

Field Operational Tests



Wide Area

FOT has been conducted in real environments for 1 year

SIP-adus FOT focuses on verifying automated driving system technology in real environments including public roads with various participants. Tests have been commenced in five technology fields: dynamic map, human machine interface (HMI), security, pedestrian traffic accident reduction and next-generation transport.

Main Targets of SIP-adus FOT

- Activation of the study / technology development
- An evaluation, a problem is extracted in more viewpoints
- Confirmation of the practical use
- International cooperation and harmonization
- Social acceptability promotion

Schedule

- **October 2017**
 - Commencement of FOT
- **March 2018**
 - Interim Report
- **March 2019**
 - Final Report

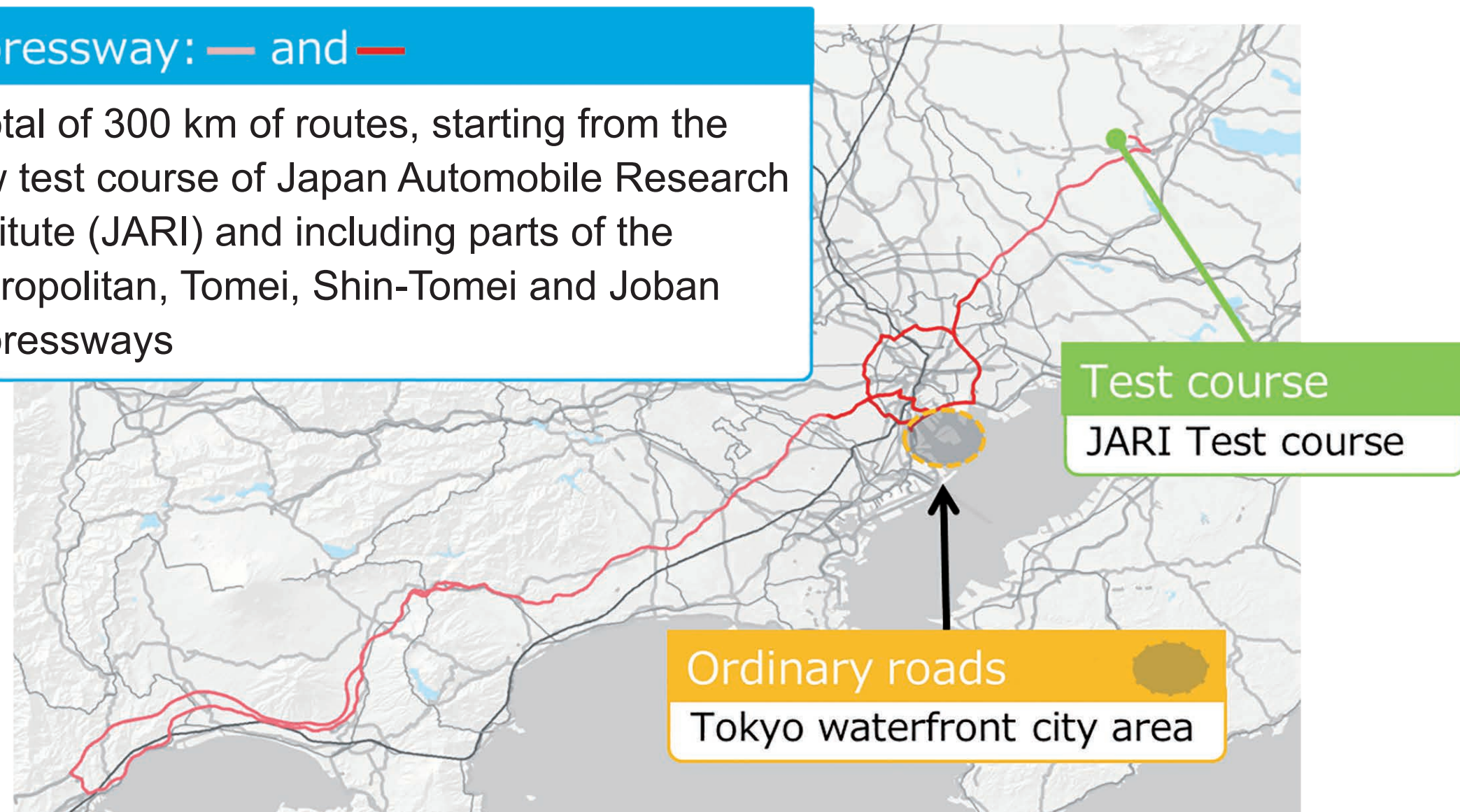
Test Sites

Expressway Surface Streets Test Course



Expressway: — and —

A total of 300 km of routes, starting from the new test course of Japan Automobile Research Institute (JARI) and including parts of the Metropolitan, Tomei, Shin-Tomei and Joban Expressways



Test course
JARI Test course

Ordinary roads
Tokyo waterfront city area

Test Participants

Alphabetical Order

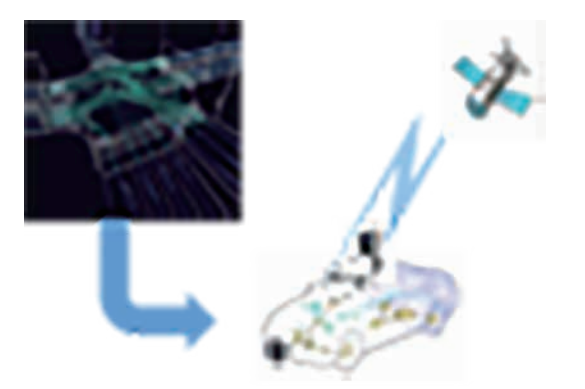


Alphabetical order

Outline of FOT

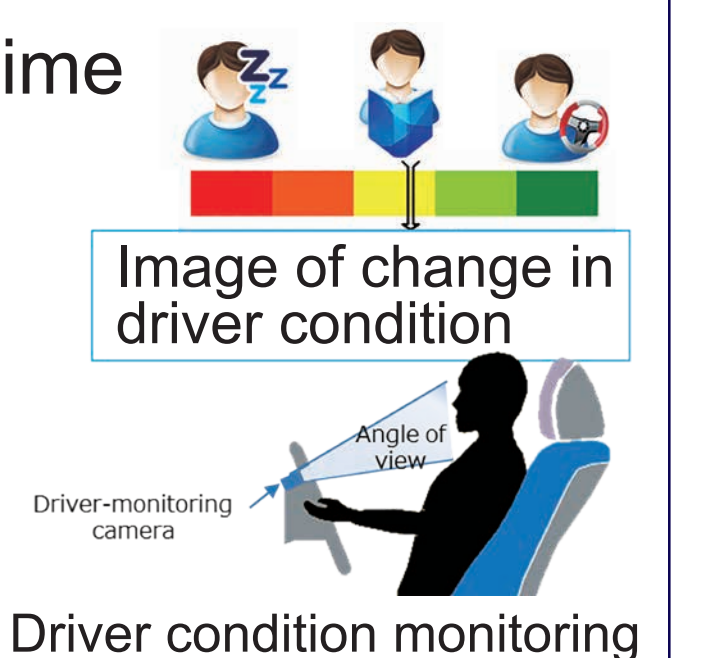
Dynamic Map

- Validation of the specifications and accuracy of static high-accuracy 3D map data
- Verification of semi-dynamic information such as traffic congestion and traffic regulation information
- Validation of the system for generating, updating and distributing data



HMI

- Measurement of driver condition and driving state under actual driving environments and continuous driving for a long time
- Data collection and analysis of driver condition
- Verification of HMI methods and devices
- Study and verification of decision index of driver condition



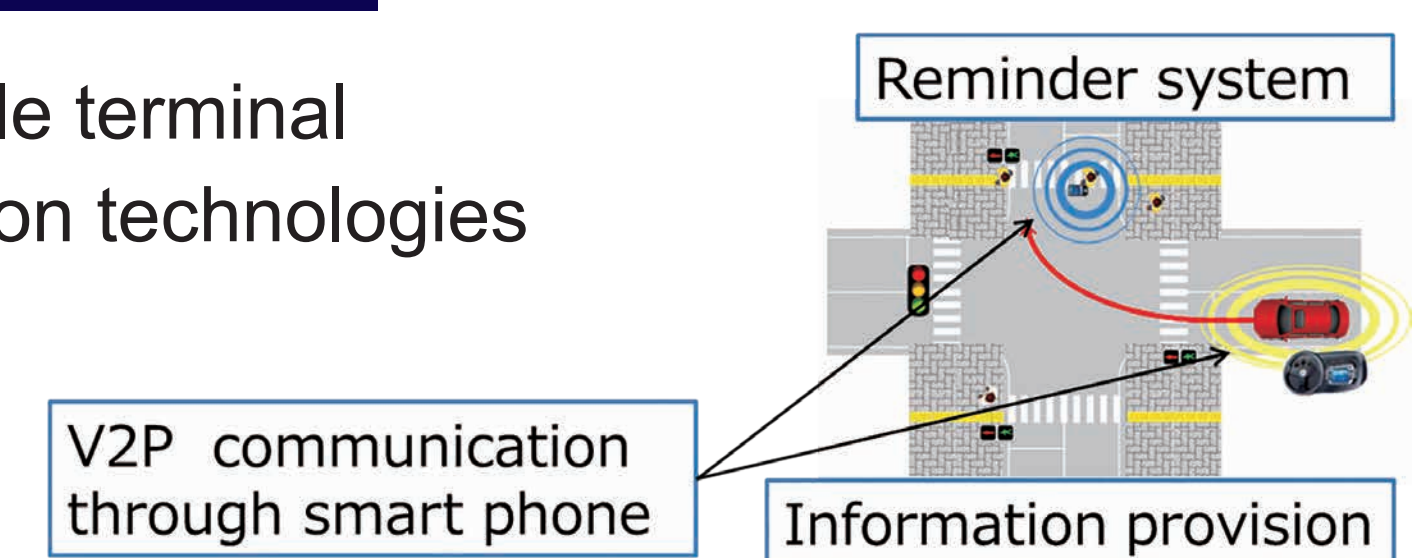
Cyber Security

- Development of a cyber security evaluation guideline to assess the protection level of connected cars against cyber-attacks
- Evaluation of the guideline in experiments with several test car systems provided by automobile manufacturers



Pedestrian Traffic Accident Reduction

- Verification of a pedestrian mobile terminal equipped with V2P communication technologies and high-accuracy position measuring system for support recognition



Next-Generation Transport

- Verification of service level improvement (passenger comfort and reliability) of public transportation utilizing Advanced Rapid Transit (ART) technologies
- Verification of usability and efficiency of attribute-travel based support which gives information on the most suitable route for the user via smartphone

