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Provision of Medical Data on Amazon Web Service

Japan System Techniques Co., Ltd. announced the start of the provision at no cost of JAST medical data sets by using AWS Data Exchange (ADX), a service that allows easy searches, subscriptions and use of third-party data on the Amazon Web Service (AWS). The details are as per attached.

The earnings forecast announced on May 13, 2022 already incorporates the effect of this matter on the results of operations for the fiscal year ending March 2023. An announcement will be made promptly if there is any additional information that should be disclosed.

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Provision of Medical Data on Amazon Web Service

Japan System Techniques Co., Ltd. (Head office: Osaka; Representative: Takeaki Hirabayashi, President and CEO; JAST) announced today the start of the provision at no cost of JAST medical data sets by using AWS Data Exchange (ADX), a service that allows easy searches, subscriptions and use of third-party data on the Amazon Web Service (AWS).



■ AWS Data Exchange (ADX):

<https://aws.amazon.com/jp/data-exchange/>

■ Website for data provision (AWS Marketplace):

https://aws.amazon.com/marketplace/pp/prodview-qt74gjsxq35fw?sr=0-1&ref_=beagle&applicationId=AWSMPContessa#offers

■ Background

JAST has accumulated its REZULT medical big data by using health insurance invoice data (see note 1) and health check-up data for about 8 million people. Information extends from personal data such as gender and age to medical data such as diseases and prescription drugs used. This information is suitable for a diverse array of research activities and ways to improve health care and other aspects of people's lives. Sources of data are anonymous and JAST has received permission from health insurance providers to use this information. All activities comply with the Personal Information Protection Act. Furthermore, operations are based on all guidelines for the handling of medical information in order to ensure the proper receipt and management of this information.

JAST medical data sets include disease categories based on ICD-10 (see note 2), patient gender and age, number of hospital beds, number of patients in each prefecture, and the cost of health care.

The Future Co-Creation Laboratory of JAST has the goal of contributing to the happiness of the people of Japan by providing and utilizing data for joint research projects and developing new products. Activities of this laboratory are based on the JAST corporate philosophy of "creating and providing data for making society a better place and providing new types of IT services." Supplying data by using ADX of AWS is one part of these activities.

Customers who are using AWS can now access data provided by JAST for developing new products, performing research projects, conducting marketing activities and other purposes.

JAST plans to continue establishing ties with many types of companies and organizations for the provision of data with the goals of raising the value of JAST data and helping solve a broader range of customers' problems. In addition, JAST plans to start a data distribution service with fees that will be a source of an even larger volume of data, which will allow customers to utilize with even more precision and effectiveness the data provided through ADX.

■ The Future Co-Creation Laboratory of JAST

The Future Co-Creation Laboratory of JAST is a medical big data business with the mission of using the digital transformation of health care backed by medical big data (invoice data, health check-up data and other data) to solve issues at healthcare facilities and insurance companies and organizations. This laboratory will continue to analyze information obtained from research activities in order to raise the value of JAST's data and create more ways to solve the issues of customers.

Operations of The Future Co-Creation Laboratory also contribute to accomplishing Sustainable Development Goals number three, good health and well-being, and nine, industry, innovation and infrastructure. These activities include the use of medical big data to enable people to stay healthy and the use of alliances with the academic sector for joint research and the development of products.



Note 1. Health insurance invoices

When an individual receives a medical treatment covered by insurance, the healthcare institution sends an invoice listing the procedures and amounts due to the insurance company or organization. For medical and dental care, an invoice listing the procedures and amounts due is sent. For pharmacies, an invoice listing the drugs supplied and amounts due is sent. For nurses visiting individuals at home, an invoice listing home nursing care services and amounts due is sent. One invoice for each patient and individual healthcare institution is prepared every month. Invoices contain information about the reasons that individuals received medical care, the cost of the care and other items. JAST converts this information into a database for subsequent utilization.

Note 2. ICD-10

The International Statistical Classification of Diseases and Related Health Problems (ICD) is system of classifying diseases that was prepared by the World Health Organization (WHO) based on the Constitution of the WHO. The purpose is to facilitate the recording, analysis, interpretation and comparison of death and disease data collected from many countries and regions at many times. ICD-10, the tenth version of these classifications, was adopted in 1990 at the 43rd World Health Assembly. In Japan, classifications are currently based on ICD-10 (2013 version). (More information about statistical classifications of diseases, injuries and death in Japan is on the Ministry of Health, Labour and Welfare website: <https://www.mhlw.go.jp/toukei/sippeii/>)

■ Inquiries

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