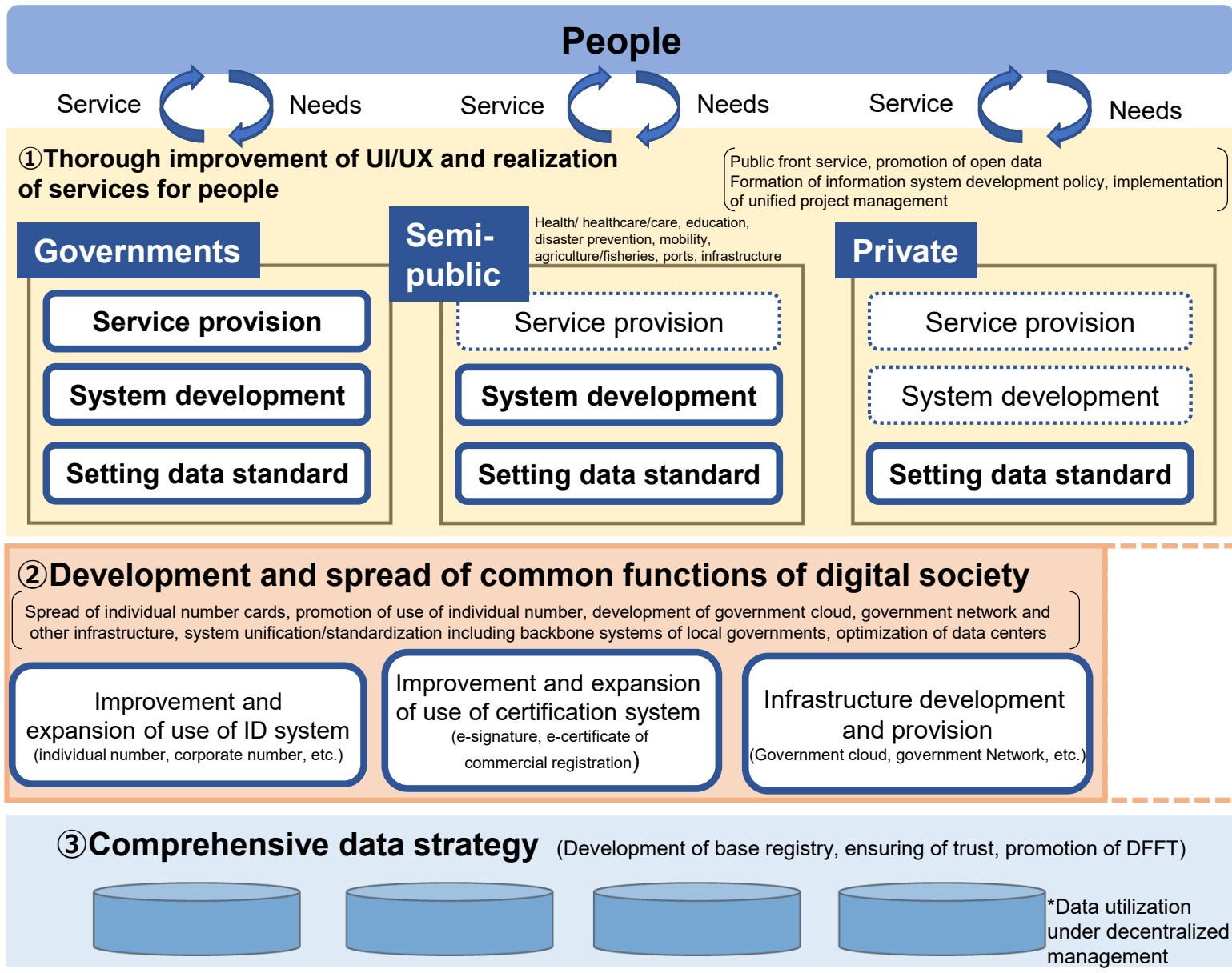# Priority Policy Program
for the Realization of a Digital Society
(Overview)

Goals of the Digital Agency (Total design toward formation of a digital society)

People

Service ⟲ Needs   Service ⟲ Needs   Service ⟲ Needs

① Thorough improvement of UI/UX and realization of services for people

Public front service, promotion of open data
Formation of information system development policy, implementation of unified project management

Health/ healthcare/care, education, disaster prevention, mobility, agriculture/fisheries, ports, infrastructure

Governments
- Service provision
- System development
- Setting data standard

Semi-public
- Service provision
- System development
- Setting data standard

Private
- Service provision
- System development
- Setting data standard

② Development and spread of common functions of digital society

Spread of individual number cards, promotion of use of individual number, development of government cloud, government network and other infrastructure, system unification/standardization including backbone systems of local governments, optimization of data centers

- Improvement and expansion of use of ID system (individual number, corporate number, etc.)
- Improvement and expansion of use of certification system (e-signature, e-certificate of commercial registration)
- Infrastructure development and provision (Government cloud, government Network, etc.)

③ Comprehensive data strategy (Development of base registry, ensuring of trust, promotion of DFFT)

*Data utilization under decentralized management

For effective implementation of these measures

④ Securing/development of human resources in public and private sectors
- Improvement of digital literacy
- Training/securing of experts

⑤ Procurement/regulation reform for utilization of new technologies
- Review procurement method for utilization of new technologies
- Regulatory reform

As premises for improvement of people's convenience

⑥ Secured accessibility
- Support development of information communication networks
- Realize an environment free from information barriers,
- enhance the consultation system regarding ICT equipment

⑦ Ensure safety and security
- Security of the cyber security, protection of personal information, etc.

⑧ Promote R&D/demonstration

⑨ Examine and evaluate plans

Society in which everyone can choose services that meet their needs and diverse happiness is realized

Human-friendly digitalization that leaves no one behind

A digital society in which people are not conscious of digital technology

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1. Develop and spread common functions necessary for a digital society

(1) Spread individual number cards and promote use of individual number

- With the aim of spreading individual number cards to almost all the people by the end of FY2022, the government promotes their use as health insurance cards (full-fledged operation by October 2021 at the latest), integration with driver's licenses (end of FY2024), integration with resident cards (FY2025) for example.

- Drastically improve the individual number system in line with the work schedule of the Digital Government Action Plan(Information sharing using individual number, smoothing of registration/use of accounts to receive public money and savings account, digitalization of licenses and national qualifications, etc.)

(2) Government cloud and network

- Develop "Government Cloud" that is a usage environment of multiple cloud services (IaaS, PaaS, SaaS)providing common infrastructure/functions. Its operation will start in FY2021.

- Reconstruct the government network by adopting trusted and proven latest technologies. National administrative organs will gradually move to the new network.

(3) Unification/standardization of systems including backbone systems of local governments

- All local governments using a backbone system are expected to move to the backbone system that is constructed on the Government Cloud and conform to the standardization criteria by FY2025 in principle(Formulation of the basic policy for standardization of information systems, implementation of financial and other supports, etc.)

(4) ID/Certification

- Spread e-signature, e-proxy and e-certificate of commercial registration (Regarding e-certificate of commercial registration in particular, study the possibility of dispensing with fees and use of the cloud within FY2021 toward the start of operation of a new system as early as possible by FY2025 while considering cost effectiveness)

- Spread individual number cards and gBizID (common corporation authentication base) and install the function of individual number cards (e-certificate) in Smartphones within FY2022

(5) Optimize data centers(While using cloud services appropriate for the purpose under the leadership of the Digital Agency, optimize their location environment gradually from the viewpoints of realization of a green society, business continuity plan (BCP) and security. Promote R&D on highly secure and environment-friendly decentralized cloud technologies)

(6) Develop information communication infrastructure((i) Development of 5G infrastructure, (ii) national deployment of trusted net combining 5G and traffic signals, (iii) development and maintenance of optical communication network as high-speed and large-capacity communication infrastructure (iv) promotion of safe, secure and reliable communication infrastructure, and (v) study toward Beyond 5G)

2. Thorough improvement of UI/UX and realization of service for the people

<Service for people>

(1)UI/UX based on the viewpoint of the people

- Thorough improvement of Mynaportal(extensive checking/improvement of UI, connection by all local governments, realization of automatic input function, etc. within FY2021)

- Standardization/unification of government websites (standardization/unification of design, content composition, etc. of websites of departments)

- Proactive use of schemes to directly listen to opinions of the people and local governments (Digital Reform Idea Box, Digital Reform Co-creation Platform)

(2) Provision of public front services

- Promotion of one-stop service((i) parenting, (ii) nursing care, (iii) house moving, (iv) death/inheritance, (v) social security/tax procedures, (vi) incorporation procedures)

- Online passport application, application for residence, immigration procedures

(3) Promote open data (disclosure/use of public data through open data by design that will bring benefits of digitalization to the people)

<Ministry/agency services>

(4) Formulation of information system development policy and implementation of unified project management

- Formulate "Basic Policy" on development and management of information systems of the central/local governments and semi-public systems (present basic approach to information system development, requirements of common functions, etc.)

- Implement unified project management (determine whether to move to the next step or not based on review), lump-sum appropriation of an information system-related budget to the Digital Agency in stages

- Digital Agency develops and operates important information systems itself and implements validation/inspection necessary for ensuring stable and continuing operation.

(5)Development/management of the national information systems

- Develop information systems(Digital Agency promotes integration/unification through general supervision and develops its internal system by employing experts for appropriate promotion and management)

- Principles of government information systems (use of Mynaportal [application receiving function], individual number card [certification/signature functions], government cloud /network])

(6) Information systems of independent administrative corporations (Develop a system for a certain level of involvement of the Digital Agency when competent ministers formulate their goals and evaluate them)

(7) Further digitalization of procedures of the national and local governments (legal procedures, police services, etc.)

\<Semi-public and private sectors\>

- Within FY2021, consider establishment of a program for streamlined support for activities for digitalization and data coordination, which include: (1) identification of social problems and setting of services to be realized; (2) setting of necessary data standards and development of data handling rules/systems; (3) identification of persons responsible for operation and materialization of business models.(The Digital Agency will develop a promotion system for each sector with involvement of relevant government offices and relevant organizations to ensure a system for promotion of digitalization in the respective sectors)

■ Semi-public sector

Health/ healthcare/care	• Promotion of PHR(system of electronic recording of lifelong health information of individual persons for accurate grasping by the person and the family); Ensure information coordination for choice of the most suitable service and utilization of receipt information; promote online consultation and effective and steady vaccination.
Education	• Assuming one terminal for each student based on the GIGA school plan, promote the following as two wheels of "data-driven education" ① Utilization of education data that contributes to improvement of daily learning and practice in schools (Present a roadmap toward development of a system for accumulation/distribution of education data; study the ideal state of universal ID and authentication grounds, which includes use of individual number cards for each student's ID) ② Utilization of education-related big data, which contributes to improvement of education policy planning and execution (Summarize measures and challenges of information systems, study toward construction of evidence platform contributing to improvement of policies and practice)
Disaster management	• For various public and private organizations to ensure accurate response based on a unified grasp of status at the time of a disaster, while reorganizing the roles and ideal state of the SIP4D system, establish its operation toward operation of the information system in normal times through unified acquisition and management of relevant information from evacuation and rescue to reconstruction support across organizations, and by building a platform for data coordination.
Mobility	• Toward fusion of mobility services and automated driving technology by 2030, construct a platform for social implementation of mobility services through coordination of public and private mobility-related data. In addition, consider development of three-dimensional space ID to promote diverse data coordination regarding real space.
Agriculture/ fisheries (smart food chain)	• Consider coordination of the Agricultural Data Coordination Platform (WAGRI) with flanking fields, including the smart food chain, based on analysis of needs and data usage. Continue the environmental improvement to promote data utilization in fisheries as well. • Work to construct the Common Application Service (eMAFF) of the Ministry of Agriculture, Forestry and Fisheries.
Port (Port distribution)	• For dramatic improvement of productivity of ports in Japan through utilization of AI technology and efficiency improvement of international supply chains, promote development of the port data coordination platform "Cyber Port"
Infrastructure	• Construct data coordination platform for infrastructure data held by government offices, local governments and private businesses (coordinated infrastructure data platform) around "the Land, Infrastructure and Transportation data platform."

■ Digitalization of economic society through promotion of digitalization of interconnected fields

(Interconnected fields)

Electronic invoices	● Toward efficiency improvement of back-office operations of businesses, develop standard specifications regarding "e-invoices" based on the global standard in public-private cooperation and promote their use under the management of the Digital Agency:
Contract / settlement	● In time with the spread of e-invoices, through demonstration develop data standards, etc. necessary for one-stop service for on-the-spot and multi-frequency inter-business contracts and settlements that support the contracts. Also promote efforts by the industry, the financial community and others toward utilization of Zengin EDI System.
Smart City	● In order to provide cutting-edge services for data of multiple fields concerning all aspects of life through data coordination under decentralized data management, relevant government offices cooperate to study data items to be standardized.

(Working-style reform through establishment of telework)

・While continuing various support measures, disseminate the guidelines clarifying that telework is possible under any working-hours system.

・Individual government offices will formulate their telework promotion plan for civil servants by summer 2021 and take the initiative for the well-planned development of a telework environment.

(Sharing Economy)

・Spread the system for certification of share workers and share businesses, which was constructed through public-private cooperation. Deeper investigate new use as a public service, while disseminating the model cooperation agreement in the field of disaster prevention and formulating disaster response manuals for share business operators.

3. Comprehensive data strategy

(1) Trust
- Establish the infrastructure to guarantee trust toward implementation in the early 2020s (authorization scheme regarding provision of trust services)

(2) Platform, data market and PDS/Information bank
- Crystallization of common rules necessary for data coordination (including rules to promote data distribution and eliminate hindrances) and tool development
- Build a platform for each priority field (health/healthcare/care, education, disaster prevention, etc.)
- Study on data market (establish rights to access and use data and vitalize data distribution through mediation of transaction) Promote data transfer and use through PDS (Personal Data Store) and data bank in order to contribute to service design starting from people.

(3) Development of base data (base registry, etc.)
- Ensure coordination of the data designated as base registry in May of this year with catalog sites with listing and retrieval functions, and at the same time extract problems for development and study the direction of their solution. Reinforce also machine readability of open data.

(4) Development and expansion of digital infrastructure
- Ensure integrated development of communication infrastructure, computational infrastructure/semiconductor and data handling rules.

(5) Promotion of international cooperation toward DFFT
- Through cooperation with countries sharing philosophy and through various forums, promote Data Free Flow with Trust (DFFT) from the perspective of trade, privacy, security, trust infrastructure and data utilization, etc.

4. Securing/development of digital manpower in public and private sectors

(1) Improve digital literacy
- Steadily implement measures based on the new Course of Study, which include compulsory programming at elementary school. Enhance information ethics education, ICT-skill learning in university and other practical programs, and IT courses with educational training benefits.

(2) Develop and secure human resources with expert knowledge and skills
- In order to secure human resources who lead digital reform, develop an environment for talented personnel to build their career while changing their jobs in different sectors (private, local and central governments) through smooth employment using evaluation criteria of IT skills in the private sector, for example.
- Digital Agency and other departments will actively employ successful examinees of the digital category (newly established in 2022) generalist of civil service examination. In addition, work to improve digital expertise and knowledge of national and local employees through enhancement of training programs.
- Enhance education of mathematical science, data science and AI in universities. Develop architecture design experts and cyber security personnel at IPA.

5. Procurement/regulation reform for utilization of new technologies

(1) Study procurement methods for utilization of new technologies

- Boldly introduce latest technologies for system development and operation. Consider new methods including agile development and methods for smoother procurement from businesses holding innovative technologies including startups. When found effective, spread the method to other government offices.

- Support R&D of technologies necessary for the Digital Agency including cyber security, assuming their procurement by the agency.

(2) Regulatory Reform

- In order to maximize the effects of digitalization, review regulations. (e.g. review of documents/seals/interviews, encouragement of online use, promotion of cashless system, development of rules concerning development of agile systems, system development for smooth flow of contents in the digital age

6. Secure accessibility

In order to promote digitalization that leaves no one behind, secure accessibility under the concept of universal design

(1) Support development of information communication networks

- In order to create an environment in which people can surely obtain disaster information wherever they are, continue nationwide optical fiber development including remote islands.

(2) Realize information barrier-free environment

- Promote and spread R&D on information communication equipment/services that improve convenience (e.g. conference support system for people with impaired hearing)

(3) Enhance consultation system regarding ICT equipment/services

- Enhance "digital utilization support" to create an environment to learn how to use ICT equipment from close persons at familiar places.

- Support setting up of comprehensive service center (support center) that provides consultation for people with disabilities on the introduction, lending and use of ICT equipment

(4) Resolve disparities due to economic conditions, etc.

- Understand the reality of digital use by poor people, collect successful examples and consider support measures.

- Promote development of an ICT environment in schools across the country and assignment of ICT support personnel to schools, and develop a communication environment for low-income households.

(5) Secure access point for people in municipalities

- Regarding tablet terminals for use of Mynaportal deployed at municipalities, study and implement drastic increase of use and improvement of operation rules. Study the possibility of using post offices as access points in addition to municipalities.

7. Ensure safety and security

(1) Secure cyber security

- The Digital Agency, in cooperation with the national Information Security Center (NISC), presents basic policies on cyber security in the information system development policy and enhances security including design and development stages of information systems.

- A security expert team is set up at the Digital Agency to inspect and audit mainly systems developed and operated by the agency. At the same time, NISC strengthens its system and conducts security auditing of the systems of national government administrative organs, including systems developed and operated by the Digital Agency.

(2) Protection of personal information

- In order to protect personal rights and interests with due consideration to usefulness of personal information, develop cabinet orders, rules and guidelines while carefully communicating with local governments. Strengthen the system of the Personal Information Protection Commission to ensure appropriate execution of its affairs and authorities that will be expanded by the law revised in 2020 and 2021.

(3) Prevention of crime using information communication technologies (e.g. technical support for cyber-crime fighting, improvement of analytical capability)

(4) Disaster countermeasures for information communication network (promote environmental improvement by telecommunication carriers to secure network redundancy)

8. Promote R&D/demonstration

(1) R&D and demonstration toward spread of advanced information and communication environment

- Toward realization of Beyond 5G, provide R&D funds of the National Institute of Information and Communications Technology (NICT); develop and use facilities/equipment for common use including test beds.

(2) R&D and demonstration of advanced computing that supports data utilization

- Carry out technology development of next-generation computing (including quantum computing) that realizes both high speed and low power consumption

9. Examine and evaluate the program

- Regularly hold board meetings of the Digital Society Promotion Council (tentative name) for examination and evaluation of the implementation status of the measures taken by individual departments