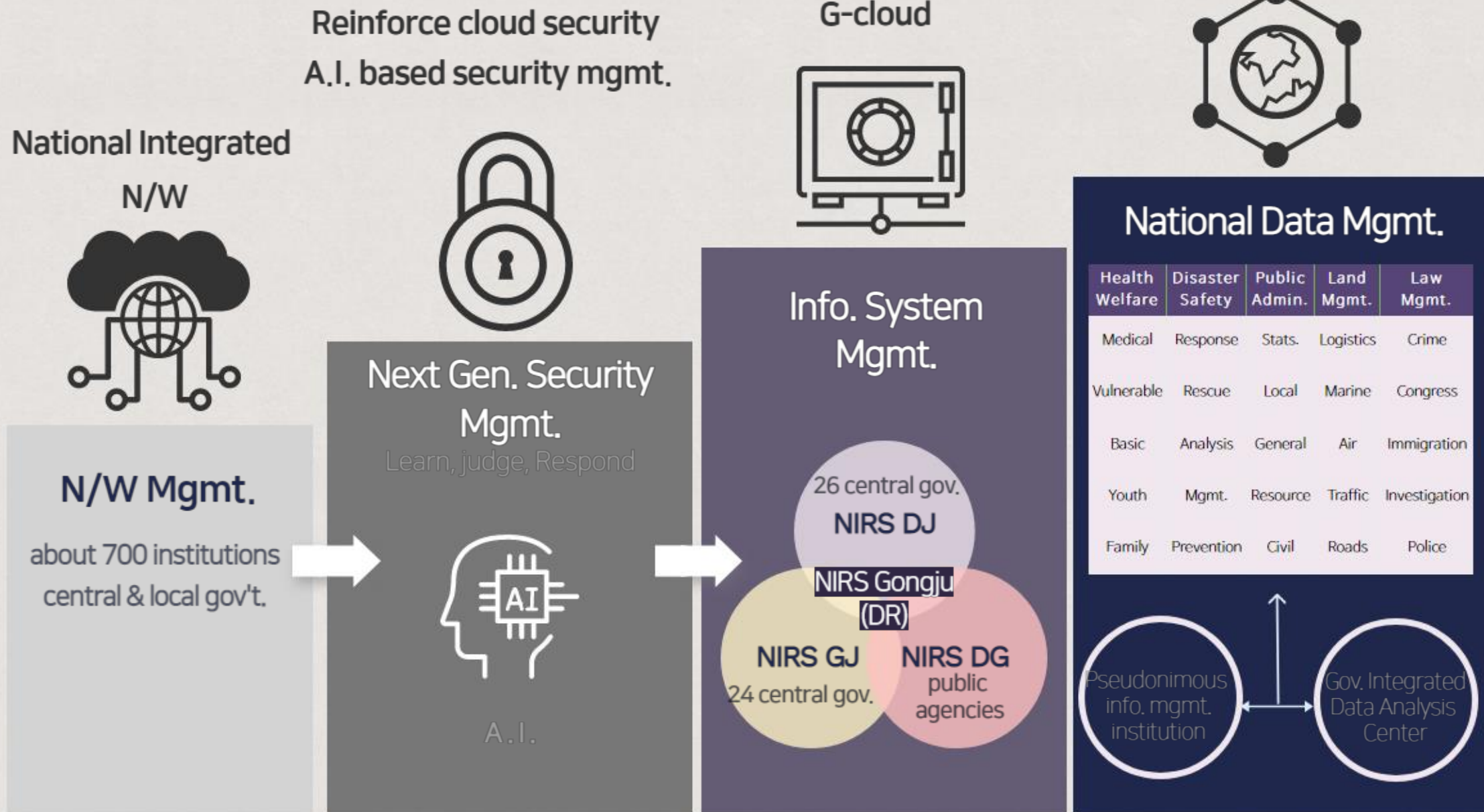
Service

Apply auto management
systems in overall operation



1-5. Future of NIRS

NIRS,
First Mover of Korean ICT





II. MAJOR PROJECTS

2-1. G-cloud Migration

2-2. SDDC

2-3. A.I. based Security Management

2-4. Reinforced Cloud Security

2-5. National Integrated Network

2-1. G-cloud Migration

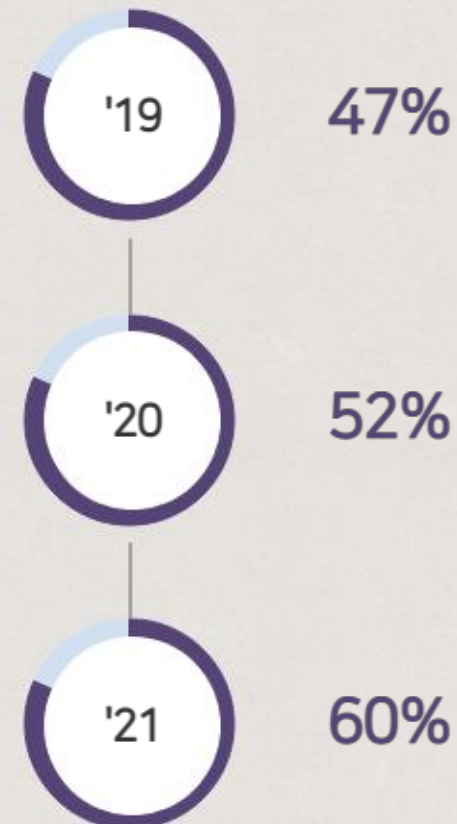
Exercising the resources in need on time through the smart pool system

The migration started from 2013 using cloud computing technologies

Promptly respond to urgent request
for resources by implementing
the cloud platform (G-cloud) of NIRS

Consistently keep the 'Cloud-first' policy
for occasions like replacing old device
or implementing new systems

Cloud migration rates



What is Software Defined Data Center (SDDC)?



NIRS Daejeon



NIRS Gwangju



NIRS Daegu



NIRS Gongju

A software-ruled data center which auto controls/manages all the resources of a data center with minimal human intervention



exclusive Cloud NIRS Daegu

- For : efficient/stable operation of info. systems of new client agencies of NIRS
- Scale : site 81,367, total area 35,396 (m²)
- Construction period : '16~'22
(services are expected to be opened in '22)
- To serve : central gov. & public institutions



exclusive DR NIRS Gongju

- For : secure reliable gov. business continuity over disasters/accidents
- Scale : site 223,000, total area 16,136 (m²)
- Construction period : '12~'22
(services are expected to be opened in '23)
- To serve : DR systems of NIRS Daejeon & Gwangju

2-3. A.I. based Security Mgmt.

NIRS,
First Mover of Korean ICT

from human-dependent legacy system
TO SELF ADAPTIVE A.I. BASED SECURITY MGMT.

01



Reached the limit

Require a number of security mgmt. experts for increasing amount of cyber attacks

Difficult to manage them just with the legacy device or systems

02



Known attacks

Improve the managing scopes by training the machine human-judgment criteria

able to analyze
400,000 ->17million cases per day

03



Unknown attacks

Improve analyzing/responding capability by training the machine normal patterns

able to be ready over
intelligent attacks in advance

from N/W oriented defense system to Cloud-based responding system

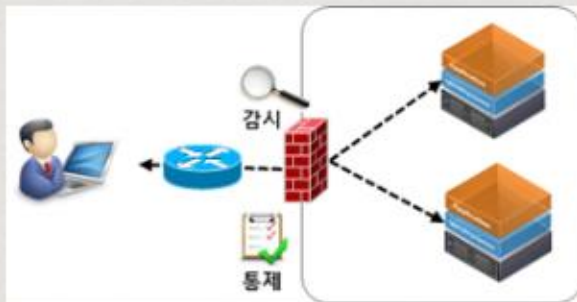


Cloud environment

Major tasks

1 Complex environments for virtualization

Challenging visualization &
increasing threatening factors



2 Increased internal traffic

Unable to control
when passing through
the legacy systems



1. Implement cloud workload security mgmt. platform
2. Build S/W based security infrastructure
3. Arrange solutions for total mgmt for cloud end-point
4. Set-up an R&R model over client institutions

2-5. National Integrated Network (NIN)

NIRS,
First Mover of Korean ICT

'19~'20 implement the NIN
(with SK & LG U+)

'21 switch over
32 institutions

'22 switch over
16 institutions

(As-is)
Individual N/W
run by 48 institutes

Benefits

(To-be)
Pan-governmental
Integrated Network

Reinforced
N/W
survivability

Improved
N/W
flexibility

Improved
security

Reduced
costs



III. ROADMAP

3-1. Roadmap

3-1. Roadmap

NIRS,
First Mover of Korean ICT

- 2005** Established NIRS Daejeon
Relocated systems related to people's daily lives
* MoIS, National Tax Service, M. of Welfare...
- 2007** Established NIRS Gwangju
Relocated systems related to social order
* Police, M. of Justice, Prosecution Service...
- 2009** Initiated information resources consolidation
Bulk-purchase the resources
Consolidated individually owned HW/SW
- 2013** Started the Cloud service
Developed G-cloud services
Implemented the cloud infra. for NIRS DJ & GJ

- 2015** Initiated Big Data services
Launched a Big Data Analysis Division
Implemented the general Big Data platform
(* currently run directly by MoIS)
- 2017** Changed the title of the institution
NCIS -> NIRS
- 2021** Designated as
Pseudonymous Information Management Center
- 2022** Complete establishment of NIRS Daegu
Develop Intelligent Cloud Computing Service
Complete establishment of NIRS Gongju
Set up total mgmt. systems for DR, Backups



Thank you !

Measures to foster IT based on regional data



2022. 06.

1. Changes in circumstances



Continuing macroeconomic problems

characterized by high prices and interest rates following COVID-19

Revitalized data ecosystem

such as increased use, protection of data and enhanced rights for data subjects



Sharper decline in population

for example, continuous decline in fertility rate

Increased demand for remote, online services

like work from home and mobile services



Commercialization of AI

in all industries

Transition to the cloud

for server stability, etc.

2. Basis for policies

E-government Act

Established the basic principles, procedures, etc. for electronic process of administrative affairs ('01.2)

Data-driven Administrative Law

Obligated data sharing and provision of data among institutions, adjustments ('20.12)

Framework Act on Intelligence Information

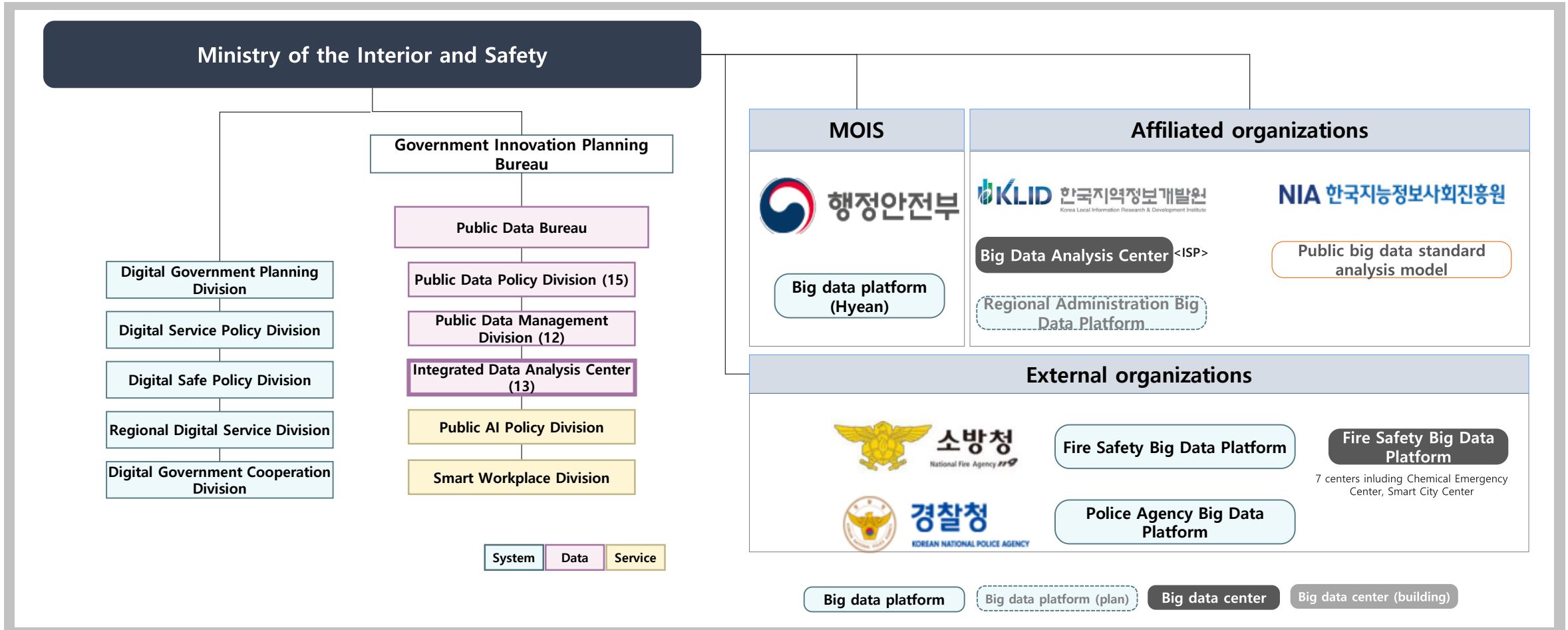
Realized an intelligence information society based on collection, analysis, processing, and implementation of electronic data ('20.6)

Data-related municipal ordinances

Only 4 out of 17 metropolitan regional entities (none of 229 basic units of local government)

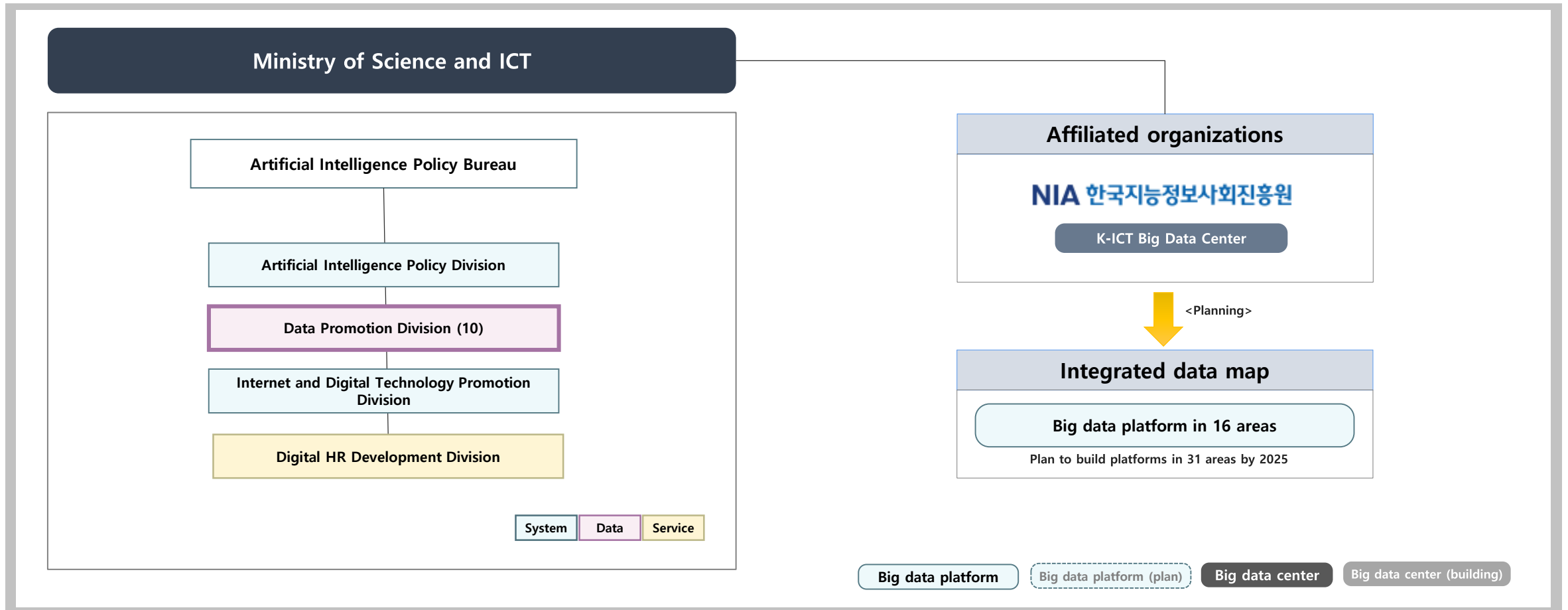
3. Current status of big data organizations and platforms in central administrative agencies (Ministry of the Interior and Safety)

Launched a government-wide big data platform where central administrative agencies and local governments can collect, process, and analyze data



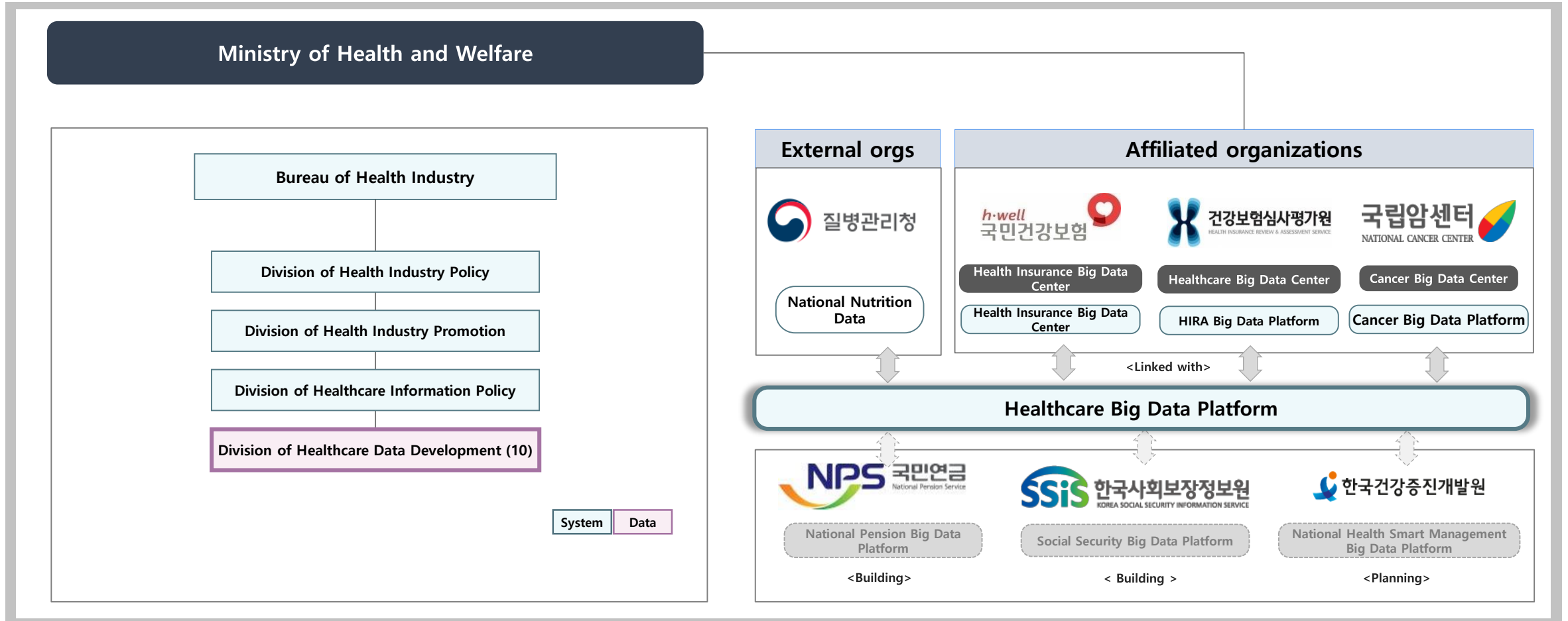
3. Current status of big data organizations and platforms in central administrative agencies (Ministry of Science and ICT)

Built big data platforms in 16 areas including finance, environment, culture, and transportation



3. Current status of big data organizations and platforms in central administrative agencies (Ministry of Health and Welfare)

Established big data platforms on health insurance, healthcare, and cancer to utilize and provide to researchers in the private sector



3. Current status of big data organizations and platforms in central administrative agencies (Metropolitan regional entities)

17 metropolitan regional entities have established and operates big data organizations or platforms

1	Seoul	Seoul Big Data Campus('16.7)	9	Jeju	Jeju Big Data Integrated Platform ('18.12)
2	Busan	Busan Big Data Platform ('20.12)	10	Gwangju	Gwangju Big Data Integrated Platform ('20.12)
3	Incheon	Incheon Big Data Integrated Platform ('19.11)	11	Daejeon	Daejeon Big Data Integrated Platform ('21.5)
4	Daegu	D-Data Hub ('19.8)	12	Gangwon	Precision Medicine Big Data Platform (planning)
5	Ulsan	Ulsan Transportation Big Data Platform ('21.12)	13	Gyeongbuk	Gyeongbuk Integrated Big Data Platform (planning)
6	Sejong	Sejong Big Data Hub System ('20.4)	14	Jeonnam	Jeonnam Big Data Hub Platform (building)
7	Gyeonggi	Gyeonggi Big Data Analysis Platform ('20.4)	15	Jeonbuk	Jeonbuk Big Data Hub Platform ('19.9)
8	Gyeongnam	Gyeongnam Big Data Hub Platform ('21.7)	16	Chungnam	Chungnam Big Data Hub Platform ('21.5)
			17	Chungbuk	Chungbuk Big Data Hub Platform (building)

4. Regional data use cases (1)

Case 1

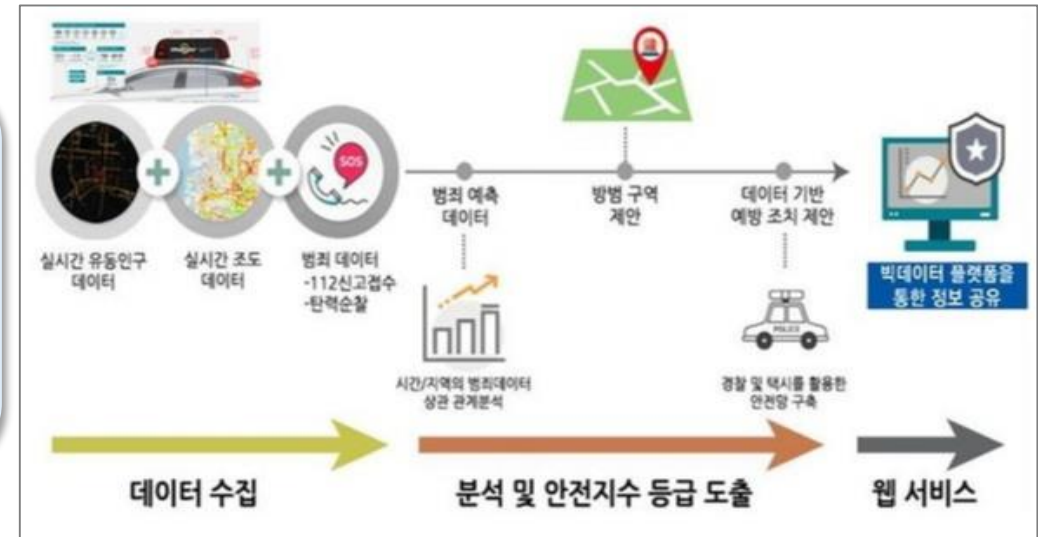
[Incheon] Established a data-based nighttime security system

Description

Established a prediction system for nighttime crime risk areas by analyzing the data of emergency police calls and floating population

Result

Prevent crime through cooperation between local governments and police (designate crime prevention areas and patrol courses, etc.)



4. Regional data use cases (2)

Case 2

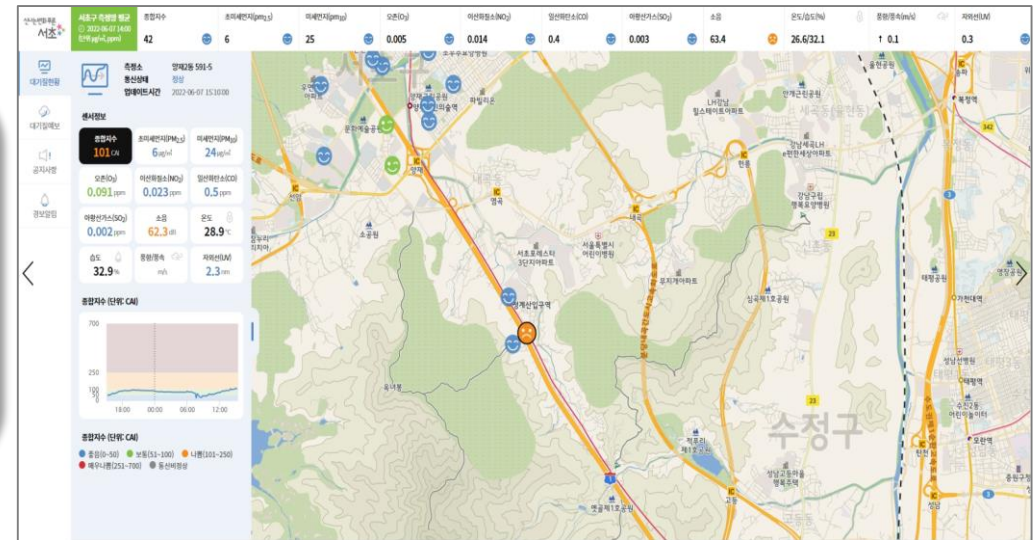
[Seocho-gu, Seoul] Established an integrated air quality management system and a fine dust forecasting system

Description

Established a fine dust forecasting system using data from 108 fine dust measuring locations within the district and domestic/foreign weather data

Result

Installed reduction devices and developed and utilized the air quality forecasting and warning system



4. Regional data use cases (3)

Case 3

[Osan-si, Gyeonggido] Selected the optimal location in the area using the data of other facilities where an elderly/disabled population is concentrated

Description

Selected the location and derived the demand for a welfare facility by analyzing the location-based data of medical facilities and elderly welfare centers

Result

Used the data to select the location, and expanded facilities with expertise when designating medical and welfare facilities



4. Regional data use cases (4)

Case 4

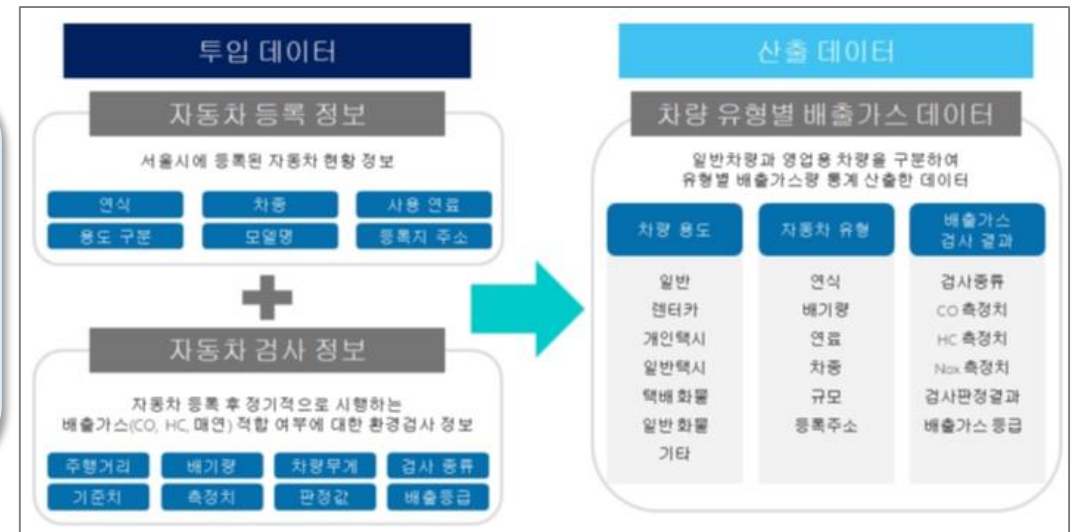
[Seoul] Analyzed and utilized data on vehicles for business

Description

Analyzed vehicle registration data and online delivery information to devise the logistics policies of Seoul and use as basic material for the electric vehicle project

Result

Used the data to estimate the target distribution number for eco-friendly vehicles and establish logistics policies



4. Regional data use cases (5)

Case 5

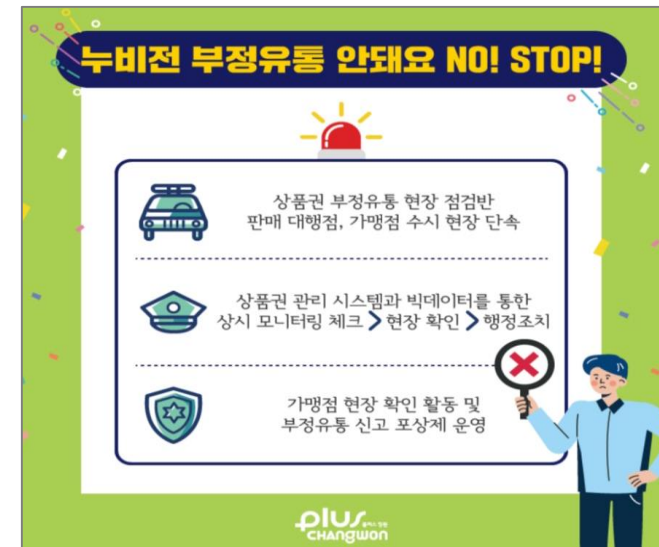
[Changwon-si, Gyeongnam] Blocked fraudulent circulation of local gift certificates using big data

Description

Prevented fraudulent circulation of local gift certificates by conducting an investigation of affiliate stores using the gift certificate management system and big data

Result

Confiscated unjust profits and imposed fines to 17 stores by conducting an investigation of suspected fraudulent circulation and illegal exchange



5. Challenges

- 01 Difficulty in promoting data-based regional administration due to the widened gap in the use of big data among regional entities
- 02 Standardization urgently needed as a result of regional entities establishing their own big data platforms
- 03 Gap in the big data budget between the central government (782.1 billion won) and regional entities (110.6 billion won) (1/7↓)
- 04 Heavy reliance on centrally conducted open call projects due to the lack of capacity and budget in regional entities
- 05 Regional IT industries face recession due to the concentration of IT businesses in the Seoul metropolitan area

6. Measures to foster regional IT industries (1)



Measure 1

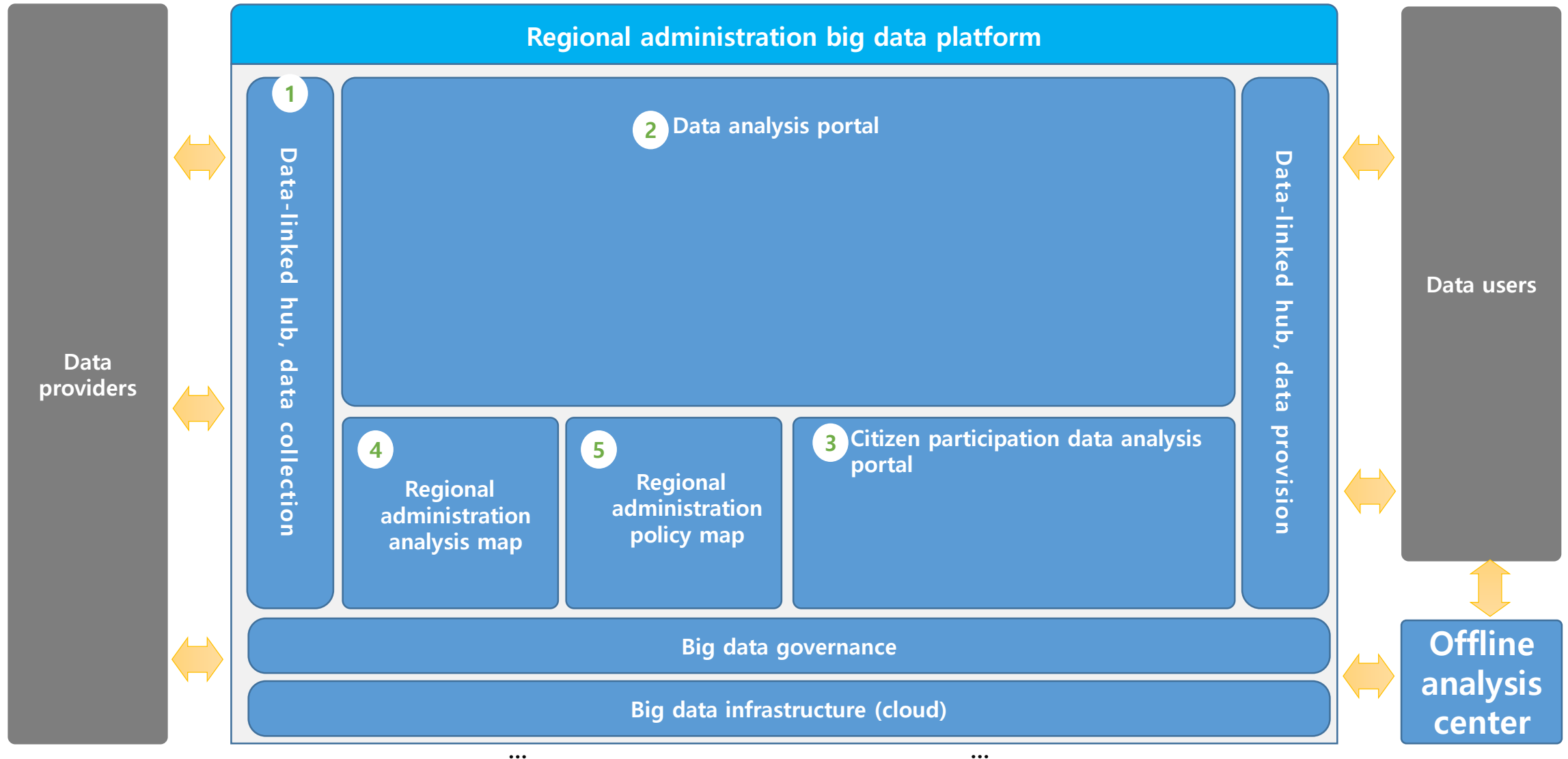
Establish data analysis centers in 17 metropolitan regional entities

- Standardize the administrative data held by regional entities to revitalize analysis and utilization of data
- Prepare the foundation for utilizing data owned by other organizations
- Relocate IT companies concentrated in the Seoul metropolitan area to regional cities to create local IT ecosystems
- Opportunity to resolve population extinction* problems in regional areas due to migration of younger employees

* population extinction areas : 89 basic local governments

- Establish and operate data analysis centers in 17 metropolitan regional entities to strengthen the IT capabilities of regional government officials

6. Measures to foster regional IT industries (1)_ target system structure



6. Measures to foster regional IT industries (2)

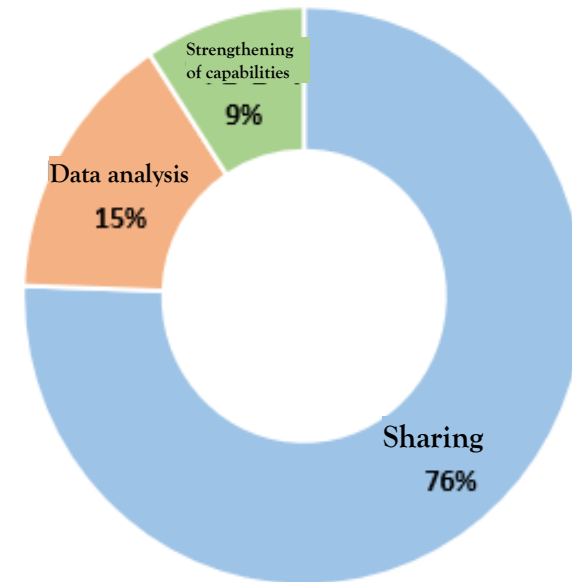


Measure 2

Budget support needed to promote regional data analysis

- Secure regional data budget for effective analysis of regional data

Classification	Sharing	Data analysis	Strengthening of capabilities	Total
Central	6,101	977	743	7,821
Regional	646	376	84	1,106
Total	6,747 (76%)	1,353 (15%)	827 (9%)	8,927



7. Future plans

- Secure budget ('22)
- Establish regional data analysis centers ISP ('23)
- Build regional data analysis centers ('24~'25)
- Operate regional data analysis centers ('26)



Thank you

GovTech Whole-of-Government Approaches Towards Coherent and Sustainable Implementation

**International Meeting “Cooperation and Capacity
Development in Digital Government”**

Tbilisi, Georgia
20-21 June 2022

João Ricardo Vasconcelos
Senior Governance Specialist
GovTech - Governance Global Practice
World Bank

Supported by the GovTech Global Partnership (GTGP): www.worldbank.org/govtech

The background of the image is a deep blue space filled with numerous small, distant stars. On the left side, a portion of a globe is visible, its surface covered in a complex network of glowing blue lines and dots, representing a digital or data network. A bright, intense light source, possibly the sun, is positioned in the center-right of the frame, creating a strong lens flare and illuminating the scene. A white, rounded rectangular box is overlaid on the lower right portion of the image, containing the text "The world is going digital".

The world is going digital

[illegible]

Siloed approaches for public sector digitalization are problematic



What is GovTech?

- 1 - **Citizen-centric public services** that are universally accessible
- 2 - **Whole-of-government** approach to digital transformation
- 3 - **Simple, efficient and transparent government systems**



2

Whole-of-government approaches are critical

Whole of Government matters

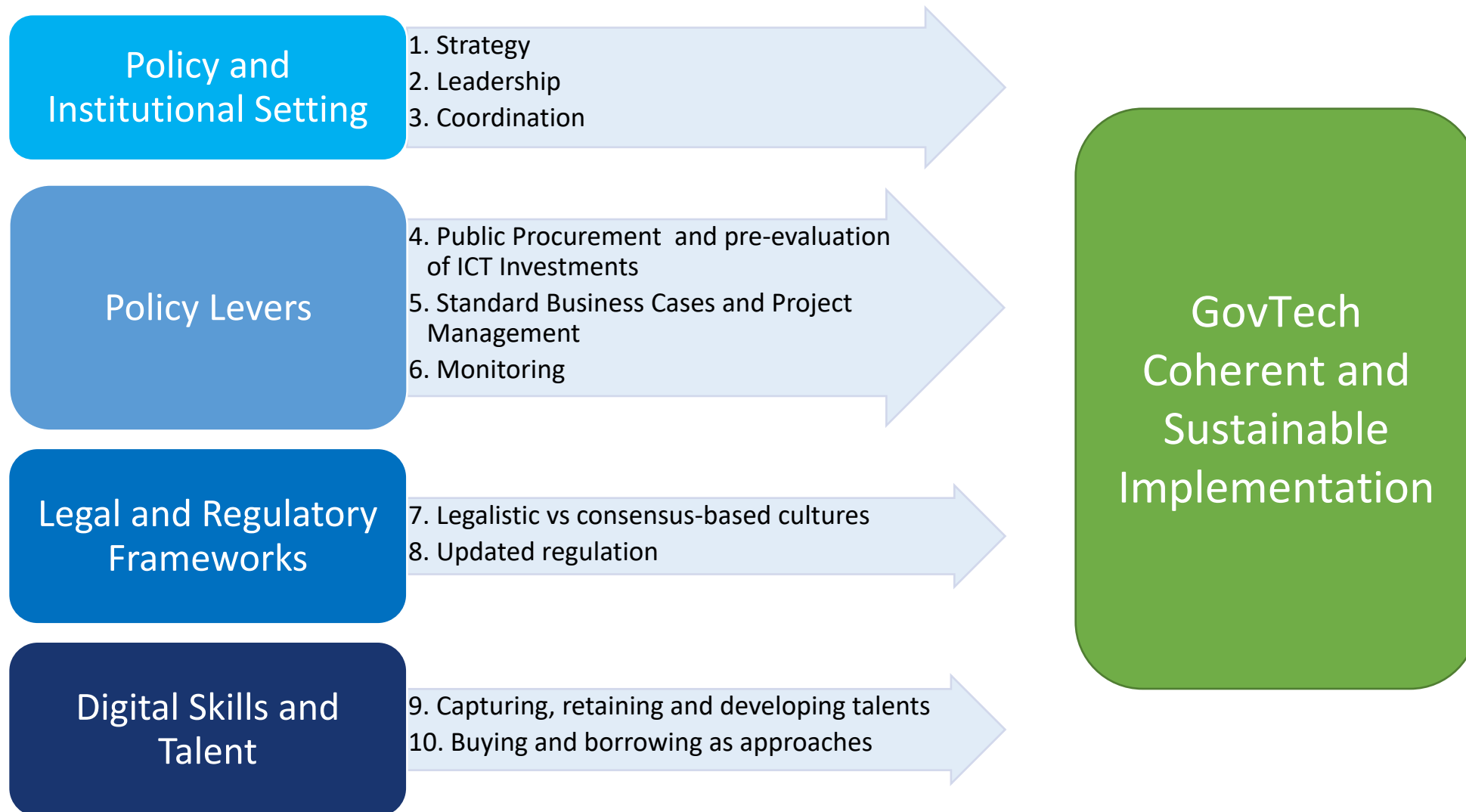
Benefits

- Improving Efficiency and effectiveness
- Avoiding duplications, gaps and mismatches
- Favoring Citizen-Centric approaches
- Supporting more complex solutions
- Reinforcing accountability

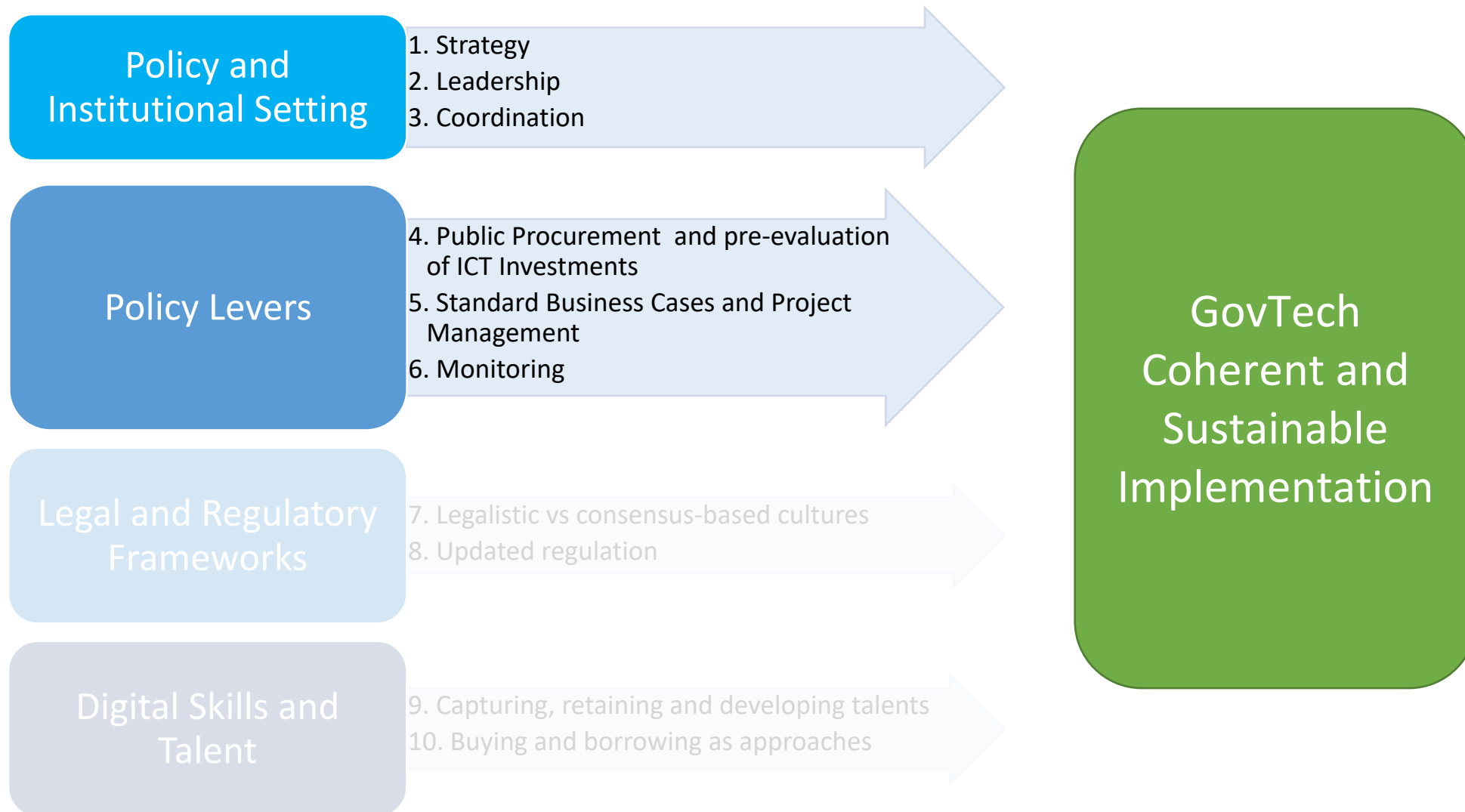
Roadblocks

- Weak institutional/organizational coordination structures
- Lack of leadership
- Technical and regulatory barriers
- Insufficient budget to support integration
- Absence of a citizen-centric focus
- Stagnation and absence of innovation

Whole-of-Government Fundamentals



Whole-of-Government Fundamentals



1 - Strategy

A GovTech or Digital Government national strategy is a fundamental policy instrument:

- Defines the vision and goals,
- Frames the purposes and objectives
- Identifies the priorities
- Sets the necessary actions or initiatives the government will embrace during a certain period of time



Insights from the World Bank GovTech Maturity Index

- 174 of the 198 countries monitored have a strategy

2 – Strategy



Korea

The Digital Government Master Plan 2021-2025 is a good example of a mobilizing strategy, bringing on board the different ministries.



Brazil

The Digital Government Strategy was recently updated, setting the ambition of interconnecting federal IT platforms. It's a good example of a strategy developed by a large federal country.

2 - Leadership



The existence of a **public sector organization responsible for leading the digital government or GovTech policy** is clearly an institutional asset for the coherent and sustainable policy implementation.

Insights from the World Bank GovTech Maturity Index

- 80 of the 198 economies analyzed have a public sector organization responsible for leading the digital government or GovTech policy

2 – Leadership

Location of the Public Sector Institution

- Center of government (e.g. Chile, Portugal, UK)
- Coordination ministry such as Ministry of Finance or Interior (e.g. Denmark, Korea)
- Line ministry specifically dedicated to telecommunications, information and communication technologies or digital transition (e.g. Austria, Colombia, Greece)



Japan

The Digital Agency is the new public sector organization leading the digital government policy. It has significant competences to reform the culture of administration in a user-driven manner through digitalization.



Colombia

The Ministry of Information and Communication Technologies is responsible for the national digital government policy

3 - Coordination

Inter-ministerial committees or councils for the digital transformation of the public sector are critical to secure the required cross-governmental cooperation.

With a more high-level or operational profile and mandate, they guarantee that the GovTech policy is not only the responsibility of one entity.



Insights from the OECD Digital Government Index

- 70% of the countries confirmed having a coordination body / mechanism responsible for government IT projects (e.g. Council of CIOs)

3 - Coordination



Australia

The Digital Transformation and Public Sector Modernization Committee is composed of ministerial representatives from each state and territory responsible for the digital and data policy.



Spain

The Central Administration Coordination Commission for ICT Strategy brings together representatives of all ministries.

Questions? Reflections?

4 – Public Procurement and Pre-Evaluation of ICT Investments



The existence of a **pre-evaluation of ICT investments mechanism** applicable to different sectors of the administration can determine improved alignment.

Structured and coordinated **ICT procurement** is also a mechanism frequently used to secure that public investments from different sectors and levels of government are coherent.

Insights from the OECD Digital Government Index

- 67% of the countries uses formal guidelines on ICT procurement

4 – Public Procurement and Pre-Evaluation of ICT Investments



Portugal

The entity responsible for the digital government policy – Agency for Administrative Modernization (AMA) pre-evaluates all ICT investments in central government above 10 000 euros.



United Kingdom

The Digital Marketplace is an online service managed by the Government Digital Service that allows public sector organizations to find people and technology for digital projects.

5 – Standard Business Cases and Project Management

The use of **business cases** improves the planning, management and monitoring of ICT projects, playing also an important role in the rationalization of public financial efforts.

Standard **project management** tools for ICT projects can have an important role securing the consistency of initiatives across different sectors and levels of government



Insights from the OECD Digital Government Index

- 57% of the countries have a standardized model/method to develop and present business cases
- 66.7% of the countries declared having a standardized model for ICT project management

5 – Standard Business Cases and Project Management



Denmark

Business case models are mandatory to be used for ICT projects above the threshold of 1.35 million euros. The business case is used to demonstrate the value of the investment to be made based on its financial and non-financial consequences



Slovenia

A standardized project management model is required for ICT projects above the threshold of 20 000 euros. The Ministry of Public Administration developed a specific methodology for ICT projects.

6 - Monitoring



The existence of **monitoring mechanisms** for GovTech policy implementation is crucial to achieve structured digital government development.

Building on and properly aligned with the previously mentioned pre-evaluation of ICT investments and ICT procurement, as well as business cases and project management models, governments gain capacity to coherently drive the transformation underway.

6 - Monitoring



Korea

Through the e-Government Standard Framework, the Korean government is able to have updated information on the public sector organizations that are adopting the existing digital government policy



European Union

The National Interoperability Framework Observatory (NIFO) is one of the mechanisms put in place by the European Commission to monitor interoperability implementation across the European member states and associated countries.

Some key Takeaways

A woman in a business suit is seen from behind, reaching out to interact with a futuristic digital interface. The interface is composed of various icons connected by lines, including a smartphone, a house, a factory, a truck, a heart, and a laptop. The background is a vibrant, glowing cityscape at night, with lights reflecting on the water and buildings. The overall scene is set against a dark blue and purple gradient background.

**There is not a one-size-fits-all
Whole-of-Government approach**

**But there are fundamentals to be
considered**

(e.g. Leadership, Strategy, coordination,
procurement, business cases, monitoring, etc)

The background of the slide features a blurred image of four people standing in a row, silhouetted against a bright, warm light source. Overlaid on this image is a complex network of white lines connecting various points, resembling a digital or social network. The overall color palette is a mix of warm oranges and reds on the left, transitioning to cooler blues and purples on the right.

**Learning from the experience of
others countries is critical**

**Involving the ecosystem of
stakeholders is fundamental**

THANK YOU

João Ricardo Vasconcelos
jvasconcelos@worldbank.org

- GovTech Website: www.worldbank.org/govtech
- GovTech/GTMI web page: <https://www.worldbank.org/en/programs/govtech/gtmi>
- GovTech OLC e-Learning course: <https://olc.worldbank.org/content/govtech-fundamentals-and-key-concepts>

GovTech: Interoperability as a Fundamental Key Enabler of Whole of Government Approaches

**International Meeting “Cooperation and Capacity
Development in Digital Government”**

Tbilisi, Georgia
20-21 June 2022

Youngseok Kim

Senior Governance Specialist
GovTech - Governance Global Practice
World Bank

Supported by the GovTech Global Partnership (GTGP): www.worldbank.org/govtech

A hand holding a smartphone with a city skyline on the screen, overlaid with a network of digital icons. The background is a deep blue with a bokeh effect. The network consists of white lines connecting various icons: a person, a computer monitor, a lightbulb, an envelope, a globe, a cloud, a padlock, and a smartphone. The text is centered in a white rounded rectangle.

**Digital Technologies and data
have transformed the public sector**

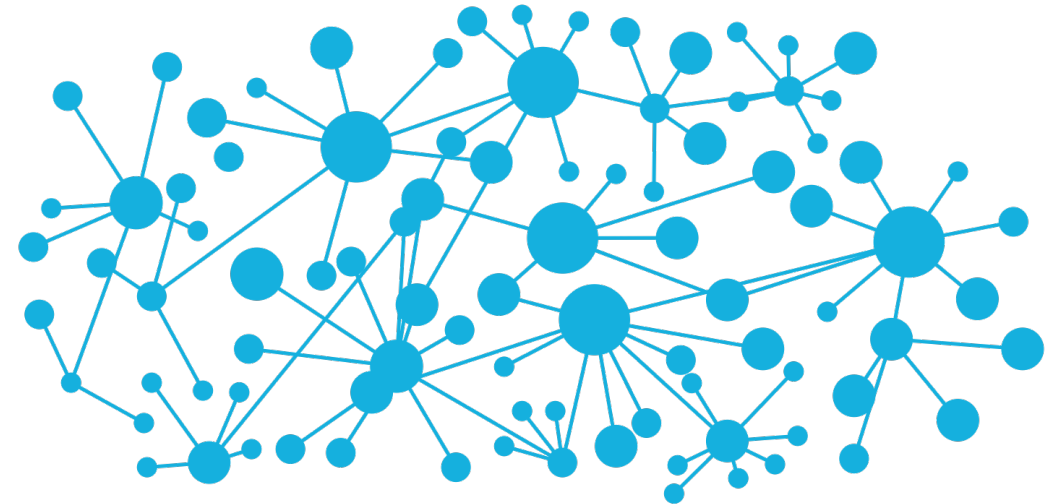


**Governments could focus more on improving
interconnectivity and interoperability
in future GovTech initiatives** (2021 GTMI result)

Interoperability

Enabling connections

Between organizations, ministries, sectors, government levels, countries and citizens

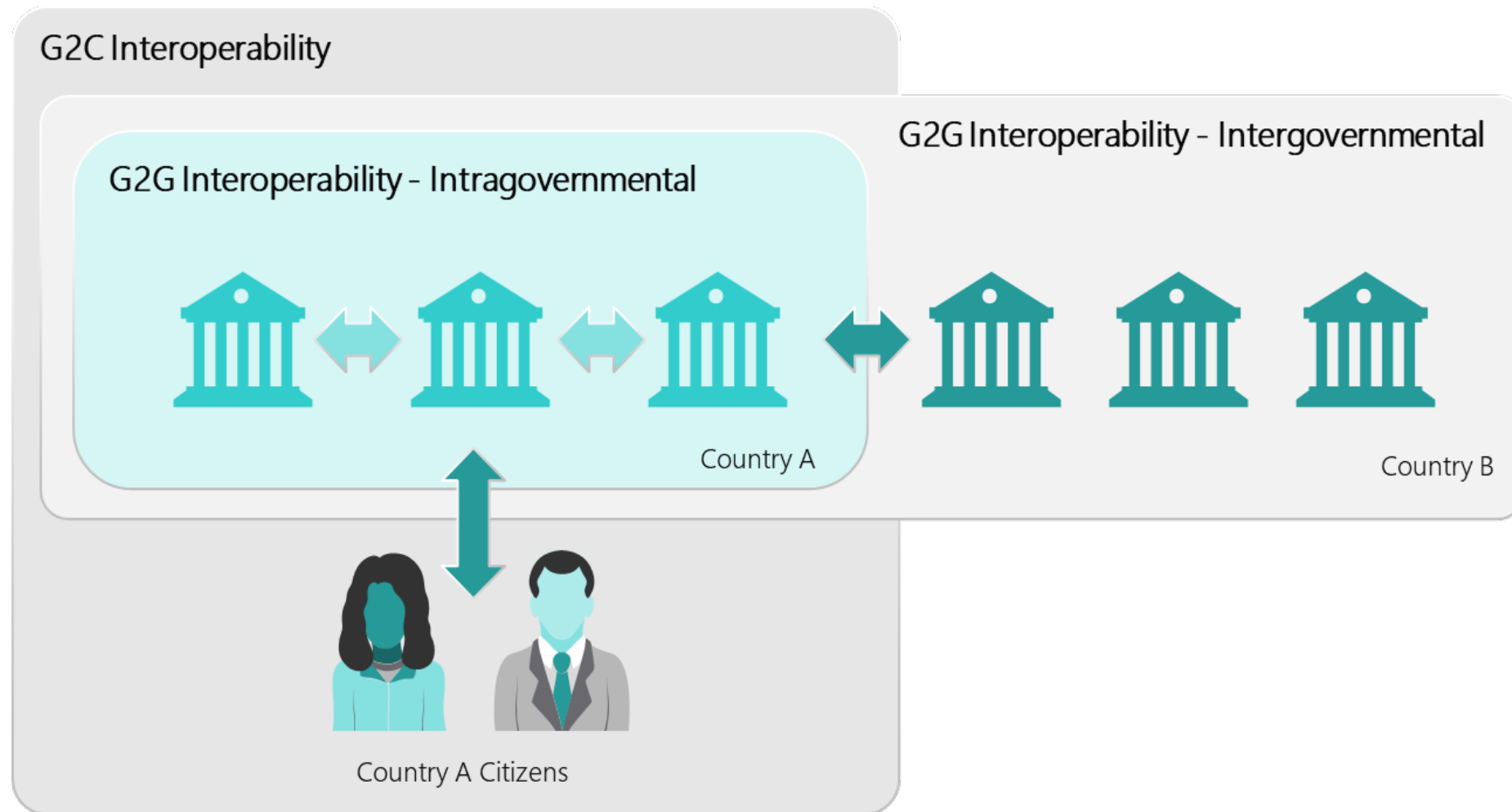


Fundamental key enabler of whole of government approaches

Core government systems

Citizen-centric service delivery

Interoperability



Why Interoperability matters?

More efficient
service delivery

Open standard
and service
composability

Life events and
once-only principle

Citizen-driven
omnichannel
service delivery

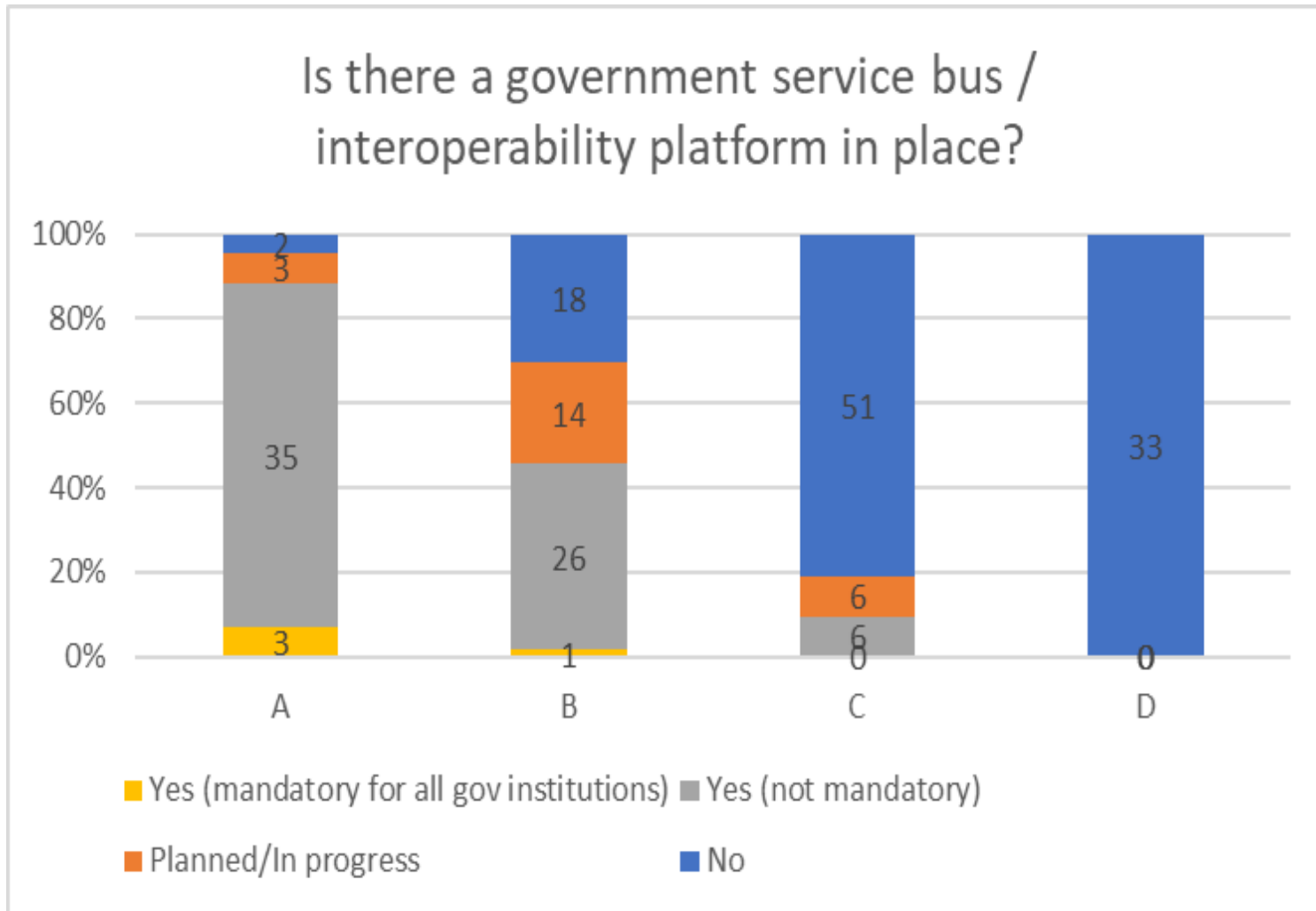
Automated and
proactive service
delivery

System resilience

Open data value
creation

Data-driven policy
making and
planning

Why Interoperability matters?



Source: World Bank (2021) Govtech Maturity Index



What is GovTech Maturity Index (GTMI)

The GovTech Maturity Index (GTMI) measures the state of four GovTech focus areas using 48 key indicators defined to collect data from 198 economies



Core Government
Systems Index (CGSI)
17 indicators



Public Service Delivery
Index (PSDI)
9 indicators



Citizen Engagement Index
(CEI)
6 indicators

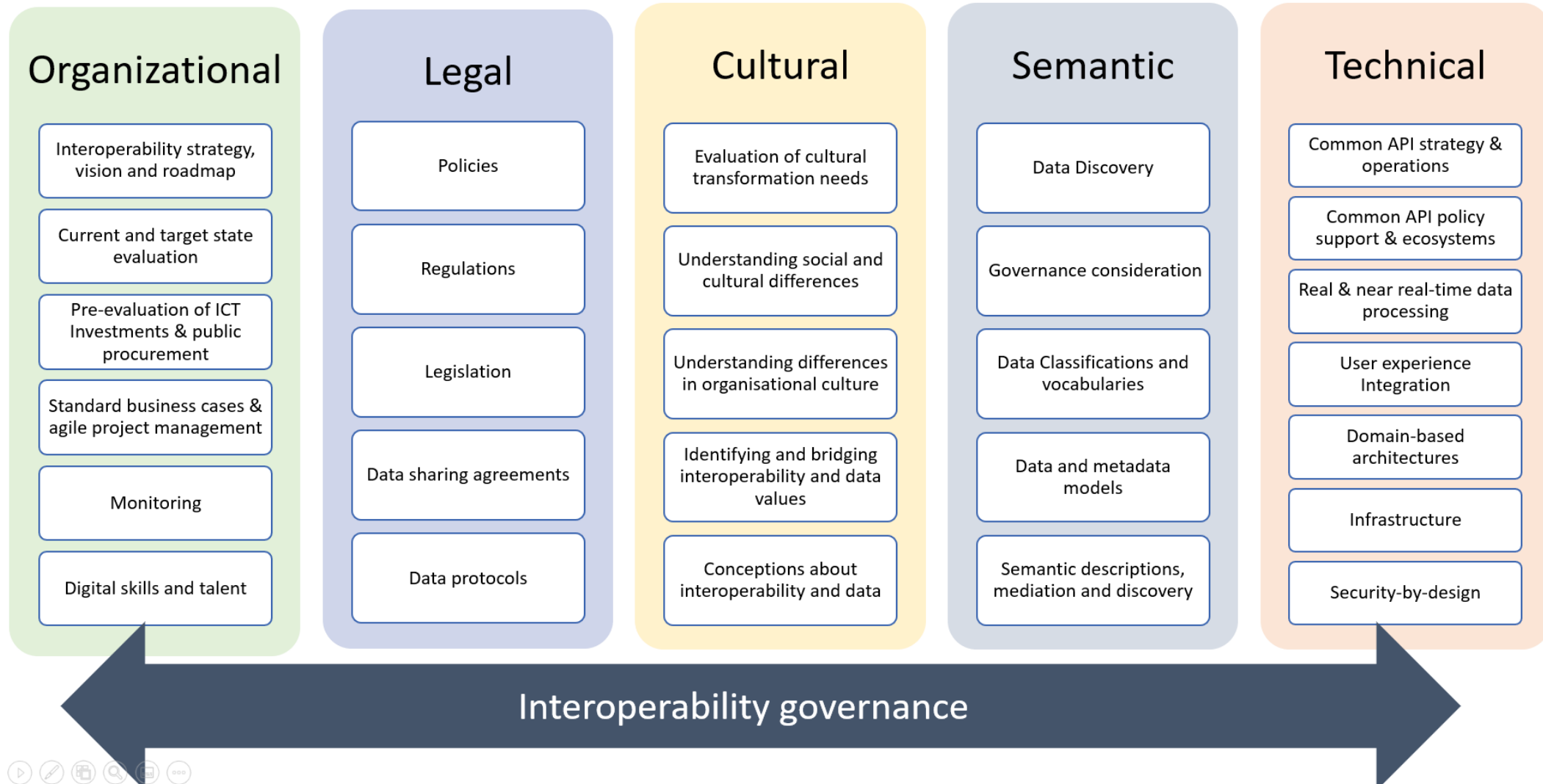


GovTech Enablers Index
(GTEI)
16 indicators

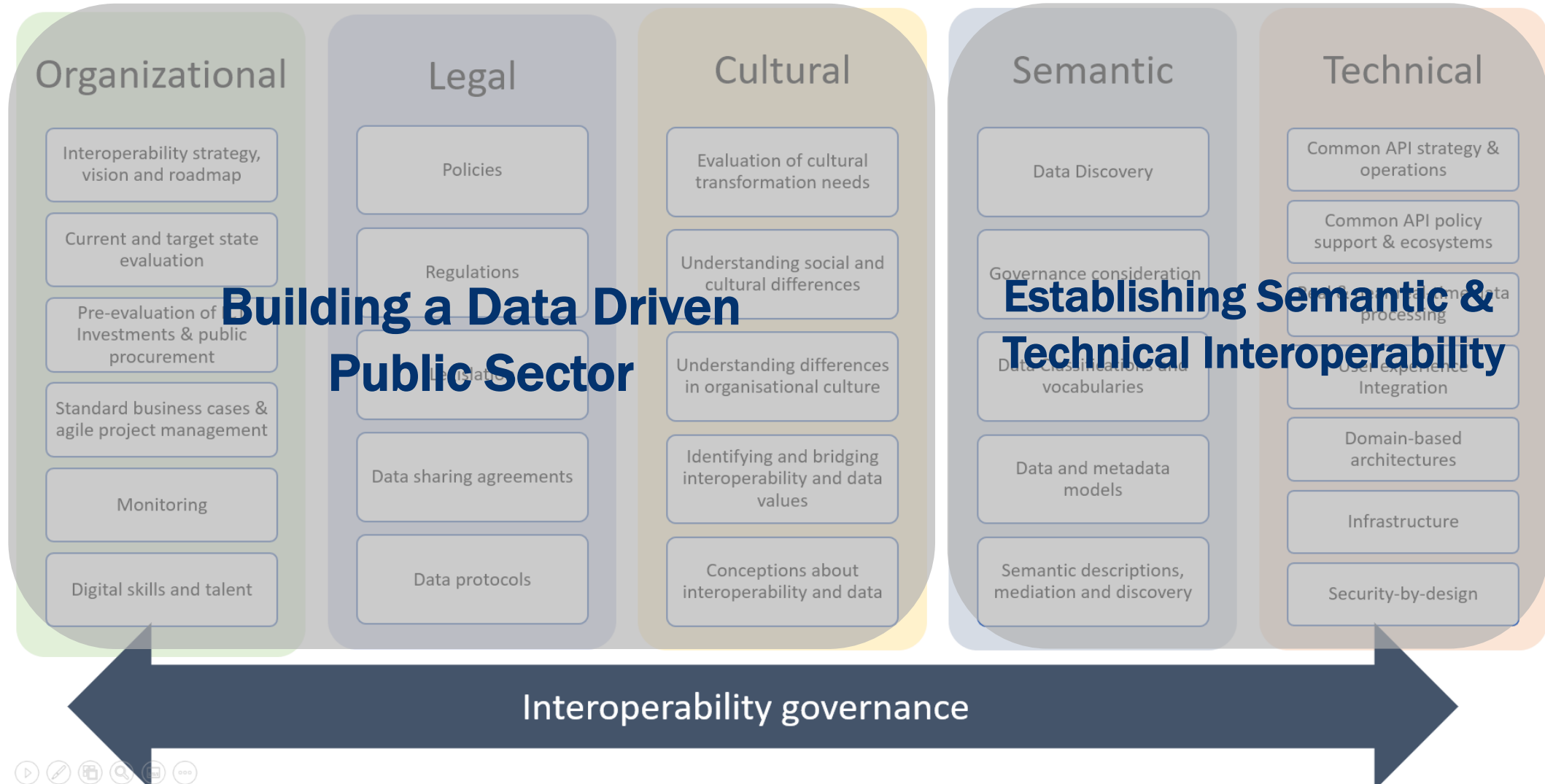
2022 GTMI Online Surveys

- Central government: 135 countries completed surveys + 63 countries remote data collection
 - ➡ Data validation by the end of June
- Sub-national government: 77 completed surveys + 68 in progress

Whole-of-Government Approach is required



Whole-of-Government Approach is required



Building a Data Driven Public Sector



Building a Data Driven Public Sector

1

Creating the basis for operations: policy and Institutional setting

Strategy

Coordination

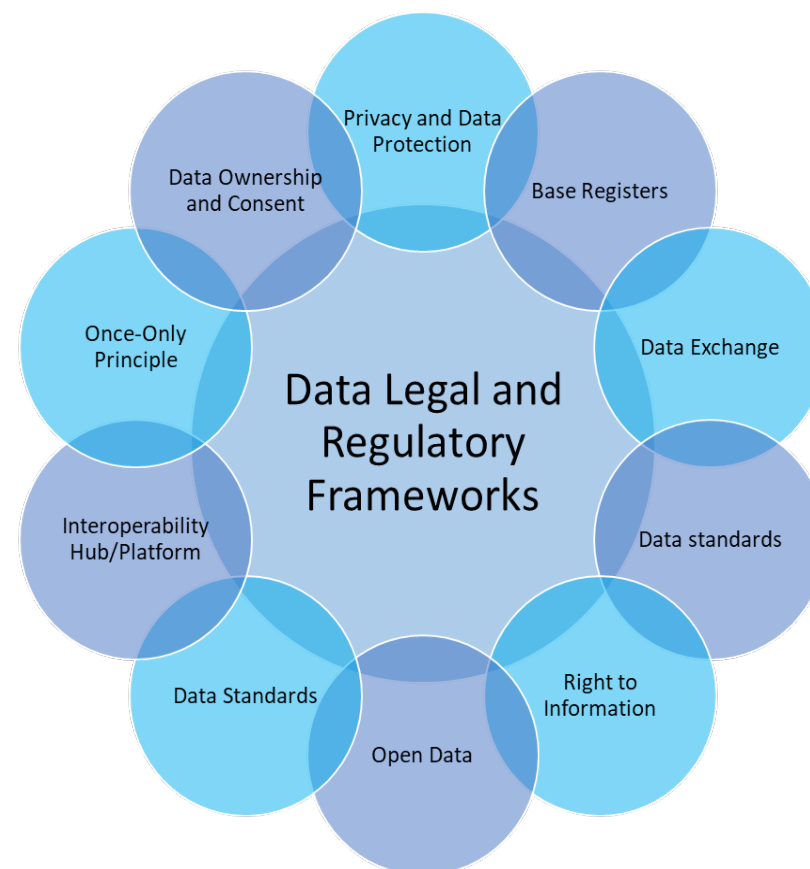
Leadership



Building a Data Driven Public Sector

2

Setting up trustworthy data governance



Building a Data Driven Public Sector

2 Setting up trustworthy data governance

Is there a whole-of-government approach to implement data Governance

- 114 of the 198 countries included in the GTMI don't have a whole-of-government approach to implement data Governance.
- In 68 countries it is being planned or in progress.
- Only 16 have it.



Building a Data Driven Public Sector

2

Setting up trustworthy data governance



Is there a data protection/privacy law

- 55 of the 198 countries included in the GTMI don't have a data protection/privacy law.
- 11 have it in a draft stage or a consultation is underway.
- 132 have it.

2 Setting up trustworthy data governance



Is there an open data website?

- 32 of the 198 countries included in the GTMI don't have an open data website
- 60 have it but it provides information only.
- 106 have it, providing access to data

Building a Data Driven Public Sector

3

Promoting data-driven culture and cultural interoperability

Drivers of cultural changes

- **Clearly demonstrated need to implement the once-only principle (UK)**

The interoperability project launched in 2019 by the Government Digital Service is now taking a leap through the development of the new government data hub

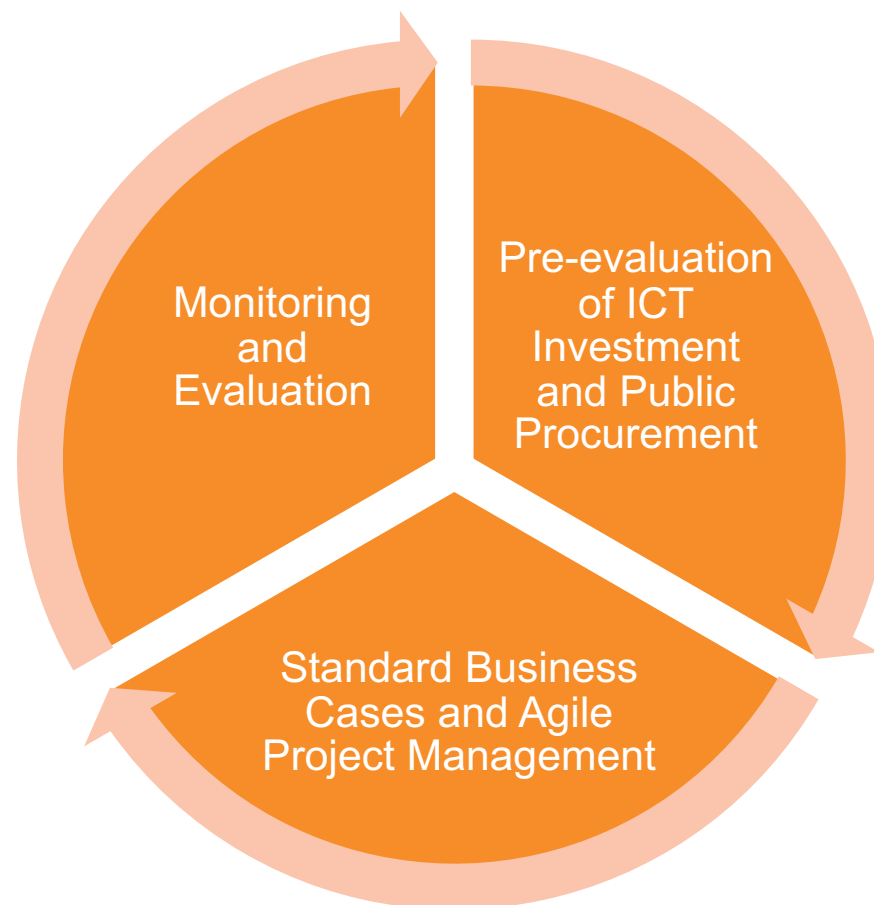
- **Co-creation approach with stakeholders (Denmark)**

The flagship Basic Data Program is not only successful thanks to its solid legal basis and technical infrastructure, but also because the government managed to unite stakeholders around a shared value proposition of efficiency and public sector modernization

Building a Data Driven Public Sector

4

Using policy levers for coherent implementation



Building a Data Driven Public Sector

5 Fostering data-driven digital skills and talent

AI and
Machine Learning

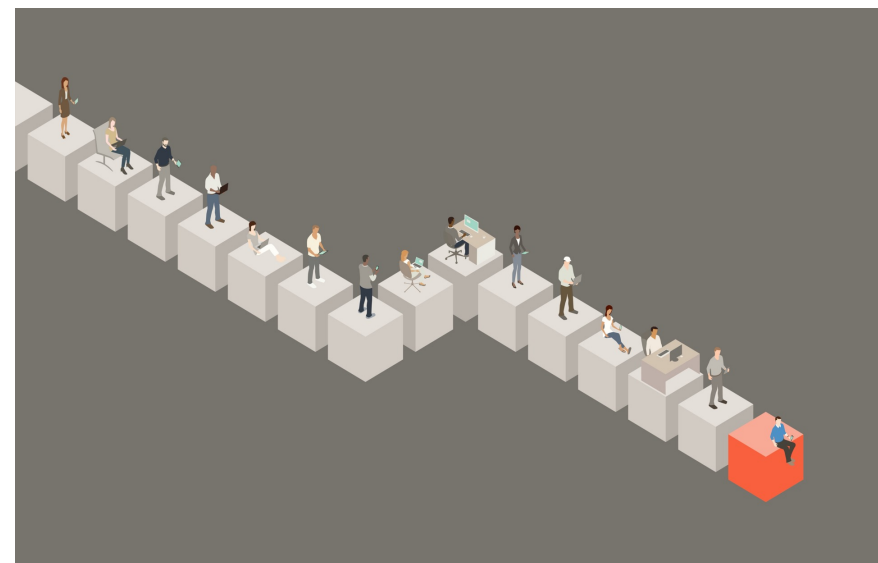
Big data analysis

Software and
applications

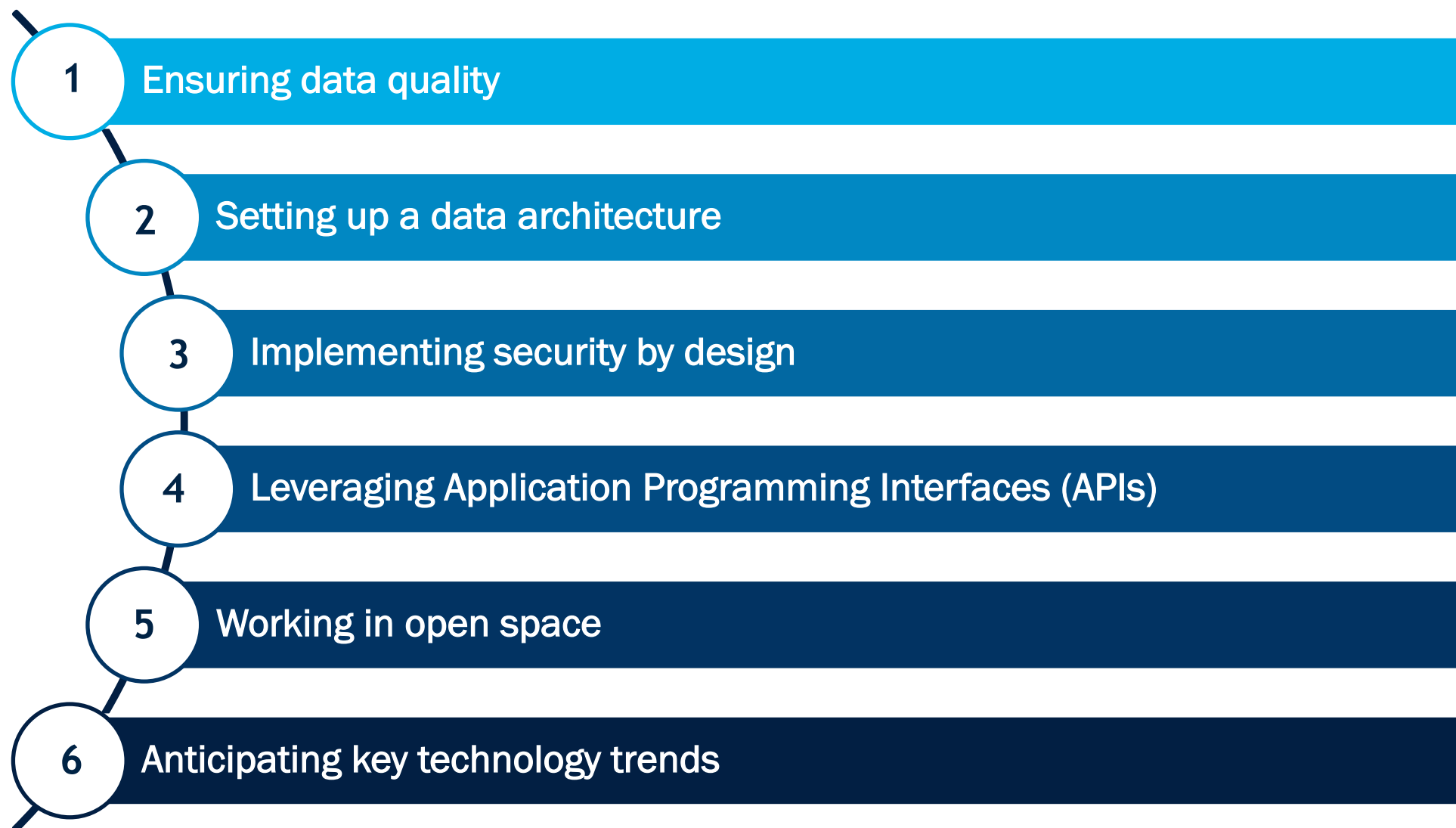
Data management

Data visualization

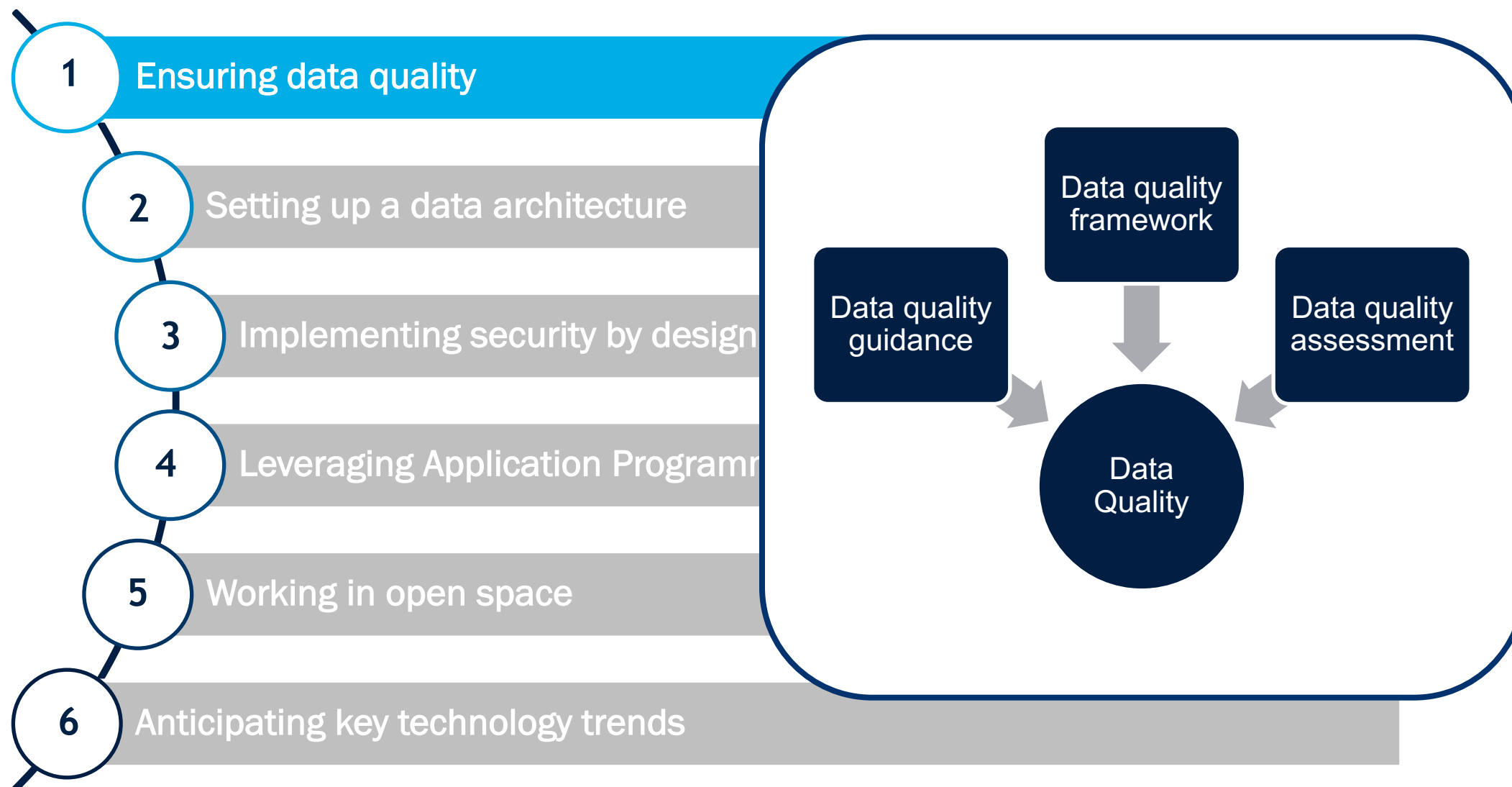
Blockchain



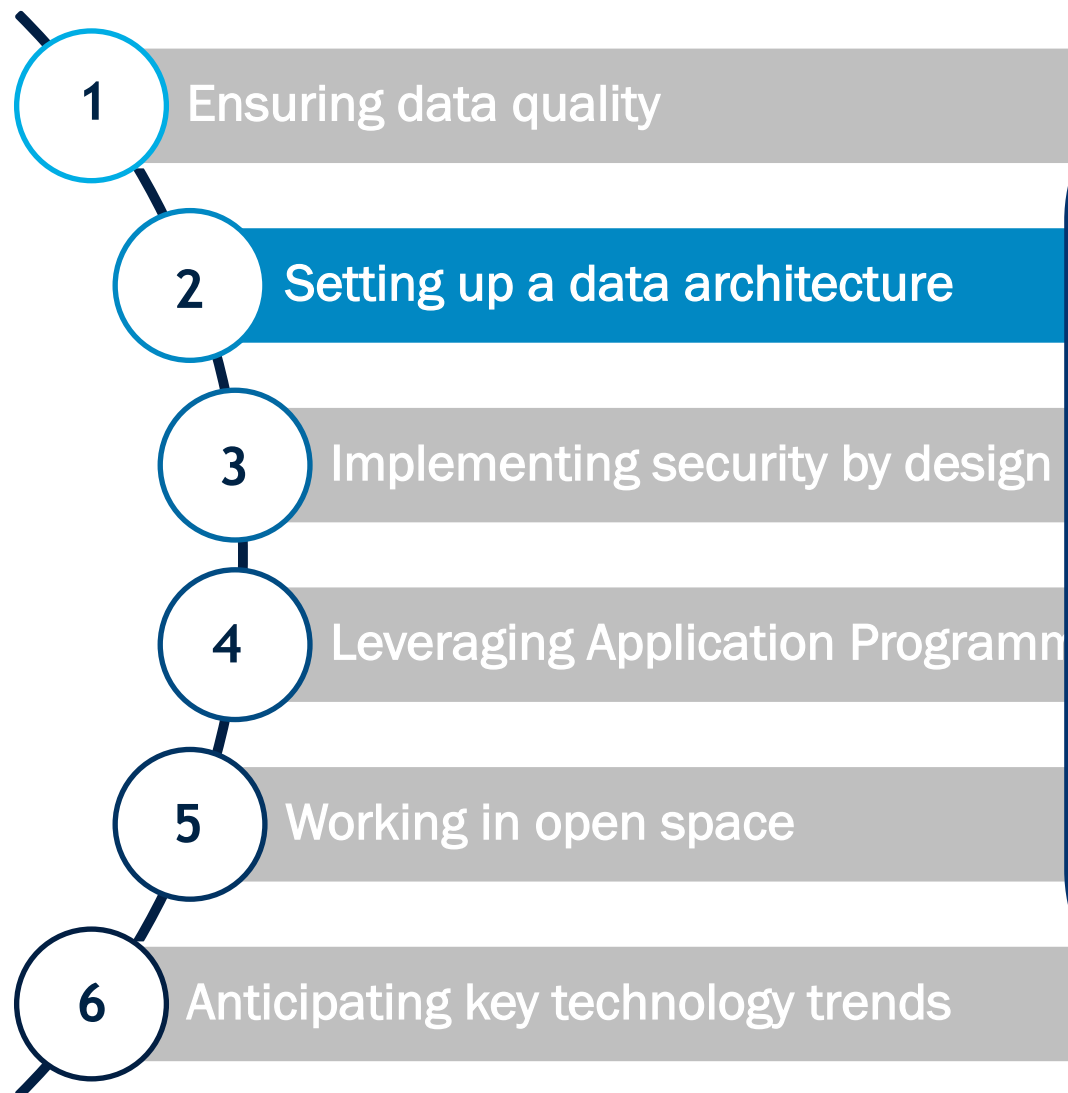
Establishing Semantic and Technical Interoperability



Establishing Semantic and Technical Interoperability



Establishing Semantic and Technical Interoperability



- **Government Enterprise Architecture**
- **Interoperability Platform**
- **Government Service Bus**

Estonia – The X-Road is one of the most famous interoperability platforms, being developed in Estonia and used in several other countries

Portugal – The Portuguese Interoperability Platform is also a good example on how to connect different sectors and levels of government

Establishing Semantic and Technical Interoperability

Is there a government enterprise architecture

- 137 of the 198 countries included in the GTMI don't have a government enterprise architecture.
- In 16 countries it is being planned or in draft.
- 39 countries have partially implemented.
- 6 countries have it.



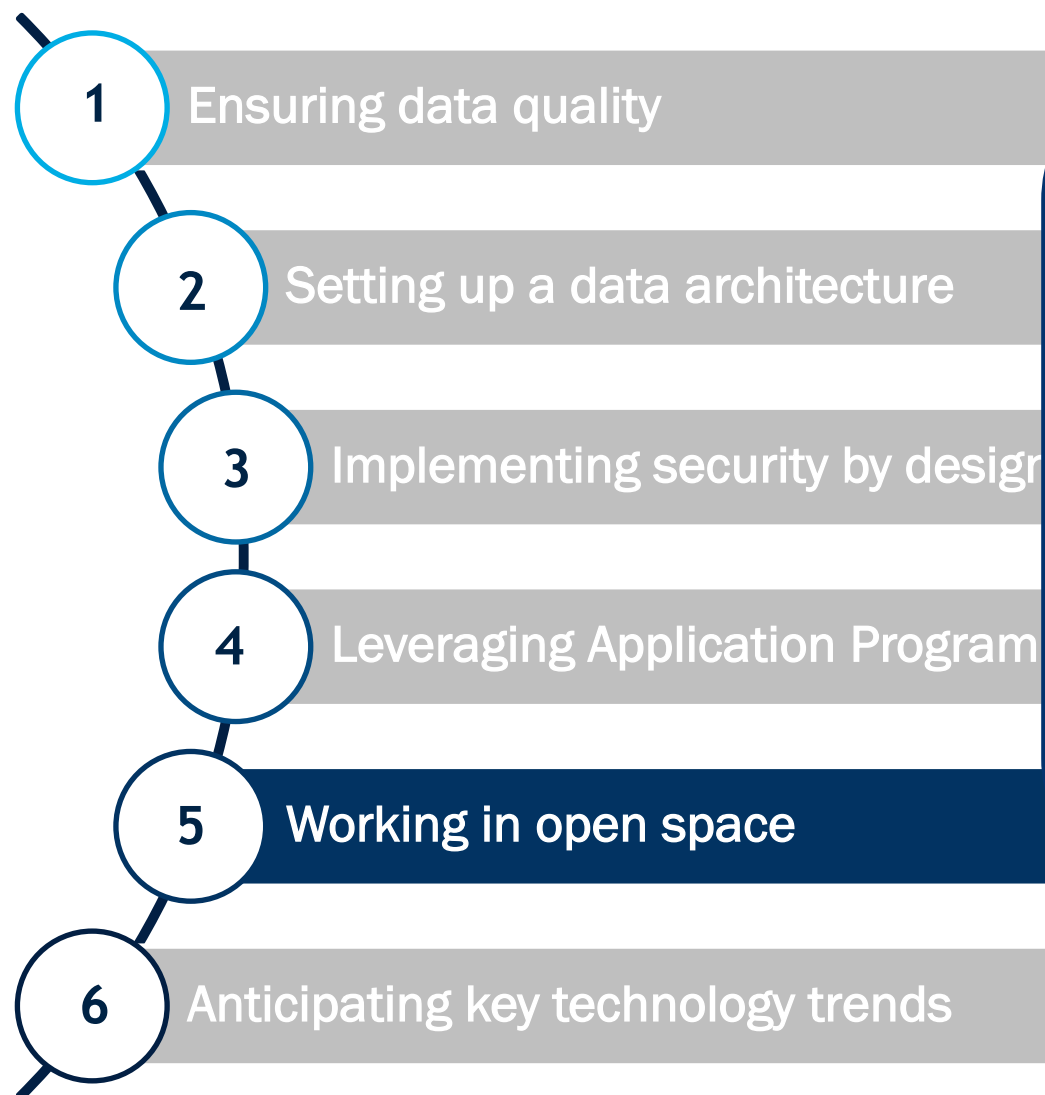
Establishing Semantic and Technical Interoperability



Is there a government service bus or interoperability platform in place

- 104 of the 198 countries included in the GTMI don't have a service bus or interoperability platform in place.
- In 23 countries it is being planned or in progress.
- 67 countries have it in place, but its use is not mandatory.
- Only 4 countries require the mandatory use of their interoperability platform or service bus.

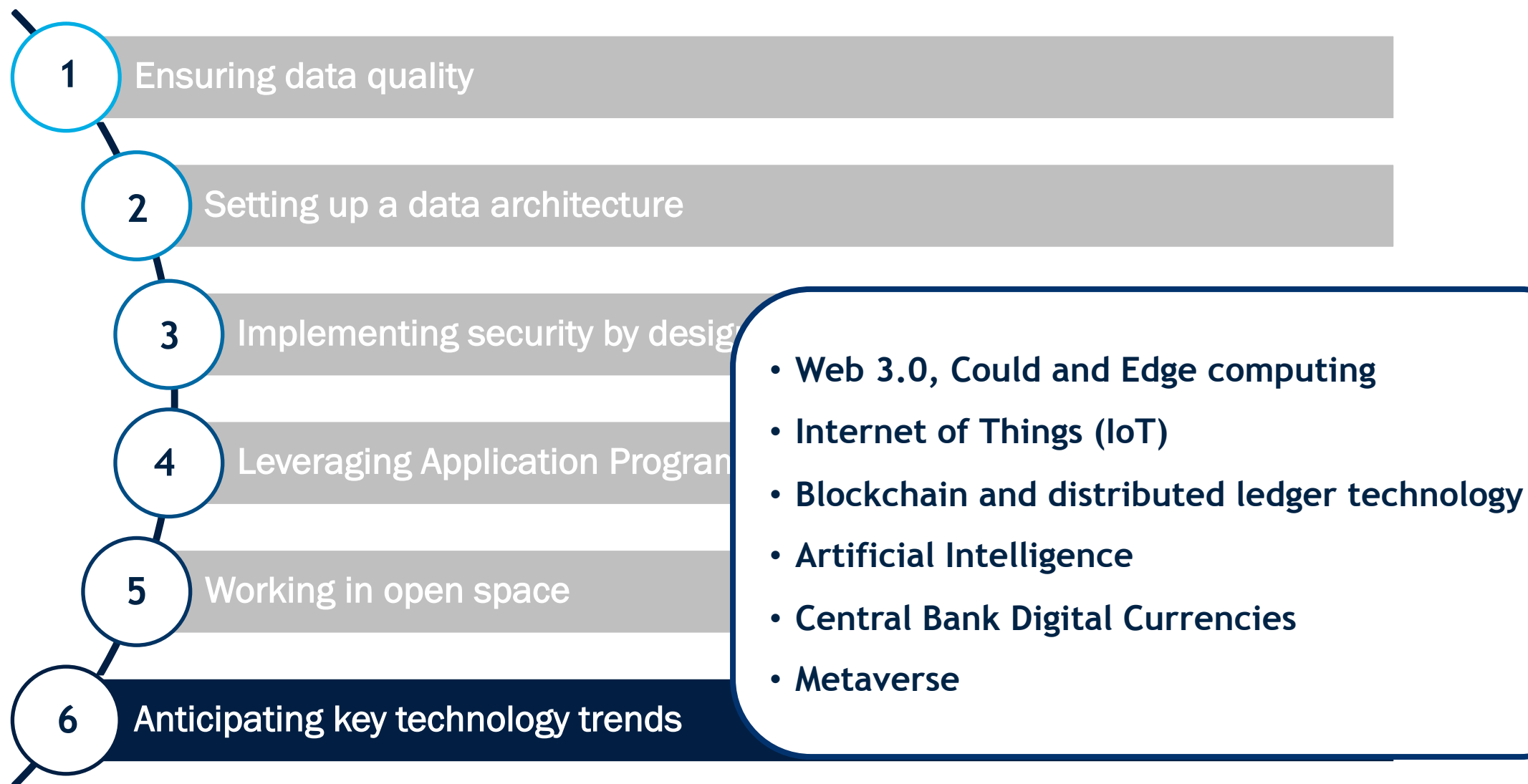
Establishing Semantic and Technical Interoperability



Singapore – The single window initiative were to minimize the cost and effort to connect with trade partners and collaborate locally and overseas with new and existing partners, and permit partners to apply for trade-related services directly with Singapore Customs.

Korea – e-Government Standard Framework provides increased interoperability as government agencies build applications based on common framework. This was developed as open source-bases, and source codes were provided at no cost through eGovFrame website.

Establishing Semantic and Technical Interoperability



THANK YOU

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- GovTech Website: www.worldbank.org/govtech
- GovTech/GTMI web page: <https://www.worldbank.org/en/programs/govtech/gtmi>
- GovTech OLC e-Learning course: <https://olc.worldbank.org/content/govtech-fundamentals-and-key-concepts>

Country Experiences

Please share the status of interoperability in your country

- *How have you designed and implemented interoperability?*
- *What were challenges and difficulties you met and how did you address them?*
- *What are successful factors for sound interoperability with the perspective of whole of government approach?*

Success Factors of Korea's Digital Government

International Meeting “Cooperation and Capacity Development in Digital Government”
(June 2022, Tbilisi)



Ministry of
the Interior and Safety

CONTENTS

1. Overview of Korea's Digital Government

2. Success Factors

3. Best Practices

4. International Cooperation

5. More in the Future



1. Overview of Korea's Digital Government

Korean Digital Government in Numbers

17K public sector information systems

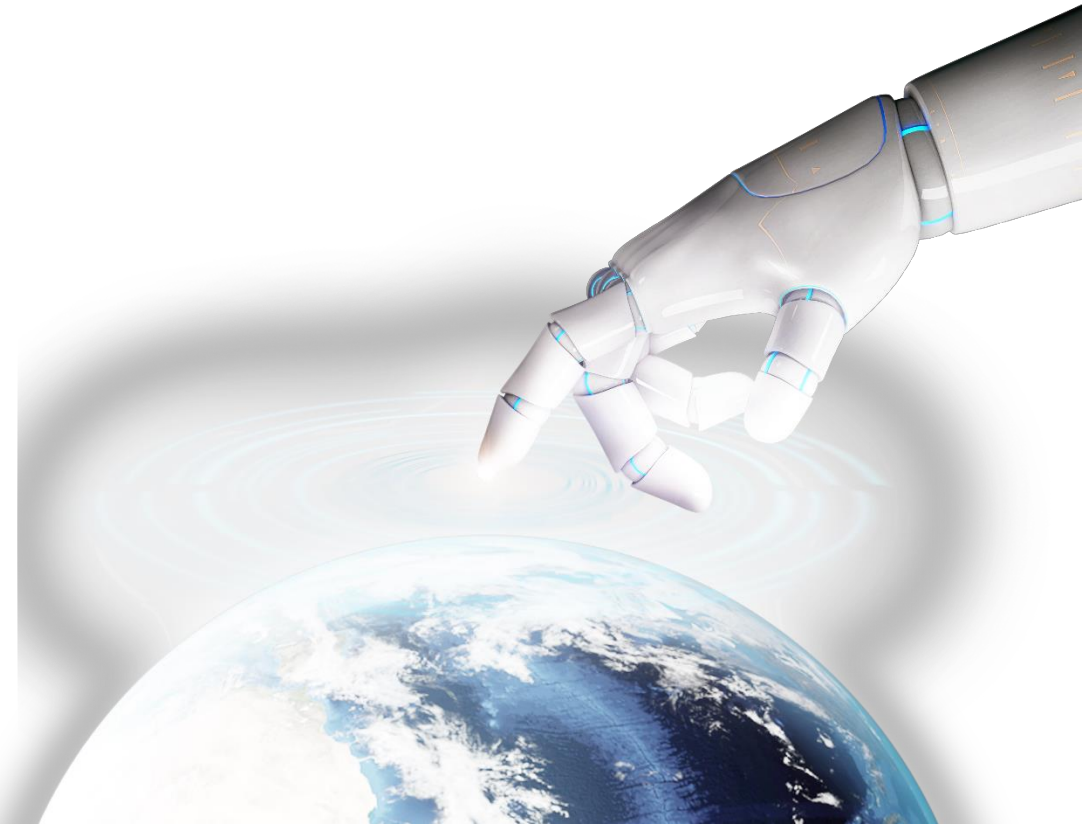
37M Koreans, **89%** of population are Using Digital Government

98% of users are Satisfied with Digital Government Services

#1 OECD Digital Government Index 2019

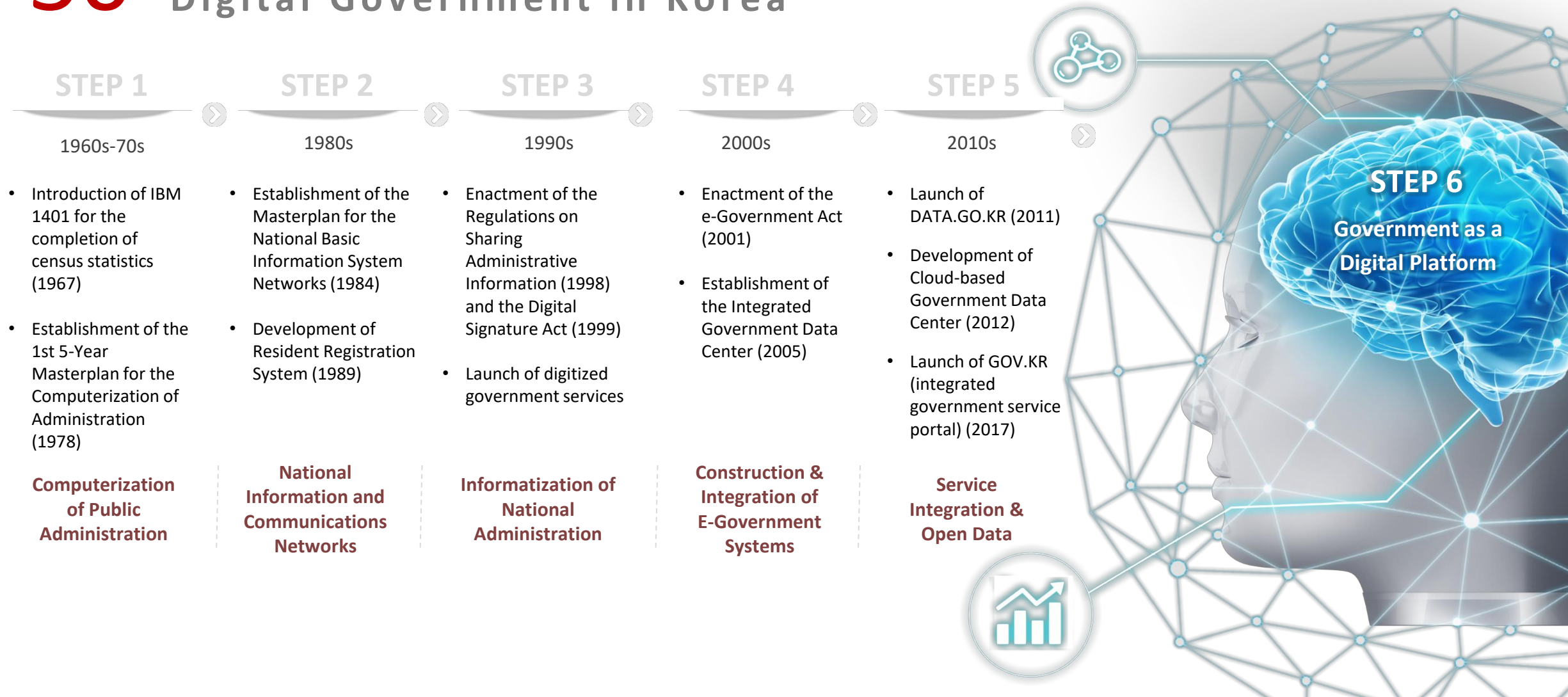
#1 OECD OUR(Open-Useful-Reusable) data Index 2019

#2 UN e-Government Survey 2020

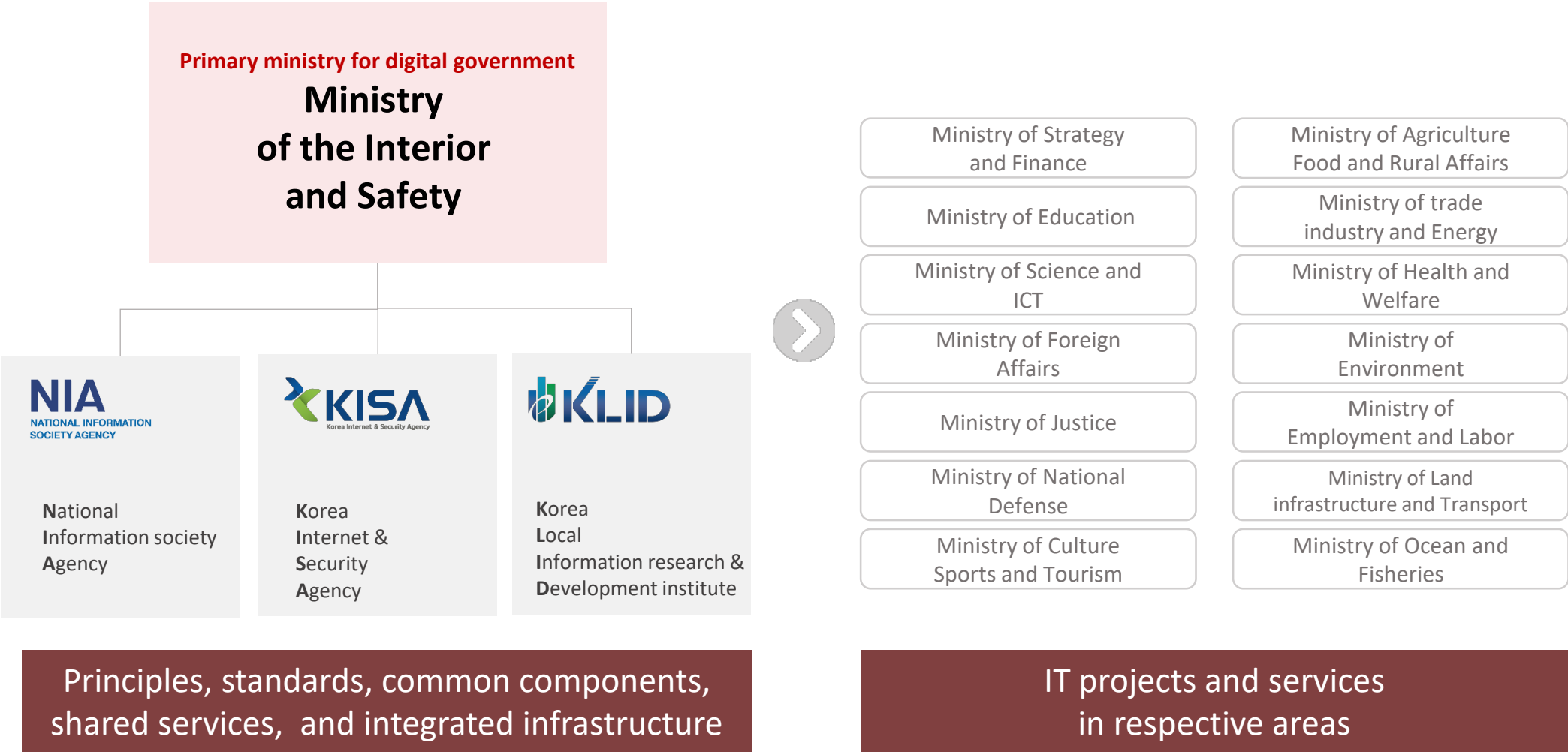


Journey of Korea's Digital Government

50 years of Digital Government in Korea



Digital Government Organizations



Digital Government Services

Service-oriented government

Effective & efficient government

Transparent & open government



G2C

Gov24

Open Data
Portal

National Health
Insurance

e-People
(Participation)

Hometax
(e-Tax)

Edunet
(e-Education)

G2B

UNI-PASS
(Customs)

KONEPS
(Procurement)

Bizinfo
(SMB support)

KIPO net
(Intellectual properties)

G2G

G2E

Shared Mobile
Service Platform

Digital Budget
Accounting

Digital document
& BPMS

Shared Services
for Local Gov.

Personnel
Management

Public Information
Sharing Center

National Information Resources Service
(Government Integrated Data Center)



2. Success Factors

Success Factors



Success Factors from a Technological Perspective

Integrated Infrastructure

- Increased Efficiency by Server Consolidation and Shared Infrastructure
- Enhanced Security
- Systematic Operation and Maintenance

Unified Application

- Efficient Communication and Data Exchange among Agencies or Systems
- Rapid Service Improvement and Distribution

Standardized Data

- Reducing Exchange Overhead with Standard Codes, e-Document Format Standard, and Database Design Guidelines

Success Factors from an Administrative Perspective

Early adoption of Civil Registration

- Civil Registration started from 1968, Every citizen has a unique identification number.
- The identification number has been used as a key identifier to manage public databases.
- Databases can be joined or linked easily through the identification numbers.

Dedicated project funding & prioritizing essential services

- The Ministry of the Interior and Safety collaborates with the Ministry of Economy and Finance to allocate proper amount of budget to e-government projects
- Implement essential and high-demand services first

Reviewing and adjusting IT projects from planning phase to inspection phase

- The Ministry of the Interior and Safety is in charge of reviewing IT projects with the support from the National Information Agency
- The National Information Resources Services Institute works with other agencies to implement, operate, and maintain services which are located in the Government Data Center.



3. Best Practices

National Information Resources Service

Government Integrated Data Centers(GIDC) shared among ministries and agencies

- 2 data centers for mutual backup and disaster recovery
- Providing IT resources for 45 government ministries and agencies
- High efficiency, availability, and robustness
- Cybersecurity management based on AI
 - Automatic identification/Analysis/Response with AI
 - Response time : More than 10min → less than 30sec
 - 1,000 events per day → 10 million events per day



Public Information Sharing Center

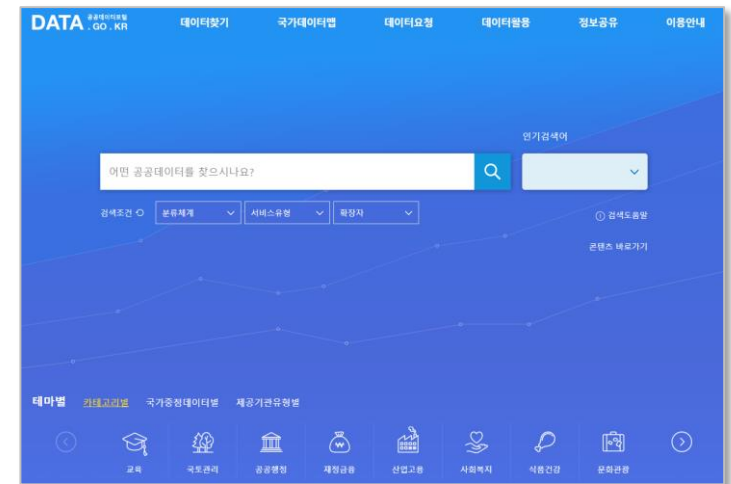
Pan-government data hub to share data among government entities

- 5,100 types of data from 499 agencies are shared through machine-to-machine communication
- 162 types of administrative information from 34 agencies for 2,789 administrative processes can be searched & used by authorized officials
- Sharing information with financial institutions
- Reduced more than 1M tons of CO₂ (2011~2020)



Integrated public open data portal of the Korean Government

- About 50,000 datasets from 956 public institutions
- More than 7,000 open APIs
- Data catalogue, National Core Data, Standard Datasets
- Annual evaluation of open data provision & management



On-Nara BPS (Business Process System)

The standard digital-document based groupware for government ministries and agencies

- 600K users of 295 ministries and agencies
- 470K documents processed per day
- Digital signature verification and forgery prevention
- Digital document based governmental workflows
- Knowledge archive for future reference



Safety e-Report

Reporting safety risks or inconveniences of daily lives to government

Citizens may report:

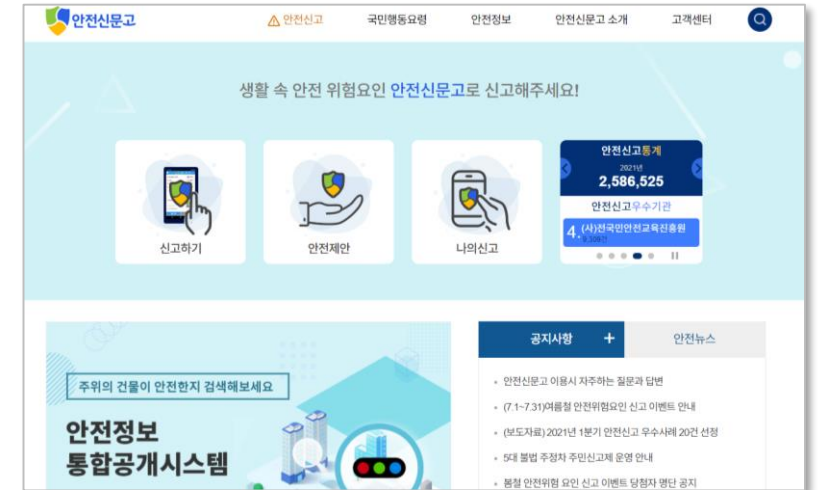
- Any possible risks regarding disaster, accident, and crime
- Damaged or malfunctioning public facilities
- Illegal parking, waste disposal, and other violation of regulations

The government should respond:

- More than 8M reports since 2014
- Solved 99% of reported problems

Citizen-centered service

- All central and local government organizations are connected
- Location-based quick photo report with a mobile app



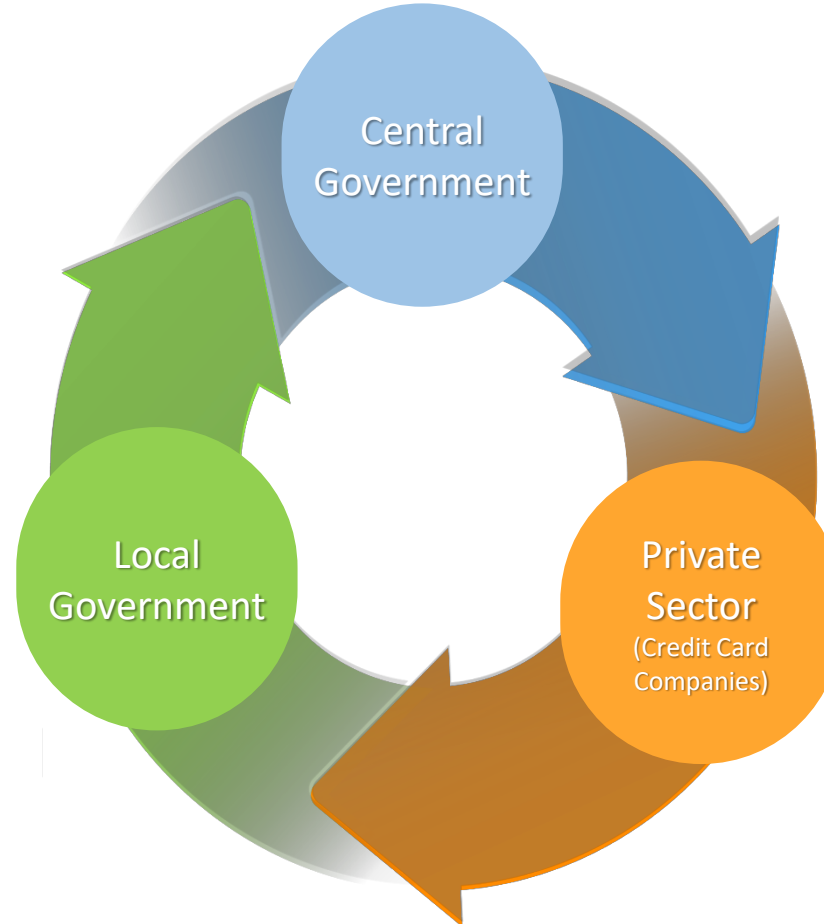
COVID-19 Relief Fund Distribution

Well-Organized
Government Data

Silo-Free Pan-Government
Cooperation

Collaboration
between the Private and
the public sector

Integrated Data Platforms
and Infrastructure



A new information
system set up
within a month

21M household received
the fund within a month



4. International Cooperation

Digital Government Cooperation Center

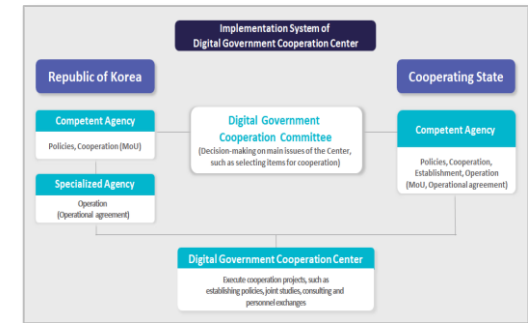
Concept

- A joint team for digital government development of partner country
- For 3 years, a Korean digital government expert works together with officials of a partner country



Responsibility

- Korea: Fund for projects + Cost for secondment of the expert
- Partner Country: Cost for office management



Activities

- Joint projects for F/S, BPR/ISP, Proof of Concept, Pilot Service etc.
- Policy or technology consulting by Korean experts
- Workshop or seminar



Capacity Building Program

Digital government policy course for partner countries

- 1 week program on e-government policy research, case study, and experts meeting
- Recommended for senior government officials

On-demand thematic courses

- Sharing knowledge and experiences about issues demanded by a partner country



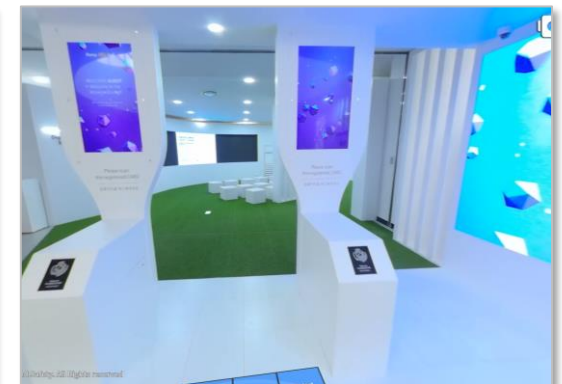
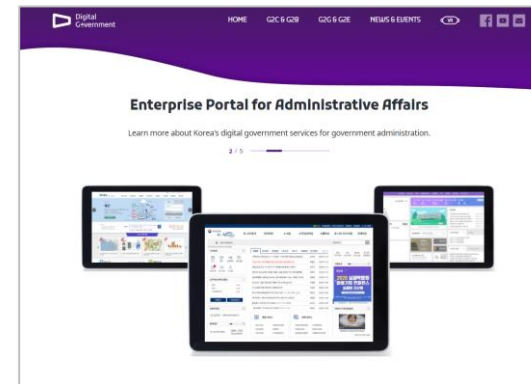
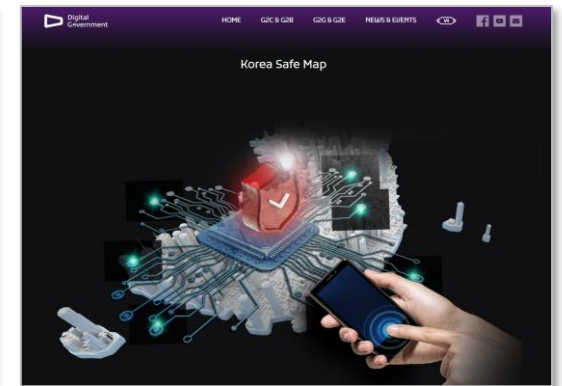
Bilateral Cooperation Events

- High-level meeting
- Forum / Workshop / Seminar
- Digital Government Delegation



Introduction website of the Korean digital government

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





5. More in the Future

Government as a Digital Platform

Vision

World-leading governance; a digital platform connecting all data

Goals



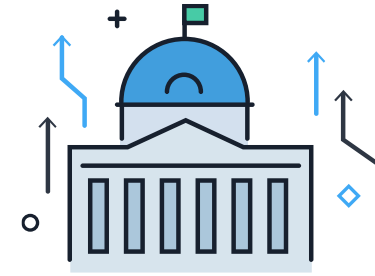
Satisfied Citizen

**Proactive & Personalized
Services**



Innovative Business

**Public-Private
Collaboration Ecosystem**



Rational & Scientific Government

**Government workflow
Optimize by Data & AI**

9 Principles of Government as a Digital Platform

- 1 A government should actively encourage public-private collaboration to nurture **innovation ecosystem** and shared growth of the public and the private sector.
- 2 Public data should be **open by default** in **machine-readable digital formats** .
- 3 Public services should be **user-centered, integrated, proactive, and personalized** for each citizen.
- 4 A government should break down silos and implement **the whole-of-government** with digital platforms.
- 5 A government should **redesign administrative processes**, innovate organizational culture, and overhaul personnel management systems.
- 6 A government uses data and artificial intelligence for **evidence-based scientific decision making**.
- 7 A government should protect personal information and **ensure safe and reliable access** to public services.
- 8 A government uses and develops **open standards** to facilitate sharing data and services between the public and the private sector.
- 9 A government should comply with existing global standards and **actively contribute to the creation of new global standards** in the course of developing Government as a Digital Platform

Thank You



Ministry of
the Interior and Safety