SIP-adus Workshop 2017
on Connected and Automated Driving Systems

# Field Operational Tests

## FOT has started as of October from Dynamic Map

SIP-adus FOT focuses on automated driving system technology verifications on real environments including public road with various participants. The test is 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

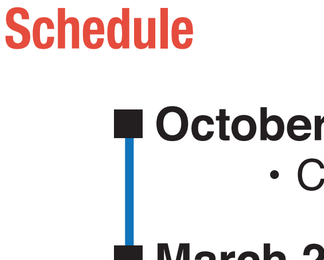
**October 2017 –**
- Commencement of FOT

**March 2018**
- Interim Report

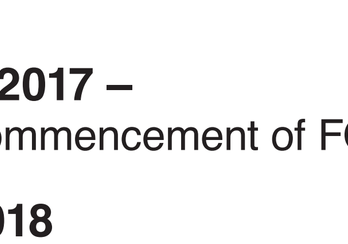
**March 2019**
- Final Report

## Test Sites

### Expressway



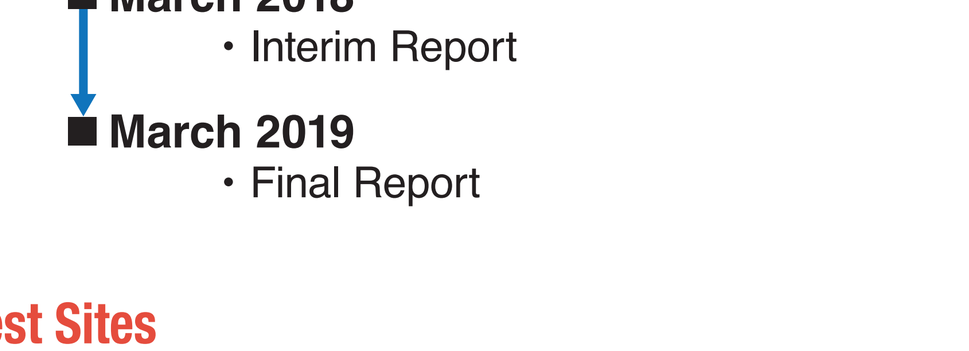
### Surface Streets



### Test Course

**Expressway: — and —**

Total 300km length routes where begins at newly developed test course of Japan Automobile Research Institute (JARI) and includes part of Metropolitan expressway, TOMEI expressway, SHIN-TOMEI expressway, and JOBAN expressway.




## Test Participants

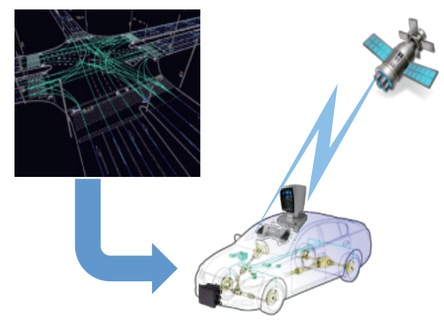
ALPINE Driving Mobile Media Innovation
BMW / MINI
BOSCH Invented for life
Calsonic Kansei
Continental
DAIHATSU The Power of Dreams
HONDA
mazda
Mercedes-Benz
MLT MEIJI LogiTech
MITSUBISHI ELECTRIC
名古屋大学 NAGOYA UNIVERSITY
NISSAN MOTOR CORPORATION
OMRON
Pioneer
埼玉工業大学 SAITAMA INSTITUTE OF TECHNOLOGY
SUZUKI
SUBARU
TOYOTA
VOLKSWAGEN AKTIENGESELLSCHAFT
ZMP

Alphabetical order

## Outline of FOT

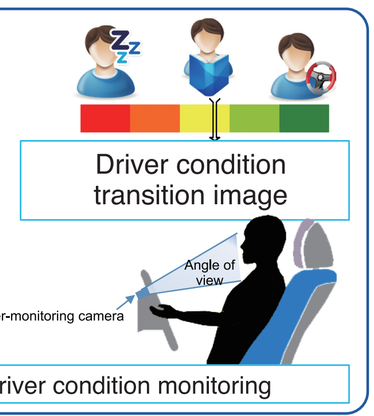
### Dynamic Map

- 3-D high resolution map data verification such as road geometry, environment and civil structures
- Verification of semi dynamic information such as traffic congestion and construction information
- verification of collecting, generating, and distributing dynamic map information



### HMI

- Measurement of a driver condition and driving state under actual driving environment 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




### Security

- Evaluation experiment of simulated cyber attack from the outside of the vehicle with a test equipment, in a radio wave darkroom, under actual driving environment
- Verification of defense functions for automated cars (using test courses and test beds)

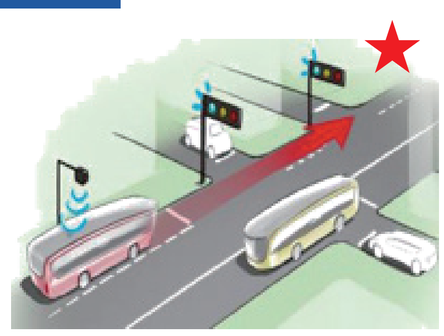
### Pedestrian Traffic Accident Reduction

- 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-based travel support which gives most suitable route information for the user via smart phone



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