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Company Name	Kudan Inc.
Representative	CEO Daiu Ko
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Kudan Selected for NEDO's Open Call: "Research and Development Project of the Enhanced Infrastructures for Post-5G Information and Communication Systems: Building a Software Development Platform for Robotics"

Kudan Inc. (hereinafter "Kudan") is pleased to announce that its joint proposal, submitted as a member of the Construction RX Consortium (Chairman: Rikuta Murakami, Senior Executive Managing Officer of Takenaka Corporation)※1, has been selected for the "Research and Development Project of the Enhanced Infrastructures for Post-5G Information and Communication Systems: Building a Software Development Platform for Robotics" publicly solicited by NEDO (New Energy and Industrial Technology Development Organization).

1. Overview of the Selected Project

- Project Title
  Research and Development Project of the Enhanced Infrastructures for Post-5G Information and Communication Systems

- Adopted Theme
  R&D on a Software Development Platform in the Robotics Field for the Construction Market

- Project Period
  From FY2025 to FY2027 (planned)

- Details of the Public Call (Japanese only)
  https://www.nedo.go.jp/koubo/CD3_100401.html

- Kudan's R&D Role
  As the research and development leader for standard software modules, Kudan will develop a reference model※2 for next-generation autonomous mobile robot software.

2. Kudan's Contribution

In Japan's industrial sectors, particularly in the construction industry, the aging of skilled workers and chronic labor shortages have become pressing issues, making the introduction of robotics technologies indispensable

for improving productivity. The construction industry faces unique challenges, such as hazardous operations and complex and dynamic work environments, where robots must perform diverse tasks and operate safely alongside human workers. Current robotic systems, however, often lack development flexibility due to the tight coupling of hardware and software, and face difficulties in autonomous decision-making and action.

Through this project, Kudan aims to establish a “general-purpose autonomous navigation technology” that transcends conventional autonomous driving technologies limited to controlled environments, enabling flexible adaptation to unpredictable and rapidly changing environments such as actual construction sites. The outcomes of this development are expected to extend well beyond construction, with potential applications in logistics, manufacturing, infrastructure inspection, and agriculture.

Furthermore, by leveraging the characteristics of post-5G networks, such as high capacity, low latency, and massive simultaneous connectivity, Kudan will develop high-performance autonomous navigation software modules with enhanced robustness, adaptability, and real-time processing capabilities, enabling coordinated operations among multiple robotic terminals. Building on its proven track record and deep technical expertise in spatial perception and autonomous mobility areas, Kudan will fully leverage its knowledge to drive this project forward. In addition, through this project, Kudan will contribute to defining a “general-purpose autonomous navigation technology specification,” incorporating cloud-edge communication interfaces, interoperability between software and hardware, and common standard specifications with scalability. This will enable the establishment of a reproducible reference model, capable of flexibly responding to complex environments.

Through this initiative, Kudan aims to help solve social challenges such as labor shortages and safety concerns, while accelerating the practical implementation and widespread industrial adoption of next-generation autonomous technologies, ultimately contributing to the realization of a more sustainable society.

3．Future Outlook

The potential impact of this project on Kudan’s financial performance is currently under review. An announcement will be made promptly if disclosure is required.

***1 About the Construction RX Consortium**

The Construction RX Consortium is a private-sector organization established to promote “Robotic Transformation (RX)” in the construction industry. It aims to address key challenges such as workforce decline, productivity improvement, and safety enhancement through the development and adoption of construction robots, IoT applications, and related technologies.

***2 About Reference Models**

A reference model provides standard specifications and design examples that serve as a common template for product development. These models help ensure product interoperability and improve development efficiency across organizations and developers.

About Kudan Inc.

Kudan leads the advancement of next-generation solutions such as robotics, autonomous driving, and digital twins through research and development, as well as the provision of spatial perception algorithms that connect the physical and digital worlds. Originating from the United Kingdom, Kudan is a global company that, with innovative artificial perception technology (the “eyes” of machines) at its core. By extending the application of artificial intelligence from the digital space into the physical space, Kudan aims to fundamentally solve social issues and dramatically improve productivity by promoting automation, unmanned operation, and remote accessibility across all industries.
For more information, please visit Kudan’s website at https://www.kudan.io/.

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