[SENDAI Portal Expansion Project]

Implementation area	Sendai City, Miyagi Prefecture (Miyagi Prefecture)
Implementation entity	Sendai City, Miyagi Prefecture (Miyagi Prefecture)
Project Overview	Sendai City is facing a major problem of population outflow to the Tokyo Metropolitan Area, and there is an urgent need to make the city more attractive to live in. In addition, a certain size of the population is replaced due to the unique identity of the city as a "Branch Office Economy" or an "Academic City", leading to an increasingly diverse population, which makes it necessary to improve the convenience of daily life in a way that addresses the diverse needs of the population. Sendai City has just implemented a service that utilizes non-personal data (human flow) through the data collaboration platform introduced by a FY2021 Ministry of Internal Affairs and Communications project. In the future, to further enhance the city's appeal, it is essential to develop a data collaboration platform that even supports personal data, aiming to develop information dissemination services tailored to individual lifestyles. In this context, the existing data collaboration platform will be extended, and the functions of the "SENDAI Portal", a portal for citizens and visitors that has already been built, will be enhanced to make the portal personalized. Citizens and visitors can view information on the SENDAI Portal based on attributes, needs, etc. In the future, Sendai City will examine the joint use of its data collaboration platform if there are requests for using the platform from municipalities within the prefecture.

Details of initiatives

* SENDAI portal screen image

(1) Improvement of SENDAI Portal My Page

(1)-1 Improvement of My Procedures service

A service that notifies and displays information on online procedures optimized for users on the Portal's My Page, based on the opt-in information of the users. For example, the service notifies and displays applications concerning waiting lists for use of childcare facilities, etc., to users seeking information on childcare.

(1)-2 Building of electronic mailboxes

A service in which documents previously sent through post by the government will be sent electronically, notified and displayed to users from whom consent has been obtained for using their personal information.

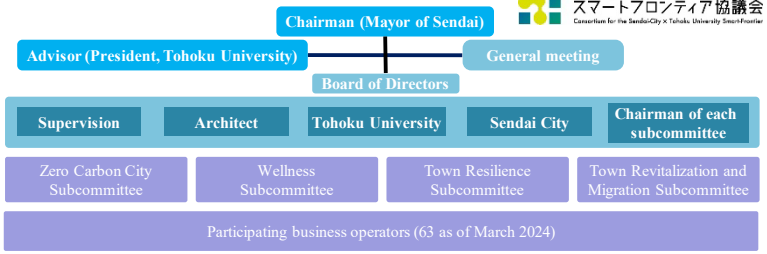
(1)-3 Expansion of My Calendar functions (My Calendar has already been implemented)

This service notifies and displays information optimized for the region, interests, etc., registered by the user on the My Calendar of the portal. For example, by linking residential areas with waste collection areas, this service will notify and display waste collection days optimized for the user on the calendar.

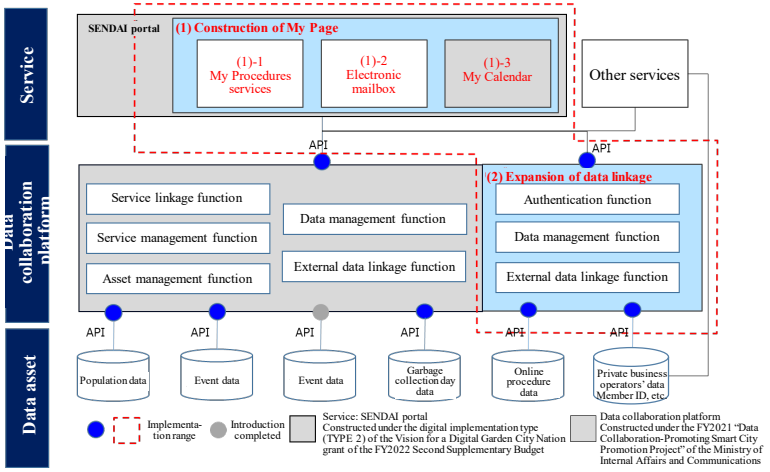
(2) Expansion of data collaboration platform

A data collaboration platform (non-personal) was built in Sendai City in FY2021, and now the existing data collaboration platform will be extended to enable support for personal data to provide individually optimized services ((1)-1 ~ 3). In addition, by logging in to the Portal's My Page using a common ID that utilizes the My Number Card, SSO (Single Sign-On) to multiple external services will be enabled.

Implementation structure chart



System configuration chart



[Establishment of a Joint-Use Model of City OS and Services with Local Governments]

Implementation area	Kanagawa Prefecture, Wakabadai Danchi, Asahi-ku, Yokohama City and Kasama City, Ibaraki Prefecture
Implementation entity	Compact Smart City Platform Council (CSPFC)
Project Overview	➢ Kanagawa, where the population is aging at a rate that is one of the fastest in the country, is ushering in a super-aging society. The prefecture is ranked 47th in Japan regarding the number of hospital beds. The population has begun to peak out from October 2021, and further population aging is expected. The aging population has resulted in a lack of local leadership and an increase in social security expenses, and prefectural medical expenses are expected to increase at a faster rate than in other prefectures in the future. In addition, as stated in the administrative policy of February 28, 2023, the number of births has dropped below 400 in Kasama City due to the declining population, and the account budget will increase by 6.3% compared to the previous year. ➢ To solve these problems, Kanagawa Prefecture has planned the "New Kanagawa Grand Design" and is using digital technology. As part of this design, the project will create an environment that will enable the provision of various services and information to prefectural citizens using a regional portal app and develop functions such as remote medical consultation service, local community services, and disaster prevention service, to realize a friendly society where everyone can live with peace of mind. Kasama City is taking measures to improve the services through online appointments and consultations through its priority project, "Health, Medical Care, and Welfare Environment", and measures to improve the childcare environment through public-private collaboration. ➢ Kanagawa Prefecture is promoting the joint use of the city OS. The prefecture will use a data collaboration platform (JP-LINK) as a standard model to link personal data and make the platform available to municipalities. (Kasama City owns a regional portal app and data collaboration platform, and the services being promoted under this project will be extended to the existing system.)

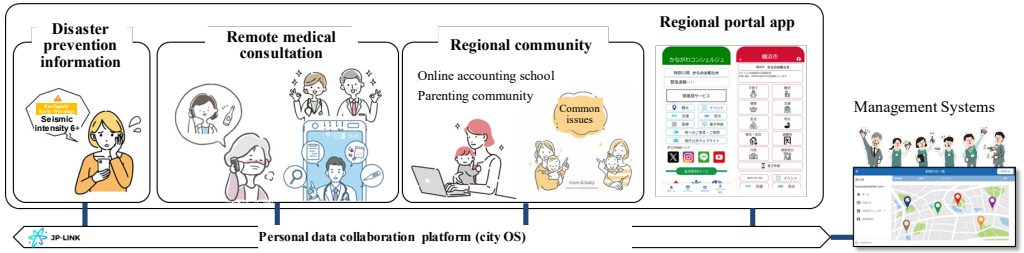
Details of initiatives

- Regional portal app (Kanagawa Prefecture)
→ The app will serve as a single point of contact for the various services and apps provided by the prefecture and municipalities, creating an environment that will enable the residents to use the services and apps without any difficulty. The app will use push notifications, etc., to enhance information dissemination, thereby improving QoL.

- Remote medical consultation services (Wakabadai, Yokohama, Kanagawa Prefecture; Kasama City, Ibaraki Prefecture)
→ To extend healthy life expectancy, about 500 physicians will provide 24-hour support, 365 days a year, after thoroughly understanding the patient's condition during a 20-minute initial consultation. Medical care PHR data will be utilized by the collaboration platform to provide personalized services.

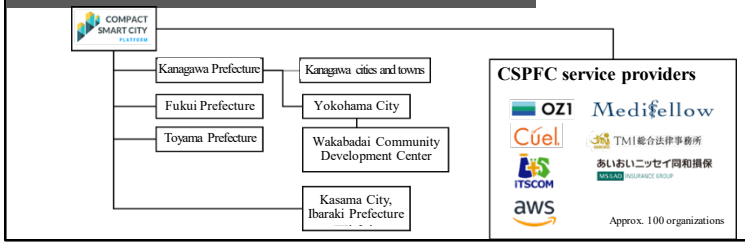
- Local community services (Wakabadai, Yokohama, Kanagawa Prefecture; Kasama City, Ibaraki Prefecture)
→ As a measure to develop local leadership, employment support is provided through accounting schools to women raising children, and an online and offline parenting community has been formed to address parenting concerns. For sudden illnesses of children, an environment where one can feel at ease mentally and physically will be provided by linking to remote medical consultation.

- (Disaster prevention services) (Wakabadai, Yokohama, Kanagawa Prefecture; Kasama City, Ibaraki Prefecture)
→ This service will be used for information dissemination, such as L-alerts through push notifications using the regional portal app, and for evacuation status and facility check-in during disasters. Emergency support will be provided to disaster victims through data linkage with remote medical consultation. (Disaster prevention services established in Fukui and Toyama Prefectures will be utilized.)



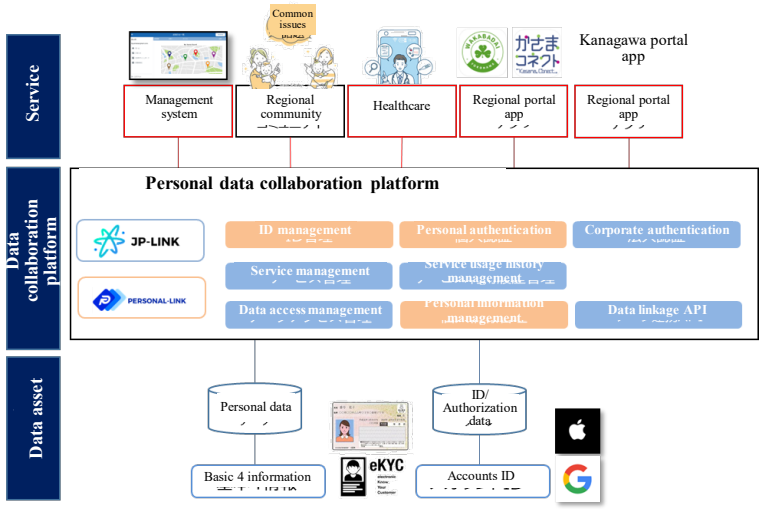
- Utilization of data collaboration platform
Disaster prevention information and remote medical consultation will be linked during disasters and utilized to ensure the safety and security of prefectural citizens and assess local conditions. Remote medical consultation and parenting community will be linked for sharing the high emotional burden, thereby improving wellness. The above will be executed by linking the identity authentication data through the collaboration platform using the My Number Card.

Implementation structure chart



System configuration chart

Project target



[Joint Use of City OS and Disaster Prevention Services]

Implementation area	Fukui and Toyama Prefectures
Implementation entity	Compact Smart City Platform Council (CSPFC)
Project Overview	➢ Fukui and Toyama Prefectures have been promoting safe and secure urban development from before. Due to the impact of the Noto Peninsula earthquake, vulnerability to disasters has also affected population outflow. ➢ Fukui and Toyama Prefectures have already developed city OS that handle personal data (2022, 2023). During the current fiscal year, to address the problems mentioned above, the data linkage services will be enhanced to improve information access during emergencies by adding local currency, childcare support service, push-based dissemination of disaster prevention information, and visualization functions for relevant information, to the regional portal app. ➢ Regarding the services to be added, both the prefectural governments have already discussed and confirmed that the services will be developed in an environment that will facilitate access without excessive burden to all basic local governments in both prefectures that want to use the services, along with the existing services.

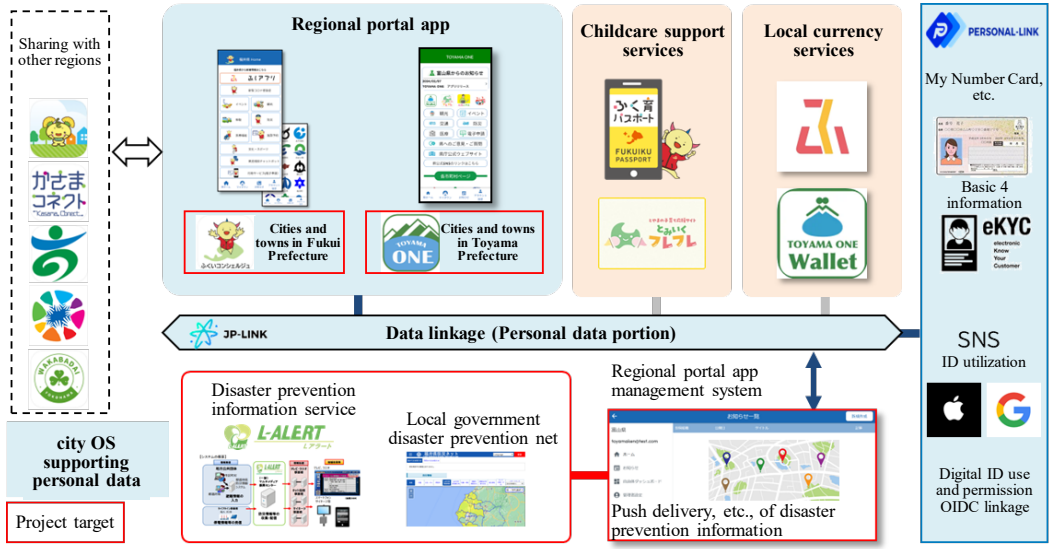
Details of initiatives

➢ **Service collaboration platform for prefectural citizens: city OS (Fukui Prefecture)**

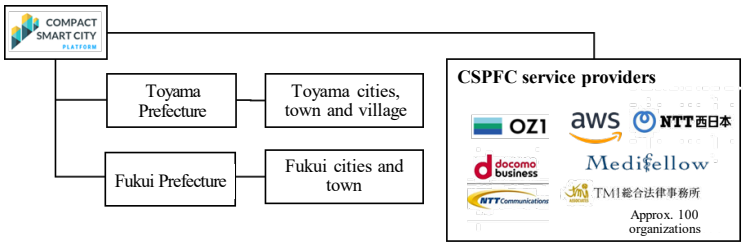
● A management system will be built on the regional portal app, and a push notification function will be added.

➢ **Functional enhancement of disaster prevention services (Fukui and Toyama Prefectures)**

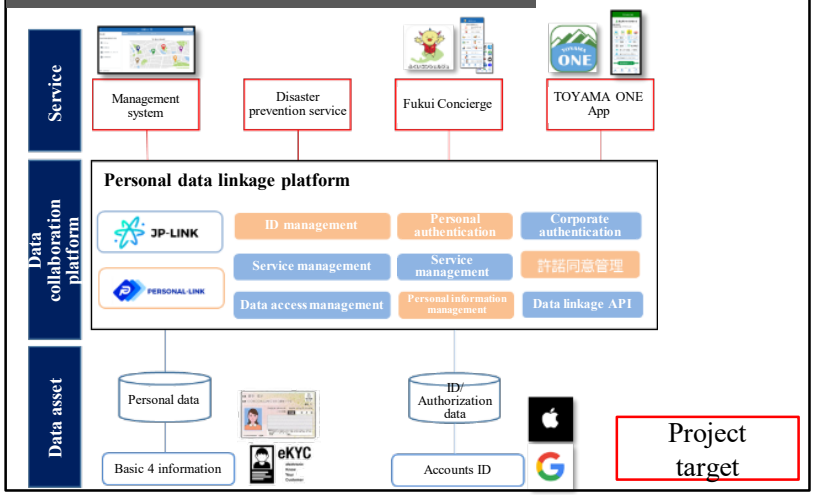
● L-alerts and information on the Disaster Prevention Net will be disseminated using the push notification function of the regional portal app, and disaster prevention information maintained by the prefectures and municipalities will be organized to create an environment where residents can easily access information during an emergency.



Implementation structure chart



System configuration chart



[Project to Strengthen the Childcare Support System by Linking Electronic Mother-Child Handbook Data Based on City OS with Online Medical Consultation Service for Children Provided by Physicians During Nights and Holidays]

Implementation area	Chino City, Nagano Prefecture
Implementation entity	Chino City, Nagano Prefecture
Project Overview	This city introduced the city OS in FY2022 and linked it to the digital services, and has been accelerating the development of a utilization method that will provide one-stop access to the citizens to various services and enable personalization of various services (after obtaining opt-in) by integrating daily life and medical data based on the One ID. On the other hand, pediatric clinics that operated during nighttime and holidays in the Suwa area were shut down in FY2023 due to a shortage of physicians, and there is an urgent need to develop a pediatric care system to replace those clinics. In addition, many administrative procedures for expectant and nursing mothers are still paper-based and complex, resulting in a sense of burden for expectant and nursing mothers and workload on administrative personnel. This project will address these problems by introducing an online medical consultation app for children during nighttime and holidays and linking IDs with an electronic mother-child handbook app via the city OS. Thus, a system will be established to provide medical consultation with physicians without anxiety, even during nighttime and holidays, and data linkage between the two services will be possible. As part of the system, opt-in will be obtained from app users, and arrangements will be made to review the handled data. The aim is to improve the accuracy of responses and encourage appropriate medical consultations by providing physicians with additional information to reference, such as children's vaccination records. In addition, the project aims to streamline administrative procedures for expectant and nursing mothers and reduce administrative personnel's workload by adding features to the electronic mother-child handbook app, such as online submission of pregnancy notifications and appointment scheduling. Although other local governments in the prefecture have already introduced the city OS platform, none of them are using it as a data collaboration platform in the medical care, welfare and nursing care sectors that Chino City is promoting.

Details of initiatives

- Ensuring medical consultation services provided for children during nighttime and holidays by physicians through the introduction of an app for online medical consultation for children

→ The online medical consultation app linked to physicians outside the region as a support system during nighttime and holidays, when the family pediatrician is off duty, will be introduced to reduce the anxiety of parents and the burden on healthcare providers.

→ By linking the app to the city OS, local trends in the incidence of infectious diseases obtained from the secondary data of the medical consultation app information of registered users on the city OS will be analyzed and widely disseminated, thereby alerting people on infectious diseases and promoting the utilization of city OS.

- Implementation of a login feature to the online medical consultation and the electronic mother-child handbook apps using a common ID via the city OS

→ In the future, data held by the electronic mother-child handbook app will be accessed (data linkage) from the online medical consultation app for children with the consent from the user to enable access to both apps using a common ID via the city OS, as a platform that aims at improving the quality of responses during consultation by physicians.

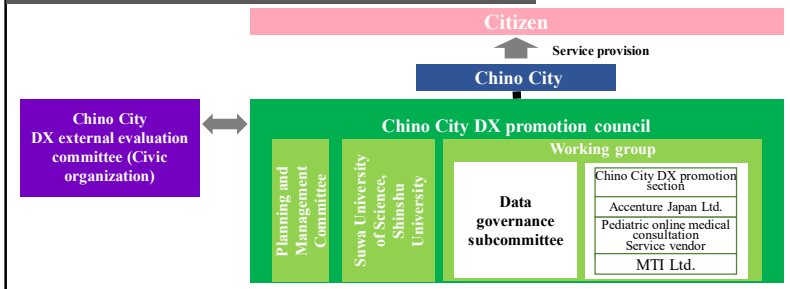
- The electronic mother-child handbook app will include features for online submission of pregnancy notifications and appointment management.

→ Online submission of pregnancy notification will be enabled, and expectant mothers can obtain basic information about their pregnancy beforehand, reducing the time burden on the mothers and allowing for effective guidance and consultation tailored to situation of each individual. These measures will also improve the work efficiency of administrative personnel and reduce their burden.

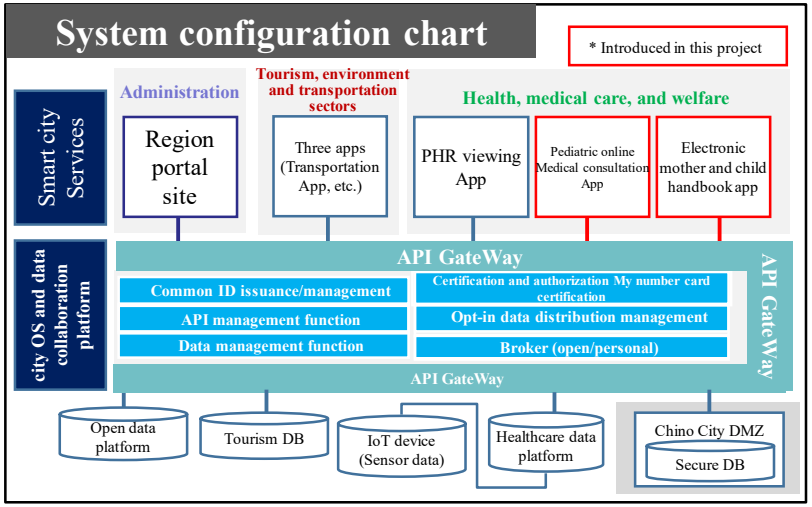
This will contribute to realizing a community where families can raise children with ease and peace of mind.

* Nagano Prefecture has already confirmed its plan to integrate the future data collaboration platforms in the medical care, nursing care, and welfare sectors in the prefecture by horizontal deployment and utilization of the one already introduced in Chino City.

Implementation structure chart



System configuration chart



[Ichinomiya City Lifelong Healthcare Promotion Project]

Implementation area	Ichinomiya City, Aichi Prefecture
Implementation entity	Ichinomiya City, Aichi Prefecture
Project Overview	➢ In Ichinomiya City, a decline in population due to a decline in the total fertility rate and the outflow of both men and women in their 20s from the city has become a problem. In addition, the increasing percentage of older adults aged 65 years and above in the population has resulted in increased social security benefit expenses, including medical expenses, putting pressure on the city's finances.* 28.6% (39.757155 billion yen) of the total amount of 2022 ➢ As part of childcare support measures among countermeasures against population decline, the project will introduce a childcare support app and a healthcare support app that aims at promoting the health of citizens to curb the increase in medical expenses. The project will enable lifelong health data management by linking the two apps using the data collaboration platform and matching infant medical checkup data with specified and employer medical checkup data, which will improve the health awareness of citizens and reduce the increase in social security benefit costs, including medical costs, in the future, and also improve the well-being of citizens and prevent the outflow of all generations from living in the city. In addition, the project aims to prevent the outflow of all generations from leaving the city by improving the well-being of citizens and creating a community where people want to continue to live forever. ➢ The Aichi Prefectural Government has no plan as of now to develop a data collaboration platform in the same sectors. However, if Aichi decides to develop a data collaboration platform in the same sectors as Ichinomiya City in the future, the prefecture is expected to consider collaboration with Ichinomiya City's data collaboration platform to ensure efficient operation.

Details of initiatives

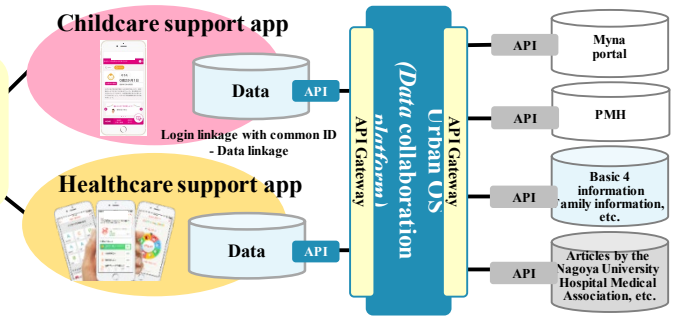
➢ **Lifetime health data management (use of city OS)**

- By linking IDs and data of the health support and childcare support apps via the city OS, it will become automatically possible to collectively manage infant medical checkup data, specified medical checkup data, and employer medical checkup data. In addition, this will enable lifelong management of medical checkup data lost every five years on the Mynaportal and also help manage history and vaccination records, which can be reported during a medical examination and used for specific treatment tailored to the individual.

Advantages of Data Linkage

▶ **Lifetime health data management**

Infancy to late childhood
Manage health care and medical care data



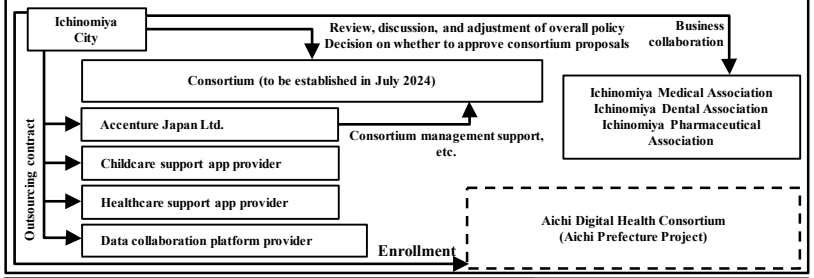
➢ **Infant health data management (Childcare support app)**

- In addition to maintaining daily childcare records, a data-sharing feature for photographs and an event participation app feature will be implemented. In addition, an electronic mother-child handbook function that allows users to store infant medical checkup results and vaccination history, a vaccination scheduler function that sends vaccination reminders, and other services, such as dissemination of articles on childcare, will be implemented.

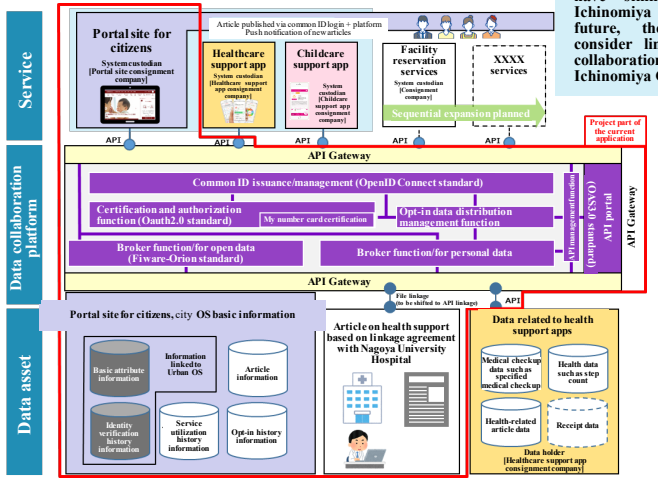
➢ **Individual health checkup data management (Health support app)**

- A health support application will be introduced with a full range of easy-to-use and enjoyable functions to improve the health awareness of more citizens. The main features will include, monitoring of health status, medical report card based on the examination results, personalized information dissemination, health points allocation, and event management functions.

Implementation structure chart



System configuration chart



If other municipalities in Aichi Prefecture decide to have similar services as Ichinomiya City in the future, they will likely consider linking with data collaboration platform of Ichinomiya City

[“Tsunagaru Arida” Information Dissemination Improvement Project]

Implementation area	Arida City, Wakayama Prefecture
Implementation entity	Arida City, Wakayama Prefecture
Project Overview	Arida City has deployed services in various sectors, including a disaster prevention app and an electronic mother-child handbook app. However, these services are not linked making them difficult to use. To link these services and improve convenience, the city OS was built utilizing the same FY2023 project, and a citizen portal was built under a different project. This project will link the citizen portal to each tool and enhance its functionality so that each tool can provide individually optimized information. The project aims to optimize information dissemination through the data collaboration platform, improve the QoL of citizens, and eliminate the digital divide by enabling them to receive information from tools they normally use. There is no data collaboration platform in the prefecture in these sectors. When municipalities in the prefecture newly build data collaboration platforms in the future, Wakayama Prefecture will serve as a hub to curb disruptions in the platforms, promote their joint use and provide support to enable effective utilization of existing platforms, including that in Arida City.

Details of initiatives

Explanation of “Tsunagaru Arida” Developed Last Year

A portal site that issues “Citizen IDs” to users and registers their attributes to pick up and disseminate administrative and regional information tailored to their daily life environment and interests.

1. Linkage with the city’s official LINE

A regional information dissemination function will be added to the city’s official LINE currently being used as a dissemination tool for administrative information. Individually optimized regional information will be disseminated using the ID linkage function of the data collaboration platform.

2. Linkage between “Tsunagaru Arida” and the electronic mother-child handbook app

Information on childcare events held in the area where the individual is registered using the opt-in data (age of the child, etc.) obtained through the data collaboration platform will be delivered by push notification.

3. Dissemination feature for individually optimized administrative information by linking the city’s website to “Tsunagaru Arida”

By linking administrative information posted on the city’s website using the opt-in data distribution function of the data collaboration platform and delivery of individually optimized administrative information by push notifications from Tsunagaru Arida, the information can be conveyed to older adults, etc., who find it difficult to obtain information independently, thereby eliminating the digital divide.

4. Streamlining and optimization of information dissemination work by personnel

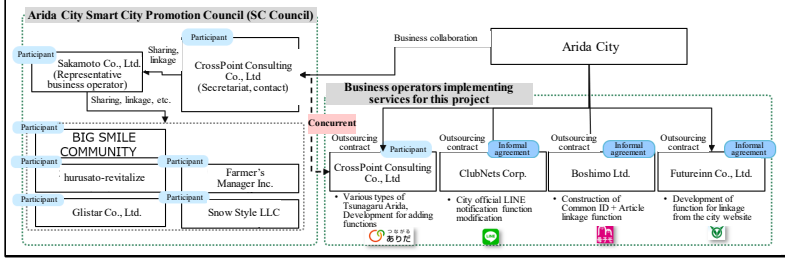
The accounts of Arida City’s PR tools (LINE and “Tsunagaru Arida”) will be linked. By registering regional information and childcare-related information in one tool, information dissemination will become faster, and the efficiency of the dissemination work will be streamlined by realizing automatic linkage using the opt-in data distribution function of the data collaboration platform.

＜Results of discussions with Wakayama Prefecture regarding the vision for joint use of the data collaboration platform＞

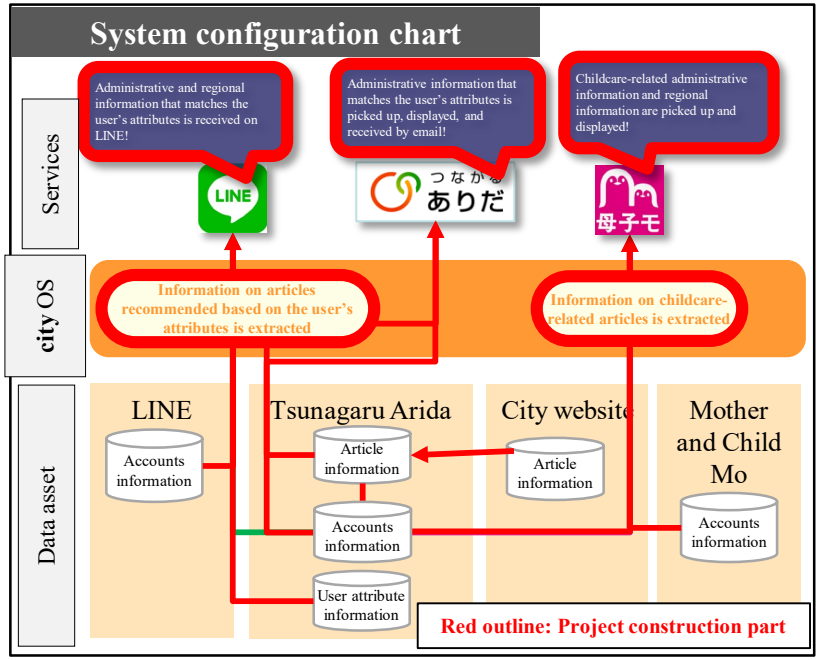
Best practices related to the data collaboration platform to be used in this project will be shared with municipalities within the prefecture, and the creation of the vision for joint use of the data collaboration platform will be considered under the guidance of the prefecture.

When municipalities in the prefecture newly build data collaboration platforms in the future, Wakayama Prefecture will serve as a hub to curb disruptions in the platforms, promote their joint use and provide support to enable effective utilization of existing platforms, including that in Arida City.

Implementation structure chart



System configuration chart



[Data-driven Smart City Promotion Project for Health and Happiness]

Implementation area	Tsuyama City, Okayama Prefecture
Implementation entity	Tsuyama City, Okayama Prefecture
Project Overview	Compared to the national average, lifestyle diseases such as diabetes and obesity are more prominent among residents of Tsuyama City, due to which social security expenses for medical care and nursing care are putting pressure on the city's finances. Prevention and improvement are urgently needed, particularly among the younger generation. In FY2023, the city introduced and linked a data collaboration platform and a diet management application; however, these cannot be currently linked to the health management application scheduled to be introduced in FY2024, due to which effective measures such as linking the nutrition data to health management data cannot be implemented. This project will develop an API to solve this problem. The API will link a common ID of the data collaboration platform developed in FY2023 with the health management application scheduled to be introduced in FY2024, thereby helping residents become aware of their health and become healthy on their own in the future, through visualization of both diet and exercise data. In addition, by collecting data, it will be possible to accurately assess the situation of the entire city, community, and individuals, and develop more appropriate measures and provide health counseling, thus reducing medical expenses and developing a vibrant community where people of the community can lead a healthy life. There is no data collaboration platform in the prefecture in these sectors. When municipalities in the prefecture newly build data collaboration platforms in the future, Okayama Prefecture will serve as a hub to curb disruptions in the platforms, and municipalities will make effective use of existing platforms, including that in Tsuyama City, without excessive investment.

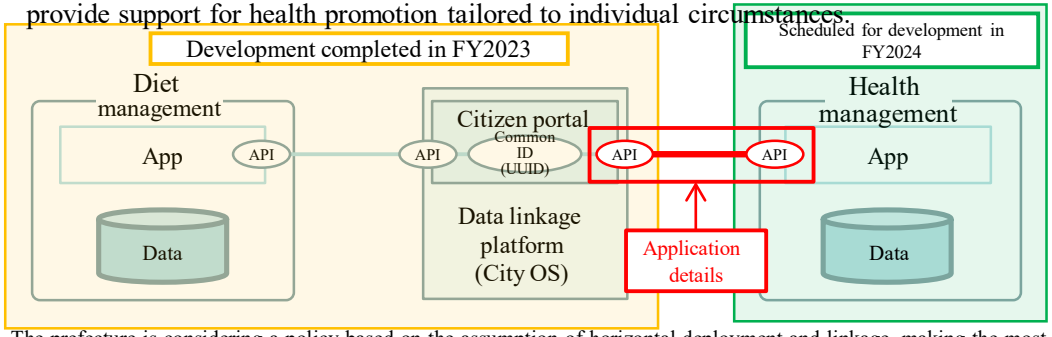
Details of initiatives

- Link between data collaboration platform and health management apps

The diet management app estimates the state of nutrition based on purchase data in collaboration with local supermarkets, proposes nutritional supplements for deficiencies, and has a mechanism for linking to the data collaboration platform. (Completed in FY2023)

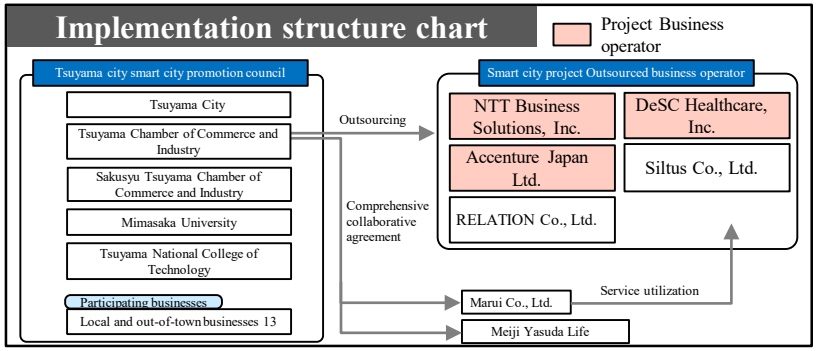
The health management app can record daily exercise and lifestyle habits, etc., and visualize the risk of diseases based on medical checkup results. (Scheduled for development in FY2024)

By linking the data collaboration platform and the health management application, it will be possible to link nutrition and health management data, carry out analysis based on diet and exercise, and implement effective measures. In the future, the city will consider how to provide support for health promotion tailored to individual circumstances.

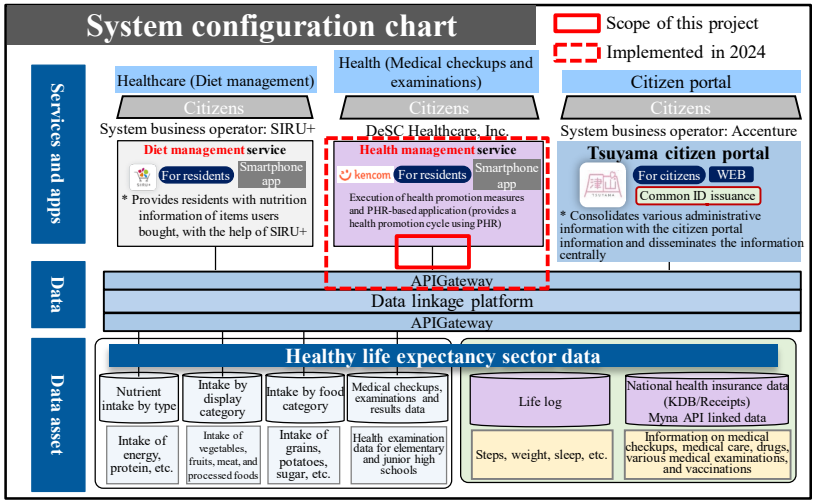


The prefecture is considering a policy based on the assumption of horizontal deployment and linkage, making the most of the already developed platforms of the four municipalities to minimize the burden on municipalities that will newly start the initiative in the future.

Implementation structure chart



System configuration chart



[Fukuoka Prefecture Public-Private Data Collaboration Platform Development Project]

Implementation area	Fukuoka Prefecture
Implementation entity	Fukuoka Prefecture
Project Overview	➢ Fukuoka Prefecture faces an aging society with fewer children and a declining working-age population. The prefecture requires a public-private data collaboration platform developed based on a cooperative business model to maintain services aligned with diverse daily life needs and values. However, some municipalities will find it difficult to independently develop such a platform due to the significant burden of development and operation. ➢ For this reason, Fukuoka Prefecture will aim to reduce the burden on municipalities by building a platform and making it available for joint use and at prefecture-wide deployment of services for which wide-area linkage is preferred, such as disaster prevention and regional revitalization. In FY2024, in addition to building a platform, the prefecture will utilize data linked to the Fukuoka Prefecture dashboard to improve access to local information, disaster prevention information, etc., by residents and businesses, and utilize linked data such as hometown tax data and local resource supply data for regional revitalization. The implemented services will be gradually enhanced in the future. ➢ There is no data collaboration platform in place for joint use by prefectural municipalities that do not currently have such a platform. For service deployment across Fukuoka Prefecture, a platform will be newly developed as a future standard platform for the prefecture.

Details of initiatives

- A public-private data collaboration platform available for joint use by prefectural municipalities will be built under the leadership of the prefecture. This platform will aim to realize a convenient and affluent lifestyle for prefectural citizens by promoting wide-area digitalization in the prefecture through the development of a platform for shared use of data within the prefecture.
- As a specific service at the time of implementation of the data collaboration platform, the prefecture will utilize data linked to the Fukuoka Prefecture dashboard to improve access to local information, disaster prevention information, etc., by residents and companies, and utilize linked data such as hometown tax data and local resource supply data for regional revitalization. The implemented services will be gradually enhanced in the future.

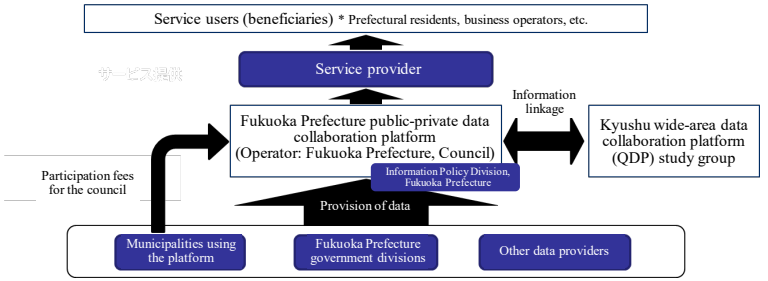
<Utilization of data linked to the Fukuoka prefecture dashboard>

Linking open data in multiple fields (in FY2024, a list of evacuation centers and childcare centers and information on prefecture-owned facilities) via the data collaboration platform and publishing the data on the dashboard will enable the utilization of the linked data by child-raising families to collate information on childcare facilities with that on evacuation centers in the surrounding area, and by local governments and businesses to collate information on evacuation centers with that on public facilities for their disaster prevention measures. This will also improve access to local information and disaster prevention information, etc. by users, and the release of the API will facilitate the utilization of data by systems and services of private companies, as well as those of local governments.

<Utilization of linked hometown tax payment data and local resource supply data, etc., for regional revitalization>

To revitalize the regional economy, the taxpayer attributes, area information, media for notification, etc., will be analyzed and visualized using AI for data from multiple fields, such as hometown tax payment (multiple portal sites) application data, supply information obtained from producers, and promotional data, and the data will be linked. Local governments will assess local needs and issues to make it possible to effectively utilize local resources and provide appropriate support to local business operators, thereby strengthening local brands.

Implementation structure chart



System configuration chart