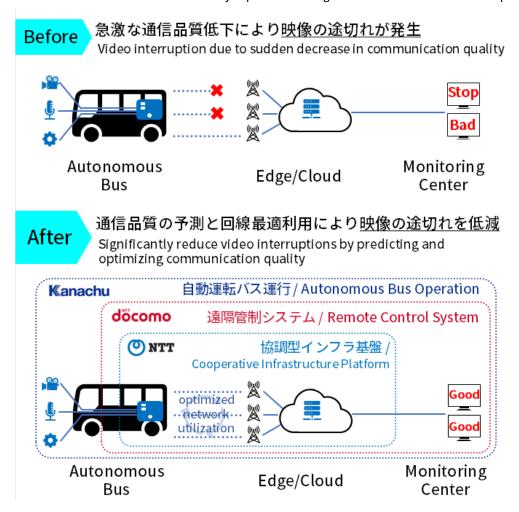


Cooperative infrastructure platform for reliable communications for autonomous driving

Transportation service providers can operate safe driverless transportation services with continuous video monitoring

#Productivity Improvement #Regional Revitalization #Customer Experience Value Creation



///Technical Issue

Safe driverless operation requires uninterrupted remote monitoring. However, fluctuations in communication quality during movement make stable video transmission challenging.

///Research Goal

By achieving safe driverless service through uninterrupted video transmission, we contribute to addressing issues such as the shortage of drivers.

---Technology

- Optimizing multiple connections through control based on communication quality predictions.
- Pioneering early implementation of Multipath QUIC technology in real-world environments.
- Integrated with functionalities developed by NTT docomo.

---Novelty

Conventional technologies adjust transmission volume and bitrate after quality degrades. In contrast, the proposed technology anticipates degradation using historical performance and real-time data, preventing video interruptions that traditional methods can't address.

---Applicable Business

Business area: Transportation service business.

Use cases: A cooperative infrastructure platform enables a continuous network that allows for real-time monitoring of both the interior and exterior video of several autonomous vehicles. This enhances passenger safety and provides efficient, high-quality service.

Availability: The core technology availability is anticipated for 2025.