



Cross-ministerial Strategic Innovation Promotion Program (SIP) Phase Two - Automated Driving (Expansion of Systems and Services)/Implementation of FOTs in the Tokyo Waterfront Area

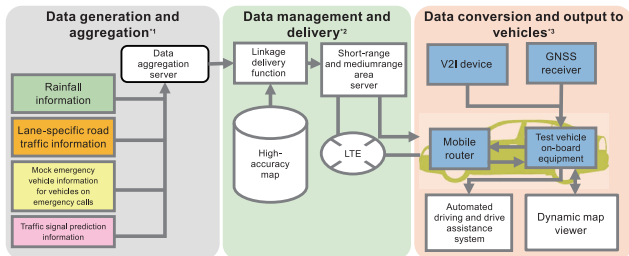
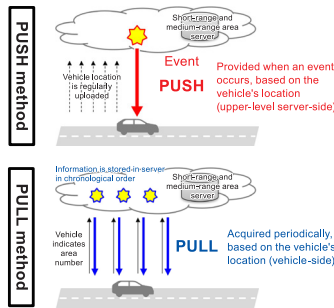
1. Objective

We built a verification test environment using a wide area public network (V2N) in the Tokyo Waterfront City in preparation for the future use of even more diverse traffic environmental information over wider areas. We verified the effectiveness and benefits of the information provided via the V2N and clarified the challenges involved in future real-world deployment.

2. Schedule and test system for FOTs in the Tokyo Waterfront City area

Item	Contents	2021			2022			
		Apr-Sep	Oct-Dec		Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec
V2N FOTs	Rainfall information							
	Lane-specific road traffic information							
	Mock emergency vehicle information for vehicles on emergency calls							
	Traffic signal prediction information							
Event	SIP-adus WS, test ride sessions	Test ride session ★		★ SIP-adus WS		Test ride session ★	★ SIP-adus WS	

FOT system

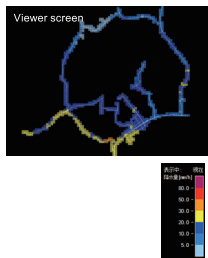


- *1: Handled by "Examination and Evaluation of Automated Driving Control Technologies that Use Lanespecific Probes, etc.," contractors
- *2: Handled by "Research and Development on the Collection, Integration, and Delivery of Short-range and Medium-range Information" contractors
- *3: Handled by the FOTs in the Tokyo Waterfront Area Consortium

3. FOT situations

Rainfall information

Amount of rainfall per mesh segment output to vehicle



- ✓ Delivery of long-range rainfall information, including forecast information

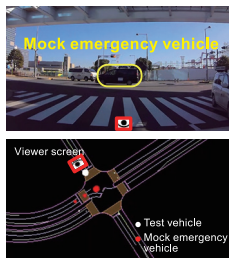
Lane-specific road traffic information

Characteristics of dynamic map viewer road traffic environment information



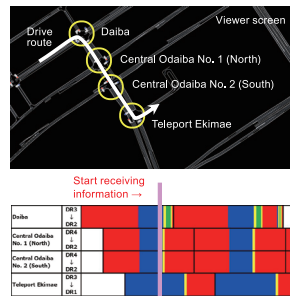
- ✓ Delivery of lane-specific road traffic information linked to high-accuracy maps

Mock emergency vehicle information for vehicles on emergency calls



- ✓ Prior identification of the approach of a mock emergency vehicle

Traffic signal prediction information



- ✓ Traffic signal information could be received via V2N
- ✓ There were issues with the generation of prediction information

4. Results of FOTs in the Tokyo Waterfront City area

- * PUSH/PULL delivery was over a wide area public network (V2N) to distribute information over a wide area
- * There are some remaining issues, but we confirmed the potential for future real-world deployment