

# Outline of the 2023 White Paper on Information and Communications in Japan

## Part 1 Toward Realizing a Resilient and Sound Data Flow Society for the New Era

Part 1 provides an overview the progress of data flows, which accompanied the advancement of telecommunications infrastructure in Japan, and it analyzes the current situation, the challenges and new trends of data flows and use, and it surveys initiatives toward a data flow society where everyone can enjoy the benefits of diverse services using data.

### Chapter 1 Advancement of the telecommunications infrastructure and progress in data flows

- A summary of the process of upgrading the telecommunications infrastructure of Japan and the progress from **Web 1.0, where one-way information transmission was central**, to **Web 2.0, where two-way information sharing is realized** through social media, etc.

### Chapter 2 Current situation and challenges of data flow and use

- **A summary of the current state of data utilization by companies and consumer awareness in major countries, government measures for promoting data utilization** (e.g., the Comprehensive Data Strategy and the European Data Strategy), **and personal data protection measures** (e.g., the Revised Act on the Protection of Personal Information, GDPR), etc.
- **An introduction of advanced examples of services that utilize data in fields such as education and healthcare**
- **A summary of the status and challenges of concentrating data with massive platform providers** (e.g., concerns about transparency and fairness in data handling) **and outlines of domestic and international countermeasures** (e.g., the Revised Telecommunications Business Act and the Digital Market Act)
- **A summary of the current situation regarding the spread of disinformation, misinformation and illegal or harmful information on social media and other platforms as well as an outline of the measures taken by the public and private sectors in Japan and other countries** (e.g., institutional responses, such as the revised Provider Liability Limitation Act, fact-checking, enhancing literacy education, and discussions at international conferences, such as the G7)

### Chapter 3 Toward realizing a resilient and sound data flow society

- A summary of **trends in new services that utilize data** such as the Metaverse, digital twins, and generative AI.
- A summary and analysis of **the issues and initiatives for realizing a society where everyone can enjoy the benefits of services using data** (e.g., **establishing a robust ICT infrastructure** that supports data distribution even in times of emergencies such as communications outages, **realizing Beyond 5G**, which enables ultra-high-speed, high-volume data distribution, **promoting international standardization** of data-related technologies, and **securing sound information spaces** by improving media literacy, etc.)

## Part 2 Current Status and Challenges of Information and Communications

Part 2 provides an overview of market trends in the information and communications field and the status of digital technology utilization, and it summarizes the status, challenges and future directions of information and communications policies.

### Chapter 4 Trends in the ICT market

- A summary and analysis of **the overall condition of the ICT industry in Japan and other countries** (e.g., the size of the information and communication industry and volume of exports and imports of ICT goods and services) and **the status of individual markets** (e.g., telecommunications, broadcast content and applications)
- A summary and analysis of **the utilization of digital technologies** in citizen's lives, corporate activities and the public sector **in Japan and other countries**

### Chapter 5 The status of ICT policy at the MIC

- A summary of **cross-departmental initiatives in ICT fields** (e.g., promotion of the Vision for a Digital Garden City Nation), **the policies implemented by the MIC**, and **the future directions in each policy area** (e.g., telecommunications, radio and broadcasting policies)