December 1, 2022

Daiwa house Industry Co., Ltd.
Hitachi Transport System, Ltd.
YRP Ubiquitous Networking laboratory

Logistics Open Data Contest: Daiwa House Industry Open Data Challenge for Smart Logistics —toward a solution to the 2024 problem—

Daiwa House Industry Co., Ltd. (President and CEO: Keiichi Yoshii, hereafter referred to as "Daiwa House Industry") and Hitachi Transport System, Ltd. (Representative Executive Officer/President and Chief Operating Officer: Hiroaki Takagi, hereafter referred to as "Hitachi Transport System"), and YRP Ubiquitous Networking Laboratory (Director: Ken Sakamura, Dean of Faculty of Information Networking for Innovation and Design (INIAD), Toyo University) will hold Daiwa House Industry Open Data Challenge for Smart Logistics (hereafter referred to as the "Contest"), a logistics open data contest from December 9, 2022.

In this contest, actual logistics system data obtained from “SSCV-Safety,” Hitachi Transport System's safe operation driving management solution, will be made available as open data, and contestants will compete on how to use the data effectively. Proposals for new services and applications that use AI and other digital technologies are sought from the general public, both in Japan and abroad.

Daiwa House Group has held contests that use actual data from actual logistics facilities three times since 2014, and this is the fourth contest. The logistics industry is facing challenges such as labor shortages and long working hours, and there are also concerns about new challenges associated with the so called 2024 problem, which limits maximum working hours. Through this contest, we hope to realize the "smart and safe logistics" that Daiwa House Industry and Hitachi Transport System are aiming for, with the help of digital technology and the wisdom of developers.

■Overview of the Contest

Schedule:	Entry period: Friday, December 9, 2022 to Friday, June 30, 2023 Awards ceremony: August 2023 (TBD), Japan
Application guidelines:	Works such as applications, web services that utilize vehicle location information, acceleration information, truck drivers’ vital data, near-miss data and images obtained from Hitachi Transport System's safety operation driving management solution, SSCV-Safety.
Selection method:	Judging meeting will be held by the following judges. Chief judge: Ken Sakamura Dean of INIAD, Toyo University / Director of YRP Ubiquitous Networking Laboratory Judge: Tatsuya Urakawa Director and Managing Executive Officer Head of General Construction Business Division, Daiwa House Industry Co., Ltd. Seiki Sato Senior Vice President and Executive Officer, General Manager of Business Management Headquarters, Hitachi Transport System, Ltd. Junichi Akiba President of Frameworx, Inc. Atsushi Kato SPC General Manager, Haneda Future Development Co., Ltd/General Manager Project Department, Real Estate Development Division, KAJIMA CORPORATION
Commendation:	Total amount of prizes: Five million JPY ● Grand Prize 2,000,000 JPY ● First Prize 500,000 JPY (for 4 winners) ● Special awards will also be announced. (The number of the special awards will be decided at the judging meeting.)
About Open data:	The following data obtained from Hitachi Transport System's safety operation management solution, SSCV-Safety will be made available to registrants. Information on how to use the data will be published on the "Developers site of the open data challenge for smart logistics by Daiwa House Industry” site after the start of the call for applications. (1)Truck location information Truck location information measured periodically. Date, time, speed, and milage are included. (2)Acceleration information Truck acceleration information measured periodically. Date, time and acceleration of all directions (forward/backward/left/right/up/down) are included.

	(3)Truck drivers' vital data ①Drivers’ vital data measured at departure and return It includes the date and time of measurement, body temperature, blood oxygen concentration, blood pressure (systolic and diastolic), autonomic nerve function values, and the level of fatigue and alertness analyzed from these values. ②Drivers’ vital data measured during driving It includes the date and time of measurement and the level of fatigue and alert level from the acquired vital data. (4)Near-miss accident/incident occurrence event data Data obtained at the time the near accident/incident occurred. It includes the type, date, time, and location of the event. (5)Videos at the time the near-miss accidents/incidents occurred. Dashboard camera image at the time the near accident/incident occurred. The data has been processed so that individuals cannot be identified. ※ SSCV-Safety website (Japanese language) https://www.hitachi-transportsystem.com/jp/sscv/safety/
Eligibility for application:	(1) Those who agree to the terms of contest. (2) Individuals, groups, and corporations can apply. (3) There are no restrictions on nationality or place of residence. (4) There is no age limit, but a minor applicants shall obtain the permission of the guardian. (5) One applicant, including groups and corporations can submit multiple works. Also, applicants can belong to multiple groups.
Applicant conditions and Application method:	Details such as application conditions and application method will be announced later on the dedicated website for this contest. (Japanese language) Contest website: https://daiwa-open-challenge.jp
Organizer:	Organizer: Daiwa House Industry Co., Ltd. Cosponsor: YRP Ubiquitous Networking Laboratory Special Cooperation: Hitachi Transport System, Ltd., Frameworx, Inc., Haneda Future Development Co., Ltd. Cooperation: INIAD cHUB: collaboration Hub for University and Business, Toyo University

■For inquirers about the contest from the public, please contact the following:
Secretariat of Open Data Challenge for Smart Logistics by Daiwa House Industry
(In YRP Ubiquitous Networking Laboratory)　E-mail: support@daiwa-open-challenge.jp

■CONTACTS:
- Daiwa House Industry Co., Ltd. Public Relations Department, +81-3-5214-2112
- Hitachi Transport System, Ltd. Public Relations Department, koho@hitachitransport.com
- YRP Ubiquitous Networking Laboratory Nobuyuki Kashiwa and Hiroyuki Yamada, +81-3-5437-2270 / press@ubin.jp

■Overview of the companies involved
○Daiwa House Industry Co., Ltd.
Daiwa House Industry Co., Ltd. was founded in 1955 with a corporate philosophy of contributing to the “industrialization of construction.” Since then, we have consistently strived to "develop products and provide services that are useful to and delight many people" and has made being a company needed by the world the starting point of all our business. To date, Daiwa House Industry has been active in a wide range of business areas such as Single-family housing, which is our core business, rental housing, condominiums for sale, commercial facilities, and business facilities (logistics facilities, medical and nursing care facilities, etc.).
URL: https://www.daiwahouse.com/English/

○Hitachi Transport System, Ltd.
A comprehensive logistics company that operates globally with 3PL, heavy transport, and freight forwarding at its core. Through the development of SSCV, a digital platform for transportation, Hitachi Transport System contributes to the development of logistics as a social infrastructure by helping transportation operators to solve their problems and to grow their businesses.
URL: https://www.hitachi-transportsystem.com/en/

○YRP Ubiquitous Networking Laboratory
YRP Ubiquitous Networking Laboratory (UNL) promotes research and development in ubiquitous computing and the Internet of Things (IoT) technology, in which many objects in our surroundings are embedded with small computer nodes with sensors and actuators that communicate with each other and operate in a cooperative manner to offer sophisticated services to human users.
URL: https://www2.ubin.jp/en/

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