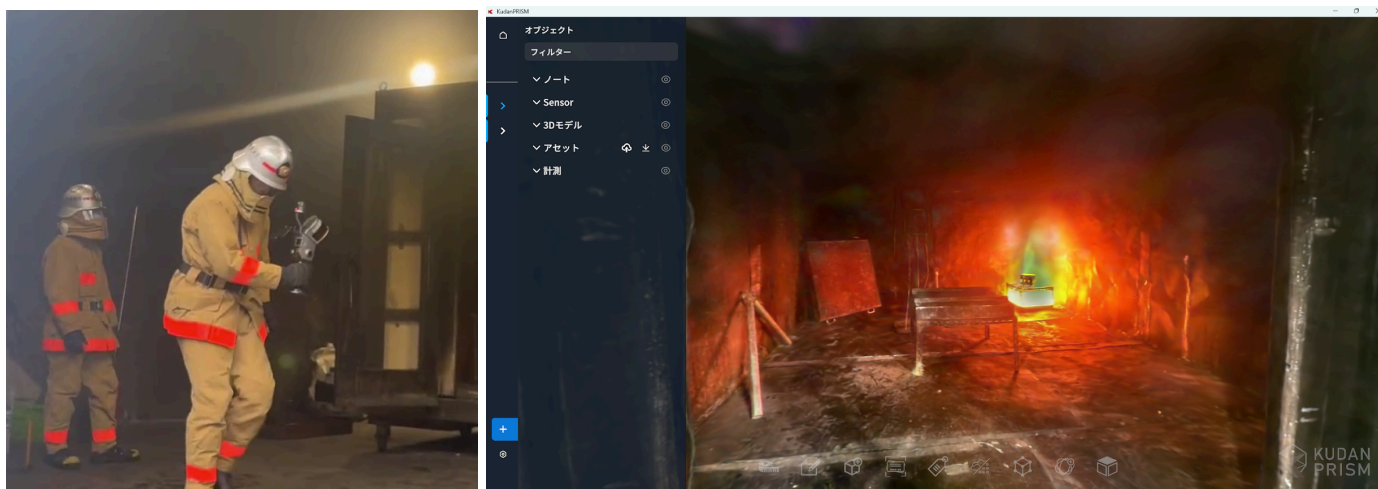


## Kudan Showcases Advanced 3D Technology for Firefighting Support at Opening of Tokyo Fire Department's New R&D Center

Kudan Inc. (Headquarters: Tokyo; CEO: Daiu Ko; hereafter "Kudan") participated in the opening ceremony of the Fire Technology Research and Development Center, a new facility established by the Tokyo Fire Department (TFD) on April 1, 2026, to drive innovation through industry-academia-government collaboration.

The center serves as a development hub aimed at addressing the wide range of challenges facing fire administration through the creation of breakthrough technologies and new operational tactics. At the ceremony, Kudan demonstrated a next-generation spatial recognition and scene documentation solution designed to make firefighting safer and more effective. The demonstration featured Kudan's proprietary photorealistic digital twin platform, Kudan PRISM, together with a handheld scanner from partner company XGRIDS.

During the event, a live proof-of-concept exercise was conducted with Kudan's support, simulating the harsh conditions of a smoke-filled emergency scene. Firefighters used the handheld scanner to capture spatial data from a room with severely limited visibility, generating an on-the-spot 3D model that provided immediate spatial awareness of the environment. The exercise also demonstrated how feeding that 3D data into Kudan PRISM enables a new form of scene documentation — more intuitive and far more precise than conventional methods that rely on photographs and hand-drawn sketches.



Building on the results of this demonstration, Kudan will continue its ongoing discussions with the Tokyo Fire Department on applications including:

- **Real-time spatial awareness at fire and disaster scenes:** Rapidly capturing and visualizing spatial information even in conditions of dense smoke or darkness, helping to protect personnel and improve on-scene decision-making.

- **3D digitization of post-incident investigation:** Recording fire scene conditions as 3D data on the photorealistic digital twin platform Kudan PRISM, enabling reconstruction and sharing that streamlines post-incident investigation, analysis, and reporting.
- **Enhanced disaster preparedness planning and training simulations:** Leveraging 3D spatial data to understand facility layouts and identify hazards, develop training scenarios, and share spatial information among stakeholders — strengthening disaster preparedness planning and training on an ongoing basis.

Kudan remains committed to advancing digital transformation in firefighting and disaster prevention through its cutting-edge 3D spatial reconstruction and recognition technologies, contributing to a safer society across the full spectrum — from everyday preparedness and rapid situational awareness during emergencies to post-incident analysis.

### **Facility Overview**

Tokyo Fire Department — Fire Technology Research and Development Center

Location: 1-13-20 Hatagaya, Shibuya-ku, Tokyo

URL: [https://www.tfd.metro.tokyo.lg.jp/ts/ansuishin/rd\\_center.html](https://www.tfd.metro.tokyo.lg.jp/ts/ansuishin/rd_center.html)

### **About Kudan Inc.**

Kudan provides spatial perception technology, described as the “eyes for all machines”, that drives the advancement of Physical AI and plays a pivotal role in next-generation digital twins and robotics. By perceiving the real world to create digital twins that AI can understand, Kudan contributes to the digital transformation (DX) of operational management and significant productivity gains. Furthermore, the company offers fundamental technologies that enable robots to digitally perceive their surroundings and achieve autonomous mobility in complex environments.

For more information, please refer to Kudan’s website at <https://www.kudan.io/>.

#### ■Company Details

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#### ■Contact Information

For more details, please contact us from [here](#)