Digital Agency Activity Report

2023/03/30



Path Towards Cross-Border Data Flow and Utilization

Facilitating Data Free Flow and Utilization of Data across Borders while Ensuring Trust

In January 2019, then Prime Minister Abe first proposed the "Data Free Flow with Trust" (DFFT) at the Davos Forum. Later in June 2019, it was agreed on the Leaders' Communiqué specifying DFFT at the G20 Leaders' Summit in Osaka.

2019

Different countries have different policies and rules on how to handle data

European Union (EU) GDPR /June 2018 Data Governance Act /November 2020 Data Act / February 2022 Digital Service Act / November 2022 Digital Markets Act / November 2022	UK UKGDPR / June 2018 Data Protection Act / 2018	Türkiye Law on Protection of Personal Data / March 2016	Nigeria Persona Information Protection Act / January 2019	Kenya Data Protection Act / Submitted in June 2019 Data localization request for sensitive personal data	Saudi Arabia Cloud Computing Regulatory Framework / Revised in March 2019 Industry data localization request
Australia Privacy Act / Revised in 2018	India Digital Personal Data Protection Bill / November 2022 Report on Amendments to Personal Data Protection Bill in 2019 / December 2021 Non-personal Information Governance Framework Report / Published in July 2020 E-commerce Policy Draft / Submitted in February 2019	China Cyber Security Law / June 2017 Crypto Law / January 2020 Data Security Law / September 2021 Personal Information Protection Act / November 2021 Regulations on Management of Automobile Data Security / October 2021, etc.	Japan Act on the Protection of Personal Information / Revised in 2021	Vietnam Cyber Security Act / January 2019 Personal Data Protection Decree (draft) / April 2022	Singapore Personal Data Protection Act / Revised in February 2021
Indonesia Personal Data Protection Act / 2022 Regulation on Personal Data Protection in Electronic Transactions / 2016 Government Regulations on the Operation of Electronic Systems and Electronic Transactions / Revised in	Canada Personal Information Protection and Electronic Documents Act / Revised in 2018	US Foreign Intelligence Surveillance Act / Revised in 2008 CLOUD Act / March 2018	Brazil Personal Data Protection Law / Planned to be put into effect in February 2020		

Making barriers to global business with data

Inability to deliver services like real-time monitoring using IoT Inability to transfer autonomous driving data to overseas bases Difficulty to obtain a system-wide overview, imposing heavier corporate burdens such as costs for taking measures and risks of expansion

Three Pillars for Operationalizing DFFT

1

Trade rule development

Starting with the Osaka Track Process, we are working on developing bilateral and multilateral rules for DFFT.

2

Regulatory cooperation

We are working on establishing bilateral and multilateral regulatory cooperation based on laws and regulations concerning the cross-border flow of personal data in each country.

3

Technological alliance

We are working on facilitating data flow by leveraging technologies like Trusted web, eID and PETs^{*}.

Improving system interoperability and verifying technologies under an international public-private partnership framework



*PETs: A general term for technologies that solve the dilemma between privacy protection and data sharing/utilization and enable data analysis/operation and machine learning while maintaining privacy.

Building an international public-private framework



G7 Digital and Tech Ministers' Meeting to be held at the end of April



The objective of the G7 Digital and Tech Ministers' Meeting on April 29 and 30, 2023 is to reach an agreement on the establishment of an "international framework."

A New Info-Sharing System to Support Administrative Online Services

Initiatives in realizing better experience, new service deployment and efficient system development

Resident

Procedures are time-consuming and troublesome

Local government

The need to adjust the system each time a new digital service is released is costly and timeconsuming.

National government

There is a risk of costs increasing if local and national governments develop their own systems.

Services friendly to users, businesses and employees



Thorough review of concept and structure of the infrastructure system for info-sharing

System architecture refinement

- 1. Thorough improvement of the user interface and experience
- 2. Development and dissemination of functions common to a digital society
- 3. Utilization of data

Mainly targeting the implementation in 2025, local and national governments are promoting system development and refinement.

Digital technology-based system design

Review of the system itself, including entries and procedures, on the premise of utilizing digital technology

In light of the progress in the way data utilized and systems developed, future challenges will also have to be reviewed.

"Public Service Mesh" to improve data sharing



Processing capacity is insufficient for sharing data in bulk and transferring it promptly to all citizens. When digital services are launched, each of administrative agencies takes considerable time and effort for setting up data.



The processing capacity must be significantly enhanced to establish full digital services for all citizens and pave the way for swift data utilization and the smooth launch of new services with minimal system operation.

Advantages of the new info-sharing system

"Public Service Mesh" to optimize costs



If individual administrative agencies develop their own systems, they will also bear the costs separately.

Delivery of common functions necessary for info-sharing to all administrative agencies allows optimally cost-effective system development nationwide.

More Ways to Use Individual Number Cards (My Number Cards)

Owned by over 75% of the population

Number of Individual Number Card applications Approx. **95M** cases



Utilization is increasing and expected to further increase in daily life



† Definition of numbers and sources

*1 Annual number of resident cards issued (Ministry of Internal Affairs and Communications) / *2 Number of copies of resident cards issued at convenience stores (2020, Japan Agency for Local Authority Information Systems) / *3 Number of receipts for outpatients (medical, dental, pharmacy) (as of October 2022, Ministry of Health, Labor and Welfare) / *4 Number of online eligibility confirmations using Individual Number Card (implementing agencies) / *5 Approximate estimate from officially announced materials of the service /*6 Number of JPKI uses by the company (Japan Agency for Local Authority Information Systems) / *7 Estimated monthly average converted from 5.25 million, the number of people moving between municipalities (note: excluding people moving within the same municipality) (Basic Resident Registers Demographic Migration Report 2021, Ministry of Internal Affairs and Communications) /*8 Number of Mynaportal (online moving procedure service) users (Digital Agency)

For user-centric services with convenience users can perceive



Promoting collaboration with local governments and private companies



00

コード語歌

 \equiv

2---

Visualizing utilization to share information

Application/issuance

Increase in service applications using Individual Number Cards



Providing User-Centric Administrative Services

Insufficient user's perspective in service creation



User-oriented service development

Development based on UX design process

Short period from development to release (three months)

The unprecedented Alpha version in administrative services



Introduction of a mechanism for directly receiving user opinions



Real-time analysis of service utilization and feedback



I want a list of personalized information on subsidies and tax savings, etc.

I want a function for listing the status of services in use such as online applications

I want to get information on the subsidies which I can receive if I apply for.

I prefer the current version to the previous one because the current one is easier to understand. Simple is best.

Filing an income tax return is hard to understand

Administrative services created in collaboration with users



Not forgetting what to do

- Users can check the progress after applying for the procedure to the municipality
- When the expiration date of the Individual Number Card certificate is approaching, the procedure to update will be automatically made into a task so that users don't forget to complete it

(only the electronic certificate for identify verification)

 Priority tasks, such as application for use as a health insurance certificate or registration for bank account for receiving allowances, are visualized to avoid the risk of overlooking them



Checking parenting records at any time

- Birth information, and maternal and infant checkup information can be reviewed online
- Vaccination information can be checked and utilized for the next vaccination
- Health insurance certificate information can also be checked to ensure your Individual Number Card is valid

			.,	II
マイナポー	-タル 実	証アルファ版		?
<u>わたし</u> >	母子の優	建康診断		
97	ጣቆ	建康診	采れ	
		王 / 永天 ロン) 健康診断情報	271	
File File File Jun				
妊産婦	こど	้も		
妊婦健	診情報	寂		
妊婦健診	桂忠			
	IHTIY			
	IH TK			
受診日 2022/08				
受診日 2022/08				
受診日				
受診日 2022/08 受診回数 1				
受診日 2022/08 受診回数 1 妊娠週数				
受診日 2022/08 受診回数 1				4
受診日 2022/08 受診回数 1 妊娠週数		myna.go.jp)	Ś
受診日 2022/08 受診回数 1 妊娠週数		myna.go.jp Q		Č

Future plans

Release a Beta version this summer and an official version within this fiscal year





Further Strengthening the Development System

Currently, flexible development is difficult and knowledge and know-how cannot be accumulated



Enhancing collaboration with startups and SMEs



Enhancing collaboration with startups and SMEs

Benefits for business operators

- Development of new business partners
- Increase in reliability

Benefits for the nation/administrative agencies

Possibilities of:

- Diverse sourcing options
- Flexible and rapid development
- Improvement of service

Aiming to collaborate with new companies through multiple approaches



Wider scope of "internal development"



Started expanding the scope of "internal development" in multiple services



Scope of "internal development" to be expanded from this fiscal year



Scope of "internal development" to be expanded from this fiscal year



FY 2022

FY 2023

Today's Summary

Toward international data flow and utilization

Challenges in international data flow

- Different countries have different policies and rules on how to handle data
- This makes barriers to global business with data

Approaches of the Digital Agency

1. Rule sharing

Rules such as regulations and systems related to data handling in each country are to be shared in an easy-to-understand manner.

2. Technological verification

Technologies helping achieve privacy and protect security are to be verified.

DFFT will be discussed at the G7 Gunma Takasaki Digital and Tech Ministers' Meeting to be held in April with the aim of reaching agreement on the establishment of an "international framework."

A new infrastructure system that supports administrative online services

Challenges in administrative online services

 Realizing better experience, new service deployment and efficient system development

Thorough review of the infrastructure system for infosharing

- **1.** System architecture refinement
- 2. Digital technology-based system design

The Digital Agency is considering a new info-sharing system, "Public Service Mesh," targeting a FY2025 launch.

More ways to use Individual Number Cards

Challenges in promoting the use of Individual Number Card

• Further expansion of utilization in daily life

For user-centric services with convenience users can perceive

- **1.** Pursuance of "user-friendly services"
- 2. Promotion of more than 500 applications for expanding utilization to facilitate collaboration with private companies
- **3.** Visualization of data on the utilization status

Creating administrative services from the user's perspective

Challenges in creating administrative services

- Failure to provide user-centric services
- Poor service experience compared to other countries

Introduction of user-oriented development process

- **1. Introduction of a new user-oriented** service development process
- 2. Short-term service improvement by consolidating and analyzing user opinions
- **3.** Release of a new Mynaportal official version by the end of FY2023

Strengthening the development system

Challenges in service development

- Difficulty in flexible development
- Difficulty in accumulating development know-how

Enhancing collaboration with startups and SMEs

Wider scope of "internal development"

- 1. Strengthened collaboration with startups and SMEs
- 2. Started "internal development" in five projects
- **3. Scheduled to recruit 200 people with expertise** from the private sector by the end of FY2023

