R&D Cost for the Development of an Autonomous Driving Robot for Fully Automating Short-Distance Transport of Goods and People （LOMBY Inc.）

City	Year of Establishment	Founder
Tokyo	2022	Tomoharu Uchiyama

Partner VC	Latest round of Fundraising	Valuation
DRONE FUND	Seed	Non-Disclosure

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○ Business Plan

Utilizing small autonomous driving robot technology, a large-scale operational system will be developed to enable short-distance, on-demand transport of goods and people in outdoor last-mile areas. By minimizing the risks associated with the commercialization and social implementation of this technology, we aim to achieve the deployment of a living infrastructure that fosters regional revitalization in an ultra-aging society through the automation of goods and people transportation with reduced human intervention.

○ Research Outline

In this research and development project, we will conduct research on technology that enhances the autonomous driving rate, which is essential for large-scale implementation in the real world, and technology that accelerates the speed of social implementation, based on the development technology of the autonomous delivery robot LOMBY. We aim to elevate the following technologies to a level that enables large-scale social implementation:
- Improvement of autonomous driving rates in multi-robot operations
- Enhancement of traffic signal automatic recognition rates
- Automation of robot driving environment setup (such as automatic generation of 3D maps)

Business Area/Field	Research Period	Research Grant Amount	International collaborative technology demonstration
Mobility	PCA 2024〜2025FY	JPY 358 million	-

As of August, 2024