

Second Phase of the Cross-Ministerial Strategic Innovation Promotion Program Automated Driving for Universal Services (SIP-adus)

the outline of the Tokyo Waterfront Area Field Operational Test report



# 1. Background of the FOTs\*

## (1)Objectives

\*FOTs Field Operational Tests

- OTo verify common technologies in inter-sectoral collaboration for the development of automated vehicles with dynamic environmental information provided through infrastructures such as traffic signal data on general roads and merging support information on expressways, along with to evaluate impact of these technologies on mixed traffic conditions.
- O To promote international cooperation and standardization and others, by organizing and reviewing worldwide and open forums.

## (2) Implemented

O from October 2019 to the end of March 2021

## (3) Infrastructures and on-board units installed





#### Waterfront city area with

- > Traffic signal data from deployed ITS roadside units
- High Precision 3D map linked with the traffic signal data
- others



#### Haneda airport area with

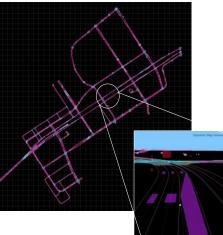
- Traffic signal data from deployed ITS roadside units
- Lanes magnetic markers disposed, provisional bus stops \*
- Reserved lanes\*



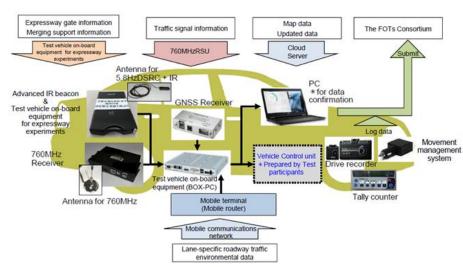
**Expressways** connecting HND and Waterfront city area With

- Merging support information
- ETC gate status information
- Lane-level traffic regulation information and others





High Precision 3D map image in Waterfront city area



Network structure for On-board unit in FOTs

## (4) Participants

29 institutions including domestic and foreign automobile manufacturers, auto parts suppliers, universities, start-ups and others



























































Alphabetical order. A total of 29 institutions



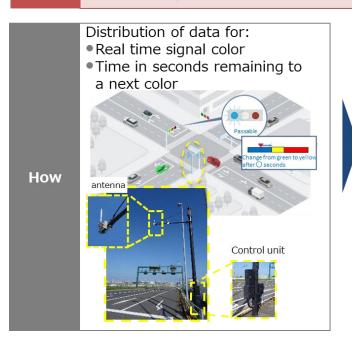


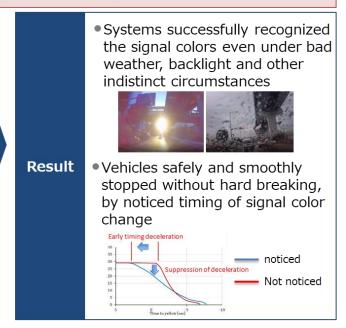


### 2. Waterfront City area (traffic signal information)

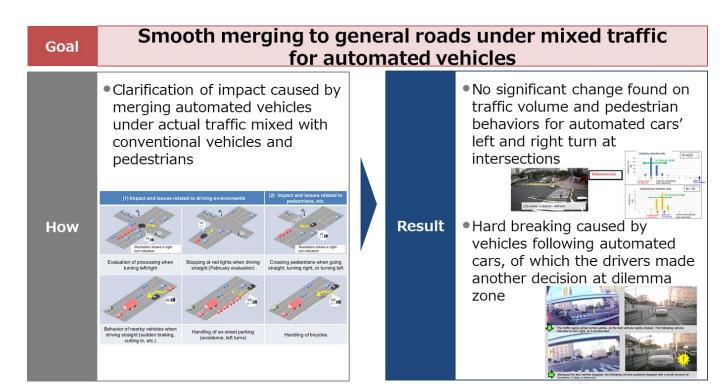
Goal

#### A society with traffic safety secured by minimum accidents

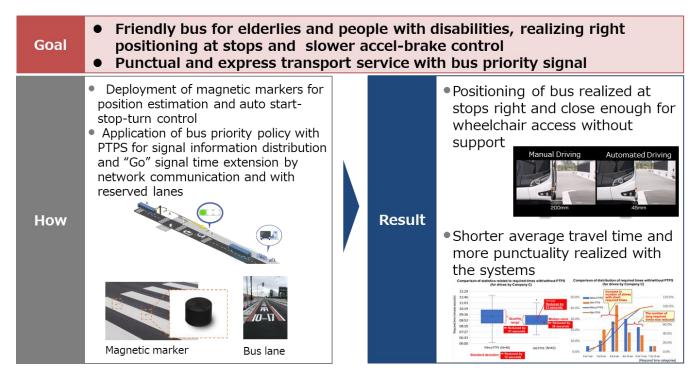




## 3. Waterfront city area (Impact assessment )40,

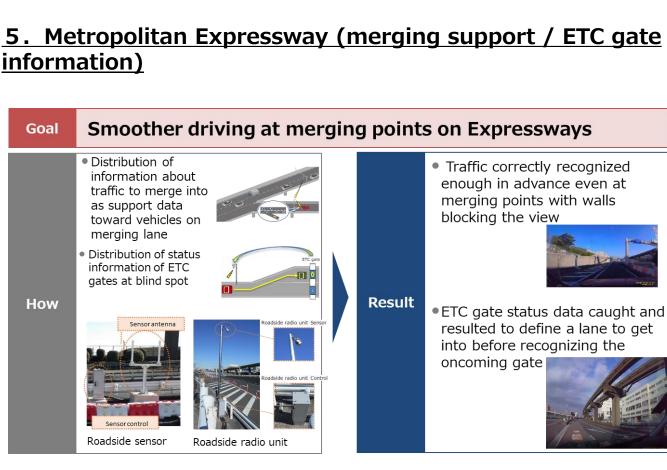


## 4. Haneda Airport area (next generation public transportation system)



\* FOTs for "Next generation transport system" with Level 4 closed in Nov. 2020

# information)



## 6. Program history

2018	Mar.	The Japanese government started to study installation of the traffic infrastructures in the Tokyo waterfront area, in response to requests from industrial groups at the 14th Council on Investments for the Future
	Nov.	Implementation of the Tokyo Waterfront Area Field Operational Test officially announced
2019	Jan.	The call for the field test opened (to March)
	Jun.	Participants selected
	Oct.	The Tokyo Waterfront Area Field Operational Test launched
2020	Mar.	The test on the Metropolitan Expressway started
	Jun.	The test on the Haneda Airport area started
2021	Mar.	The operational test period extended

## 7. The Report

about the Tokyo Waterfront Area Field Operational Test

https://www.sip-adus.go.jp/rd/

## 8. Get to know more about SIP-adus

- (1) SIP café ∼Automated Driving∼ https://sip-cafe.media/
- (2) Tokyo Waterfront Area Field Operational Test Official page (For professionals) <a href="https://www.sip-adus.go.jp/fot/">https://www.sip-adus.go.jp/fot/</a>