

# Use of ICT Statistics in Policy-making

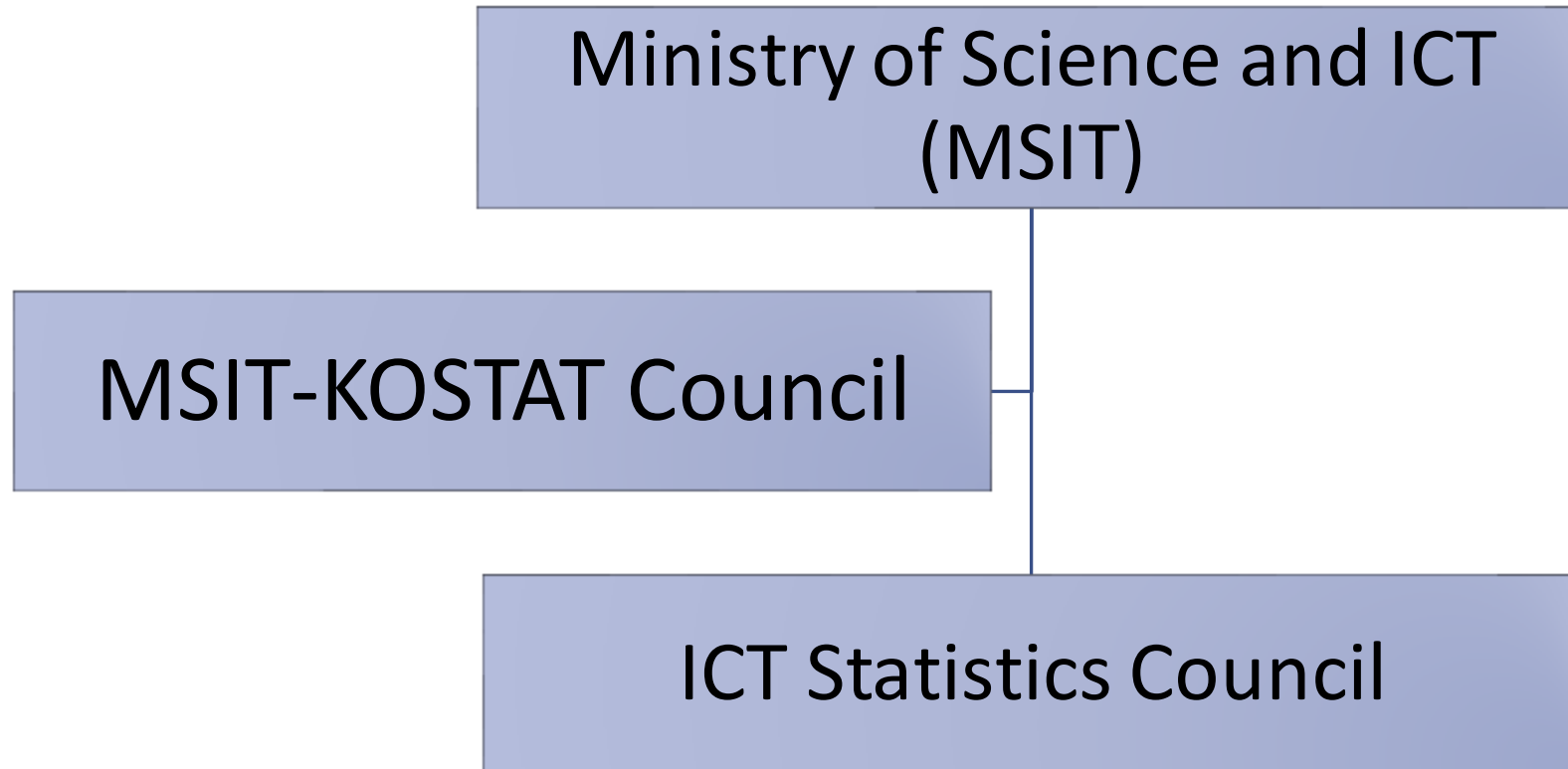
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MINISTRY OF SCIENCE AND ICT OF KOREA

5 NOVEMBER 2020

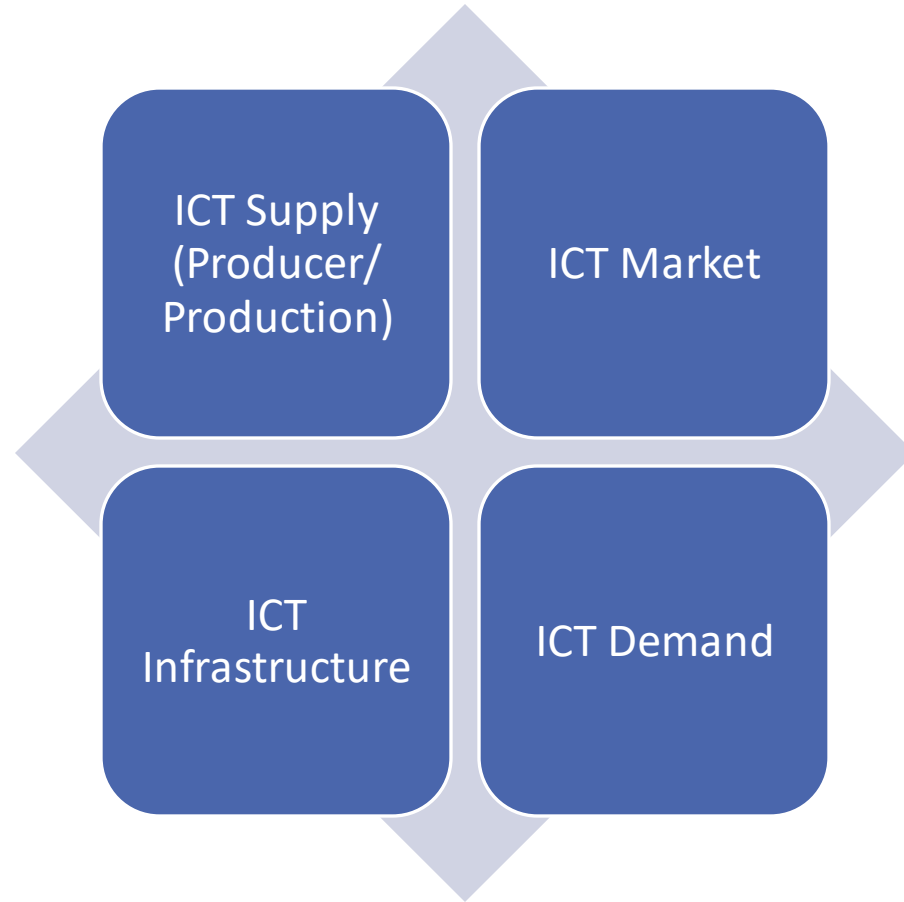
# ICT Statistics System

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# ICT Statistics System

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# Policy Use Support

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## **ICT Statistics Booklet**

- Publish ICT statistics booklets to provide relevant and timely statistics (three times per year)
- Contents: ICT and national economy; latest information on ICT Industry, major ICT sectors, ICT infrastructure; comparison with other countries

## **ICT Statistics Portal**

- Operate a portal where one can see all ICT statistics at a glance
- Contents: macroeconomics, ICT industry, network/broadcasting, information service/new industry, informatization/ICT use, R&D, postal/financial services
- Provide micro data which allows ICT statistics to be used in diverse areas

## **ICT Statistics Analysis Report**

- Provide statistics-based analysis report on the latest trends of ICT industry (monthly)
- Contents: Recent ICT statistics, latest ICT industry trends based on statistics

# ITSTAT (ICT Statistics Portal)

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거시경제
ICT산업
통신/방송
정보서비스/신산업
정보화/ICT활용
R&D
우편
국제ICT지수
통계알리미
ICT통계분석
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ICT industry

Overall ICT industry

- Production
- Export and import by item
- Number of businesses
- Number of employees
  - Number of total employees
  - Number of regular employees
- Value Added

Detailed production statistics by item  
 SW industry  
 Small and medium-sized enterprises statistics  
 Statistics by area

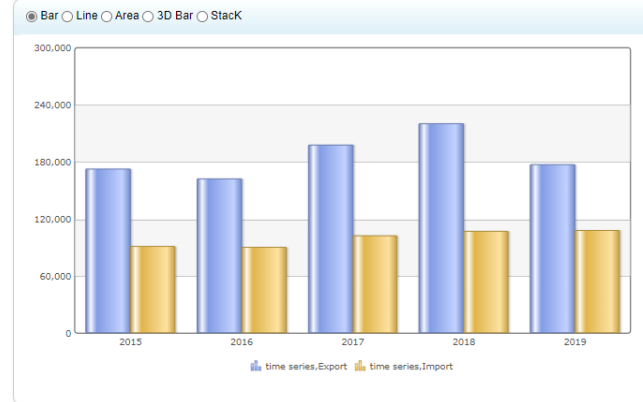
ICT industry | Overall ICT industry | Export and import by item

## Export and import by item

Search element
 
 Year
  Month
 

 2015 ~  2019

### Export and import by item



## Korean ICT in the world

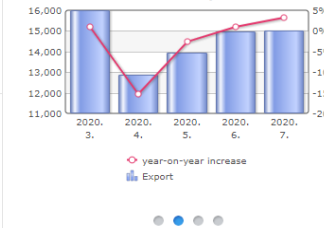
- ICT Development Index(ITU) **2**
- Government Readiness Index (UN) (2016) **3**
- World Competitiveness Index (IMD, technical infrastructure part) **15**
- Network Readiness Index(WEF) **13**

## Top 10 export items

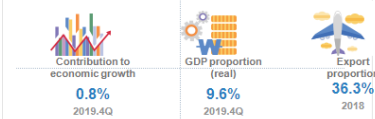
(2020.1-9,100 million dollar)

## Major ICT statistics

### Total export amount of the ICT industry



## ICT in the Korean economy



## Macroeconomic indicators

- Economic growth rate  
2019.4Q: **1.2%**
- GNI per Capita  
2018: **33,434Dollar**
- Unemployment rate  
2019.4Q: **3.1%**
- International oil price  
2020.4.20: **-37.63Dollar**

## Service subscriber status

- Mobile phone (2020.2): **6,907**
- Smartphone (2020.2): **5,137**
- IPTV (2018.12) Personnel proportion: **1,566**
- Tablet PC (2019.4) Personnel proportion: **210**
- High-speed internet service (2020.2) (10,000 persons): **2,193**

# Report on the Digital Divide

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## **Purpose**

- Measure and evaluate the progress of the policy on closing the digital divide among vulnerable populations, and obtain basic data needed to find an effective policy direction.

## **Legal Grounds**

- Framework Act on National Informatization

## **Respondents**

- General population (7,000, including 2,300 people aged over 55); People with disabilities, low-income population, residents of rural and coastal areas (2,200 each); North Korean defectors, marriage migrants (700 each)

## **Survey Period**

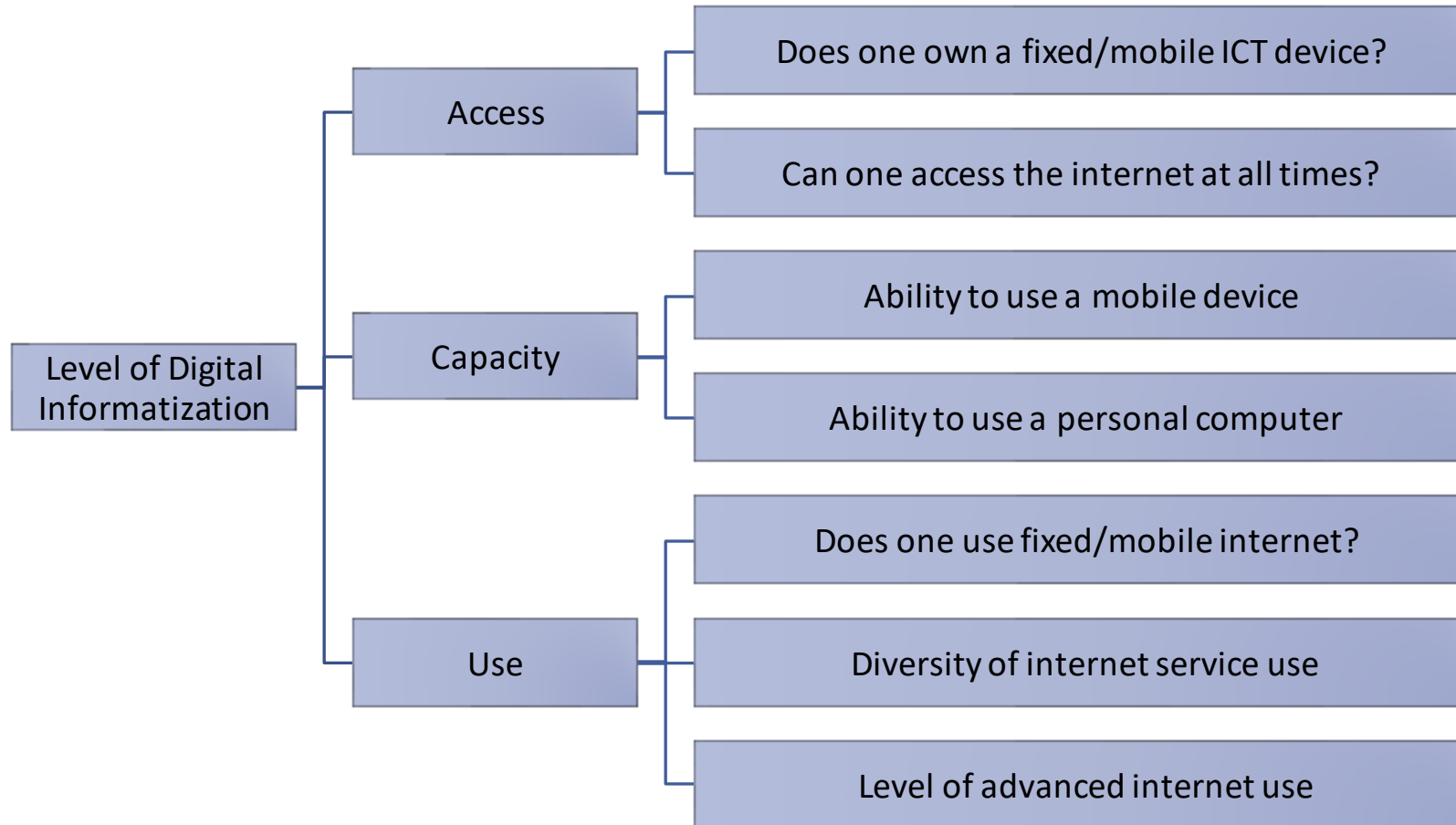
- September – November 2019

## **Survey Method**

- Interviewers visit households and have one-on-one interviews

# Report on the Digital Divide

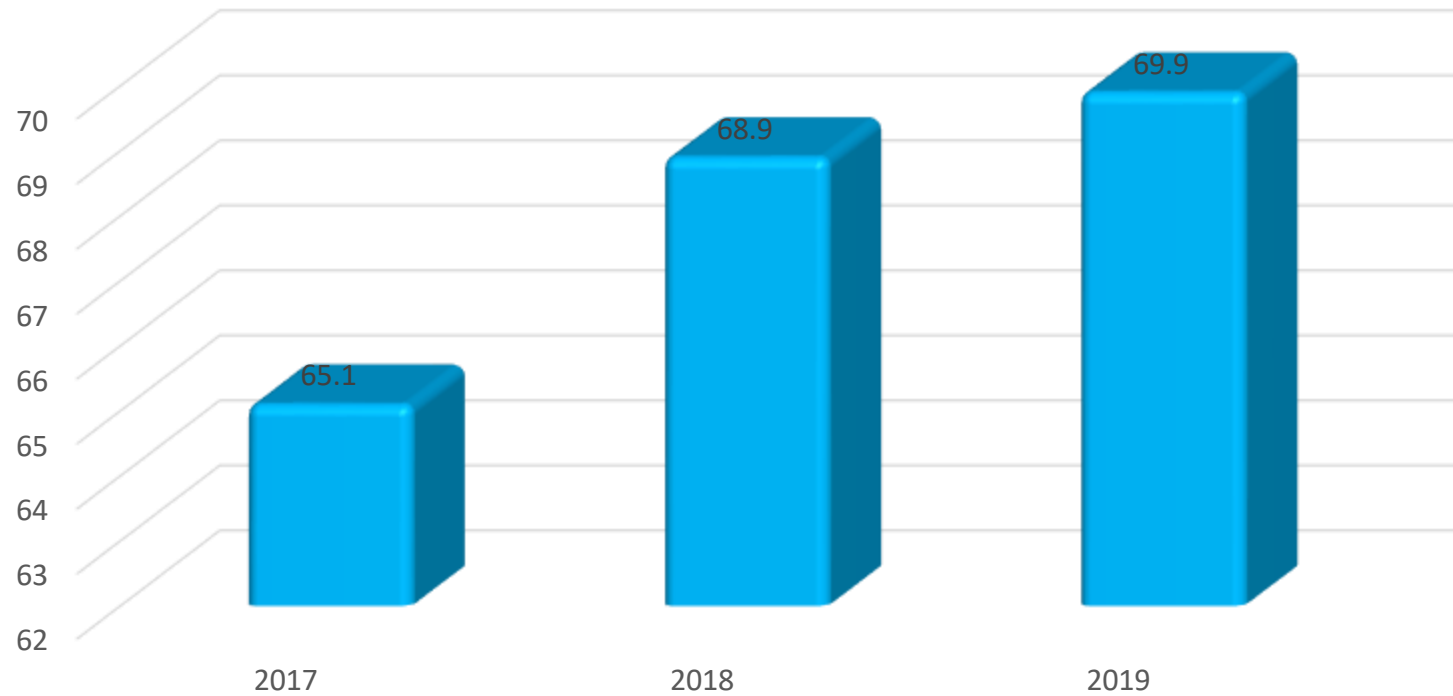
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# Report on the Digital Divide

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Digital informatization level of vulnerable populations  
(Comprehensive)

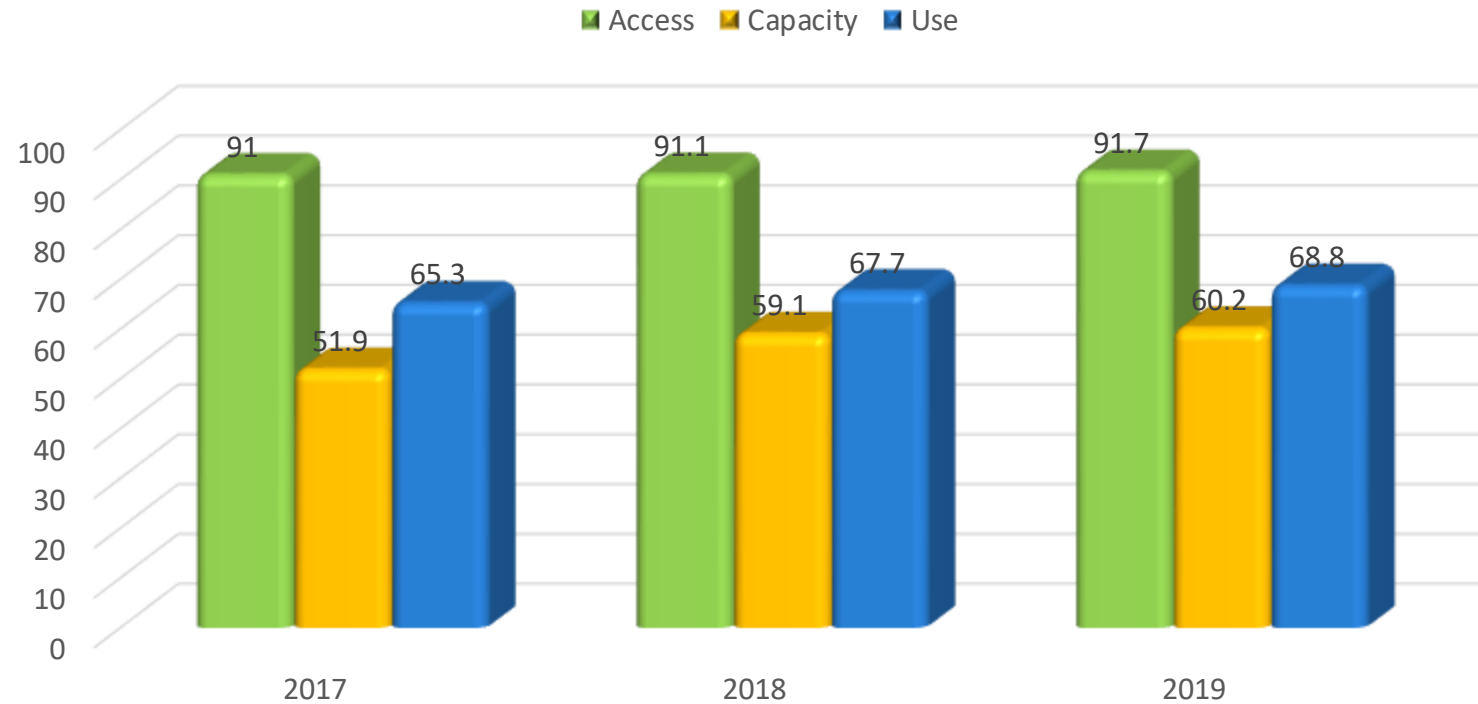




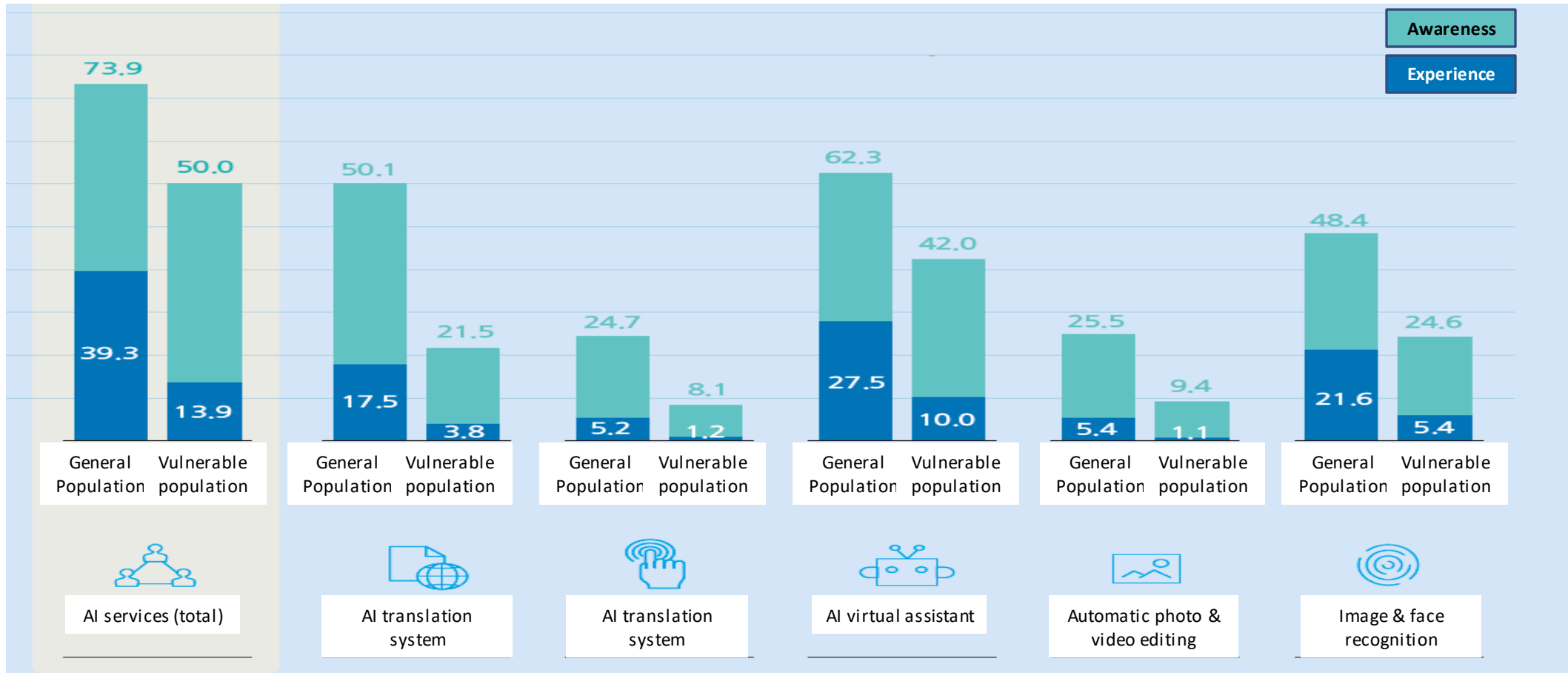
# Report on the Digital Divide

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Digital informatization level of vulnerable populations  
(Comprehensive)



# Report on the Digital Divide (AI devices & services)



# Policy Use Cases

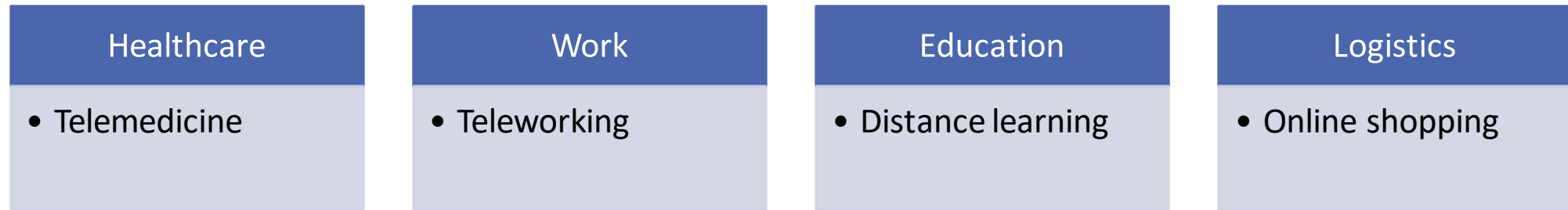
Policy	Statistics	Details
<b>Blockchain Technology Development Strategy</b>	Survey on Blockchain Industry	Current state of blockchain ecosystem (Number of enterprises, market size, number of workers, etc.)
<b>ACT (Accessible data, Competitive platform, Trustful ecosystem) to realize the Fourth Industrial Revolution</b>	Survey on Cloud Industry	Current state of domestic and international cloud markets (Market share of global companies, etc.)
<b>Strategy for Lifelong Learning and Training in the Digital Age</b>	Survey on the Digital Divide	Current state and future direction (Digital informatization capacity, level of digital skills, etc.)
<b>Strategy for Nationwide AI and Software Education</b>	Information Society Statistics/ Survey on the Use of Information Technology & Software by Domestic Companies	Analysis of IT and software environments (Percentage of AI-using companies, percentage of companies with IT and software staff, whether the IT and software staff receives relevant training, etc.)



# Digital New Deal

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Changes in economic and industrial structures : acceleration in digitalization and contactless services

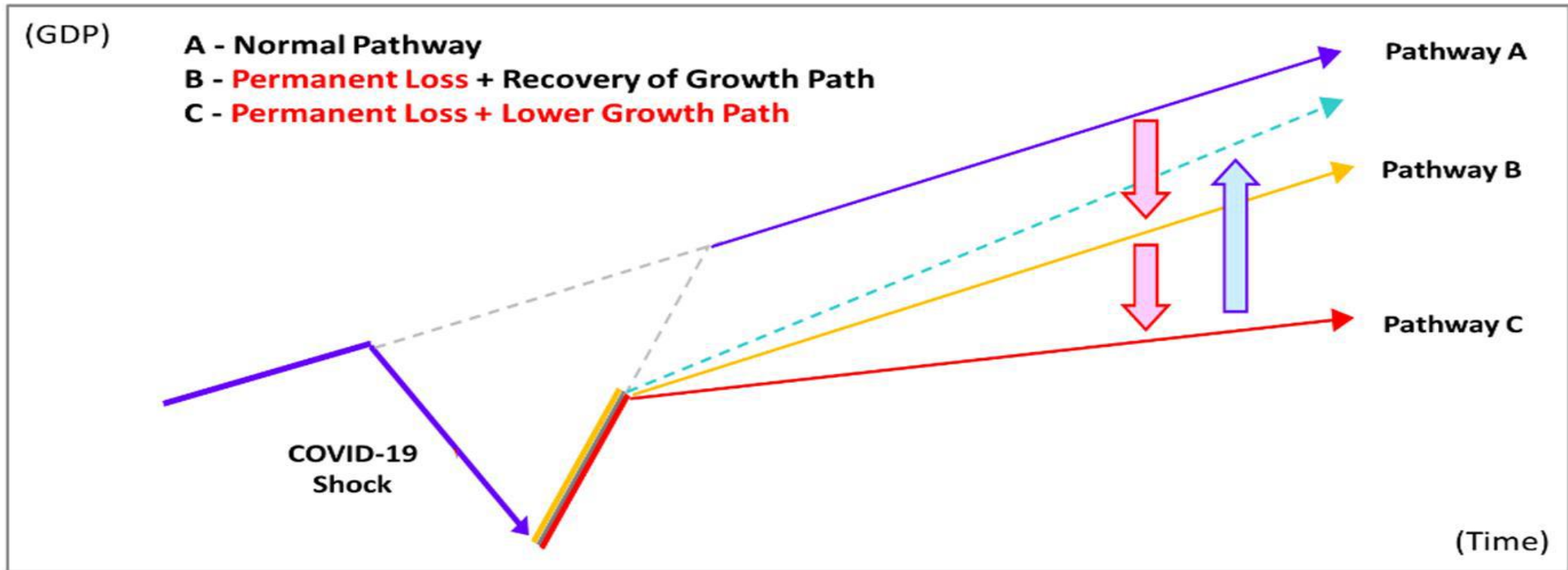


D.N.A-based strategy to overcome economic crisis

- D.N.A. – Data, Network, AI

# Digital New Deal

Economic Impact due to COVID-19 and Expected Recovery Pathways



# Digital New Deal

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## Improve D.N.A. Ecosystem

- Data dam
- Apply 5G and AI to all industries
- 5G- and AI-based government

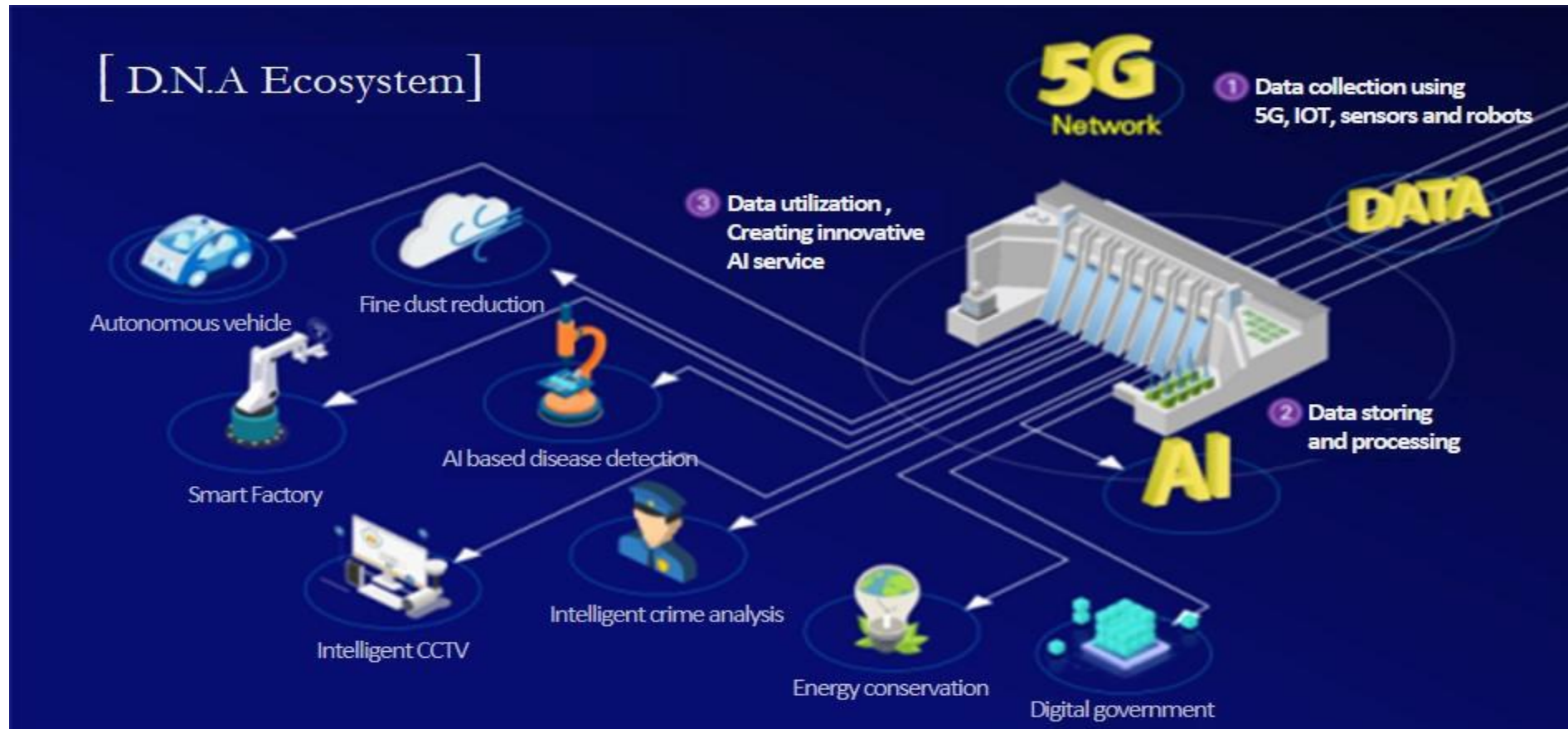
## Nurture Contactless Industries

- Education
- Healthcare
- Work
- Business

## Digitalization of SOC

- Smart warehouse
- Flood management system
- Smart roads

# Digital New Deal



# Digital New Deal

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## Data Dam

	2020	2022	2025
Data Market size	16.8 trillion won	30 trillion won	43 trillion won
5G provision	14.3%	45%	70%
Number of AI corporations	56	100	150

## Green and Smart Schools

	2020	2022	2025
Remodeling of School buildings	-	1,299	Over 2,890 schools
Provision of classroom Wi-Fi	14.8%	100%	100%
EduTech industry size	3.8 trillion won	7 trillion won	10 trillion won



# Thank You



Ministry of Science and ICT