Infra-
structure

DENSO
Crafting the Core

Fleet Data Collection

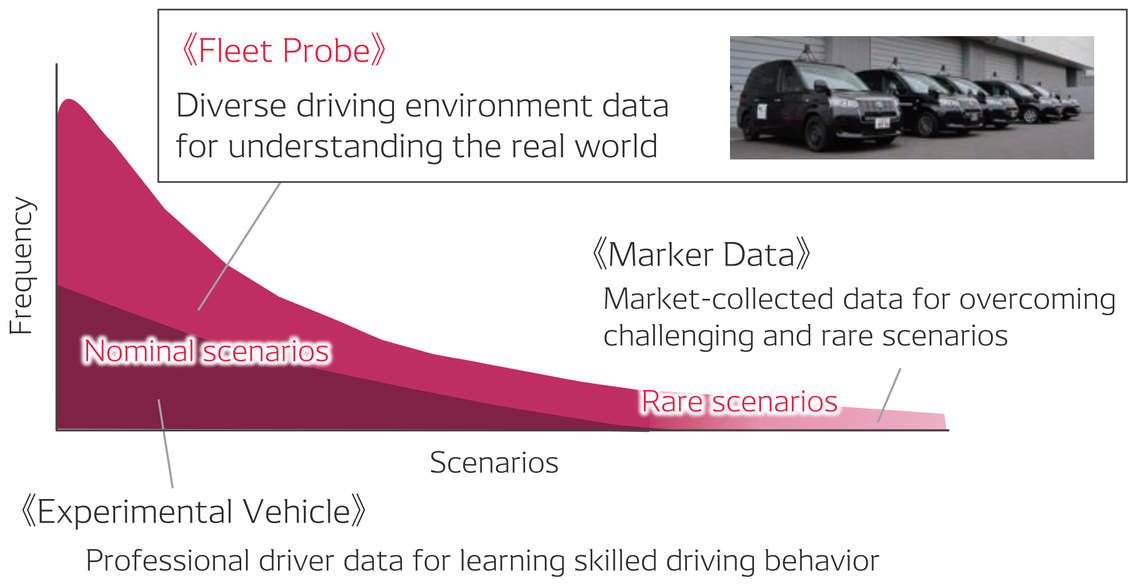
Collect massive data under diverse conditions

Highlights

- Continuous data collection through a commercial vehicle fleet
- High coverage of area, scenarios, and environmental conditions
- Large-scale fleet dataset for accelerating AD system development

Feature

Data Collection Concept for an Autonomous Driving System

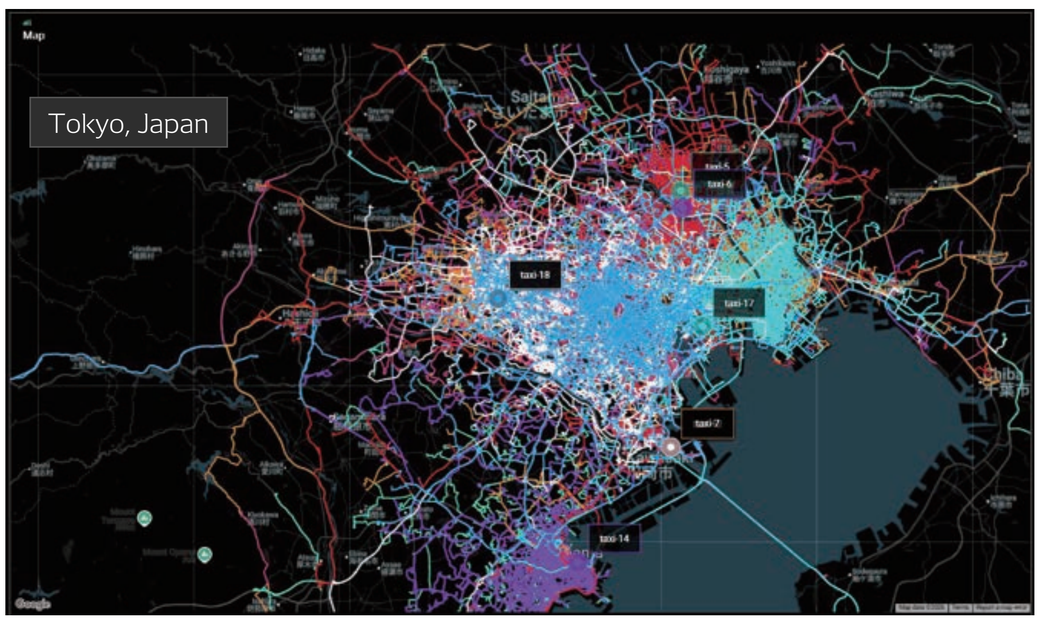


Sensor Specifications

11x Cameras	2x Front (wide, tele)
	4x Side (FL, FR, RL, RR)
	1x Rear
	4x Fisheye
1x LiDAR	360 degree
GNSS	

Collected data coverage in Tokyo

Collected over 50,000 hours data



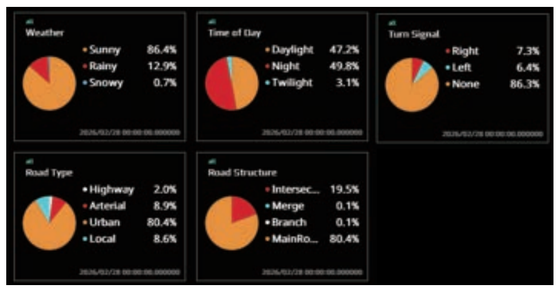
Area coverage

Comprehensive coverage of diverse environments, including narrow urban alleyways



Environmental

Data collection under diverse conditions

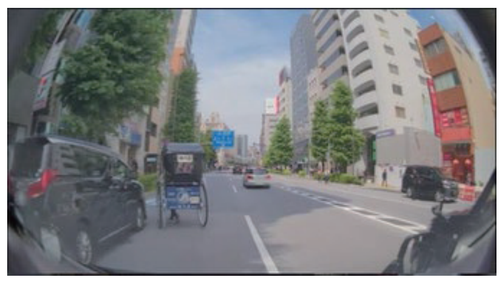


Various scenarios

Examples of unsafe scenarios and region-specific scenarios



Near-miss scenarios



Japanese Rickshaw

Result

- Collected 50,000+ hours data in Tokyo area with high area coverage, region-specific situations, near-miss events, and other rare scenarios
- Leveraging the fleet dataset for both diverse environmental coverage and diverse driving scenarios for AD system development