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Company Name	Kudan Inc.	
Representative	CEO	Daiu Ko
	(Securities code:4425 TSE Growth)	
Inquiries	Head of Administration	Tatsuhiro Ishii
	(TEL.03-6892-7333)	

Kudan Launches Next-Generation Digital Twin Solution “Kudan PRISM”

~ Strengthening subscription-based revenue stream with fusion of Photo-realistic 3D and Spatial Intelligence ~

Kudan Inc. (hereinafter “Kudan”) is pleased to announce the official launch of its next-generation digital twin solution, Kudan PRISM (**P**hoto-**R**ealistic **I**ntegrated **S**patial **M**anagement). This solution is an evolution of the company’s existing DAMS (Digital Asset Management Solution), and combines cutting-edge 3D Gaussian Splatting technology with Kudan’s proprietary Spatial Intelligence capabilities. It delivers an entirely new platform for space and asset information management, enabling the use of Photo-realistic 3D reconstructions of real-world environments while seamlessly integrating AI-powered automated analysis with advanced facility and asset data management.

1. Market Background and Challenges

The global digital twin market is now entering a full-fledged growth phase. According to leading market research, it is projected to expand from approximately USD 25 billion in 2024 to around USD 155.8 billion by 2030 (CAGR 34.2%) *1. Furthermore, multiple research agencies estimate that the market could reach approximately USD 700 billion level by 2040 *2, indicating strong long-term growth potential.

Meanwhile, the challenges faced in the field are clear. As infrastructure ages and skilled labor shortages advance in parallel, the maintenance of bridges, tunnels, plants, and urban infrastructure demands both high-precision status assessments and a balance between labor savings and efficiency. However, conventional point cloud-centric solutions have faced significant barriers to industrial adoption due to large data sizes that are cumbersome to handle, slow rendering and complex operations, and difficulty integrating with existing systems.

Kudan PRISM is designed to address these practical bottlenecks. By combining smooth, photo-realistic 3D visualization with a mechanism to semantically integrate asset information (i.e. metadata), it enables the digital transformation of operations in facility and infrastructure management, inspection, robotics, and smart city applications, allowing for low-cost, high-frequency use.

2. Key Differentiators from Existing Market Solutions

- **Rapid creation and smooth display of photo-realistic 3D**
  Faithfully reproduces on-site conditions “as they are” in 3D. Runs smoothly even on standard laptops and tablets, enabling faster inspections, instructions, and operational decision-making. Additionally, it eliminates the need for fixed-point shooting, thereby significantly reducing data acquisition time.

- **Fits diverse scanning needs on-site**
  Through collaboration with XGRIDS, data can be captured using handheld devices, drones, or robot-mounted systems, adapting to the specific environment. Also, it eliminates the need for fixed-point shooting, enabling high-precision 3D modeling of large areas in a short time.

- **Ease of use and scalability**
  Scales step-by-step from single-site trials to multi-site and company-wide deployment, allowing headquarters and field teams to view the same information in real time for more effective decision-making.

- **Centralized 3D-based information access**
  Integrates asset ledgers, drawings, procedures, and inspection histories into a single 3D environment, enabling instant access to necessary information both on-site and remotely.

- **AI-powered anomaly detection**
  Automatically detects and alerts users to potential degradation or faults, helping prioritize restoration work, reduce dependency on individual expertise, and enhance quality.

- **Flexible deployment models**
  Available as Cloud (SaaS), Private Cloud, or On-Premises, with granular viewing and editing permissions to ensure compliance with corporate governance standards.

3. Expected Benefits

- **Fast, cost-effective, and frequent updates of on-site conditions**
  Quickly generates lightweight, photo-realistic 3D models. Incremental updates ensure data is always current, reducing the need for site inspections and revisits.

- **Operational efficiency and cost savings**
  Establishes the 3D photo-realistic model as the “single trusted source of truth” within the organization, minimizing the time spent searching, verifying, and inputting data, thereby reducing labor, travel, and rework costs.

- **Improved quality and equipment uptime**
  Standardizes inspection quality through AI and predefined procedures, enabling early detection and resolution of issues, shortening downtime, and contributing to stable equipment operation.

- **Enhanced visibility and improvement of risk and ESG performance**

Identifies risks to critical assets and simulates the impacts of disasters in 3D. Reduces CO_2 emissions by reducing business travel and routine site patrols.

- **Addressing labor shortages through knowledge transfer**
  Captures veteran expertise as annotations and templates within the 3D model, accelerating the onboarding of new staff and ensuring consistent quality across sites.

4. Target Use Cases

- **Asset Management** – Centralized management of facility and equipment asset data to streamline operations and maintenance.

- **Infrastructure Inspection & Maintenance** – High-precision automatic detection and visualization of structural degradation, with differential comparison to track deterioration over time.

- **Smart City & Disaster Preparedness** – Integration of infrastructure into 3D urban models, accelerating disaster and traffic simulations as well as information sharing with stakeholders.

- **Robotics Development** – Pre-verification of AMR routes and obstacle avoidance in photo-realistic 3D environments to shorten development cycles.

5. Business and Sales Models

- **Business Model:** A combination of Subscription (SaaS), Professional Services (implementation support and integration with other operational systems), and Optional Services (AI analysis, API integration, etc.), aiming to increase the proportion of recurring revenue.

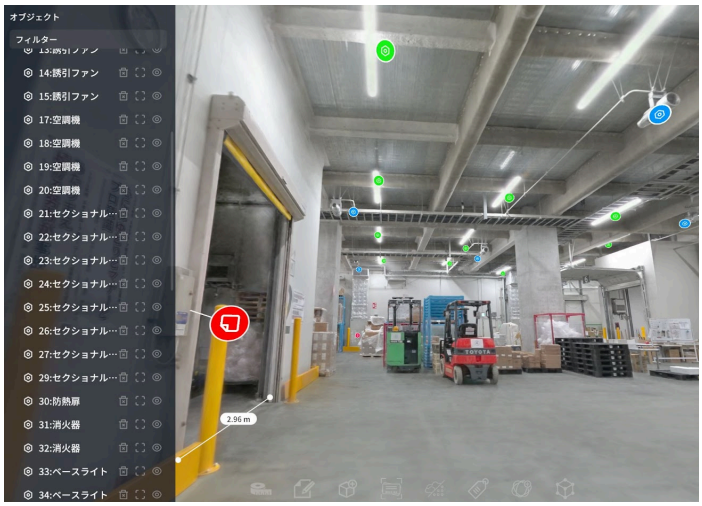
- **Sales Model:** In addition to direct sales by Kudan, the company will expand its partner ecosystem, providing technology licenses to partners and conducting sales through distributors.

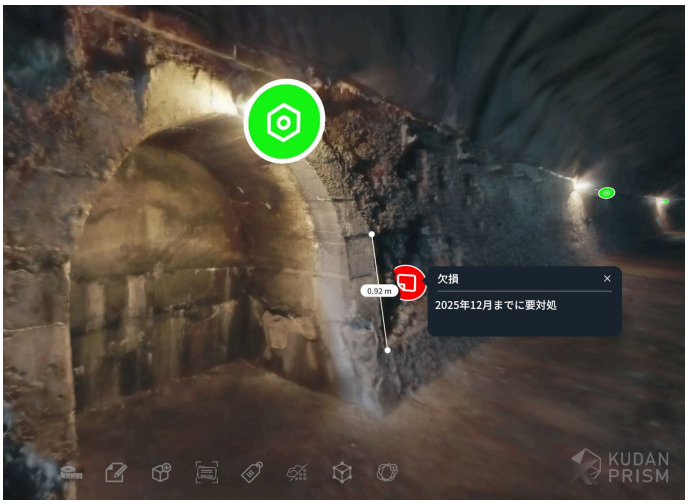
6. Deployment Status and Future Outlook

Kudan PRISM has already been deployed in multiple proof-of-concept (PoC) and small-scale operations with major companies in the infrastructure operations, facility management, and manufacturing sectors across Europe and Japan. These deployments have demonstrated measurable benefits, including improved accuracy and reliability of asset data, as well as enhanced efficiency in inspection and maintenance operations. Building on these results, Kudan will roll out full-scale deployments during 2025, while steadily expanding its base of commercial enterprise users.

7. Impact on Business Performance

The impact of this announcement on the company's results for the current fiscal year has already been reflected in our earnings forecast, and no additional material impact is expected at this time. Should any matter requiring disclosure arise in the future, it will be announced promptly.





***1 Source:** https://www.grandviewresearch.com/horizon/outlook/digital-twin-market-size/global

***2** Based on growth rate estimates from multiple research firms (including Verdantix, IMARC, and MRFR), which project CAGRs in the range of 20-40%, the overall digital twin market is expected to reach approximately JPY 100 trillion (around USD 700 billion) by 2040.

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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Representative: CEO Daiu Ko

■Contact Information
For more details, please contact us from here.