IOWN INTEGRAL

NTT R&D FORUM 2024

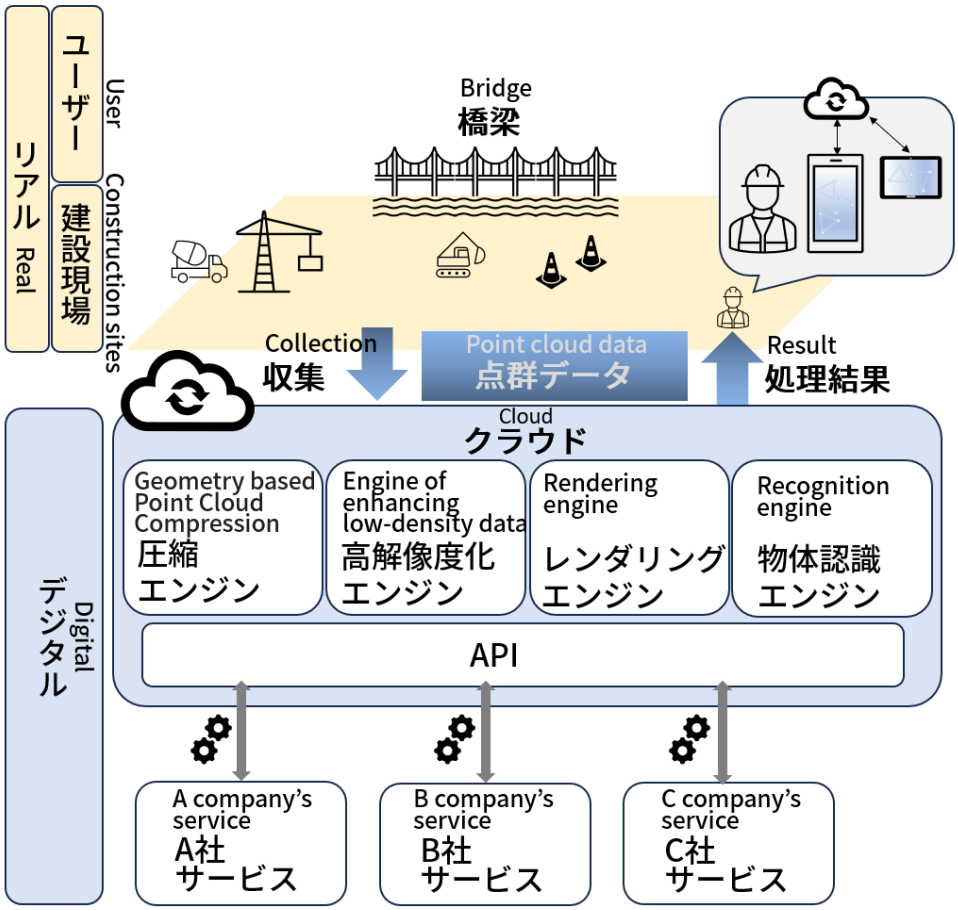
BUSINESS

β 01-03

A platform for promoting the utilization of point cloud data in construction sites

From any device, processing point cloud data to operational use can be done on the cloud

#Productivity Improvement #Customer Experience Value Creation



///Technical Issue

Utilizing point cloud data on construction sites requires outdoor device operation, but high computational demands make this challenging.

/// Research Goal

Incorporating our technology automates progress and quality control, reducing workload. Improved construction accuracy reduces rework costs.

---Technology

- Encoding technology for point cloud data.
- Technology of integrating image data.
- AI technology for recognizing structural components.
- Cloud rendering technology that enables the use of large point cloud data on everyday tablets and PCs.

---Novelty

The platform provides practical features for acquiring and using point cloud data through a one-stop cloud service. Traditionally, high-performance PCs were needed, but now the cloud processes high-precision data and delivers it to mobile devices.

---Applicable Business

By recognizing structural components in point clouds, the system enables the comparison between BIM data and actual construction, aiding in error prevention and progress management. Additionally, data compression technology and cloud rendering streamline the transmission, processing, and sharing of point cloud data.
(The technology will be established in the second quarter of 2025 and the service will be launched in the first quarter of 2026.)

Exhibitors= NTT DOCOMO, Inc, NIPPON TELEGRAPH AND TELEPHONE CORPORATION

Contact URL