

April 22, 2026

Japan System Techniques Co., Ltd.

Use of Medical Big Data for Evidence Based Community Healthcare

JAST-City of Izumiotsu-Osaka Metropolitan University Mutual Cooperation Agreement

Japan System Techniques Co., Ltd. (Head office: Kita-ku, Osaka; President and CEO: Taku Hirabayashi; JAST), the city of Izumiotsu (Mayor: Kenichi Minamide) and the Well-being Collaborative Creation Research Center of Osaka Metropolitan University (Joto-ku, Osaka; Director: Yumi Higuchi; WellCo) have signed a mutual cooperation agreement. This collaboration, which spans the business, academic and public sectors, is aimed at using medical big data to monitor the effectiveness of measures for good health and taking these measures to a higher level.



(From left: Ryo Aoki, Executive Officer, JAST; Kenichi Minamide, Mayor, the city of Izumiotsu; Yumi Higuchi, Director, WellCo)

[Areas of cooperation]

- (1) Evaluation of measures for good health that use JAST's REZULT*¹ medical big data
 - Determination and comparative analysis of activities using REZULT in the city of Izumiotsu and other cities
 - Evaluation of measures for good health by using an impact evaluation model*²
- (2) Other items required for accomplishing the objectives of this agreement

Local governments in Japan need to provide services for healthcare issues that are becoming more complex and advanced due to Japan's extremely low birthrate and declining population, growing healthcare expenditures, the increase in lifestyle diseases and other reasons. As a result, it is no longer possible to provide sufficient benefits to residents by offering a single set of uniform services as in the past. To serve residents properly, local governments have an increasing need for evidence-based policy making (EBPM), which involves the use of accumulated medical data and other information to design activities based on scientific evidence and verify the effectiveness of these activities.

The city of Izumiotsu enacted an ordinance in April 2023 concerning measures for helping residents enjoy healthy lives. Since then, there have been numerous health programs centered on four themes: visualization of the current health of residents; creation of opportunities to learn about good health; education for a healthy diet; and the creation of a variety of options for staying healthy. This mutual cooperation agreement was established for the purpose of using EBPM to confirm the effectiveness of measures for good health and to make these measures even more advanced.

Data will be used for the visualization and analysis of health programs of the city of Izumiotsu and the results of these programs in prior years. This will be accomplished by combining JAST's medical analysis platform, which includes REZULT medical big data and other information, with JAST's knowledge acquired by providing assistance to local governments and health insurers. Support for more sophisticated EBPM is one expected benefit. These activities will also facilitate verifications of usefulness from the standpoint of community creation measures originating with data on healthcare and staying healthy. Furthermore, data will be used for studies concerning the ability to create new business models.

WellCo is responsible for ensuring the academic suitability of data analysis methods and the design of evaluations. Activities include the use of an impact evaluation model to confirm the effectiveness of various measures, the organization of knowledge acquired and academic announcements of results.

Collaboration based on this agreement spanning the business, academic and public sectors is aimed at unifying all confirmations of healthcare programs and proposals by the city of Izumiotsu in prior years. In addition, there will be studies concerning the use of this information as evidence for operating future healthcare programs by the city.

JAST, the city of Izumiotsu and WellCo plan to use measures based on the mutual cooperation agreement to start analysis and demonstration programs in stages and to make public announcements of new knowledge resulting from these activities.

*1. REZULT platform

REZULT is one of the largest medical big databases in its category. The database covers health insurance invoice data for medical care and prescriptions, including the Diagnosis Procedure Combination (DPC: a comprehensive medical procedure payment evaluation system for acute inpatient care) of the Ministry of Health, Labour and Welfare. Invoice information is anonymous and used with the permission of health insurance organizations. The number of patients, medical expenses and other items can be aggregated based on gender, age, location of healthcare facilities and other parameters. REZULT data is a valuable resource for activities ranging from activities including verification of the effectiveness of these activities, research projects and marketing.

*2. Impact evaluation model

This is a model for quantitative evaluations of the benefits of healthcare programs. For an actual healthcare activity, the cost of medical care that would have been needed without the activity is estimated. Then, the difference between this estimate and the actual cost of care that was provided based on REZULT is calculated.

■About JAST

日本システム技術株式会社
Japan System Techniques Co.,Ltd.

JAST is an IT company that has no affiliations with other corporate groups. Business activities encompass education, healthcare, finance, telecommunications, the public sector and many other social infrastructure categories. Guided by the philosophy that “refining and upgrading the skills of people comes first ahead of everything else,” JAST has many programs for the advancement of employees. JAST builds relationships with customers based on trust by working closely with customers while providing one-stop support extending from defining requirements to the provision of maintenance services. JAST has two enterprise resource planning packages: the GAKUEN series, an integration package system for universities, and the BankNeo, an information integration package for financial institutions. There is also a medical big data business for one-stop support for health insurers. This includes the JMICS, an automatic inspection system for health insurance claims, and the iBss, an insurers business support system for the digital transformation of insurance administrative processes.

Company: Japan System Techniques Co., Ltd.
Representative: Taku Hirabayashi, President and CEO
Tokyo head office: Taiyo Seimei Shinagawa Building 27F, 16-2 Konan 2-chome, Minato-ku, Tokyo
Osaka head office: Nakanoshima Festival Tower 29F, 3-18 Nakanoshima 2-chome, Kita-ku, Osaka
Established: March 26, 1973
Capital: 1,535 million yen
Employees: Consolidated 1,679 (as of September 30, 2025);
Non-consolidated 1,230 (as of September 30, 2025)
Fiscal year end: March
URL: <https://www.jast.jp/en/>

■ Inquiries

Japan System Techniques Co., Ltd.
Contact: Arai
Healthcare Innovation Business Division
TEL: +81-3-6718-2785
Mail: JAST-Lab@jast.co.jp
URL: <https://www.jastlab.jast.jp/en>

Well-being Collaborative Creation Research Center
Haruka Kato, Adjunct Researcher
URL: <https://www.omu.ac.jp/orp/well-being/>

■ Press Inquiries

Japan System Techniques Co., Ltd.
Contact: Yamashita/Ishida
Management Planning Department
TEL: +81-3-6718-2771
Mail: press@jast.co.jp
URL: <https://www.jast.jp/en>