デジタル田園都市国家構想
DIGIDEN

Comprehensive Strategy for the Vision for a Digital Garden City Nation (DIGIDEN)

(FY2023–FY2027)

December 23, 2022

The Cabinet Secretariat's Office for the Council for the Realization of the Vision for a Digital Garden City Nation

Comprehensive Strategy for the Vision for DIGIDEN: Overview

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Fundamental ideas behind the comprehensive strategy

- In an era where **social conditions are drastically changing**, such as the increase in remote work and interest for relocating to rural areas, **now is the time to make Japan a "society where everyone can live in convenience and comfort wherever they live in the country"** through **digitalization to accelerate and intensify the revitalization of regional economies.**
- This strategy aims to **correct the excessive population concentration in the Tokyo Metropolitan Area (TMA), shifting to multi-polar concentration**, and offer those who work and live in rural areas access to information and services that are on par with urban areas, **leveraging regional social issues as a fuel that leads to the bottom-up growth** of the country.
- Utilization of digital technology is **steadily making progress from the testing phase to real-life application**. In addition to implementing the policies of the ministries and agencies towards digital implementation, **we will accelerate horizontal expansion of best practices from each region** by utilizing the Digital Garden City Nation grants, etc.
- It is important to **promote previous initiatives for revitalization in rural areas while improving on the results and knowledge accumulated so far**.

<Key points of the strategy>

- Drastically revise the comprehensive strategy for overcoming population decline and revitalizing regional economies and formulate a new **5-year comprehensive strategy from FY2023 to FY2027**. Based on the direction of the initiatives set forth in the Basic Policy for the Vision for a Digital Garden City Nation, **establish KPIs and roadmaps** while **concretizing and developing the polices of the ministries and agencies**.
- Each region should take into account of their social issues in **rebuilding the regional vision that leverages their unique features and revising their comprehensive local strategies**. **To realize their vision**, **the ministries and agencies shall further collaborate** to provide comprehensive and effective support, in addition to **proposing measures for interregional collaboration with the use of digital technology** so that multiple local governments facing similar social issues can work together to solve them effectively and efficiently.

Policy direction

Resolving regional social issues by utilizing digital technologies

Accelerate and intensify initiatives for resolving regional social issues by utilizing digital technologies.

1 Create Jobs in Rural Areas
Establishment of start-up ecosystem, DX in small to medium enterprises (cashless payments, sharing economy, etc.), smart agriculture and food industries, DX in tourism, innovation around local universities, etc.

2 Increase the Flow of People to Rural Areas
Promotion of "relocation without changing jobs," creation and expansion of the strong relationship to rural areas, promotion of dual residency, improving the attraction of local universities and high schools, creation of attractive community for the young and female population, etc.

3 Realize Hope for Marriage, Childbirth, and Childrearing
Support for marriage, childbirth, and childrearing; creation of an environment conducive to work-life balance and childrearing; promotion of various regional initiatives that utilize digital technology in policies related to families with children.

4 Enhance the Attractiveness of Every Region
DX in education, medicine and nursing care, local transportation, and infrastructure/logistics; community development; strengthening of culture, sports, disaster risk reduction and National Resilience; maintaining and strengthening regional community functions, etc.

Support for the foundation of digital implementation

Develop basic conditions for digital implementation

The government strongly promotes initiatives to create the prerequisites for digital implementation.

1 Digital Infrastructure Development
Development of digital infrastructure, promotion of obtaining and using My Number Cards, development of a foundation for digital collaboration (formulation of the Digital Lifeline Development Plan, etc.), development of a sustainable and user-friendly public transportation network through ICT utilization, digitalization of energy infrastructure, etc.

2 Development/Securing of Digital Human Resources
Creation of a platform for developing digital HR, job training focused on the digital field, development of digital HR in higher education institutions, etc., promotion of bringing digital HR back to the rural areas, securement and development of female digital HR.

3 Digital Society Where No One is Left Behind
Launch of the digital supporter initiative, realization of a digital symbiotic society, alleviation of the digital divide caused by economic disparities, etc., establishment of a system for designing service from the user viewpoint.

Promoting collaboration between ministries and agencies and regions to realize their visions

<Examples of model regional visions>

■ **Smart City, Super City**

Smart City AiCT (Aizu Wakamatsu City, Fukushima Pref.)

■ **Digitalization in hilly and mountainous areas**

Adopting auto grass cutter to compensate for the lack of labor.

■ **Industry-academia-government Collaborative city**

Smart agriculture initiative utilizing data (Kochi University, Kochi Pref.)

■ **SDGs Future City**

Utilizing local transportation systems and communication robots (Ishinomaki City, Miyagi Pref.)

■ **Decarbonization Leading Areas**

Creating a new industry by biomass plant operation (Maniwa City, Okayama Pref.)

<Examples of key policy areas>

■ **Redesigning local transportation**

automated driving bus (Sakai Town, Ibaraki Pref.)

■ **Policies related to families with children**

Consulting online with public health nurse, etc. (Fujiyoshida City, Yamashina Pref.)

■ **DX in education**

Collaborative online remote class (Mishimamura, Kagoshima Pref.)

■ **Regional disaster prevention improvement**

Adopting GPS to snow management system (Iidemachi, Yamagata Pref.)

■ **Remote medical care**

Diagnosis vehicle equipped with medical devices (Ina City, Nagano Pref.)

■ **Remote work for regional revitalization**

Converting vacant houses to satellite offices (Kitakata City, Fukushima Pref.)

■ **DX in tourism**

Utilizing tourism an app to disperse flows of people and avoid crowds (Kyoto City, Kyoto Pref.)

Pushing towards the realization of regional visions

<Examples of collaboration between ministries and agencies>

Compiling relevant measures	Intensive support	Horizontal expansion of best practices	Human support
✓ Compile measures of the related ministries and agencies and propose them to rural regions.	✓ Select model regions and highly evaluate and support them.	✓ Popularize, share, and horizontally expand best practices as models for other regions.	✓ Provide attentive support by building a one-stop consultation counter and utilizing regional branch offices.

<Examples of collaboration between regions>

Intensifying digitalization efforts	Intensive support	Horizontal expansion of best practices
✓ Promote digitalization initiatives in the framework of collaboration between local governments.	✓ Highly evaluate and support initiatives for regional collaboration when the national government adopts and selects businesses and regions.	✓ Collect best practices of regional collaboration to popularize and share widely through menu book, etc.

New Main KPIs to Realize the DIGIDEN Vision

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In anticipation of all the local governments working towards digital implementation by FY2030, we have set target of 1,000 local governments engaging in such initiatives by FY2024 and 1,500 by FY2027.

KPIs for regional digital implementation

In order to **accelerate and intensify efforts to resolve regional social issues through digitalization,** the following KPIs have been set.

- Number of local governments with the satellite offices, etc. in place: **1,000** (by FY2024), 1,200 (by FY2027)
- Number of local governments that have used the Hometown Tax donation system for enterprises: 1,500 (by FY2027)
- Number of municipalities with support centers for families with children that offer consultation using digital technology: Target nationwide installation (1,741 municipalities)
- Percentage of schools using one device per student in class: 100% (18,805 elementary schools, 9,437 junior high schools) (FY2025)
- Number of local governments implementing new mobility service initiatives: 700 (by 2025)
- Percentage of logistics enterprises that have achieved DX through automation, mechanization and digitalization: 70% (about 35,000 operators) (FY2025)
- Number of cities that have adopted 3D city models: 500 (by FY2027)

etc.

Support for the foundation of digital implementation

KPIs for the underlying conditions for digital implementation

For the national government to strongly promote initiatives to create the prerequisite for digital implementation, the following KPIs have been set.

- Percentage of households with optical fiber coverage: **99.9%** (FY2027)
- 5G population coverage: **95%** (FY2023), **97%** (FY2025), **99%** (FY2030)
- Number of regional data centers: **10+ places** (about 5 years)
- Installation of a submarine cable around Japan (DIGIDEN Super Highway): **To be completed** (FY2025)
- Number of human resources developed for digital promotion: **2.3 million** (total number from FY2022 to FY2026)
- Digital supporter initiative: Increase the current number of a little over 20,000 digital supporters to 50,000 (by FY2027).

etc.

KPIs for achieving regional visions

In order to achieve regional visions, the following KPIs have been set, which will be fully supported by the government to realize regional visions in all regions so that the people from all across the nation can see digital implementation in action.

- Number of cities to be selected as smart cities: 100 (by FY2025)
- Number of regions to be registered as Digitalization in hilly and mountainous areas: 150 (by FY2027)
- Selection and realization of Decarbonization Leading Areas(DLAs): At least 100 DLAs to be selected by FY2025 and realized by FY2030
- Realization of driverless automated-driving transport services in limited regions: About 50 regions (target FY2025), more than 100 regions (by FY2027)

etc.

Policy Direction

Create Jobs in Rural Areas (Resolve regional social issues by utilizing digital technologies [1])

<Main KPIs>

- **Number of regions that have promoted, established, and implemented initiatives of startups and small to medium enterprises to solve social issues: 900 by FY2027** (144 as of June 2022)
- **Productivity growth of small to medium enterprises that drive a regional economy: 2% or more annually** (-1.2% in FY2020)
- **Almost all the business farmers utilizing data in their workflow: Almost all the business farmers utilizing data in their workflow by FY2025** (48.6% in FY2021)
- **Number of organizations registered as a Destination Marketing Organization (DMO) with DX strategy formulated based on data such as tourist destination and attributes, and the amount consumed, etc.: 90** (by FY2027) etc.

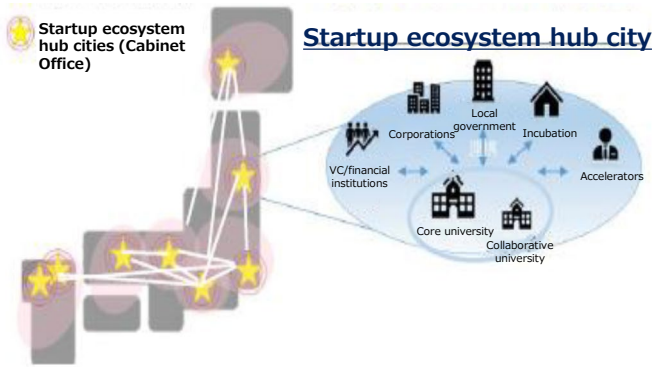
<Major measures>

Establishment of a startup ecosystem

- Under the public-private collaboration, **develop a nurturing environment for startups** by expanding and strengthening venture investments to develop new technologies and social investments to solve regional issues, and by creating and increasing a demonstration site.
- Actively work together with universities, vocational high schools, etc. to **create and utilize new seeds, nurture talents and match them with suitable jobs, collaborate on new businesses,** and work towards gaining new markets.
  - **Strengthen support for startups** in startup ecosystem hub cities.

<Startup ecosystem hub cities>

- With the aim to create world-class startup ecosystem hubs, eight consortiums (councils, etc.)—consisting local governments, universities, private organizations (venture-support organizations, financial institutions, developers, etc.)—have been selected.
- Startups, etc. in the hub cities will be offered acceleration programs that are made possible through a collaboration between world-class accelerators, key universities in the world, etc. to nurture world-class startups.



DX in small to medium enterprises

- With the help of local industry/academia/government experts and financial institutions, **build a DX support system across the country and support** small to medium enterprises to **secure management and professional HR**.
  - **Create a support community** and **provide human support for strategy formulation** regarding DX in local enterprises.
  - Provide **matching support** with IT vendors, etc.
- Further utilize the Regional Future Investment Promotion Act, etc. while **improving productivity and adding new value through digitalization.**
  - Utilize local features to **further promote enterprises that drive the regional economy**.
- **Expand cashless payments.**
  - **Improve market transparency and promote more active price negotiations by merchants**, based on the impact of standard rates for credit card interchange fees being disclosed.

Accelerated DX support for small to medium enterprises in the city (Kita-Kyushu City, Fukuoka Pref.)

Smart agriculture and food industries

- Promote **regional revitalization and the growth of agriculture and food industries** via digitalization.
  - **Remote operation of agricultural machinery** by sensor and remote control
  - **Optimal distribution of pesticides and fertilizers** using drones, etc.
  - **Reproduction of skills of experienced farmers** using AI, etc.
  - **Lightening workload** using power assist suits
  - **Optimization of forest management and advanced wood production** using ICT, etc.
  - **Provision of telecommunication** in forests
  - **Creation of digital forestry strategy hubs**
  - **Creation of digital fisheries strategy hubs**
  - **Productivity improvement** in the food industry via **AI and robotics, digitalization of logistics, and strengthened collaboration with agriculture, forestry and fisheries industries**
  - **Making the administrative processes available online** via eMAFF

Data-driven smart farming of Kyoto-brand vegetable "Manganji Chill Pepper" (Maizuru City, Kyoto Pref.)

Raising fish price and securing fisheries operators via DX (Isumi City, Chiba Pref.)

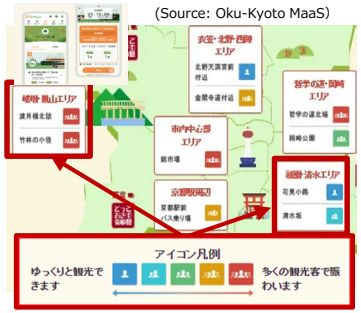
Create Jobs in Rural Areas (Resolve regional social issues by utilizing digital technologies [1])

Tourism DX

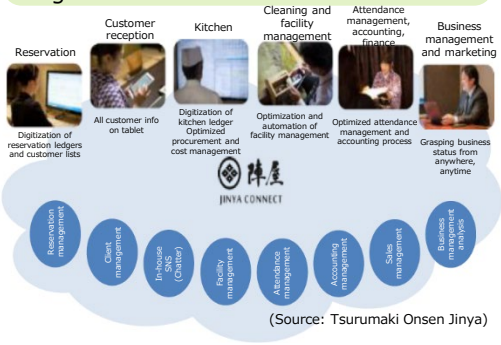
➢ Work towards DX in the tourism field to **promote traveling around, improve the convenience of travelers and the productivity in the tourism industry, and enhance tourism management system** as well as **optimizing profitability across a wide region** by improving data collaboration between operators and regions.

- **Build a local website that enables seamless reservations and payment** to improve convenience and boost consumption.
- **Adopt a property management system (PMS),** etc. **for guest reservations** to optimize work and add high-value.
- **Conduct marketing using travel/ accommodation/purchasing data** and **formulate strategy** for tourism management.
- **Nurture and provide support for utilizing local digital tourism HR.**

(Source: Oku-Kyoto MaaS)



(Source: Kyoto City Tourism Association "Kyo Navi")



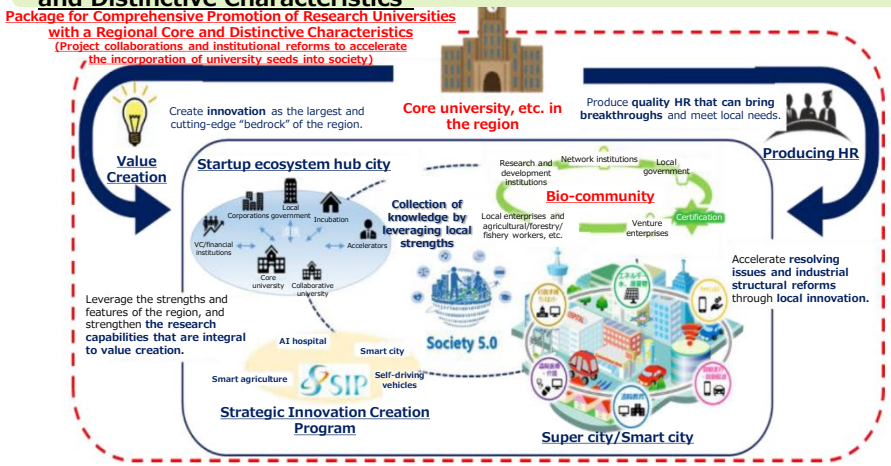
(Source: Tsurumaki Onsen Jinya)

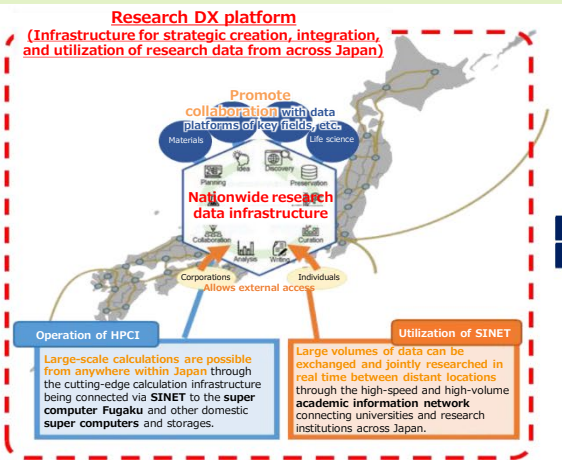
(Source: Kesennuma Crewcard App)

Creating innovation around local universities

➢ With local universities at its core, **promote an industry-academia-government collaboration and open innovation to develop more innovation hubs featuring rich local culture across the country.**

- Comprehensively promote initiatives to revitalize regional universities based on the **"Package for Comprehensive Promotion of Research Universities with a Regional Core and Distinctive Characteristics"**





Bring about **innovation in industries** through **innovation in knowledge of universities around Japan** and realize the DIGIDEN in all regions (the dispersed growth model).

Promote activities of research universities that are unique and serve as a center for local community.

Digital research base open to the whole country

Increase the Flow of People to Rural Areas
(Resolve regional social issues by utilizing digital technologies [2])

<Main KPIs>

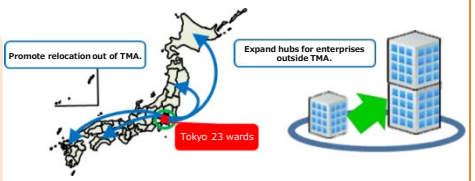
- **Relocation between TMA and other regions**: **Balance by FY2027** (excessive settlers—83,827 people—to TMA in FY2021)
- **Number of local governments that installed satellite offices, etc.**: **1,000 by FY2024 and 1,200 by FY2027** (654 as of August 2022)
- **Number of local governments that have utilized Hometown Tax for enterprises**: **1,500 by FY2027** (1,028 in total from FY2016 to FY2021)
- **Number of local governments engaged in creating and expanding the population with strong relationship to rural areas**: **1,200 by FY2027** (893 by FY2020) etc.

<Major measures>

Channeling HR out of TMA to other regions by promoting "relocation without job change"

➢ Encourage enterprises to **consider relocating their HQ functions, and further promote their relocation out of TMA to other regions**.

- **Promote the expanded tax incentives for strengthening local business facilities together with related measures such as DIGIDEN subsidies** while strengthening collaboration with local governments, and **strongly encourage enterprises to relocate their HQ functions out of TMA to other regions**.



➢ **Further strengthen the support for relocation out of TMA**, and **further promote the "relocation w/o job change" with remote work and side/additional jobs** utilizing digital technology.

- Utilize Hometown Tax Donation System for enterprises and DIGIDEN grants, etc. to **install satellite offices, etc.**

- **Offer consultation** to enterprises looking into remote work outside TMA (also referenced on P.34: High-priority fields) and **award good cases**.

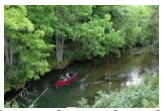
地方創生テレワーク

- **Support "regional revitalization squads" with starting/taking over a business** and **improve the support and acceptance systems** for them.

地域おこし協力隊

- Strengthen information communication by utilizing **"Relocation and Information Exchange Garden."**

- **Develop infrastructure to accommodate workationers and temporary stay guests** at national and quasi-national parks.



Nature and workation experience in national parks

Creating and expanding the population with strong relationship to rural areas, etc., promotion of dual residency

➢ Create and expand the population involved to **vitalize regional economy and initiatives to improve local attractiveness, enhance career development in urban areas,** and ultimately, **create added-value in the region**.

- **Support intermediary support organizations** engaged in creating mechanism for urban residents to be matched with a suitable region and get involved in local social issues.
- Share and horizontally expand example practices by operating a **nationwide platform ("Kakawari Lab") with a public-private collaboration**, etc.

かかわりラボ
関係人口創出・拡大官民連携全国協議会

- **Promote "second hometown buildings"** to attract visitors.

何度も行きたいまちを、見つけよう。
第2のふるさと
A NEW HOMETOWN

➢ **Develop infrastructure that enables various lifestyles,** including dual-residency between urban and rural areas.

- **Provide support** for private enterprises to **build facilities, including indirect grants**, under **the DIGIDEN subsidies**.

Apartments and share houses utilized for migration and dual-residency purposes

Community centers and cafes used as hubs to promote social interactions among locals and local production-consumption, etc.

Local cultural properties, traditional culture experience facilities, folklore museums, etc.

A childcare and workspace complex, etc.

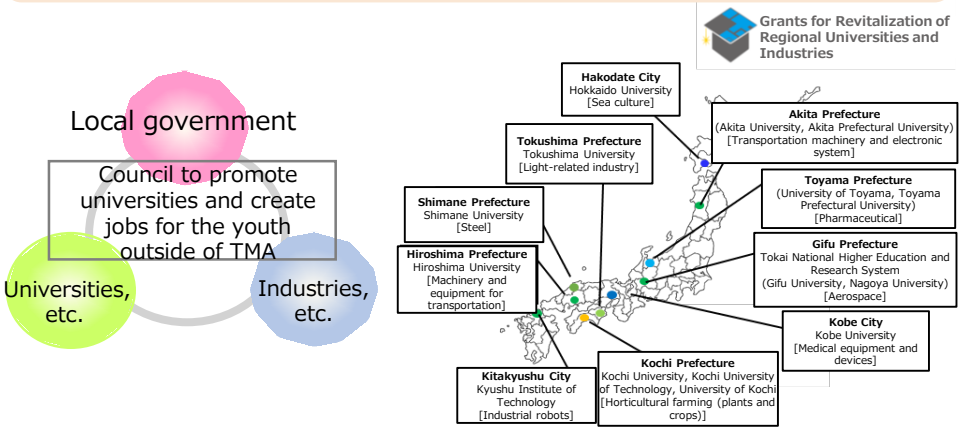
Facilities available as satellite offices, etc.

Increase the Flow of People to Rural Areas
(Resolve regional social issues by utilizing digital technologies [2])

Improving the attraction of universities and high schools outside of TMA

➢ **Promote universities outside of TMA, encourage** universities in TMA **to install satellite campuses** in other regions, and **strengthen the functions of high schools**.

- Through the **Grants for Revitalization of Regional Universities and Industries**, create attractive learning environments under Governor's leadership, and **offer intensive support for local governments taking initiatives towards developing HR and R & D unique to the region** through industry-academia-government collaboration.



- **Push the collaboration** between local governments and universities, etc. and **develop infrastructure** for satellite campuses.

- **Promote regional study exchange for high school students**.
- **Allocate HR** capable to connect high schools, etc. with regions, and **offer practical vocational education** at vocational high schools.

Creating communities attractive to women and the youth

➢ **Promote the shift from part-time to full-time employment and the improvement of working conditions for part-time employees** to create an attractive environment for women and the youth.

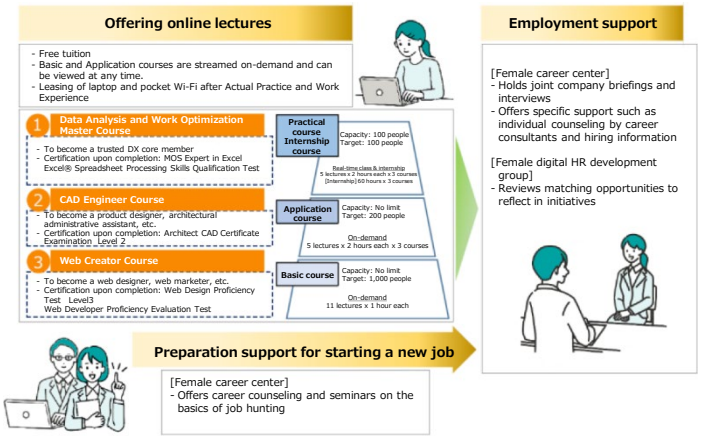
➢ **Promote the change of mindset** on stereotypical ideas about gender roles and **the development of workplaces conducive to balancing work and childcare**.

- Support corporate initiatives—in line with **the mandatory disclosure of wage gaps between male and female employees** stipulated under the Act on the Promotion of Women's Active Engagement in Professional Life for promoting women's participation in enterprises.

➢ Actively encourage the relocation of single mothers, **support startups by women** and the **recruitment** of women in jobs that utilize digital technology, and **horizontally expand** these initiatives.

- Support municipalities' efforts to create a public-private collaborative platform and implement comprehensive and inclusive initiatives for promoting **women finding employment and obtaining digital skills and applying them at work**.

Collaborative initiative by relevant institutions to provide integrated support for women who have left work due to childbirth and childcare to acquire digital skills and find employment(Saitama Pref.)



Offering specific employment support for women who are unemployed due to various reasons (Aomori Pref.)

Realize Hope for Marriage, Childbirth, and Childrearing
(Resolve regional social issues by utilizing digital technologies [3])

<Main KPIs>

□ **Percentage of people thinking they are heading towards society conducive to marriage, pregnancy, and childcare**: **50% by 2025** (33% as of March 2022)

□ **Municipalities with support centers for families with children that provide support and consultation via digital technology**: **Target nationwide installation (1,741 municipalities)**

etc.

<Major measures>

Comprehensive promotion of countermeasures against declining birthrate via utilization of digital technology, etc.

➢ In accordance with the General Principals for Child-related Measures, **comprehensively implement effective countermeasures against the declining birthrate by utilizing digital technologies** and **provide support from ministries and agencies to local governments for their initiatives.**

- Implement the **"New Childcare Support Plan"** developed to solve the issue of children on waiting lists for childcare facilities (FY2021–FY2024).

○ Key points of the New Childcare Support Plan

(1) Support that meets specific local needs

○ **Support for regions with increasing childcare needs**
(E.g.)
- Raise the subsidy rate for the development costs for local governments that participate in the New Childcare Support Plan.

○ **Support for regions that require the acceleration of matching services**
(E.g.)
- Expand consulting support with childcare concierge service (Municipalities that have less than 50 children on the waiting lists are also eligible to use the service if participating in the New Childcare Support Plan)
- Expand support for shuttle services, such as a community bus. (Offers specific support according to the number of shuttle buses and the allocation of nursery teachers)

○ **Study on how childcare is supposed to be in regions with a declining population**

(2) Securing nursery teachers by increasing the attraction of the job

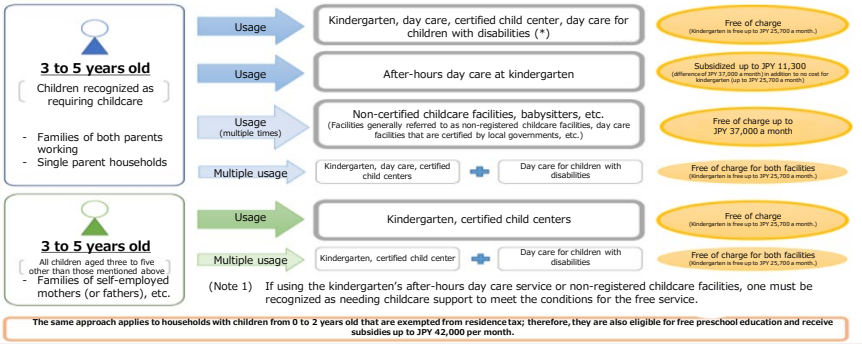
(E.g.)
- Increase opportunities for childcare assistants (abolish the condition for childcare assistants to "limit work hours to 30 hours or less").
- Increase opportunities for part-time nursery teachers. (Municipalities that have children on the waiting lists shall abolish the regulation to mandate one full-time nursery teacher per class, and instead allow two part-time nursery teachers.)
- Strengthen the functions of nursery teacher and school support centers. (Make the consultation for nursery teachers who wish to continue working eligible for the subsidy.)

(3) Utilizing various local childcare resources

(E.g.)
- Promote the utilization of open spaces in kindergartens to provide after-hours day care (a new subsidy for facility refurbishment, etc.) and small-scale day care (increasing the capacity—currently a maximum of 19 children—flexibility for municipalities that have children on waiting lists and allowing a capacity increase of up to 6 children instead of 3).
- Subsidies for the use of babysitters have become tax exempt. [As stipulated in the tax reform in 2021]
- Expand subsidies for corporate initiatives for the use of babysitters (from one ticket per day to two tickets per day).
- Create a subsidy for small to medium enterprises that are actively encouraging their employees to take childcare leave.

- Steadily implement **free preschool education and childcare**.

(E.g.) Specific image of free education for preschoolers



(Note 1) If using the kindergarten's after-hours day care service or non-registered childcare facilities, one must be recognized as needing childcare support to meet the conditions for the free service.

The same approach applies to households with children from 0 to 2 years old that are exempted from residence tax; therefore, they are also eligible for free preschool education and receive subsidies up to JPY 42,000 per month.

Support for marriage, childbirth, and childrearing

➢ **Realize hope for marriage** especially for the younger generation.

- Support local governments' **initiatives for marriage support utilizing AI and big data**. (Grants for priority promotion of measures for declining birthrate in the regions.)

The use of an AI matching system (Fukui Pref.)

➢ **Secure nursery teachers, improve their work conditions** and **lighten their workload, and improve quality of childcare** by utilizing ICT.

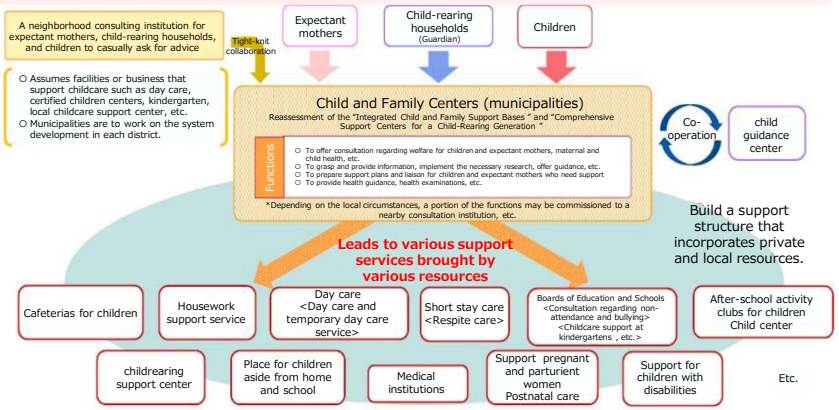
➢ **Steadily implement the "New System for Children and Childcare Support" and further improve the quality of support.**

- **Build an effective perinatal care system and expand maternal and child health services**, by adopting online services for maternal and child health consultation/handbook.

Utilizing "maternal and child health handbook" app (Fujiyoshida City, Yamanashi Pref.)

➢ **Comprehensively promote specific measures** in accordance with the stages from pregnancy, childbirth to childrearing.

- **Comprehensive consulting support by Child and Family Centers**



Realize Hope for Marriage, Childbirth, and Childrearing
(Resolve regional social issues by utilizing digital technologies [3])

Creation of environments conducive to work-life balance and childrearing

➢ To realize work-life balance, **promote initiatives to create workplaces conducive to balancing work and childrearing, encourage paternity leave, and support re-entry after childbirth and childcare leave**.

- Support via **subsidies to corporations** taking initiatives to create environments that enable them to balance child rearing and work.
- Popularize and practice **"Parental Leave."**
- Publicize and popularize the "**Kurumin certification**," etc. Awarded under the Act on Advancement of Measures to Support Raising Next-Generation Children.
- Steadily raise awareness of and implement **overtime work limit** and the duty of 5-day-per-year **seasonal designated paid-leave**, promote the adoption of working-hour intervals by effectively raising awareness.

➢ **Promote the popularization of flexible workstyles such as remote working** to encourage men to participate in childcare and house chores and lighten the load of married couples.

- Push for the adoption of **annual paid-leave with an hourly increment system**.
- **Set up a one-stop consultation counter** for remote work management and ICT.

➢ **Secure childcare-friendly housing, realize the development of a residential environment, and promote community building**.

- **Promote renovation** that helps with childcare and lightening the load of house chores and **creates space for remote working from home**, **support childrearing families obtain housing**, and **promote initiatives to create residential areas in close proximity to work and schools**.

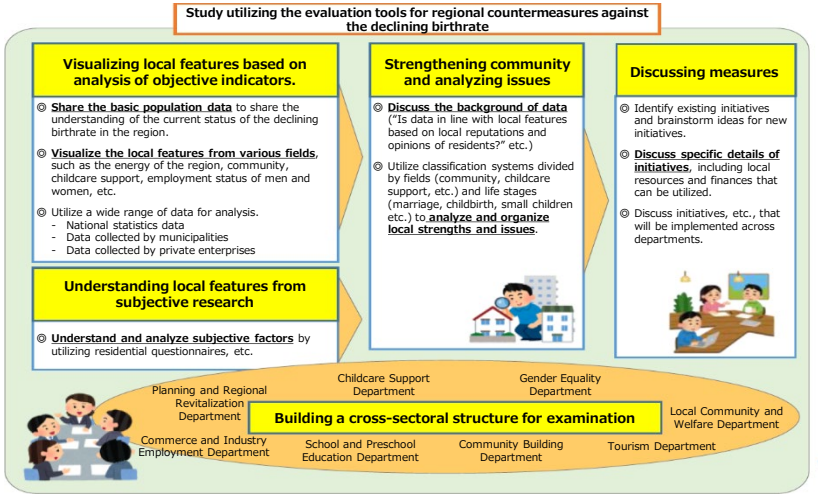
➢ **Push for a comprehensive initiative to support the participation of women in the workplace**.

- Popularize and promote the "**Eruboshi certification" for corporations engaged in women's participation in workplace.**
- **Nurture female digital HR and startups by women** through Grant for the Promotion of Local Women's Participation and Advancement, and **support women facing difficulties and hardships.**

Promotion of various regional initiatives that utilize digital technology for policies related to families with children

➢ **Promote countermeasures against the declining birthrate through** interdisciplinary **"regional approaches"** to initiatives tailored specifically to regional issues that have been identified by local governments, with regards to marriage, pregnancy, childbirth, and childrearing.

- **Popularize and promote the "Evaluation Tools for Regional Countermeasures Against the Declining Birthrate"** that shows the implementation process of specific initiatives in an interdisciplinary approach, including visualization of regional characteristics.

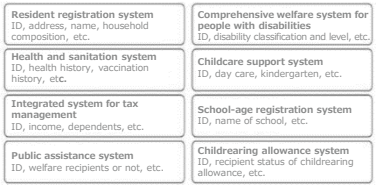


➢ **Push for DX in regional policies for families with children and the use of digital technology in countermeasures against the declining birthrate and promote the migration of families with children**.

- **Popularize the childcare support service (BabyTech)** that utilizes ICT.
- **Support** initiatives to counter the declining birthrate to solve regional issues by utilizing digital technology and **initiatives to promote migration of families with children** (DIGIDEN grants).

➢ **Establish work structures** that enable parents to devote their time to childcare.

- **Promote the development of information-sharing and work systems** to lighten the workload of various clerical tasks, such as application processes pertaining to policies for families with children and improve convenience.



Compiling eight systems into one childcare support system (Amagasaki City, Hyogo Pref.)

Enhance the Attractiveness of Every Region

(Resolve regional social issues by utilizing digital technologies [4])

<Main KPIs>

- **Percentage of schools using one device per student almost every day**: **100% by FY2025 (18,805 elementary and 9,437 junior high schools)** (55.4% for elementary and 53.6% for junior high schools in FY2021)
- **Number of local governments implementing initiatives introducing new mobility services**: **700 by FY2025**
- **Percentage of logistics enterprises that have achieved DX through automation, mechanization and digitization**: **70% by FY2025 (about 35,000 operators)** (31% in FY2021)
- **Number of cities equipped with 3D city models**: **500 by FY2027** (about 60 cities in FY2021)
- **Number of local governments that have formulated a vision for a "lifelong active community" that involves everyone from all generations and incorporates elements of a community where everyone has a place and a role to play**: **200 by FY2024** (162 as of November 2022)

<Major Measures>

Education DX

➢ **Considerably advance the GIGA School Concept from the foundation building stage to the utilization and promotion stage** to improve the quality of education across the country through DX.

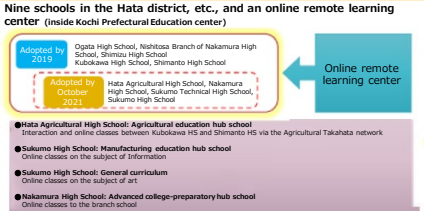
- **Create and horizontally expand practical and effective example practices**.
- Support smoother operations and **strengthen school and education**.
- **Utilize digital textbooks and materials, etc.**
- **Utilize MEXCBT** that enables students to study and take assessment at school and home.
- **Promote DX in school affairs**.

Improve equal educational opportunities from the bottom-up via digitalization.

Utilizing ICT for integrated career education from elementary to junior high school
(Kamoenai Village, Hokkaido Pref.)

➢ **Promote remote education** to improve the quality of education without factoring in the size of the school and geography.

- **Develop ICT infrastructure**, **build networks**, etc.



Streaming of classes and credit accreditation via an online remote learning center and between schools

DX in medicine and nursing care

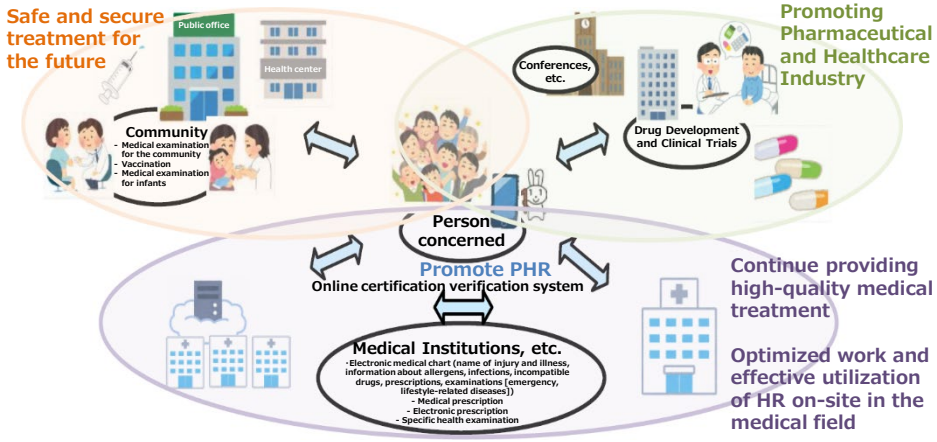
➢ **Further utilize remote medical care** to provide care in disadvantaged regions.

- **Formulate a basic policy** to further utilize remote medical care **and promote horizontal expansion of best practices.**

Providing health improving services by utilizing the Personal Health Record (PHR) linked with a local digital currency and online medical vehicle service (Taki, Mie Pref., etc.)

➢ **Promote DX in medicine** for citizens to enjoy a higher quality of service.

- **Establish a nationwide healthcare information platform** to share and exchange general information on healthcare.
- **Standardize electronic medical chart information**, and **promote DX in the revision of medical service fees**.



<Society realized through DX in medicine>

Enhance the Attractiveness of Every Region

(Resolve regional social issues by utilizing digital technologies [4])

Local Public Transportation

➢ Make more headway into digitalization and utilizing cutting-edge technology in the public transportation field, including **utilizing MaaS and further expanding the use of automated driving vehicles**.

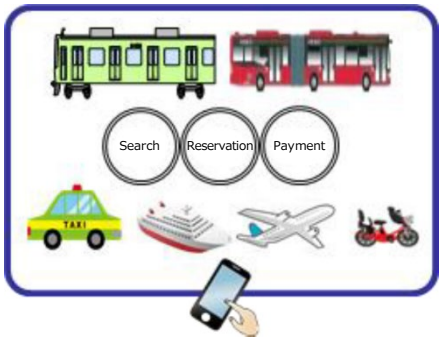
automated driving

- **Support trial operations** of bus services as part of local governments' efforts

automated driving bus operation
(Sakai Town, Ibaraki Pref.)

MaaS

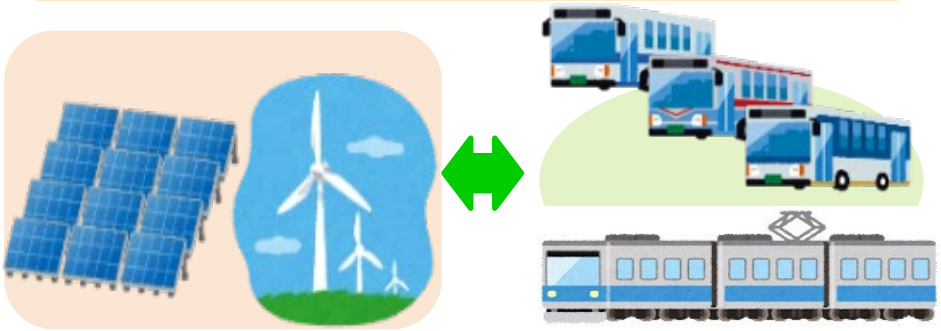
- **Promote to materialize, build and disseminate data linkage platform** to support upgrade of cooperation among transportation operators, etc.



➢ **Promote DX in public transportation**, including the use of electric vehicles, and local production and consumption of renewable energy.

Reduction in public transportation costs and realization of local carbon neutrality

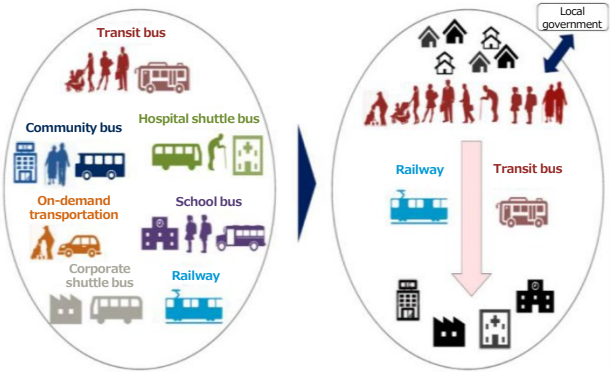
- Comprehensively promote the **use of electric vehicles and the adoption of effective operation and energy management, etc.**



➢ **Redesign local public transportation** through "Three Co-creations" (1) between the private and public sectors, (2) between public transportation providers, and (3) with other fields.

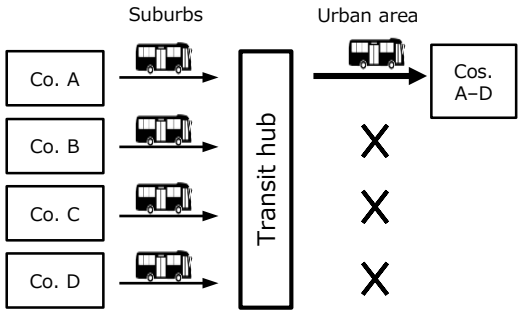
Co-creation b/w private and public sectors

- Establish a set of service standards for a certain area for local providers to follow and **operate multiple public transportation services together in the long-term**.



Co-creation b/w public transportation providers

- Provide a continuous service with **joint operation by multiple public transportation providers**.



Co-creation including other fields

- Realize **cross-sector business collaboration** between local public transportation providers and **service providers in other fields** (also referenced on P.32 as Key Policy Areas).

Medicine × Public transportation

Nursing care × Public transportation

Energy × Public transportation

Education × Public transportation

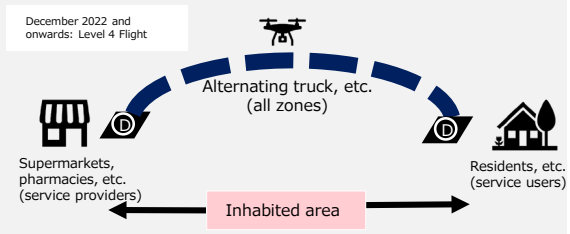
Enhance the Attractiveness of Every Region

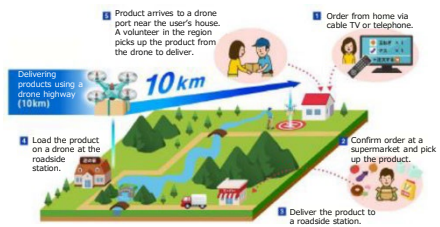
(Resolve regional social issues by utilizing digital technologies [4])

DX in logistics and infrastructure

➢ **Promote DX in logistics**, such as the **practical application of drones in logistics** in remote islands and mountainous regions.

- Utilize the **"Guidelines for Drone Delivery Services."**
- **Strengthen support towards building drone ports**, and **formulate manuals for drone logistics over rivers** based on verification test results of drone logistics over rivers.

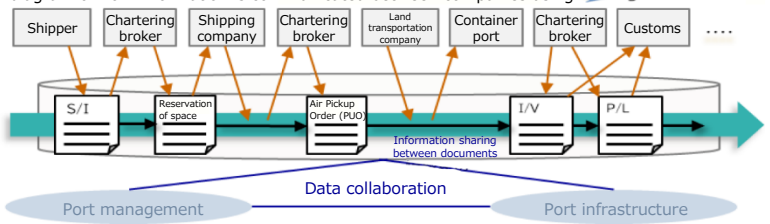




- **Build "Cyber Port,"** a platform that digitalizes various information on ports and harbors and links and handles data in an integrated manner.

Cyber Port (Port logistics)

Conceptual diagram of how information is communicated between companies using Cyber Port



➢ **Optimize various procedures** pertaining to infrastructure, **share information** using 3D data, and implement **remotization, automation, and autonomization** of on-site operations.

☐ **Make data on infrastructure open to the public through the MLIT Data Platform.**

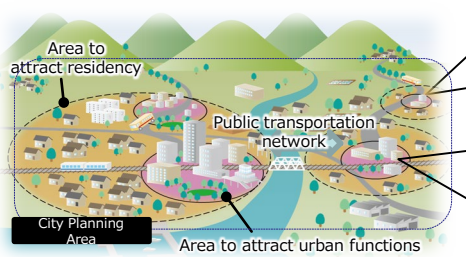
☐ **Promote the automation and autonomization of construction equipment.**

E.g. Automated construction: Naruse Dam (Akita Pref.)

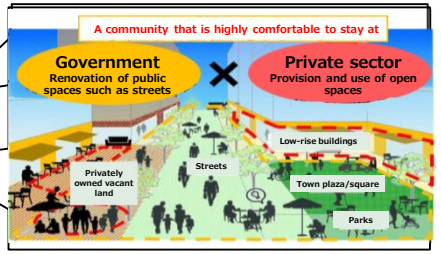
Creating a compact community centered around the people to support diverse lifestyles

➢ **Promote the building of a compact, lively and comfortable community.**

- Promote the **"Compact Plus Network"** initiative to attract life-service functions and residents to a central or life-service hub area and link areas with public transportation
- **Building a comfortable and pedestrian-friendly community** that supports diverse work and lifestyles via the utilization of existing private and public infrastructure.



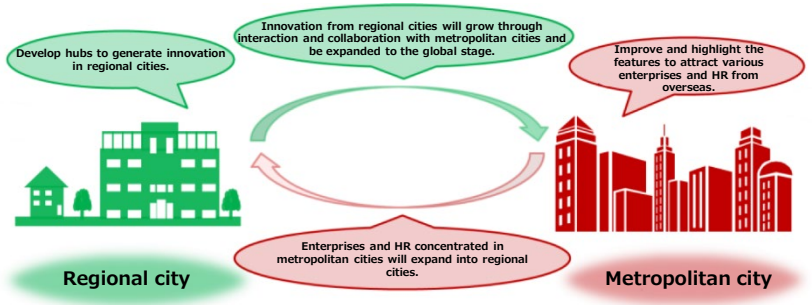
Conceptual diagram of a "Compact Plus Network"



Conceptual diagram of building a comfortable and pedestrian-friendly community

➢ **Promote urban revitalization through collaboration with regional and metropolitan cities via digital technology.**

- **Promote collaborative support from relevant ministries and agencies to high-quality urban development projects that utilize ditigal technology and are undertaken by the private sector, as well as promote interaction and collaboration between regional and metropolitan cities to accelerate urban revitalization,** so as to improve the innovation capabilities of regional cities and the international competitiveness of metropolitan cities.



Conceptual diagram of urban revitalization via collaboration between regional and metropolitan cities

➢ **Promote DX in community building.**

- **Develop and utilize 3D city models and make data available to the public** (Project PLATEAU).
- **Restructure urban space and advance area management** utilizing digital technology.
- **Create open innovation** utilizing data.

Enhance the Attractiveness of Every Region

(Resolve regional social issues by utilizing digital technologies [4])

Building a unique community leveraging local resources—community building through culture and sports

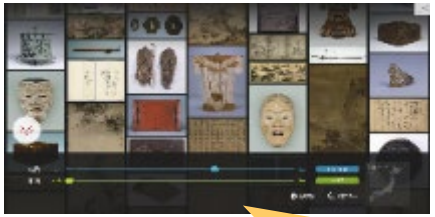
➢ Promote cultural heritage to domestic and international audiences using digital technology, and promote a new experience of culture and arts that utilizes digital technology at museums.

- Ahead of EXPO 2025 Osaka Kansai, Japan, implement the **Japan Cultural Expo 2.0 to highlight the beauty and soul of Japan**, including **cutting edge VR experiences and promotion of utilizing digital contents**.
- Create a database of national treasures and important cultural properties provided by museums across Japan and **promote the vision of Cultural Heritage Online for anyone to enjoy the culture and art of various regions wherever they are**.

[Japan Cultural EXPO 2.0]
- **Virtual Japan EXPO utilizing a metaverse**
- Digital content of artworks and theater productions accessible from anywhere in the world

Special performance in February 2021 "Moon, Snow, Flower –Soul of the Seasons-"

Kohei Nawa
White Deer (Meiji Jingu)
Painted bronze, 2020
Photo: Keizo KIOKU

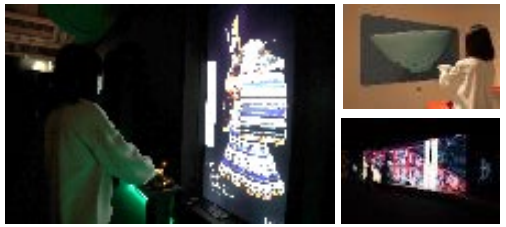


[Cultural Heritage Online]
- Renewed in April 2022 as "New Encounter with Cultural Properties"

https://bunka.nii.ac.jp/

- In accordance with the revised Museum Act, support **the digital archive initiatives of museums across Japan**, and push for proactive initiatives that utilize digital technology.
- Promote proactive initiatives of **national museums**, such as the **development and global dissemination of virtual exhibits**.

E.g. Yamanashi Prefectural Museum ("3D Dive Theater")



Initiatives by the National Center for the Promotion of Cultural Properties and Tokyo National Museum (Hands-on exhibit "Museum of the Future")

➢ Accelerate the nationwide expansion of building a sports and health community

[Increase the number of visitors through sport]
- **Promote sports tourism**, etc., by developing content, including outdoor sports and martial arts tourism that has a high inbound demand, and improving the quality of local sports commissions.
- **Public and private sectors to work together and promote the refurbishment of stadiums and arenas** with the aim of creating lively region through the utilization of digital technology, etc.
- Enterprises and universities to collaborate and co-create with local sports teams to **build a region-based sports open innovation platform (local Sports Open Innovation Platform SOIP)**

Sports tourism

Stadium and arena refurbishment

[An environment that encourages everyone to walk, exercise, and play sports daily]
- Work towards **developing and raising awareness of an environment suitable for a diverse group of people in the community to exercise and play sports regardless of their gender, age, or disability**.
- Promote the effective use of school gymnasiums and private sports facilities to push towards building a more familiar environment suitable for their needs. **Promote initiatives to utilize other various spaces, such as parks and other open spaces**, **unused spaces in public offices and commercial facilities, etc.**
- Promote **initiatives for the comprehensive development of an environment that allows community collaboration for school extracurricular activities and shifting such activities to community activities**, including the use of after-school activity supervisors.

Utilization of open spaces and other spaces

Community cooperation for school extracurricular activities

Enhance the Attractiveness of Every Region

(Resolve regional social issues by utilizing digital technologies [4])

Building a unique community leveraging local resources —creating a Circular and Ecological Economy

➢ **Promote initiatives to improve sustainability of the community based on the concept of a Circular and Ecological Economy.**

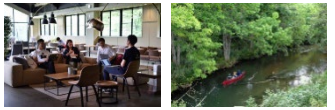
- **Initiatives towards locally sourced and locally consumed energy and decarbonization leveraging local resources, improving the local energy self-sufficiency rate** by combining resource recycling with digitalization, and **the smooth transfer of the local economy towards decarbonization**

Image of "Newly Prosperous Lifestyles " through DX and GX (Green Transformation)

- **Realization of dispersed living and symbiotic lifestyle with nature** utilizing digital technology

[Promote the "Visit! National Park" project]

- With the aim to achieve regional revitalization and provide a moving experience to visitors, improve the quality of visitor stays in national parks.
- Promote workation and nature tours together with local community.

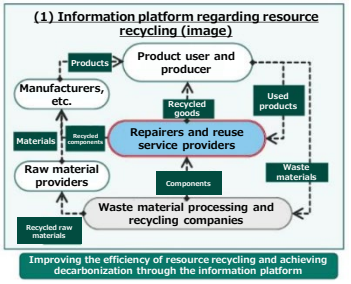


Nature and workation experience in national parks

- **Resource recycling × Digital**

[Create a recycling-based society and preserve the local living environment]

- Promote the transfer towards a recycling-based economy through the utilization of digital technology to accelerate the optimization of garbage collection and intermediate treatment, the creation of information platforms on used products and recycled metals, and the advancement of recycling systems of plastics, metals and renewable energy products.



Building a safe community with strengthening disaster risk reduction and National Resilience, etc.

➢ **Integrated development of an environment where residents continue to feel safe to live**

- **Formulate evacuation plans** utilizing digital technology, which is indispensable for **disaster prevention DX**.

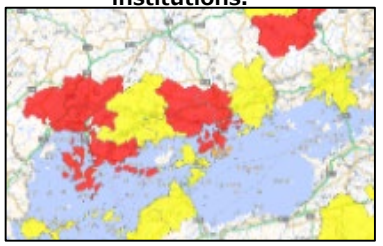
➢ **Development of disaster prevention infrastructure** that functions in case of disaster

- **Build a system to handle disaster operations on the cloud** where multiple local governments can participate.

➢ **Utilization of disaster information**

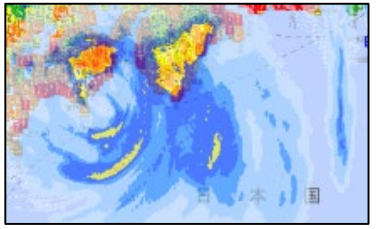
- **Build an integrated geospatial disaster prevention and mitigation system** by utilizing Geospatial Information.

Gather information from relevant institutions.



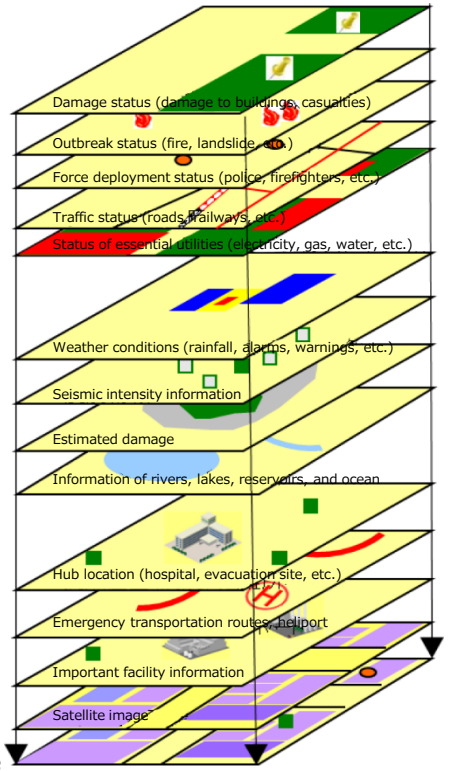
Water outage information

Road traffic regulation status



Short-term forecast and analysis of rainfall volume

Map the collected data and utilize it to handle disasters



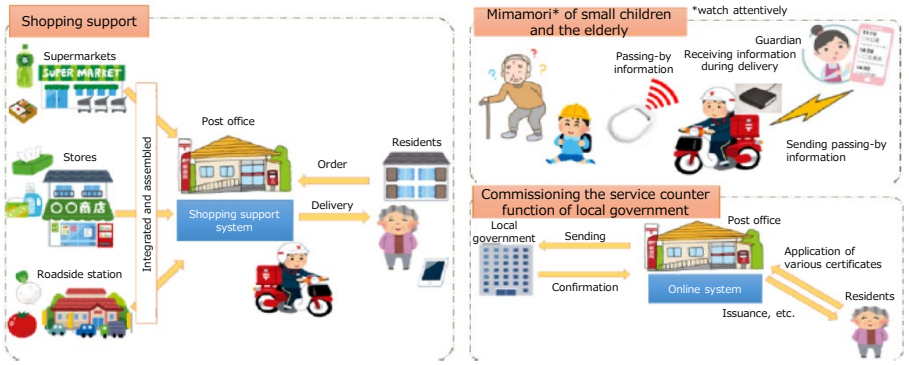
Enhance the Attractiveness of Every Region

(Resolve regional social issues by utilizing digital technologies [4])

Maintaining and strengthening local community functions

➢ Utilizing digital technology to collaborate with each other, various organizations and entities **promote supplemental initiatives for regional communities** and build **a safe society to live in**.

- Utilizing existing facilities such as post offices **as administrative service counters**, etc.



- **Promote the utilization of social education facilities**, such as community halls, libraries, etc.

- **Properly use and manage national lands** via digital utilization.

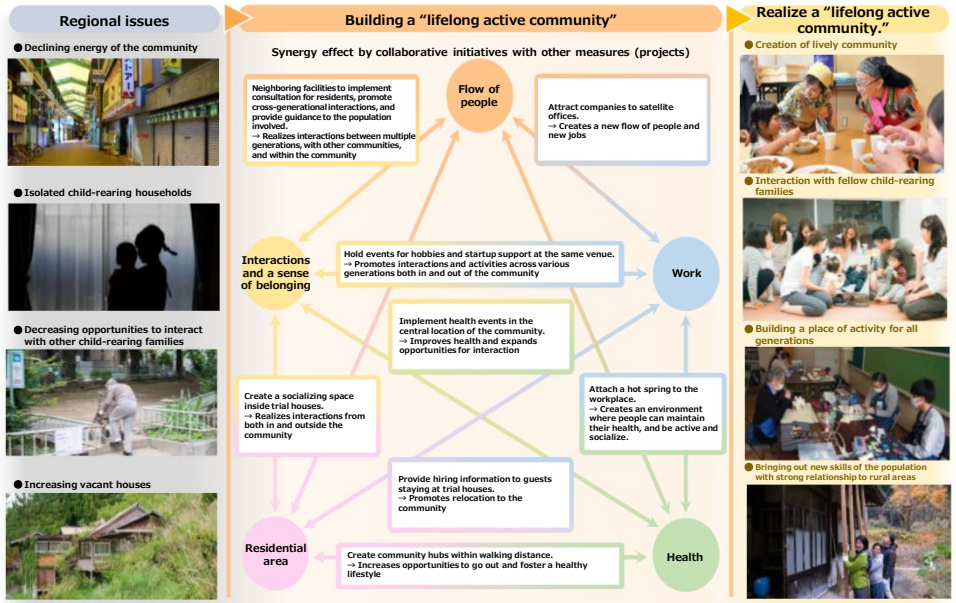
➢ **Promote the circulation of a cashless and local digital currency** to vitalize the local community.

Building digital infrastructure for the local currency Negi
(Fukaya City, Saitama Pref.)

Improved administration services by utilizing the "Sarubobo Coin," a local electronic currency
(Hida City, Gifu Pref.)

➢ Support local governments' initiatives to utilize digital technology to achieve their vision of **"a lifelong active community" that involves everyone from all generations**.

Image of "a lifelong active community" that involves everyone from all generations



- **Work sharing projects** to integrate online interaction with companies with a labor shortage problem.

[Work at the hub sites]

[Sorting and enclosing]

Work sharing that utilizes an online order system (Nagicho, Okayama Pref.)

- **Health point projects** that use apps to improve the health of local residents and expand opportunities for interaction

[App screen]

[Walking map]

Promoting walking by utilizing a health point app (Kumiyamacho, Kyoto Pref.)

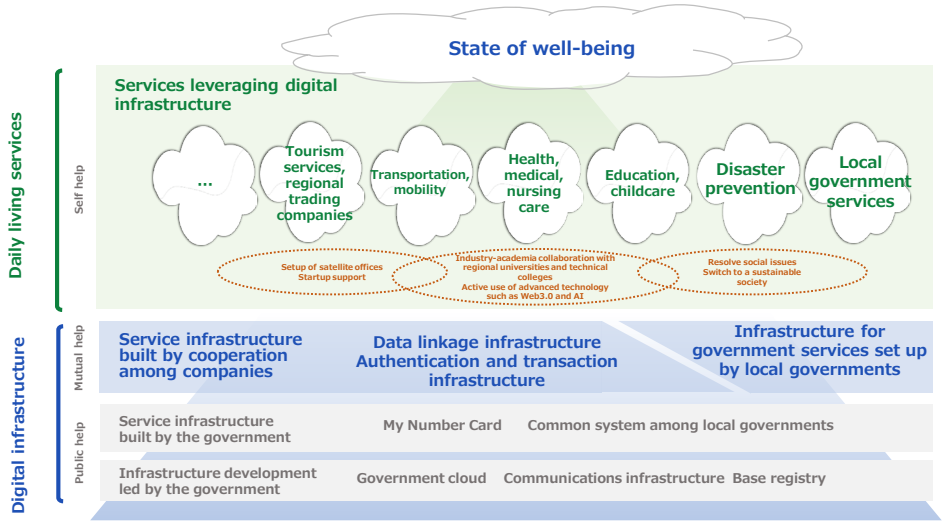
➢ **Promote the use of powered suits** in the fields of agriculture, nursing care, and construction.

Digital Infrastructure Development <Develop basic conditions for digital implementation (1)>

Building digital infrastructure and nationwide horizontal expansion of living services

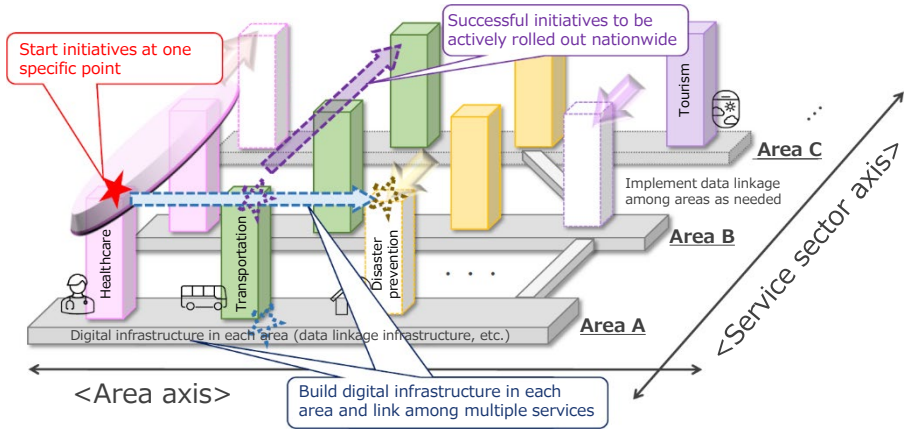
➢ Strategy for building digital infrastructure and realizing a Digital Garden City Nation

- The government is to **lay out an overall vision and be responsible for building a common digital infrastructure for all to use**, such as the My Number Card.
- Local governments are to **build digital infrastructure for administrative services** and digitalize their own services. At the same time, they are to **actively support the establishment of digital infrastructure required for living services** (data linkage, authentication and transactions, etc.) achieved with cooperation among companies in the private sector.
- Local governments should draw up their own visions to aim for and **strategically identify the first key initiatives to take**. That should be the starting point to **gradually expand services that utilize digital infrastructure**. They should ultimately **aim for digitalization of household economics overall** that leads to **realizing the state of well-being**.



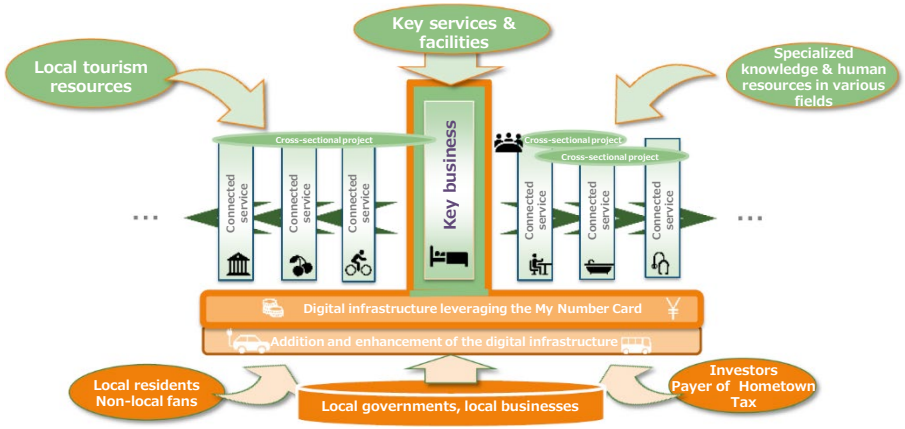
➢ Nationwide horizontal expansion of living services that utilize digital infrastructure

- Efforts should be made to digitalize services in one category as a start, and gradually expand from there. At the same time, **digital infrastructure should be developed in each area, then data can be linked among several services**. **Successful cases should be actively implemented nationwide**.
- Through efforts targeting both areas and services, **we will aim at implementing digital services all over the country**.



➢ Building digital infrastructure suited to the conditions of each region

- **Select key businesses** (those that can readily provide a ripple effect and command a unifying effect to draw in other services) and **digital infrastructure that should be developed** and use digital infrastructure to aim for complete self-reliance.
- Effectively utilize the digital infrastructure to **expand efforts in digital implementation to other services**.



Digital Infrastructure Development <Develop basic conditions for digital implementation (1)>

<Main KPIs>

- **5G population coverage**: **Achieve 99% by FY2030** (Over 30% at the end of FY2020)
- **Household optical fiber coverage**: **Achieve 99.9% by FY2027** (99.3% as of the end of FY2020)
- **Submarine cables surrounding Japan (Digital Garden City Superhighway)**: **Completed by the end of FY2025**

etc.

<Key Measures>

Building digital infrastructure

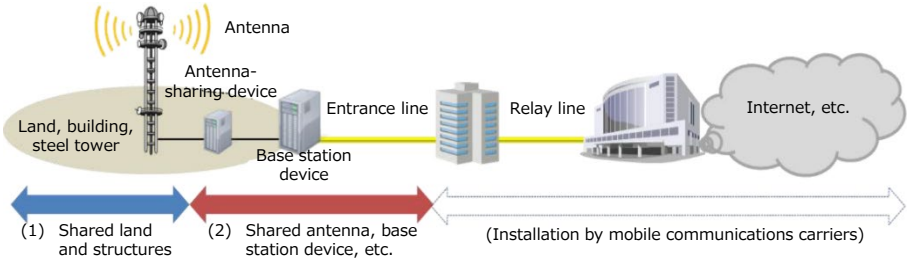
➢ Promote development of fiber-optic networks

- **Support development of fiber-optic communications networks through subsidies** for disadvantaged regions, such as remote islands and underpopulated areas.
- With an amendment to the Telecommunications Business Act (enacted in June 2022), **a new subsidy system for universal service will be established.** The system will provide support to maintain and manage service in unprofitable regions.

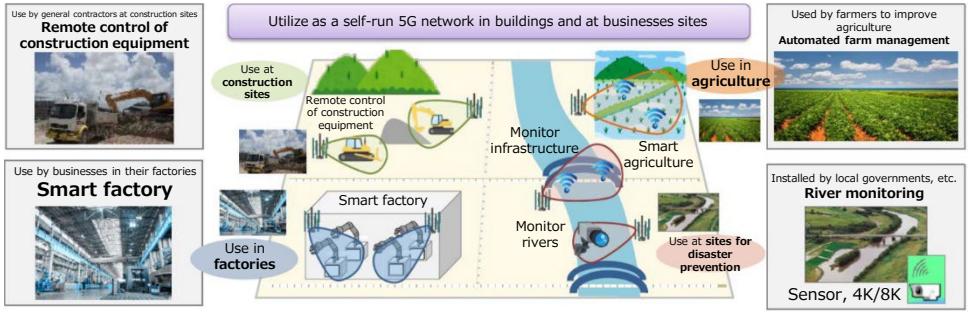
➢ Promote development of 5G networks

- **Provide support** for disadvantaged regions **through subsidies for 5G development and tax incentives to promote the introduction of 5G** for which security and reliability are ensured.
- **Promote infrastructure sharing**, etc.

[Scope of infrastructure sharing (conceptual image)]

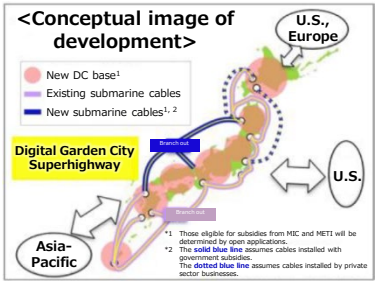


- Create models to solve regional issues utilizing new technology, **such as local 5G networks.**



➢ Promote development of data centers and submarine cables

- **Support development of regional data centers and submarine cables** through fund subsidies (supplementary budget for FY2021).
- **Promote development of Internet Exchange (IX)**, which should also be decentralized together with data centers and submarine cables, **in regional areas**.



➢ Develop and implement Beyond 5G (6G)

- **Further accelerate R&D** in line with new technological strategies for **Beyond 5G (6G).**

Digital Infrastructure Development <Develop basic conditions for digital implementation (1)>

Promoting widespread use of the My Number Card and expansion of its utilization

From the perspective of achieving a digital society that is safe, secure, and highly convenient as soon as possible, **vigorously promote widespread use of the My Number Card** in line with targets set by the government, such as through support in strengthening the system for card issuance by local governments. At the same time, **further promote an increase in convenience of use and situations for usage of the My Number Card** as the passport for a digital society.

<Promote widespread use of the My Number Card>

➢ Initiative for integration with the health insurance card

- Ensure thorough widespread use of the My Number Card among all who can obtain it and a review of the procedure and format for those who face difficulty in doing so, then **aim to abolish the existing health insurance card by fall 2024**.

➢ Initiative for integration with driver's licenses

- **With regard to the time frame for integration with driver's licenses, which is currently scheduled to start by the end of FY2024, study the feasibility of moving the timing forward**, while assuring quality so that system failures do not occur and factoring in the period necessary for data transfer.

<Increase situations for use of the My Number Card>

➢ Enhance online city hall services

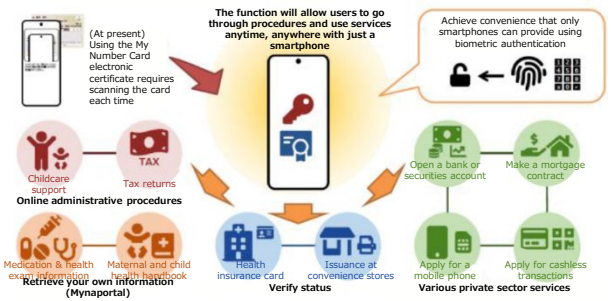
- **Commence service** in FY2022 **for an online notification when moving out of a municipality and online reservation for submitting the move-in notification, and aim to enable the online processing of 31 procedures** related to childcare and nursing care **for all municipalities, in principle.**
- **Establish a system** for administrative organizations **to deliver various notifications** to citizens **in a precise manner**.
- **Gradually increase the number of local governments that can offer an automatic certificate issuance service** at convenience stores, postal offices, etc., and aim for service provision to become nationwide.

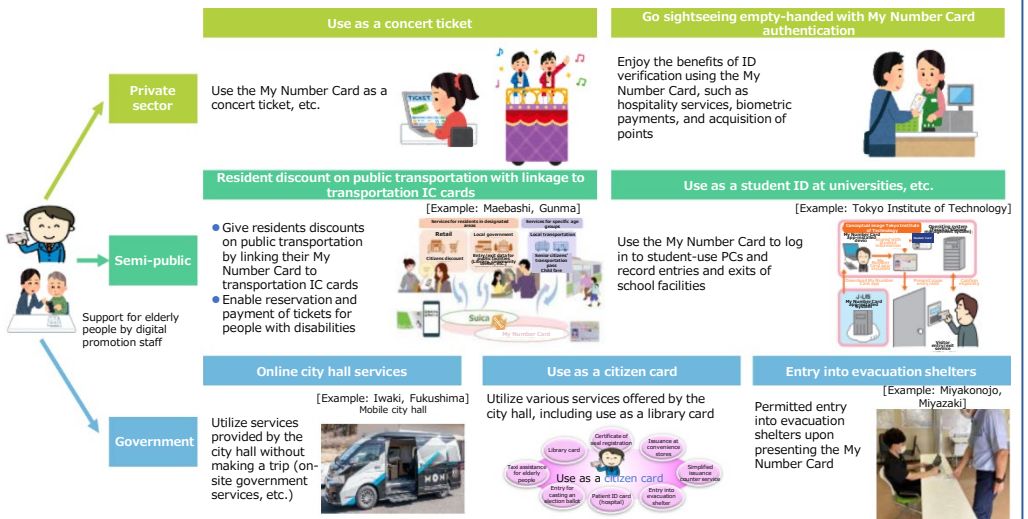
➢ Promote its acceptance as a citizen card

- **Encourage the trend for use as a citizen card** in local governments **using various support systems**.

➢ To promote use of the My Number Card in various situations for private sector businesses, provide an electronic certificate issuance service at no cost for the time being.

➢ Promote smartphones equipped with the My Number Card function (electronic certificate).





➢ Nationwide rollout of local government My Number Points

- Use the My Number Card **for national rollout of the My Number Points program conducted by local governments,** which provides points unique to their regions.

A prosperous life with a single My Number Card
Those points, in your town

➢ Regional revitalization with the establishment of a cashless payment infrastructure

- Undergo initiatives for widespread unified codes (JPQR) in cooperation with the Payments Japan Association and **promote the move toward cashless transactions in regions, such as by increasing opportunities to use regional My Number Points.**

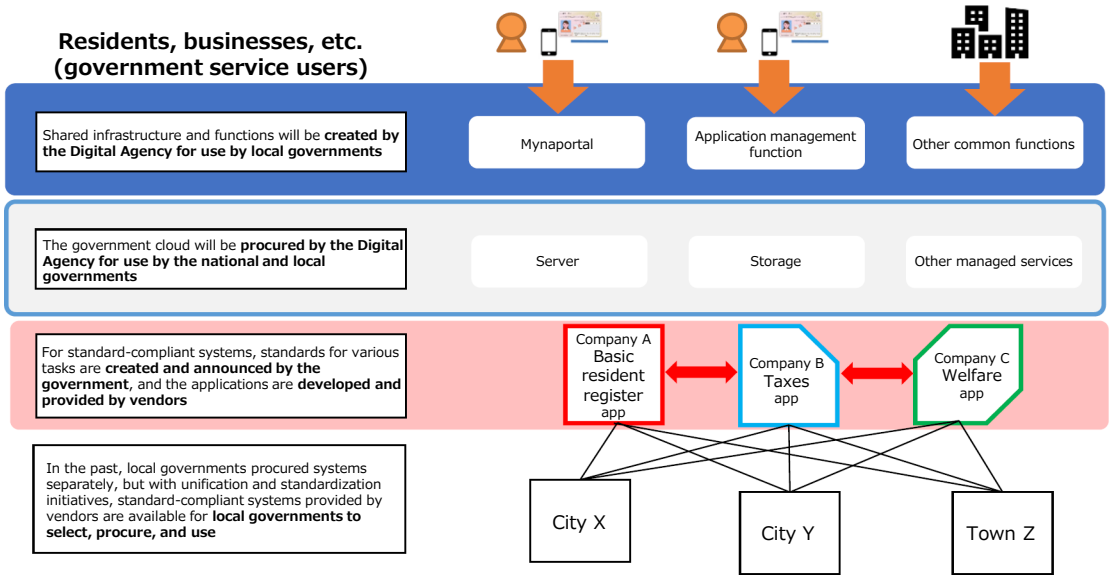
Digital Infrastructure Development <Develop basic conditions for digital implementation (1)>

Building infrastructure for data linkage (public and semi-public spheres)
Governmental provision of digital infrastructure and functions to local governments

With the declining population, **a change in the structure of efficiently providing services that meet the needs of individuals is essential.** To do so, **it is important to build infrastructure for data linkage that will enable the sharing and utilization of data effectively in multiple domains.**

➢ Governmental provision of digital infrastructure and functions to local governments

- **The Digital Agency will procure and build a common infrastructure and digital service functions for local governments**, which **local governments will be able to use as necessary** in their system for core operations.
- From the multiple standard-compliant applications created by vendors that are available on the government cloud, local governments will **select, procure and use the most suitable applications for their operations.**



➢ Use of the government cloud related to the core operation system of local governments

- Based on the results of government cloud advancement operations conducted in FY2021 and FY2022, **documents such as user manuals and transition guides will be created to support the transition to the government cloud system by FY2025**.

➢ Unification and standardization of local government information systems

- **The necessary support** will be provided, such as assisting with necessary expenses, conducting progress management through PMO tools, and making plans for the safe transition by local governments at an appropriate cost, **aiming for all local governments to smoothly transition to a system conforming to standard specifications by FY2025.**

<Advantages in local governments using the government cloud>

Shared servers, OS, and apps can be used by utilizing the government cloud, leading to cost reductions.

Local governments are able to select from apps developed on the government cloud by private sector businesses, creating competition that leads to cost reduction and improved ease of use.

Utilizing the functions offered by the government cloud can enable speedy construction of information systems and flexible expansion.

It will become easier to provide residents with new services faster, easing the work burden on local government staff.

Transfer of data when migrating apps can be facilitated with the use of the government cloud, making data linkage in and out of the agency easier.

Providing residents with a “once only” service, where they only need to enter information once, will become easier.

The need for each organization to implement security measures and monitor operations will become unnecessary with the government cloud handling it for all.

The latest security measures that organizations individually could not implement would become possible.

Digital Infrastructure Development <Develop basic conditions for digital implementation (1)>

Development of Interoperable Data Infrastructures (industrial sector)

Systematic societal implementation of hardware, software, and rules based on the architecture for full-scale deployment of cross-regional digital services

Deploying the infrastructure necessary for providing services utilizing digital technology to support and maintain the local daily living infrastructure and communities. Given the infrastructure for digital services involving spatial movement can only be developed cross-regionally by nature, physical infrastructures such as roads and operating systems must be developed in parallel.

➢ Necessity of Digital Lifeline

- In rural regions with declining and aging population, the use of digital technology is the key to **provide services that support the daily life infrastructure of local residents** (e.g., delivery of daily necessities using UAMs) and ultimately maintain the community.
- In the field of passenger/freight transport, commercial distribution, and money flows where services are required to be provided not only within the region but across regions, **government must examine the optimal Digital Lifeline for cross-regional issues.**

➢ Digital Lifeline Development Plan

- **A long-term plan will be formulated to establish Digital Lifeline** so that the benefits of digitalization can be enjoyed **all over the country** through **efficient and effective investments by the public and private sectors** according to the architecture of societal system.
- Digital Lifeline in the "Digital Lifeline Development Plan" needs to be optimally implemented nationwide, considering the viewpoint of resilience and the scalable environment for renewable energy for each region by backcasting from region-oriented visions and use cases to identify the level of specifications required.

* In formulating the plan, the consistency with existing plans and measures is taken into consideration.

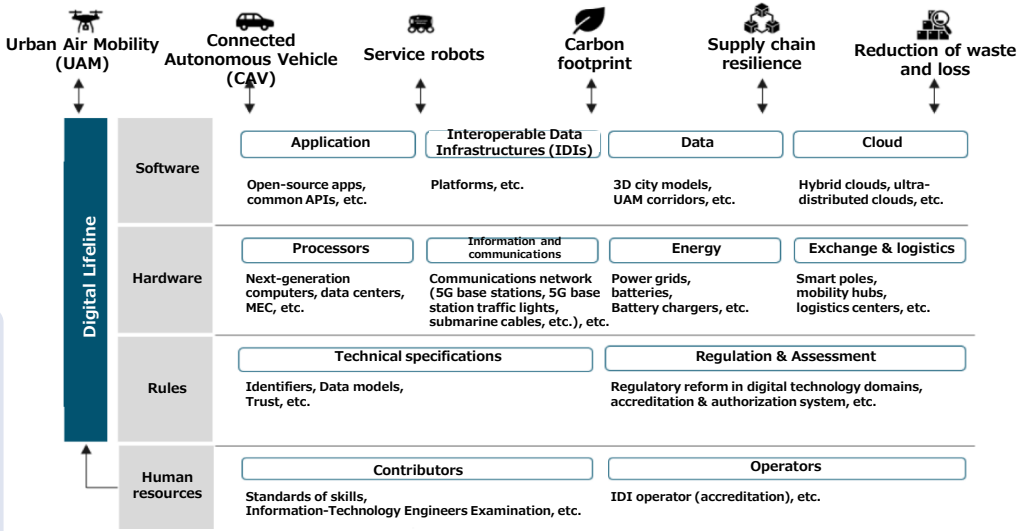
➢ Architecting

- Digital Architecture Design Center (DADC) brings together the wisdom of industry, academia, and government to **design a blueprint of comprehensive set of the hardware, software, and institutions—that is, architecture—necessary for digital society**, and is undertaking demonstrations related to interoperable data infrastructures together with enterprises and relevant organizations.

➢ Establishing Digital Lifeline

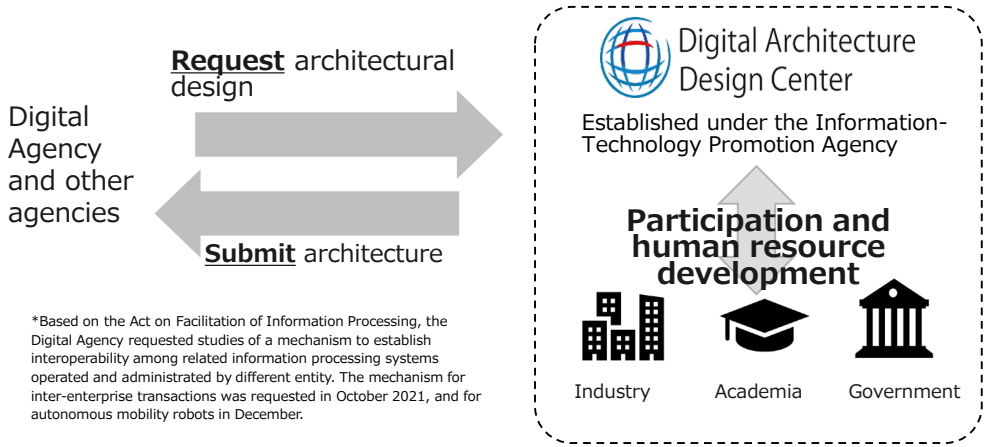
- Toward **establishing Digital Lifeline**, **a council will be established to follow up on policies and progress updates** and hence enhance in effectiveness of the plan.

<Structural components of Digital Lifeline>



* Some of the examples such as data center in the table above straddle multiple items, but are listed as one item for convenience.

<System for architectural consideration>



*Based on the Act on Facilitation of Information Processing, the Digital Agency requested studies of a mechanism to establish interoperability among related information processing systems operated and administrated by different entity. The mechanism for inter-enterprise transactions was requested in October 2021, and for autonomous mobility robots in December.

Development/Securing of Digital Human Resources <Develop basic conditions for digital implementation (2)>

<Main KPIs>

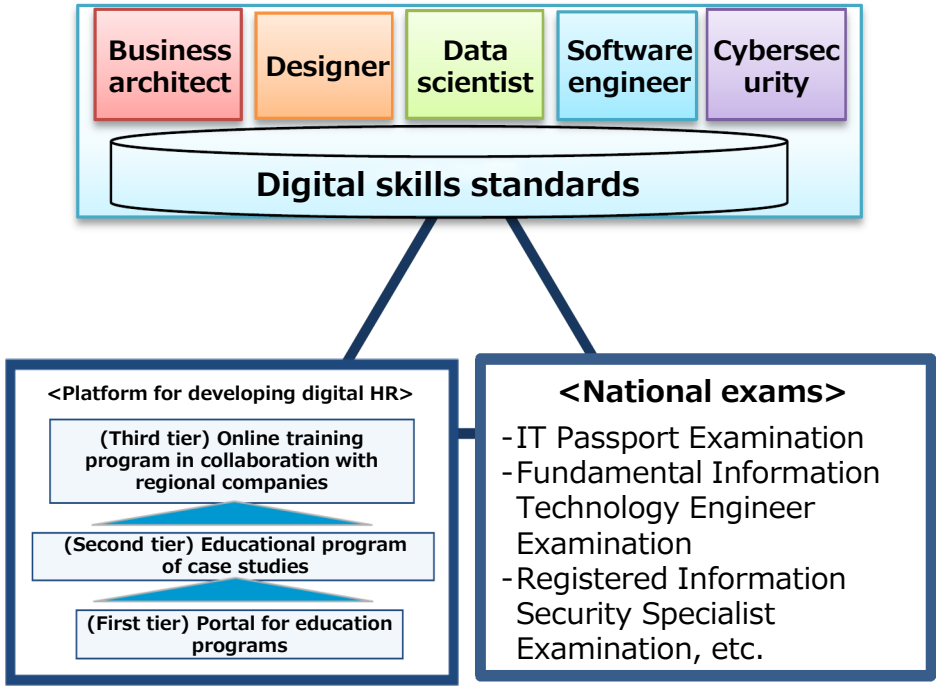
■**Human resources for digital promotion**: **a total of 2.3 million people trained between FY2022–2026**

<Key measures>

Creation of the platform for developing digital HR

➢ In addition to **presenting digital skill standards** required by the industry, the platform for developing digital HR **provides educational content related to the digital skills standards** and promotes human resources training nationwide.

- **Establish digital skills standards for DX promotion human resources (DX promotional skills standards)** in December 2022.
- **Create an online educational environment** that provides various educational content related to digital skills standards and **conduct practical case study programs and online training** utilizing digital technology.
- **Conduct objective evaluations** for IT literacy as well as knowledge and skills as professional IT talent through **national exams (Information-Technology Engineers Examination)**.

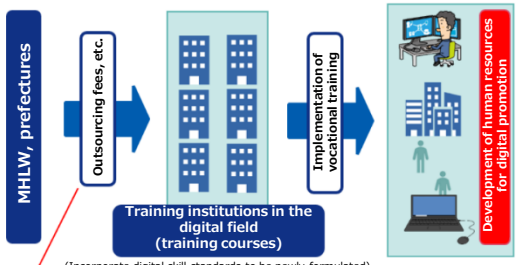


Job training focused on the digital field

➢ To promote training and securing of human resources in the labor market, promote an **emphasis on the digital field in vocational training.**

- Emphasize the digital field in public vocational training and in education and training benefits, such as by **continuing and expanding additional support for training outsourcing expenses for courses aimed at obtaining qualifications in the IT field**.
- **Allocate a larger amount of aid for training to develop digital HR** in support funds for human resource development aimed at corporations.
- **Promote setting vocational training courses suited to the needs of respective regions including in the digital field, as well as verifying the effectiveness and encouraging course registration** through councils in each of the prefectures.

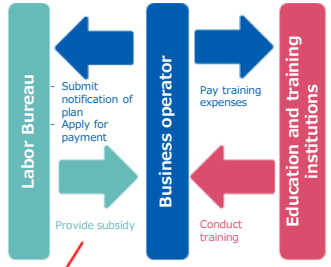
[Public vocational training conducted by outsourced private companies]



(Incorporate digital skill standards to be newly formulated)

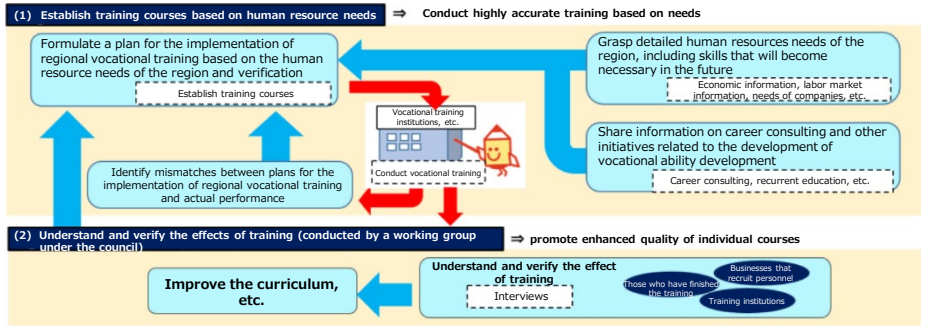
- Additional support for outsourcing fees in the IT field and digital field such as web designing
- Additional support for outsourcing fees for courses that include corporate training
- Addition of expenses required for loaning out PCs for online training to items eligible as outsourcing fees

[Support funds for human resource development]



- Allocate a larger amount of aid for training to obtain knowledge and skills in the digital field
- An increase in subsidies for training that will likely be needed by companies, such as subscription-type e-learning services for efficient participation in training, which includes those for the digital field

[Support by the Promotion Council for Regional Development of Vocational Abilities in setting up vocational training courses and verifying their effectiveness]



Development/Securing of Digital Human Resources <Develop basic conditions for digital implementation (2)>

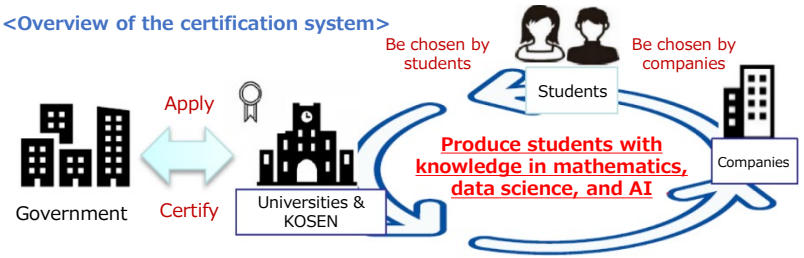
Development of digital HR in higher education institutions

➢ **Acquisition of and recurrent education about digital knowledge and abilities** in higher education institutions, etc.

- Promote initiatives of universities, etc., through a **system for the government to certify outstanding educational programs** from mathematics, data science, and AI education at universities, etc.
- **Set up Japan Inter-University Consortium for Mathematics, Data Science and AI education** with universities across Japan and promote mathematics, data science, and AI education among the regions in cooperation with regional DX bases.
- **Create a new fund and provide flexible and continuous support** to universities and colleges of technology (KOSEN) that are eager to start converting faculties to growth areas such as the digital field.
- **Strengthen functions within universities and KOSEN for developing human resources** through industry-academia-government collaboration with the Council for Promotion of Digital Human Resource Development, and **identify and deliberate on human resource needs and promote development in the industry** in each region.
- **Build a structure for universities and professional training colleges to collaborate with local governments and the industrial sectors, including companies**, and **provide programs for recurrent education** targeting employed and unemployed individuals and temporary workers focusing on areas of growth, such as the digital field.

[Approved Program for Mathematics, Data Science, and AI Smart Higher Education]

<Overview of the certification system>

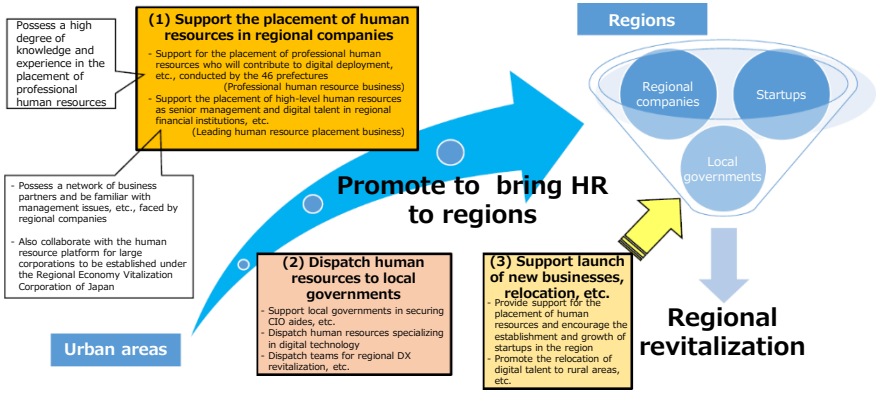


Promotion of bringing digital HR to the rural areas

➢ **Promote to bring digital HR to rural areas** so that such scarce human resources can participate in solving regional issues.

Carry out concentrated initiatives as follows, setting time limits, as a **strategy package for the return of digital HR to regions**.

- **Strengthen efforts made in close cooperation with** REVIC, which will develop a professional human resource strategy base and a human resource platform for regional financial institutions and large firms.
- **Support human resource placement** in cooperation with employment agencies specializing in venture capitals and startups.
- **Promote initiatives in cooperation with private sector businesses, etc., as well** to encourage dispatch of highly skilled external human resources to local governments.
- **Support the relocation of digital talent, etc., to rural areas** through the regional revitalization relocation support project, while also **supporting the launch of new businesses, etc.,** that aim to resolve social issues of regions utilizing digital technology, etc., with the regional revitalization entrepreneurship support project.

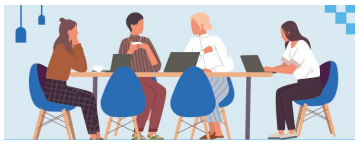


Strategy package for the return of digital talent to regions

Development/Securing of female digital HR

➢ **Promote the development and securing of female digital HR** to support women's careers and financial independence and to eliminate the gender gap in the digital field.

- **Based on a plan to develop female digital HR**, **intensively promote for three years from FY2022** support for the acquisition of digital skills and employment in the digital field.
- For public vocational training, **provide additional support for training outsourcing expenses for courses aimed at obtaining qualifications in the IT field**; **increase e-learning courses and run training courses that provide childcare services, etc.,** so that women with time constraints for reasons such as childcare can participate.
- **Support the development of female digital HR and female entrepreneurs and employment in the digital field** through Grant for the Promotion of Local Women's Participation and Advancement.
- **Roll out initiatives in all regions throughout Japan** with case studies of good practices, etc.



Development/Securing of Digital Human Resources <Develop basic conditions for digital implementation (2)>

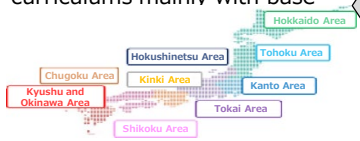
In light of large variances in quality and need among regions regarding the digital talent required to resolve social issues, stemming from factors such as difference in industrial distribution, **it is essential to build a proactive cooperative structure among the relevant parties surrounding the region developing human resources so that the development and securing of HR that are rooted in regional needs can be carried out effectively**.

Collaboration revolving around bases and consortiums that promote regional digitalization

➢ **Promote initiatives based on collaboration among industry-academia-government bases and consortiums** to achieve digitalization by companies and industries based on conditions surrounding the regions

- **Collaboration by the Japan Inter-University Consortium for Mathematics, Data Science and AI Education and regional DX bases**, which will develop and secure human resources necessary for digitalization of the regions' companies and industries, through information sharing and other means.
  - Provision of locations to set up model curriculums and training for regional digitalization bases by schools representing the regional blocks.
  - Acceptance of students into practical learning and OJT programs through regional DX bases.
- To develop and secure human resources with specialized knowledge in specific fields according to the region's needs and industrial structure, **comprehensively promote initiatives for human resource development in regions, such as the creation of consortiums through industry-academia-government collaboration, education at universities, etc., recurrent education for working members of society, and vocational training for unemployed individuals**.

[Japan Inter-University Consortium for Mathematics, Data Science and AI Education]
Develop teaching materials based on model core curriculums mainly with base



Cooperation

[Initiatives for regional DX promotion]
Example: Regional DX promotion bases
- IoT acceleration local labs (106 locations)
- Regional DX promotion communities (27 locations)

etc.

Example: Base to promote regional digital industry infrastructure
- Semiconductor consortium (Kyushu, Tohoku, and Chugoku regions), storage battery consortium (Kansai region)

Collaboration revolving around human resources utilizing education, training, etc.

➢ Promote cooperation among various systems to **facilitate the use of the platform for developing digital HR and education and training programs**

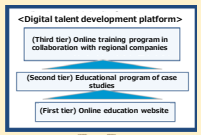
- As designated courses for education and training benefits, **add the training programs on the platform for developing digital HR and training programs developed by higher educational institutions**.
- **Make more external training eligible for** support funds for human resource development.
- **Promote awareness of measures** at the Promotion Council for Regional Development of Vocational Abilities by sharing information gained through operating digital talent training platforms, regional DX bases, and Japan Inter-University Consortium for Mathematics, Data Science and AI Education.

[Expand designated courses for education and training benefits]

<Education and training institution>

Utilize education and training

Add the training programs on the platform for developing digital HR and training programs developed by higher educational institutions to designated courses



Collaboration related to regional companies to secure and utilize human resources

➢ **Promote the securing and use** of digital HR trained through various training programs, **including those working part-time or as a side job, at regional companies**

- **Promote the securing and use of digital talent trained through various training programs** at relevant organizations in the professional human resource business and leading human resource placement business.
  - Leverage shareable information, including the human resource needs of each region gained through the operation of regional DX bases and Promotion Council for Regional Development of Vocational Abilities, and employment conditions of human resources obtained through various training programs.

Wide-area cooperation among regions working to develop and secure digital talent

➢ **Promote collaboration among regions** by promoting the sharing of information among regions and recruitment of digital talent through cooperation among local governments

- **Gather information such as issues and actual cases** entities in each region experience **to share with various external regions**.
- **Promote the securing of digital talent through cooperation among local governments**, **building of a network for digital talent** active in local governments, **and rollout of best practices**.
- **With Grant for the Promotion of Local Women's Participation and Advancement**, support initiatives for cooperation among regions, **ensuring the initiatives of municipalities are in principle implemented in cooperation with other local governments**.

Efforts to ensure that no one is left behind <Develop basic conditions for digital implementation (3)>

<Main KPIs>

■ **Digital supporter**: **50,000 by FY2027** (starting with over 20,000 in FY2022)

<Key measures>

Development of digital supporter

Appoint individuals who provide thorough support to others who are unfamiliar with digital devices and services as digital promotion staff (over 21,000 people at present)

<Relevant measures>

- Project for the promotion of supporting digital utilization [MIC]
- Project for promoting the spread and development of teleworking [MIC]
- Regional computerization advisor dispatch project [MIC]
- Project for comprehensively promoting ICT support for people with disabilities [MHLW]
- Project for operating information facilities for people with visual and hearing disabilities [MHLW]
- Projects related to the GIGA School Program [MEXT]

- Promotion of cybercrime prevention volunteer activities [NPA]
- Support project for innovation in rural areas [MAFF]
- Project for the development, demonstration, and deployment of smart agriculture technology [MAFF]
- Measures to train advanced engineers in wood production [MAFF]
- Comprehensive support project for management development [MAFF]

➢ Promote initiatives toward **easing anxiety among elderly people and people with disabilities regarding use of digital technology**

- **Further improve the quality and quantity of digital promotion staff** based on results from past workshops offered.
- **Build a system for consultation on any matter** for the region.
- Support initiatives **to set up service locations to offer consultation for people with disabilities to recommend, loan out, and use digital devices**.

Sarabetsu, Hokkaido

Community nurse

*Nurse certification not mandatory as medical procedures are not performed.

Also provides support for digital services as part of activities to create connections in and invigorate the community.

Asahi, Toyama

Digital coordinator

HUNT

ノッカル

Provides support for the operation of new digital services in the region (“my car” regional transport, town revitalization platform, etc.). Scheduled to undergo activities for the spread and use of the My Number Card going forward.

Kaga, Ishikawa

Senior smartphone ambassador

Volunteers support elderly people in using digital devices by offering classes and consultation on any matter regarding smartphones.

Promoting Collaboration between Ministries and Agencies and Regions to Realize Regional Visions

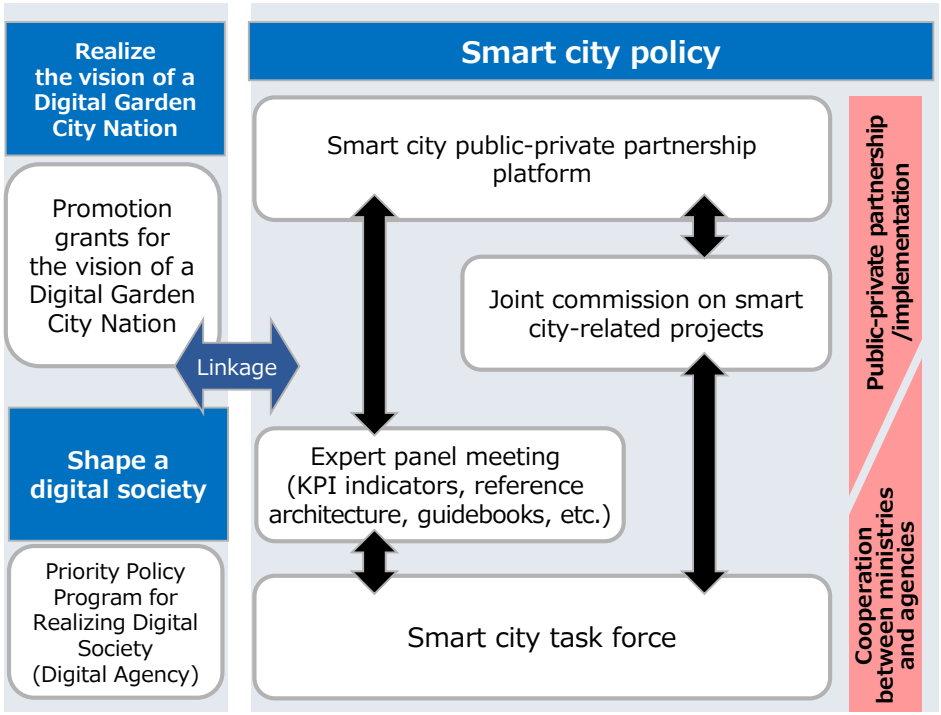
Model Regional Vision

Smart City

- Aim to create leading smart cities in **100 regions by 2025** by **promoting collaboration between ministries and agencies and regions** in related projects.
- For the Smart City TF, **formulate common policies for** government integration and **public-private partnerships**, reflect them in each smart city policy, and work on them in cooperation.

・Utilize the smart city public-private partnership PF and the smart city TF, **examine specific measures and a roadmap to enable smart cities to be used autonomously as a basic policy, and formulate them by the end of FY2023**.

・Intensify the joint commission operation, such as **determining the adoption of each project based on the evaluation conducted from the viewpoint of inter-policy and inter-regional cooperation**.
*In FY2022, 51 regions (54 projects) were selected (including 33 regions for inter-project collaboration and 7 projects for inter-regional collaboration)



No.	Project implementation region	Selected project	Selected in previous years
1	Esashi Town (Hokkaido)	○	
2	Memuro Town (Hokkaido)	●	●
3	Morioka City (Iwate Pref.)	☆	
4	Aizuwakamatsu City (Fukushima Pref.)	■	□○■
5	Namie Town (Fukushima Pref.)	○	○
6	Hitachiota City (Ibaraki Pref.)	☆	
7	Tsukuba City (Ibaraki Pref.)	□■	☆●■
8	Sano City (Tochigi Pref.)	□	□
9	Maebashi City (Gunma Pref.)	●	☆○●■
10	Tsumagoi Village (Gunma Pref.)	□	□
11	Saitama City (Saitama Pref.)	■	☆□○■
12	Iruma City (Saitama Pref.)	○	○
13	Otemachi/Marunouchi/Yurakucho Districts in Chiyoda Ward (Tokyo)	■	●■
14	Takeshiba District in Minato Ward (Tokyo)	■	■
15	Haneda Airport Unused Land Zone 1 in Ota Ward (Tokyo)	■	□■
16	Yokosuka City, Miura City, Zushi City, Hayama City, Kamakura City (Kanagawa Pref.)	●	●
17	Yokosuka City (Kanagawa Pref.), Sapporo City (Hokkaido), Matsuyama City (Ehime Pref.)	●	●
18	Yokosuka City (Kanagawa Pref.)	□	
19	Kamakura City (Kanagawa Pref.)	□	
20	Odawara City (Kanagawa Pref.)	□	
21	Nagano Pref.	□	
22	Shiojiri City (Nagano Pref.)	☆○	○
23	Gifu City (Gifu Pref.)	■	☆■
24	Nagoya City (Aichi Pref.)	○	
25	Okazaki City (Aichi Pref.)	■	■
26	Kasugai City (Aichi Pref.)	■	☆○●■

No.	Project implementation region	Selected project	Selected in previous years
27	Taki Town, Odai Town, Meiwa Town, Watarai Town, Taiki Town, Kihoku Town (Mie Pref.)	○	○■
28	Inabe City (Mie Pref.)	☆	
29	Komono Town (Mie Pref.)	●	●
30	Keihanna Science City of Seika/Nishi-Kizu Districts in Seika/Kizugawa (Kyoto Pref.)	■	□■
31	Osaka Pref.	□	
32	Osaka City (Osaka Pref.)	■	■
33	Kawachinagano City (Osaka Pref.)	☆	☆■
34	Toyono Town (Osaka Pref.)	☆□	□■
35	Takasago City (Hyogo Pref.)	☆	
36	Uda City (Nara Pref.)	☆	
37	Kawanishi Town (Nara Pref.)	○	○
38	Katsuragi Town (Wakayama Pref.)	☆	
39	Susami Town (Wakayama Pref.)	■	■
40	Daisen Town, Hoki Town, Yonago City (partly) (Tottori Pref.)	○	○●
41	Miyoshi City (Hiroshima Pref.)	□	■
42	Yamaguchi City (Yamaguchi Pref.)	□	
43	Matsuyama City, Toon City, Imabari City (Ehime Pref.)	□	
44	Matsuyama City (Ehime Pref.)	■	■
45	Iyo City (Ehime Pref.)	○	○
46	All prefectures of Kyushu	●	●
47	Fukuoka City (Fukuoka Pref.)	□	
48	Arao City (Kumamoto Pref.)	■	■
49	Isen Town (Kagoshima Pref.)	☆	
50	Onna Village (Okinawa Pref.)	○	
51	Chatan Town (Okinawa Pref.)	○	○

Securing jobs centered on ICT office (Aizuwakamatsu City, Fukushima Pref.)

CAO: Project for Implementation of Advanced Technologies in Regional Society	☆
MIC: Smart City Promotion Project for Solving Regional Issues *1	□
METI: Project for Promoting New MaaS Creation in Various Regions	○
MLIT: Project for Promoting and Supporting Japanese MaaS *2	●
MLIT: Smart City Implementation Support Project *3	■

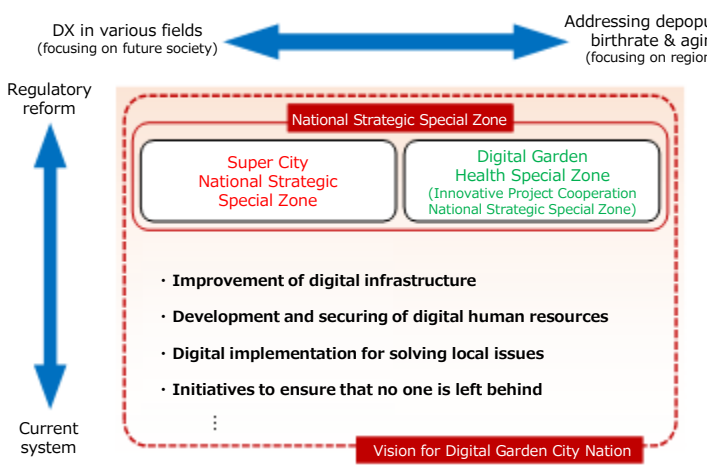
*1 Was referred to as the Data Utilization Type Smart City Promotion Project until FY2020 and Data Linkage-Driven Smart City Promotion Project in FY2021.
*2 Was referred to as the New Mobility Service Promotion Project in FY2019.
*3 Was referred to as the Smart City Model Project in FY2021.

Model Regional Vision

Super City / Digital Garden Health Special Zone

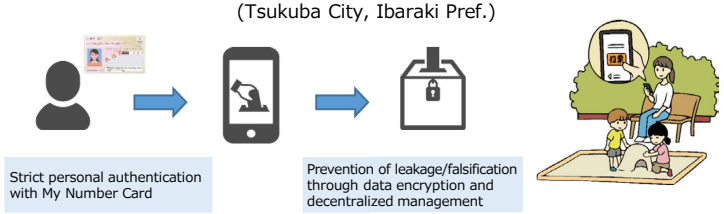
➢ As a leader of the vision for a Digital Garden City Nation, the city **realizes cutting-edge services and data linkage across multiple fields** accompanied by **bold regulatory reforms** under **the cooperation of each region**.

- **Strongly promote the development/construction of cutting-edge services** accompanied by bold regulatory reforms and **research/examine data linkage for implementing cutting-edge services** to aim for **horizontal rollout to other smart cities**.
- Based on the Basic Policy for National Strategic Special Zones, **concentrate investment in projects of relevant ministries and agencies** regarding the **development/construction of cutting-edge services and the development of facilities/infrastructure** to realize super cities.



	Super City National Strategic Special Zone		Digital Garden Health Special Zone (Kaga City, Chino City, Kibichuo Town)
	Tsukuba City	**Osaka Pref./City**	
Overview	・Tsukuba Super "Science" City Vision—Social implementation of cutting-edge technologies such as digital technology and robots ・Aiming to become a resident-centered super city through resident participation ・The target area is the entire Tsukuba City ・Promotion in collaboration with national research institutes, the University of Tsukuba, etc.	・Initiatives in anticipation of the Expo 2025 Osaka ・The topic is "Expanding health and life with data" ・The target areas are two new development areas: Yumeshima (planned Expo site), and Umekita Phase 2 District (north of Osaka Station) ・Aiming to improve residents' QoL and strengthen urban competitiveness ・Promoting collaboration with the Kansai Economic Federation, Osaka Chamber of Commerce and Industry, Expo Association, etc.	・The three municipals work together to focus on solving health and medical issues by utilizing digital technologies. ・Aiming to model local issues, such as depopulation, declining birthrate, an aging population, and the COVID-19 pandemic ・Promoted with strong commitment from medical and digital experts, local medical institutions, etc.
Project vision	**Mobility/logistics field** ・Full-scale introduction of new mobility and robots ・Delivery of packages by robots and drones **Administrative field** ・Internet voting ・Dissemination of information in multiple languages for foreigners **Medical field** ・Provision of health and medical services through data linkage using My Number Card **Disaster prevention/infrastructure/crime prevention** ・Efficient evacuation guidance and medical cooperation at evacuation stations ・Lifespan extension of infrastructure **Digital Twin/urban development** ・Realization of Digital Twin by creating 3D maps ・Creation of urban spaces coexisting with robots **Open hub** ・Support for foreign entrepreneurs ・Lending of university land, facilities, etc.	**Realization of optimal mobile society** ・Social implementation of Japan's first flying car ・Transportation for Expo visitors using automated driving buses (Level 4) ・Cargo-passenger transport for Yumeshima construction work, active use of drones **Realization of healthy & long-lived society** ・Cutting-edge international medical services regardless of nationality or location (examination by foreign doctors, telemedicine by doctors overseas, etc.) ・Provision of health promotion programs using human data and AI **Realization of data-driven society** ・Weather forecast by AI ・Use of BIM and other data in Yumeshima construction work ・"Future Park" by utilizing VR/MR technologies, etc.	**Task shifting in health & medical field** ・Expansion of role of nurses in home care ・Expansion of role of paramedics in emergency medical care **Health & medical information linkage** ・Data linkage beyond municipals for health and medical information ・Unified management of health and medical information by patients and their families (establishing a medical version of a "Personal Data Trust Bank" system) **Preventive care & AI utilization** ・Remote medication guidance using AI and chat functions **Transportation/logistics service** ・Transportation to hospital by volunteer drivers ・Delivery of medicines using taxis or others, etc.

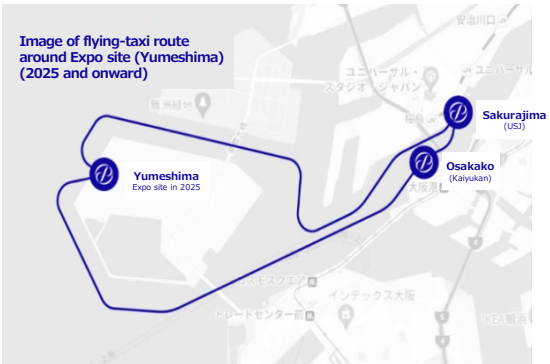
Internet voting for public election
(Tsukuba City, Ibaraki Pref.)



1. Issuance of unique code for those who wish to vote (≈ Sending of voting cards)
2. Log in to the voting screen with the code (≈ Polling station entrance reception)
3. Strict personal authentication with My Number Card (≈ Issuance of ballot papers)
4. Selection of candidates and voting (≈ Write-in and posting)
5. Decentralized management of encrypted voting results separated from voter information (≈ Management under lock and key)
6. Accurate tallying of votes while maintaining confidentiality (≈ Ballot counting/tallying)

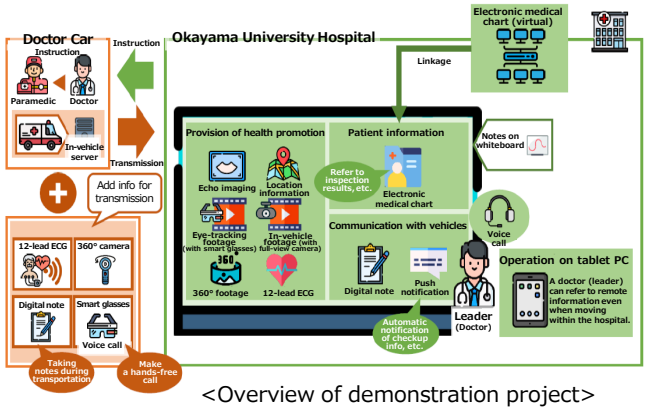
<Procedure for Internet voting>

Social Implementation of "flying cars"
(Osaka City, Osaka Pref.)



<Image of route around Expo site>

Advanced demonstration of emergency lifesaving treatment
(Kibichuo Town, Okayama Pref., etc.)



<Overview of demonstration project>

Model Regional Vision

Digitalization in hilly and mountainous areas

➢ In areas that are working to solve social issues and revitalize local communities while focusing on efforts related to “creating jobs” in the agriculture, forestry and fisheries industries and collaborating with various industrial fields such as education, medical care/welfare, and logistics, and utilizing local resources and digital technologies are **registered as Digitalization in hilly and mountainous areas, and we are aiming at registering more than 150 areas by FY2027**.

Digitalization in hilly and mountainous areas

Agriculture, forestry, and fisheries

➢ Introduction of smart agriculture, forestry, and fisheries to save labor.
➢ Utilization of local resources using ICT, etc.

Utilizing digital technologies + centered on key industries

Medical care and welfare | **Logistics/transportation**

➢ Medical care and welfare using ICT, construction of local information networks, life support, such as shopping support and monitoring for the elderly
➢ Utilization of MaaS, cargo-passenger transport buses, and last one-mile delivery using drones to eliminate traffic gap areas and improve convenience

Support from cooperation team of relevant ministries and agencies
(Introduction of relevant policies and support for addressing regional issues, on-site visits by staff, information provision through seminars, etc.)

Cabinet Secretariat | CAO | MIC | MEXT | MHLW | MAFF | METI | MLIT | MOE

Regional development full of individuality that makes the most of local resources

Rural RMO support system

Prefectures/Municipalities + Intermediate Support Organizations

Responsible for health & welfare | Responsible for regional development | Responsible for social education | Responsible for agriculture, forestry and fisheries

Communicate & develop awareness

Communicate & develop awareness

National government
(cooperation with relevant ministries and agencies)

CAO | MIC | MEXT | MHLW
METI | MLIT | MAFF

Common platform
Aggregate information from business operators and relevant organizations involved in rural RMOs, and create a place to disseminate, share, and exchange information

Study Group | Training | Forum | Website

・**Register areas as “Digitalization in hilly and mountainous areas”** from among areas engaged in related projects of relevant ministries and agencies (Projects targeting small bases, rural RMOs, etc.)

・**Support for Digitalization in hilly and mountainous areas** in cooperation with relevant ministries and agencies

CAO
- Promotion grants for vision for digital garden city nation (Regional revitalization promotion type: Small bases)

MIC
- Projects for supporting formation of community networks in depopulated areas

MAFF
- Support for formulating models of rural operations organization
- Support for models for creating vibrant regions, etc.

Registered as Digitalization in hilly and mountainous areas

CAO
- Promotion grants for vision for digital garden city nation
- Regional revitalization evangelists

MIC
- Regional computerization advisor dispatch system
- Local 10000 Project

MEXT
- Social education policies (community center activities, social educators, etc.)
- Preservation and utilization of national treasures and important cultural properties

MHLW
- Multi-layered support system development project
- Life-support coordinator
- Telemedicine-related policy

MAFF
- Support for innovations from rural areas
- Measures for improving the information communication environment
- Direct payment grants for hilly and mountainous areas

METI
- Projects for introducing businesses that coexist with local communities/ companies and promoting start-up businesses
- Projects for promoting new MaaS creation in various regions

MLIT
- Project for promoting and supporting Japanese MaaS
- Model project for measures against vacant houses
- Delivery of packages using drones

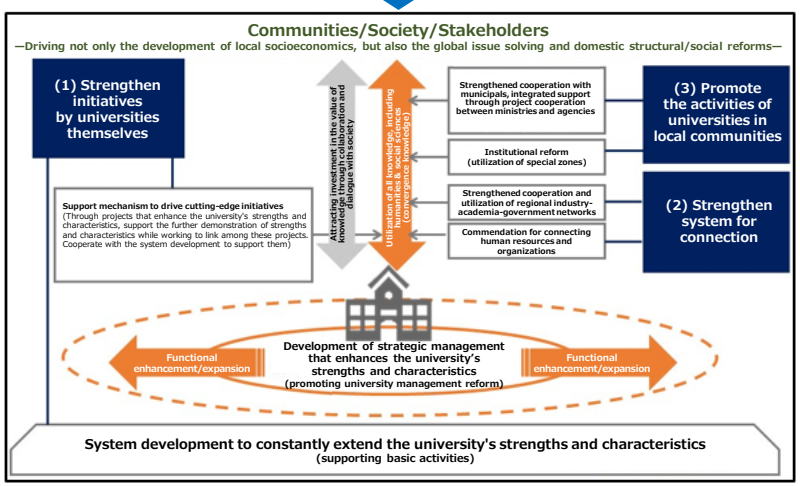
MOE
- Grants for the project of capturing wild animals under designated management

Model Regional Vision

Industry-Academia-Government Collaborative City Centered on Universities

- To promote **industry-academia-government collaboration based on local universities** and encourage the creation of university-originated innovations and social implementation, comprehensive initiatives aimed at **regional revitalization centered on universities** are carried out by **strengthening the inter-policy cooperation** of related ministries and agencies and promoting the effective use of policies.
- **Package for Comprehensive Promotion of Research Universities with a Regional Core and Distinctive Characteristics**, which summarizes related policies of relevant ministries and agencies, will be **revised sequentially**.

[Overview of support provided by Package for Comprehensive Promotion of Research Universities with a Regional Core and Distinctive Characteristics]
- Universities will dramatically strengthen their potential by developing strategic management that expands their strengths and characteristics (universities will change).
- Universities will maximize their expanded potential through collaboration with society and proactively contribute to society to transform society (society will change).



A model case of utilization of Package for Comprehensive Promotion of Research Universities with a Regional Core and Distinctive Characteristics

In the case of a university whose main mission is to contribute to regional revitalization by maximizing the potential of human resource development and research results that make use of strengths and characteristics and driving productivity improvement and job creation in major local industries (such as agriculture, forestry and fisheries, manufacturing, and service industries)

Communities/Society/Stakeholders

—Driving not only the development of local socioeconomics, but also the global issue solving and domestic structural/social reforms—

(1) Strengthen initiatives by universities themselves

Support mechanism to drive cutting-edge initiatives

[Human resource development]
- ✓ Rebuild existing educational programs in cooperation with local communities and develop human resources who can lead the region ⇒ Human resource development project for regional revitalization [MEXT]

[Strengthening research infrastructure]
- ✓ Build a system that can strategically collect and utilize high-quality data in areas with strengths ⇒ Advanced research infrastructure for materials and nanotechnology [MEXT]

[Social Implementation]
- ✓ Utilizing the university's potential promote R&D and social implementation by industry-academia-local government co-creation toward realization of a desirable society⇒ Open Innovation Platform for Industry-Academia Co-creation [MEXT]
- ✓ Under the mayor's leadership, work on systematic university reform to play an active role in regional revitalization centered on the creation of industry and youth employment ⇒ Local university/regional industry creation grant project [CAO]
- ✓ Build a network with companies in cooperation with multiple universities ⇒ Next university-society open innovation initiative [METI]

Attracting investment in the value of knowledge through collaboration and dialogue with society

Utilization of all knowledge, including humanities & social sciences (convergence knowledge)

(3) Promote the activities of universities in local communities

Strengthened cooperation with municipals, integrated support through project cooperation between ministries and agencies
- ✓ In order to meet the needs of municipals and government agencies responsible for social implementation, and to proactively solve local issues, strengthen the system within the university ⇒ Project for Enhancing the Environment to Create Innovation in Regional Core Universities [CAO]
- ✓ Utilize advanced agricultural technology that contributes to smart technology for technological development and improvement at production sites ⇒ Development and Improvement program of the strategic smart agricultural technology [MAFF]
- ✓ Under industry-academia-government collaboration, contribute to the establishment of community-based project with a large employment capacity ⇒ Local 10000 Project [MIC]

Institutional reform (utilization of special zones)
- ✓ Quickly promote social implementation of R&D results by private companies by utilizing land owned by university ⇒ Apply for special zone of structural reform

Strengthened cooperation and utilization of regional industry-academia-government networks

Commendation for connecting human resources & organizations

(2) Strengthen system for connection

Functional enhancement/expansion

Development of strategic management that enhances the university's strengths and characteristics (promoting university management reform)

Functional enhancement/expansion

System development to constantly extend the university's strengths and characteristics (supporting basic activities)
⇒ Fundamental expenses that underpin the realization of missions and boost acceleration

Model Regional Vision

SDGs Future City

➢ With the aim of **selecting 210 cities by FY2024**, continue to work on SDGs for regional revitalization toward 2030 while promoting initiatives for inter-policy and inter-regional cooperation.

* At present, 154 cities (155 municipals) have been selected.

・In particular, **financial support is provided to leading initiatives**, as well as initiatives aimed at regional revitalization in line with *SDG's* philosophy are **selected as "municipal SDGs model projects,"**, and successful model cases are disseminated and developed.

SDGs Future City

Intent of selection

Of cities and regions that are trying to promote basic and comprehensive initiatives in line with the SDGs philosophy, select **cities and regions with high potential for achieving sustainable development through the synergistic effects of integrated initiatives in the three aspects of the economy, society, and environment as well as the creation of new values.**

Since FY2021, **initiatives on decarbonization** have been added as **additional point factors for selection.**

It is possible to add one project **beyond the maximum number of application projects in the promotion grant for digital garden city nation.**

Municipal SDGs model projects (10 projects)

Of the cities selected as SDGs future cities, particularly leading projects that are expected to form an autonomous favorable circle in the region through cooperation with various stakeholders

FY2022 — Subsidiary

Subsidy: 250 mil yen in total (up to 25 mil yen/city × 10 projects)

Subsidy category	Expense to be covered	Subsidy amount/rate
Expense for overall management, awareness raising	Plan development, construction of project implementation systems, awareness-raising activities, etc.	15 mil yen (flat rate)
Expense for project implementation	Outsourcing costs (for construction contract, system development), consignment fees, etc.	10 mil yen (subsidy rate: 50%)

Cross-ministerial support by **municipal SDGs promotion-related ministries task force** (plan development, project implementation, etc.)

Continuous advice and support by municipal SDGs Promotion Evaluation/Investigation Committee (Chairperson: Shuzo Murakami, President of Institute for Built Environment and Carbon Neutral for SDGs (IBECs), Emeritus Professor of University of Tokyo)

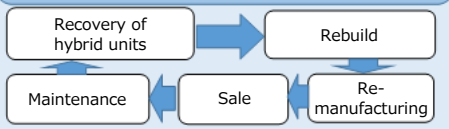
Dissemination & deployment of successful cases

Building a sustainable local society centered on community (Ishinomaki City, Miyagi Pref.)

Utilization of Green Slow Mobility

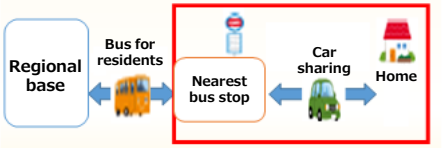
Green Slow Mobility with 100% natural energy from electric vehicles manufactured in the hybrid reuse project is utilized for car sharing.

Development of hybrid reuse project



Green Slow Mobility is manufactured by reusing hybrid vehicle units at the city's automobile factory, leading to job creation as a new industry.

Operation of regional car sharing



・**The utilization of Green Slow Mobility encourages more opportunities for the elderly to go out and revitalize the community.**

・**The introduction of communication robots realizes easy access for the elderly to MaaS and car allocation, bridging the digital divide.**

・Promote *SDGs*-driven sustainable regional development by **intensively supporting *SDGs* inter-regional cooperation beyond the boundaries of local governments**

Wide-area cooperative SDGs model project

Wide-area cooperation by multiple local governments

Improved feasibility through economies of scale and mutual complementarity

[SDGs philosophy] Integrated initiatives in three aspects of economy, society & environment

Aiming for regional revitalization by working on regional **digitalization, decarbonization**, etc.

(Requirements)
・Cooperation must **include at least one local public community with a population of less than 50,000**
・Cooperation with remote local governments is also possible
・Cooperation with 3 or more organizations is desirable
・Projects that tackle regional **digitization**
・Projects that tackle regional **decarbonization**

Subsidiary

Subsidy: 100 mil yen in total

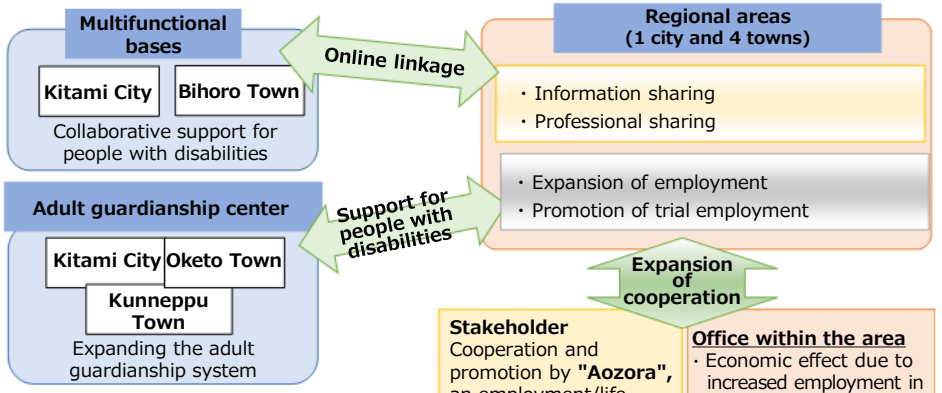
	Type of proponent	Expenses to be covered	# of selected projects	Subsidy amount/rate
A	Cooperative project by **multiple municipalities**	Plan development, construction of project implementation systems, awareness-raising activities, outsourcing costs (for construction contract, system development), consignment fees, etc.	Approx. 2	20 mil yen (subsidy rate: 66%)
B	Cooperative project by **prefectures/multiple municipalities**		Approx. 2	30 mil yen (subsidy rate: 50%)

Continuous advice and support by municipal SDGs Promotion Evaluation/Investigation Committee (Chairperson: Shuzo Murakami, President of Institute for Built Environment and Carbon Neutral for SDGs (IBECs), Emeritus Professor of University of Tokyo)

Dissemination & deployment of successful cases

Wide-area support for employment of people with disabilities through agricultural-subsidiary cooperation

(Kitami City, Bihoro Town, Tsubetsu Town, Kunneppu Town, Oketo Town, Hokkaido)



Stakeholder
Cooperation and promotion by **"Aozora"**, an employment/life-support center for people with disabilities

Office within the area
・Economic effect due to increased employment in **the agricultural sector**

Model Regional Vision

Decarbonization Leading Areas (DLAs)

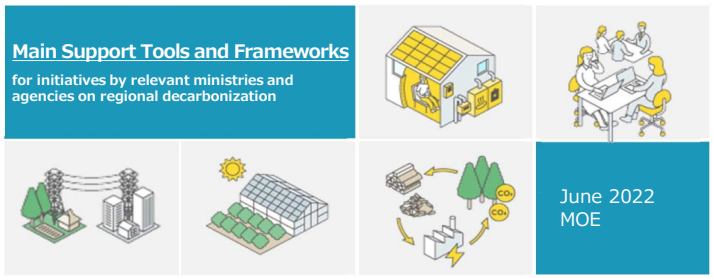
➢ **Select at least 100 DLAs by FY2025 and complete the achievement by FY2030** by expanding supports in cooperation with relevant ministries and agencies for DLAs, which are models for simultaneously realizing regional revitalization and decarbonization in various areas such as farming villages, fishing villages, mountain villages, remote islands, and urban areas. *As of December 2022, 46 areas from 66 municipalities in 29 prefectures were selected

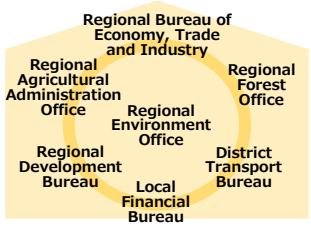
About Decarbonization Leading Areas

Areas that aim to achieve net-zero CO2 emissions from electricity consumption in the consumer sector (households, business, and other sectors) and achieve reductions in other GHG emissions, such as from transportation sector and heat use, according to regional characteristics.

Electricity demand of the consumer sector	=	Electricity from renewable energy, etc.	+	Amount of electricity reduction due to energy saving

・Further expand the "Main Support Tools and Frameworks for Initiatives by Relevant Ministries and Agencies on Regional Decarbonization," which summarizes projects that can receive preferential treatment in DLAs.
・Build a system to actively support by human resources, technology, information, and funds through **horizontal cooperation among local branches of the national government.**



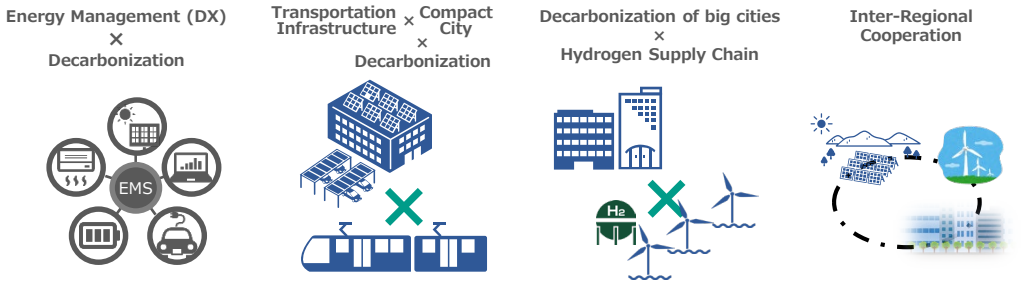


Local branch offices of the national government eliminate vertical divisions and cooperate horizontally.

- Support **by combining cooperation frameworks and support tools**
- Secure **consultation services centered on local environment offices**

・In future solicitations, set the **"inter-policy cooperation model" and "inter-regional cooperation model"** to **further strengthen inter-policy and inter-regional collaboration** for regional decarbonization.

Examples of the Inter-Policy Cooperation Model and Inter-Regional Cooperation Model



Example of Inter-Policy Cooperation

Transportation Infrastructure × Compact City × Decarbonization
(Utsunomiya City & Haga Town, Tochigi Pref.)

- Realize a zero-carbon mobility system with support from the MLIT, centering on **LRTs and EV buses that run on 100% renewable energy** through the introduction of solar power generation and large-scale storage batteries.
- Achieve **decarbonization in central urban areas** by controlling storage batteries on the demand side and utilizing EV buses as regulating power sources to build **an advanced EMS.**

Japan's first new Light Rail Transit (LRT)
(scheduled to open in August 2023)

Example of Inter-Regional Cooperation

Inter-Regional Cooperation based on Renewable Energy Supply & Demand
(Yokohama City, Kanagawa Pref.)

- Decarbonize commercial facilities in the Minato Mirai 21 area, which has high energy demand, by introducing solar power generation systems in cooperation with municipal housing, **procuring renewable energy electricity from 13 municipalities in Tohoku area**, and implementing large-scale demand response (demand adjustment) and **improve competitiveness among cities in the world.**

City coastal area including Minato Mirai 21

Key Policy Areas

Redesigning Local Transportation

- Relevant government ministries and agencies cooperate to "re-design" the regional transportation systems through **"co-creation"** with a wide range of stakeholders in the fields of energy, medical care/nursing care, education, and others, and **implement effective support different from the traditional approach**. (Also described in Policy Direction on *page 11*)

<Co-creation involved with other fields>

[Energy, etc. × Transportation] **Efforts in Mitoyo City, Kagawa Pref.**

- **Operate** local on-demand transportation **in cooperation with regional companies.**
- Aim to build a sustainable system through **a monthly subscription plan** that combines local living services and transportation services.

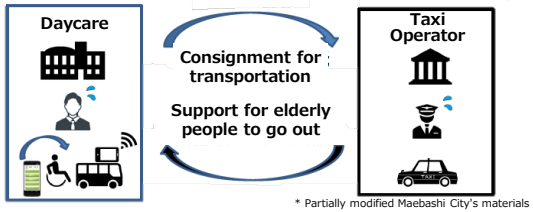
Energy Operators

Regional Companies
- Food & beverage companies
- Tourism-related companies
- Retail companies, etc.

Local Buses/ Taxi Operators

Mitoyo Mobi Operation Company (SPC)

[Care/Welfare × Transportation] **Efforts in Maebashi City, Gunma Pref.**



* Partially modified Maebashi City's materials

- The daycare office **outsources transportation services to taxi operators** to secure nursing care personnel and enhance nursing care services.
- Taxi operators secure quantitative operations and strengthen their management foundations.

[Education × Transportation] **Efforts in Asahi Town, Toyama Pref.**

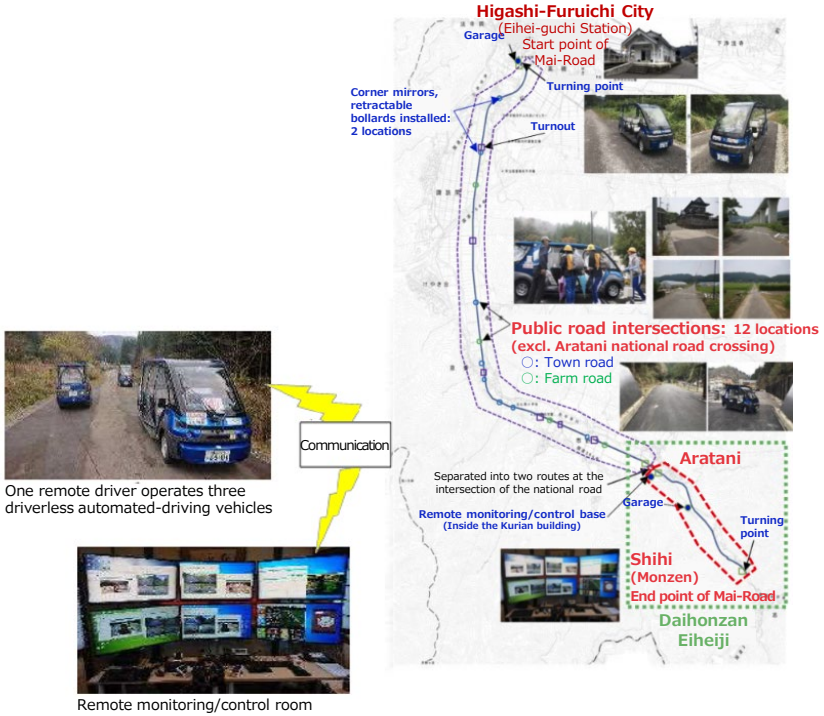
- Introduce the "Nokkaru Asahi-machi" service as a means of transportation for residents to help each other by private paid passenger transportation in cooperation with business operators.
- From now, build a matching platform using LINE and implement **a transportation service for parents to help each other in the swimming class**. Aim to expand the scope of enrichment lessons in the future.

Source: Materials from Hakuhodo Inc.

- Rebuild a highly sustainable and convenient local public transportation network by **utilizing digital technologies such as MaaS**. (Also described in Policy Direction on *page 11*)

Wide Area MaaS in Kyushu Region (introduction of a single application PF and framework) (all of Kyushu region)

- Relevant ministries and agencies work together to **realize region-limited fully autonomous transportation services in about 50 locations by FY2025 and more than 100 locations by FY2027** and to take every possible measure so that the services can be introduced.



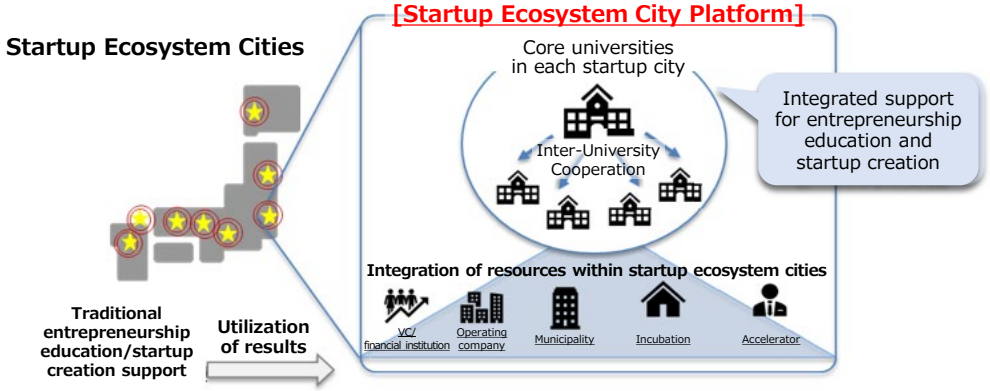
Japan's first Level-3 driverless automated-driving transport services (Eiheiji Town, Fukui Pref.)

Key Policy Areas

Startup for Regional Revitalization

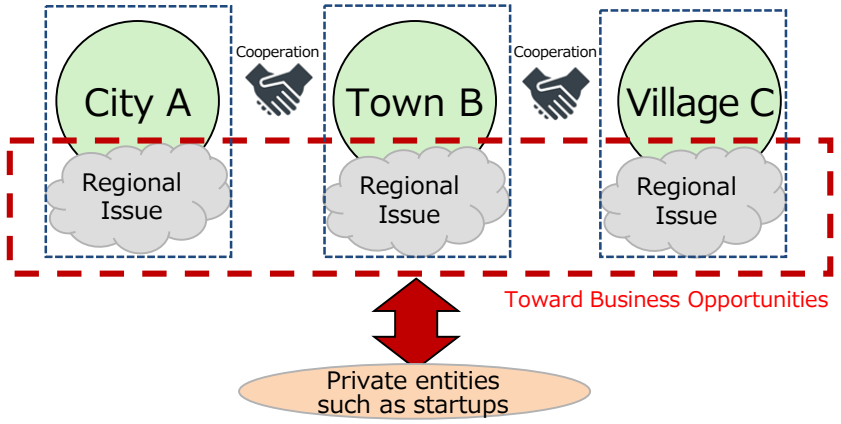
➢ **With a focus on the startup ecosystem cities, form a startup ecosystem** and **nurture startups that could be active worldwide**

- Support of efforts that make use of local characteristics **in cooperation with the surrounding areas of startup ecosystem cities.**
- Establishment of startup support systems at universities and **strengthening of startup creation foundations** through entrepreneurship education at universities, high schools, etc.



➢ Support **efforts** by startups and others to **cooperate with multiple regions and aim to solve common social issues while ensuring profitability**.
In addition, promote **matching between regions with issues and startups that have the technology and know-how necessary to solve them**.

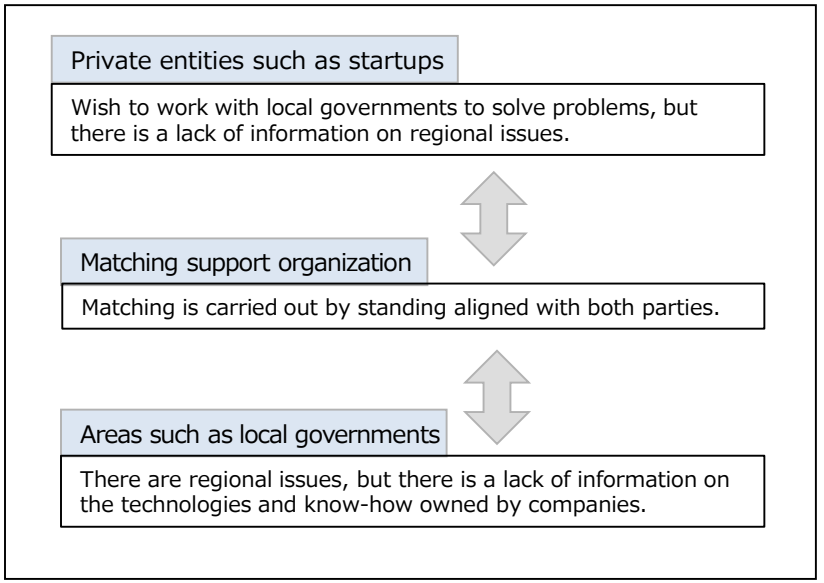
Even if the issues (needs) of an individual region remain small and the business is not sustainable...



The power of digital can integrate issues (needs) common to the region and make them into a larger project that can be solved on a broad scale.

Create and disseminate new sustainable business models by promoting cooperation between private entities such as startups with technology and know-how and local communities.

Cooperation system for solving regional issues (image)



Key Policy Areas

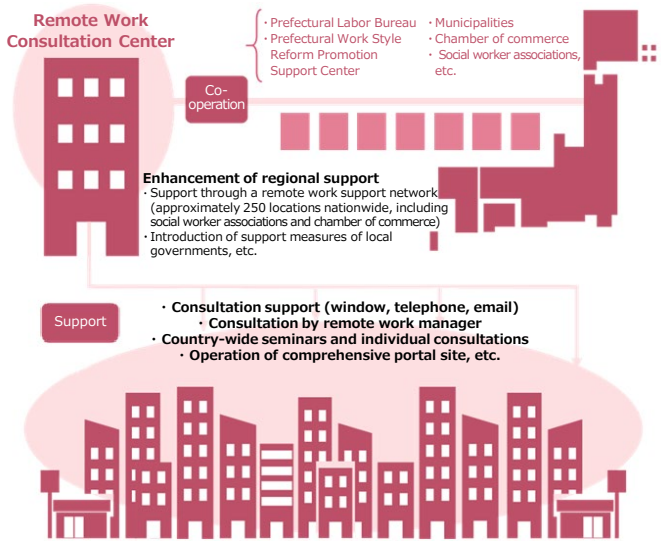
Remote Work for Regional Revitalization

- Provide various support for **remote work environments**, such as digital tools, to continue and promote the introduction of remote work for regional revitalization by companies and organizations.
- For companies and local communities, implement **information dispatch and consultation services related to remote work for regional revitalization**, including workcation, **in cooperation with relevant government ministries and agencies**, receiving collaboration from private companies and organizations. (Also described in Policy Direction on *page 6*)

Portal site of remote work for regional revitalization

Logo for remote work month

- Based on the operational status of remote work-related measures, **promote further cooperation among related government ministries and agencies**, correct regional disparities and business scale disparities, and work to establish remote work and improve the quality.



Implementation of remote work under proper labor management using ICT

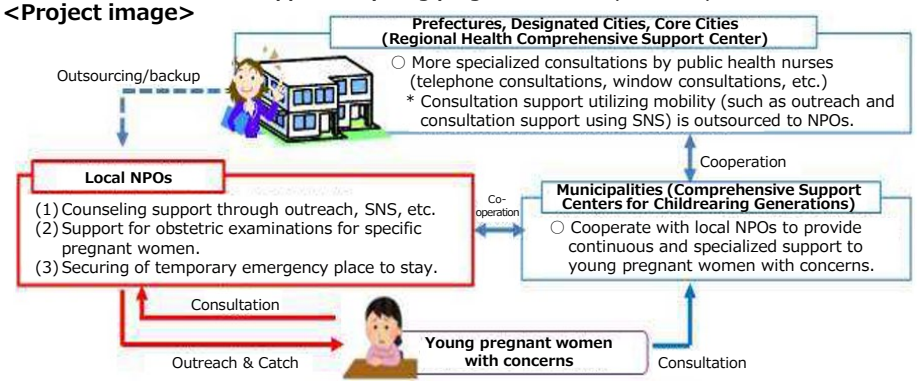
Policies related to Families with Children Through cooperation between Local Governments

- In addition to encouraging cross-sectoral cooperation among relevant parties in the region, **provide intensive support for child policy initiatives implemented over a wide area** beyond the boundaries of municipalities.

・**Provide support when municipalities** promote the digitalization and online implementation of maternal and child health care services and when prefectures **give wide-area support to the development of a cooperation system among related parties**, such as establishing a council.

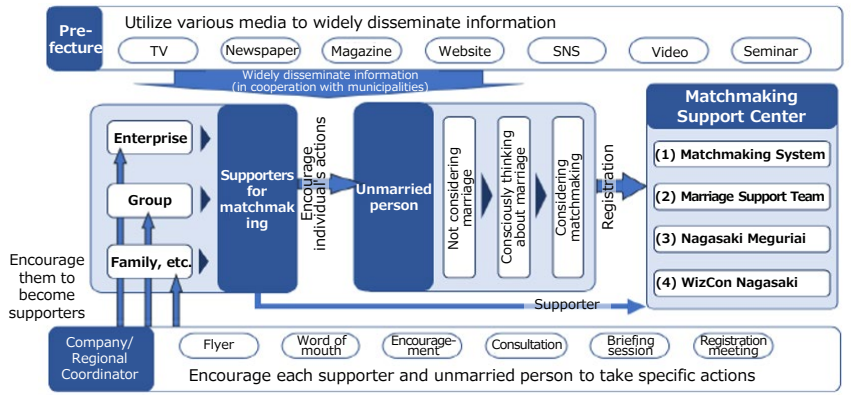
Support for young pregnant women (Gifu Pref.)

<Project image>



・Regarding grants for priority promotion of measures for declining birth-rate in the regions, **provide intensive support when multiple local governments cooperate in implementing measures**.

Support for efforts regarding marriage/child-rearing involving cooperation between local governments (Nagasaki Pref.)



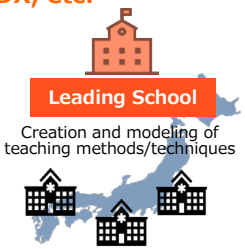
Strengthening cooperation between prefectures and municipalities, such as joint operation of inter-company exchange systems and joint holding of seminars, etc.

Key Policy Areas

DX in Education

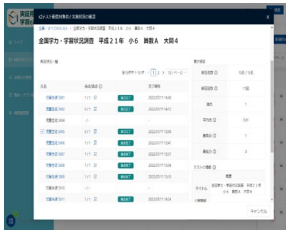
➢ **Relevant ministries and agencies work together to provide intensive support** for local governments working to revitalize the region by focusing on education and **developing attractive education through DX, etc.**

・In order to further develop digital infrastructure based on the GIGA school concept, promote education DX through the **creation and horizontal rollout of effective practical examples using one device per person** by the leading DX school project as well as **functional enhancement of the GIGA school management support center.**



・Local governments actively engaged in creative education, including the examples below, will be provided with:
  ・Intensive support through **the dispatch of school DX strategy advisors, introduction support for inquiry learning services using ICT, programming learning services, etc.**
  ・At that time, support with **horizontal rollout by creating and disseminating a compilation of good practices about education DX**, and with **the utilization of subsidies for the vision for digital garden city nation.**

(Examples)
- Development of regionally unique revitalization learning content based on industrial characteristics, tourism resources, etc.
- Implementation of inter-school exchange and educational activities online within the region and/or among cities and regions.
- Introduction of satellite offices of companies in urban regions, and implementation of STEAM education in which “those who have migrated without changing jobs” and visitors can also participate in.
- Development of a unified communication system for parents in cooperation with kindergartens, nursery schools, and certified centers for children.



・**Enrich and actively disseminate educational information** on **migration-related websites**

はじめての移住応援サイト
いいかも地方暮らし
Website for supporting migration to rural area

Remote Medical Care Utilizing Places Close to Residents

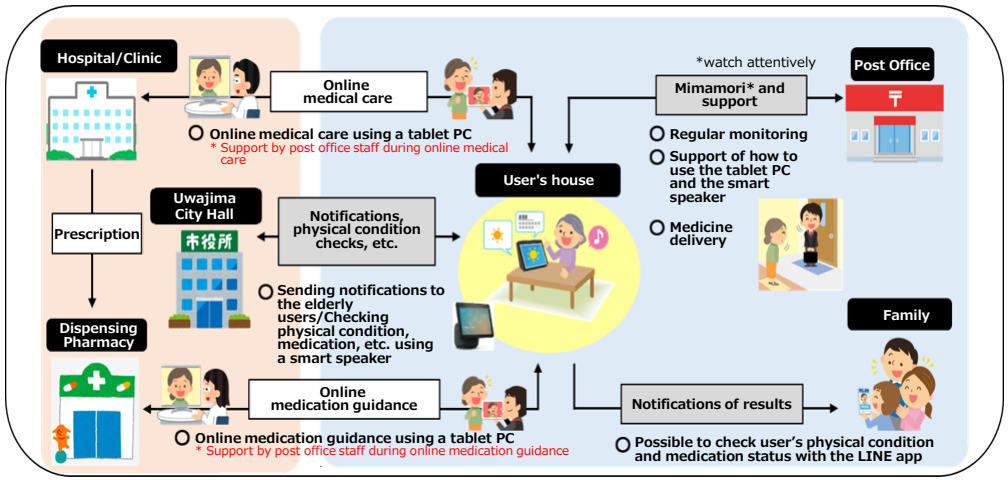
➢ **Conclude by organizing and examining issues regarding places and conditions under which online medical cares are possible.**

➢ As a MaaS initiative in cooperation with medical care, **popularize it by organizing issues and cases when conducting online medical care using automobiles**.

Enhancement of medical care with medical care × MaaS (Ina City, Nagano Pref.)

➢ In addition to **the horizontal rollout of support for online medical care and online medication guidance in cooperation with post offices, consider the possibility of using spaces of post offices as a base for online medical care.**

Support for online medical care and online medication guidance in cooperation with post offices (Uwajima City, Ehime Pref.)



Created based on data from Japan Post Co., Ltd.

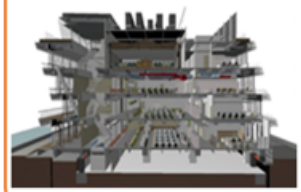
Key Policy Areas

Creating a Compact Communiy Centered around the people to Support Diverse Lifestyles

— Advancement of Urban Development by Promoting Cross-Sectoral Utilizing DX in Architecture and Cities —

➢ **The architectural and urban DX**, which integrates digital measures related to architecture, urban development, and real estate, such as **Building Information Modeling(BIM), 3D City Models (PLATEAU) and Real Estate IDs, and a seamless and high-definition Digital Twin reproduced from inside buildings to city scale level by cooperation with geospatial information such as Spatial IDs are realized**. Based on this, **promote the accumulation and cooperation of various public and private data, such as urban planning and hazard information, and aim to create new services in various fields, such as speeding up urban development and disaster prevention**. In addition, **in order to improve the skills of DX leaders, such efforts are linked to initiatives for urban revitalization**.

BIM
3D digitization of individual building information



PLATEAU
3D digitization of spatial information for the entire city

Real Estate ID
Key to various public-private data linkage

Real Estate ID

Example: Room #203 in a rental apartment with real estate #1234567890123

1234567890123-0203

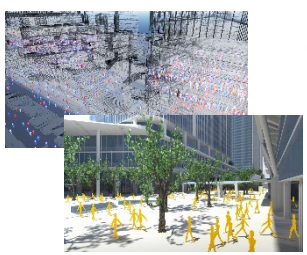
13-digit Real Estate # 4-digit Room #

Integration/Acceleration

Realized a high-definition Digital Twin seamlessly reproduced from inside a building to city scale

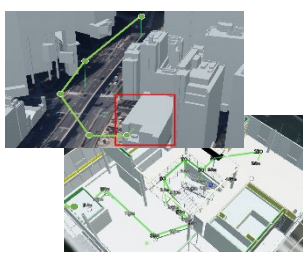
Speed-up of urban development

Creation of new services/industries and advancement of policies through open innovation (DX)



(Example) Advanced disaster-prevention measures through evacuation simulation that seamlessly connects between indoors and outdoors.

- Disaster/ crime prevention
- Mobility robotics
- Insurance
- Urban development /town planning
- Infrastructure
- Environment /energy
- Regional revitalization /tourism
- Administration



(Example) Advanced logistics services such as delivery inside and outside buildings.

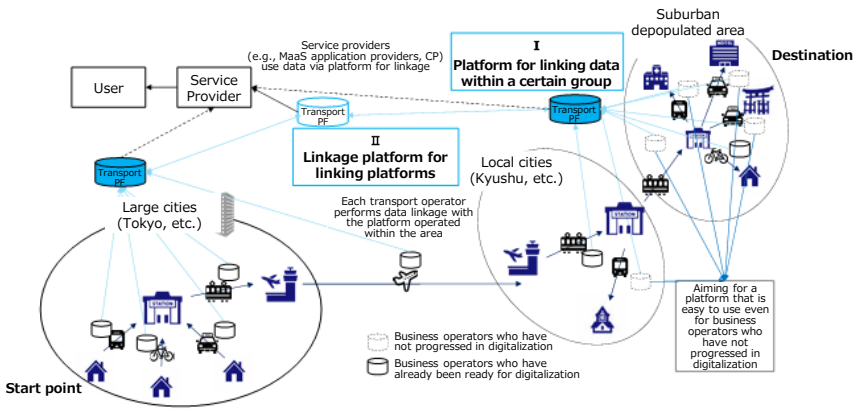
DX in Tourism

➢ Taking advantage of the Expo 2025 Osaka and other opportunities to attract more tourists all over Japan, **work with relevant ministries and agencies to promote the development of an environment for welcoming tourists in the region.**

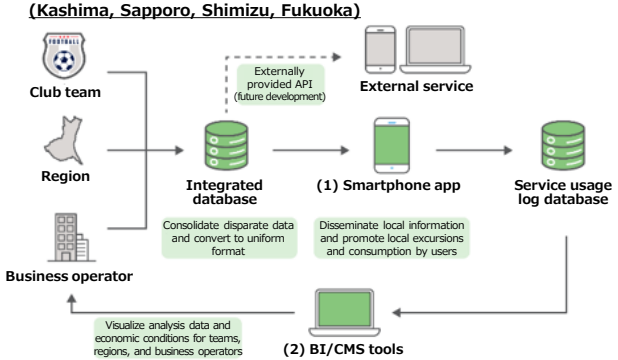
➢ **Promote cooperation among neighboring regions and regions with similar tourism resources to create travel opportunities through mutual referrals that encourage visitors to tour broader areas and stay longer.**

・ **Conduct model demonstrations** to create best practices for cross-regional cooperation and utilization of data on traveler movements and purchases and work on **the horizontal rollout of results**.

<Image of data linkage platform demonstration project>



<Regional economic revitalization project utilizing club team visitors>
(Kashima, Sapporo, Shimizu, Fukuoka)



Key Policy Areas

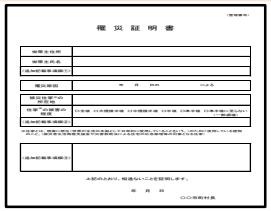
Improvement of Regional Disaster Prevention Capabilities Using Digital Technology

➢ Implement effective and efficient disaster prevention measures

- **Promote initiatives,** such as collecting and providing information to residents using digital technology essential for **disaster prevention DX**, and **efforts in inter-regional cooperation, such as wide-area evacuation, initiatives for cross-sectoral data utilization, and provision of information to the national system**.

➢ Promote the digitalization of operations

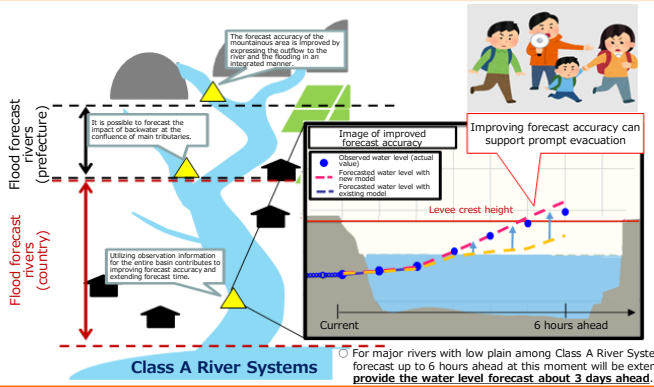
- **Digitalization of preparation/update of list of people who need support for evacuation** requiring cross-sectoral cooperation, **procedures related to information management for shelters and evacuees, and procedures related to support for victims, such as preparing a ledger for disaster victims and issuing a disaster certificate**.



<Victim's Certificate>

➢ Further promotion of "basin flood control" in cooperation with relevant ministries and agencies

- Utilize the digital technology such as **flood forecasting and flood risk map preparation** for integration of main and tributary rivers and **develop the three-dimensional river pipe maps** for nationally managed rivers.

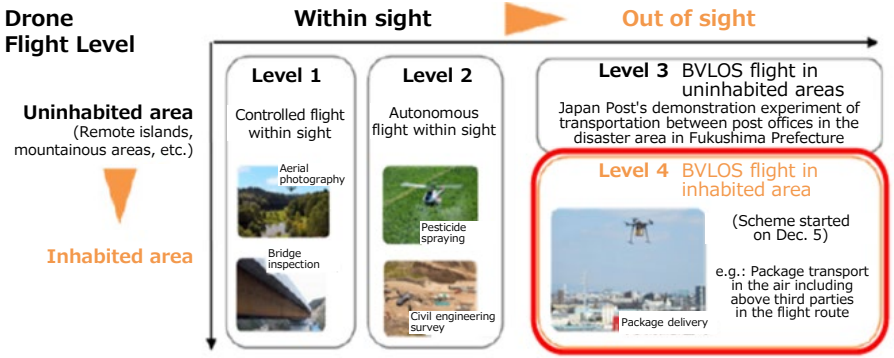


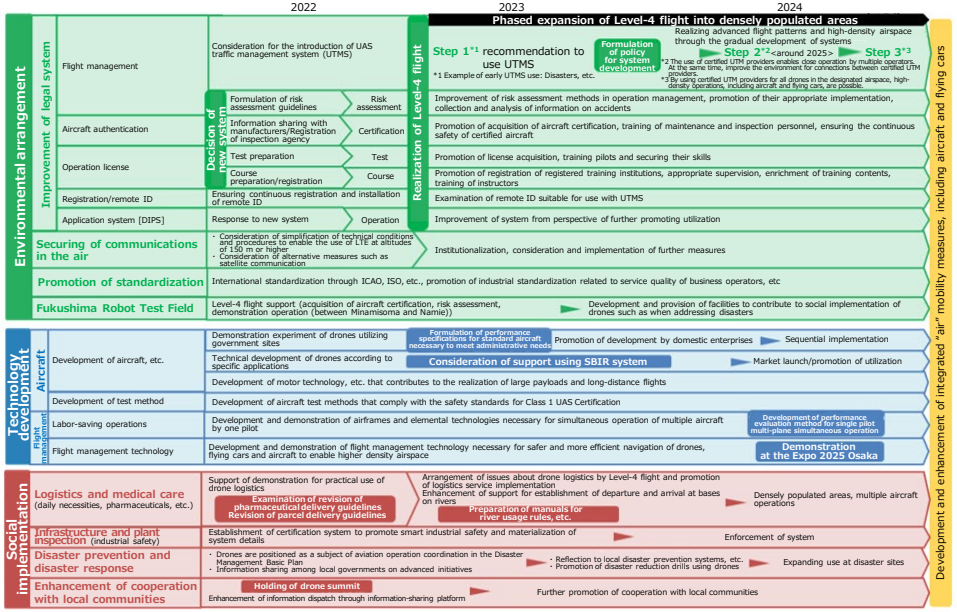
○ For major rivers with low plain among Class A River Systems, the current water level forecast up to 6 hours ahead at this moment will be extended, and efforts will be made to **provide the water level forecast about 3 days ahead**.

Drone Utilization

➢ Promote drone utilization through cooperation with relevant ministries and agencies based on the 2022 Roadmap for the Aerial Industrial Revolution to realize Level-4 flight and, beyond that, a future in which drones will more effectively contribute to society.

- **Establishment of scheme and technologies for flight management systems** to enable more advanced operations.
- **Enhancement of technology development** to improve drone performance.
- **Social implementation according to specific uses** such as logistics and disaster response.





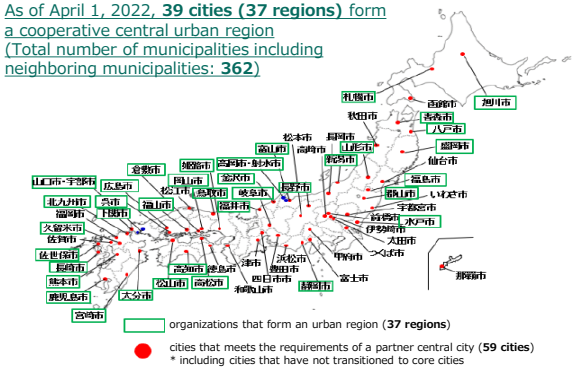
Initiatives for Cross-Sectoral Collaboration between Regions

Deepening of Digital Initiatives

➢ In the cooperative central urban regions and self-support settlement regions, **deepen the content of the initiatives** for further development of the regions by **enhancing initiatives utilizing digital technology**.

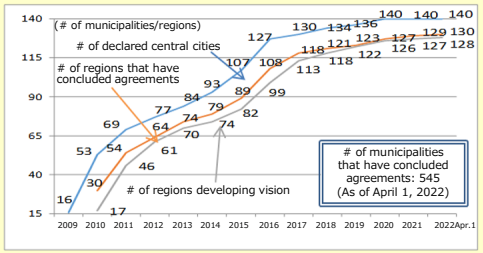
- **Revise the "Guidelines for Promotion of the Cooperative Central Urban Region Concept" and "Guidelines for the Promotion of the Self-Support Settlement Region Concept" to promote initiatives utilizing digital technology in the regions**.
- **Prepare and disseminate a compilation of case studies related to existing areas**, including good practices that contribute to the realization of vision for a Digital Garden City Nation.
- **Promote efforts to use My Number Card in a wide area and initiatives to secure digital human resources**.

As of April 1, 2022, **39 cities (37 regions)** form a cooperative central urban region (Total number of municipalities including neighboring municipalities: **362**)



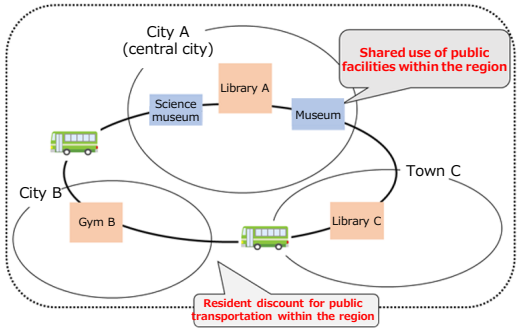
Initiative Status for Self-Support Settlement Region Concept

KPI: 140 regions in 2024 (130 regions as of April 1, 2022)



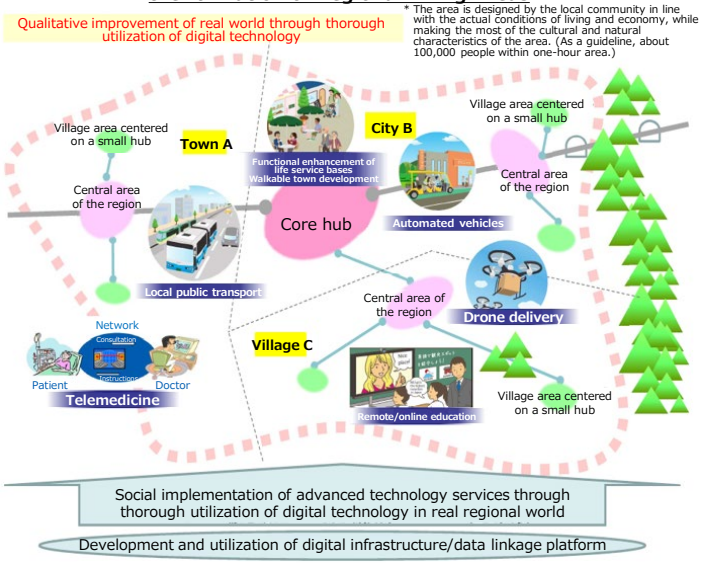
* Figures for 2021 and earlier are as of April 1 of each year.

[Image of wide-area use of cards within the region]



➢ Based on considerations in the new National Spatial Strategy (National Plan), **promote the formation of Regional Living Areas, which could lead to initiatives for inter-regional cooperation** by having local parties make their designs using digital technology.

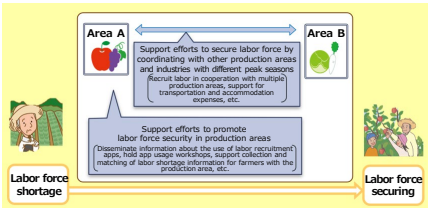
Image example of specific initiative contributing to the formation of Regional Living Areas



Intensive support

➢ To promote projects that can serve as pioneering models for inter-regional cooperation and to promote the horizontal rollout of good practices, **evaluate and support initiatives for inter-regional cooperation when adopting projects and/or selecting regions** in the country.

- In adopting **the subsidy for the vision for digital garden city nation**, **preferential treatment** is given to **inter-regional cooperation projects that meet certain requirements.**
- **The construction of a system is supported for securing labor force and accommodating multiple production areas** with different peak seasons in agriculture **in cooperation**.



➢ **Consider intensive support for local governments that promote inter-policy cooperation** to realize their regional visions.

Horizontal Rollout of Best Practices

➢ **Collect good practices of inter-regional cooperation** and **widely disseminate and share them through menu books, etc.**