

## Joint Demonstration of Practical Applications Related to Self-Driving Carts in Local 5G Wide Areas

The EXEO Group, Inc. (the "Company"; head office: Shibuya-ku, Tokyo; Tetsuya Funabashi, President) announced the creation of a consortium together with the YRP R&D Promotion Committee (head office: Yokosuka-shi, Kanagawa; Katsuya Watanabe, President), NTT Communications Corporation (head office: Chiyoda-ku, Tokyo; Toru Maruoka, President & CEO), and the University of Tokyo III / GSII as well as the holding of demonstration trials by mobilizing each partner's insights and technologies within the framework of "Demonstration of Practical Applications Related to Self-Driving Carts in Local 5G Wide Areas," outsourced from the National Institute of Information and Communications Technology (NICT).

■ Demonstration overview

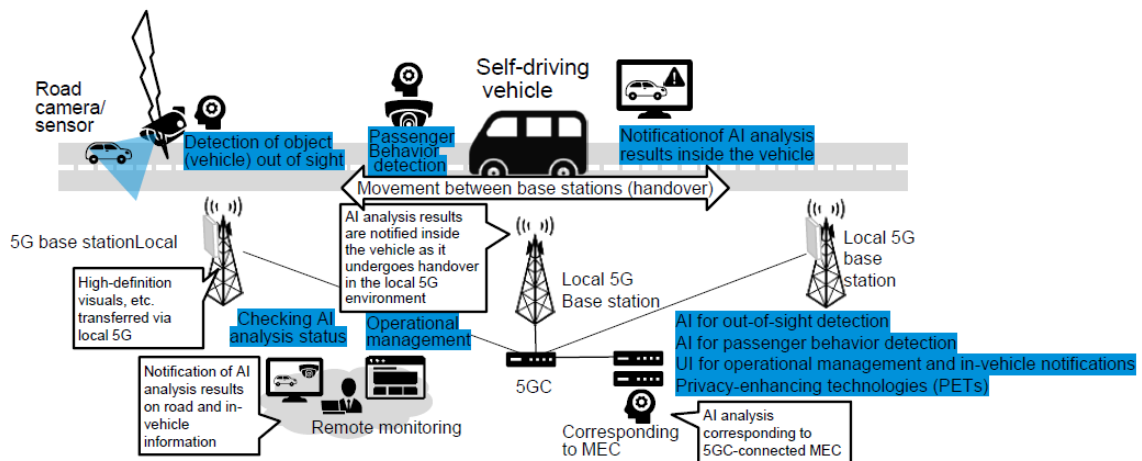
○ Trial location: Public roads in YRP areas

○ Trial duration: January to March 2023

■ Details of the demonstration

Technical demonstrations relating to radio wave propagation, mutual interference, etc. in environments with multiple local 5G base stations and devices in YRP areas as well as examination of effectiveness in identifying issues based on practical operation scenarios.

[Trial example]



○Trial 1: Measurements will be done to assess area formation and performance for local 5G, etc. (reception power, transmission throughput, delays, and other perspectives) as a communication environment for vehicles moving in an environment that requires hand-overs. With regard to identifying issues and solutions from technical, institutional, and operative aspects, considerations and issues will be organized with attention to both "assessment of road area formation by descending from nearby buildings" and assessment of self-driving cart demonstrations in anticipation of practical operations.

○Trial 2: Utility is trialed through specific demonstrations of real-time video surveillance inside the vehicles in anticipation of remotely controlled or unmanned self-driving carts as well as real-time detection of vehicles, etc. approaching from out of sight due to obstacles or the terrain. Suggestions will be made for problem solving that considers institutional and operational aspects (e.g., requirements for communication performance in video transmission, requirements for real-time operations within the system, cutting costs related to network building)

■ Individual role

Company name (random order)	Role
EXEO Group, Inc.	Consortium representative, general manager Building visual surveillance system for issue demonstration (Building cloud infrastructure and developing AI models for 4K camera images)
YRP R&D Promotion Committee	Holding regular consortium meetings, managing progress and issues (Procedure-related) Trial logistics coordination (outside the system)
NTT Communications Corporation	Coordinating radio wave propagation during technical demonstrations
Keikyu Corporation	Assessment through remote surveillance, etc. during comprehensive demonstrations
The University of Tokyo III / GSII	Secure and efficient edge processing during issue demonstrations

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