

SIP-adus Activity Report

Large-Scale Field Operational Tests

Cross-Ministerial **S**trategic **I**nnovation **P**romotion Program
Innovation of **A**utomated **D**riving for **U**niversal **S**ervices

February 14, 2017

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<Translated Version>



Today's Topics

- SIP-adus's Objectives
- Purposes of the Large-Scale Field Operational Tests
- Technologies required for the Automated Driving System and Areas of Cooperation
- Large-Scale Field Operational Tests Outline
- Field Operational Tests Locations
- Outline of Theme-Specific Tests
- Schedule

SIP-adus's Objectives

Since 2014, SIP-adus has been conducting R&D focused on the following three objectives.

Early realization and popularization of an automated driving system

Reduction of accidents and elimination of congestion in road traffic

Realization of an advanced public bus system that is easy to use by the elderly and disable road users

- Progress toward deployment based on simultaneous pursuit of focused R&D and international cooperation



- Building of a national foundation for achieving national goals

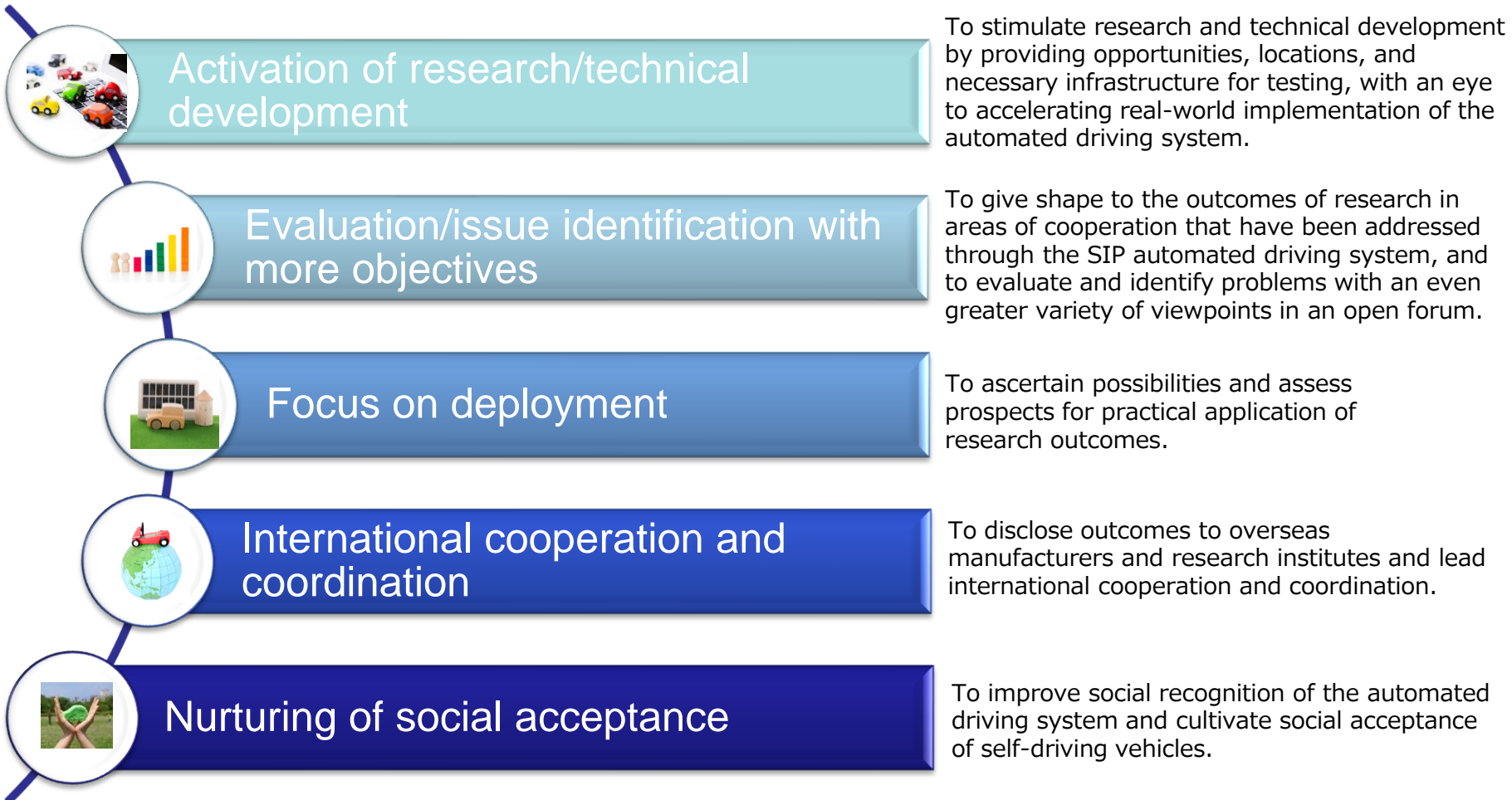


- Development in cooperation with the Tokyo Metropolitan Government, using the Tokyo Olympic and Paralympic Games as a milestone



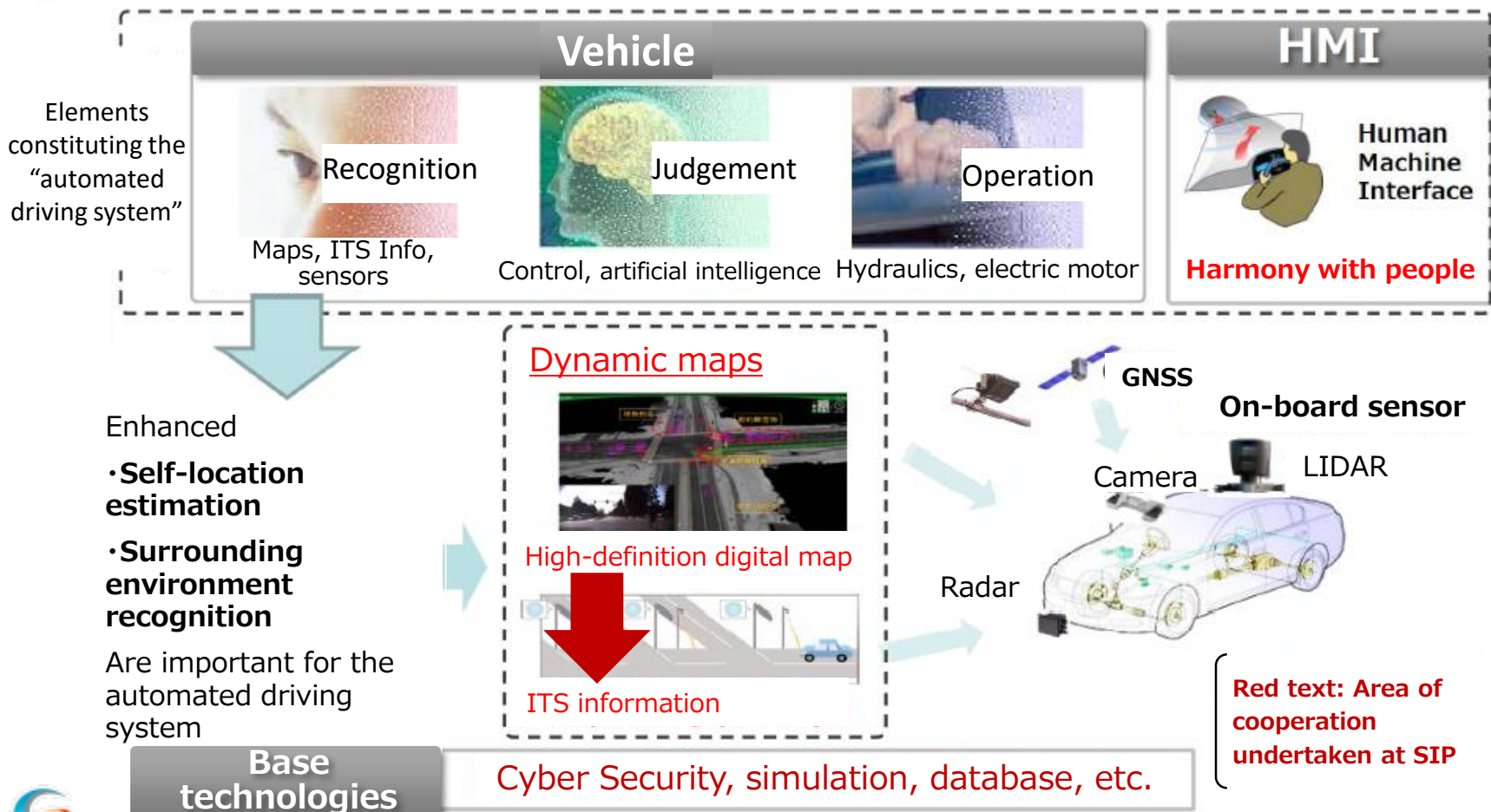
Purposes of the Large-Scale Field Operational Tests

Beginning in FY2017, SIP-adus will implement large-scale field operational tests for the following purposes



Technologies required for the Automated Driving System and Areas of Cooperation

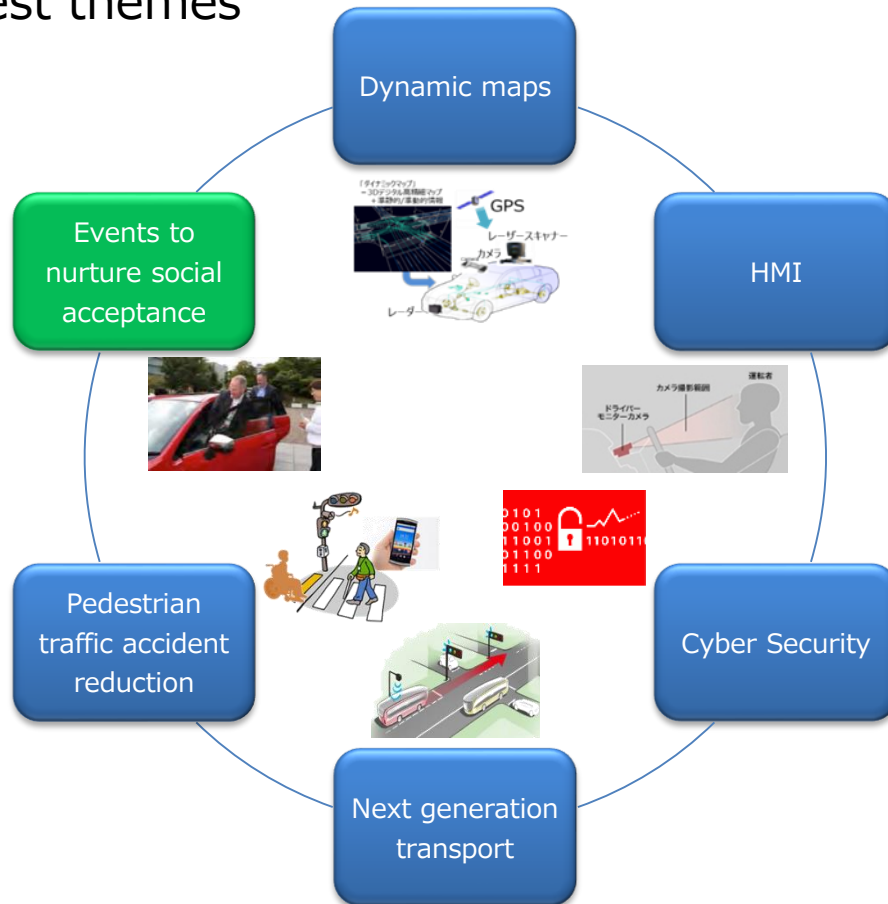
Realizing the automated driving system will require advanced self-location estimation and surrounding environment recognition by means of high-definition digital maps, ITS facilities, GPS, and other various technologies that are in addition to in-vehicle cameras and sensors. SIP-adus is conducting research and development in these areas with focus on areas of cooperation with industry.



Large-Scale Field Operational Tests Outline

SIP-adus is integrating policies and measures based on the results of R&D and studies conducted thus far; providing opportunities for open discussion through large-scale operational tests on public roads and promotion of international standardization and R&D, with focus on the 5 key issues + social acceptance-building events; ascertaining R&D and possibilities for deployment; and promoting international standardization.




Test themes



Envisioned participants

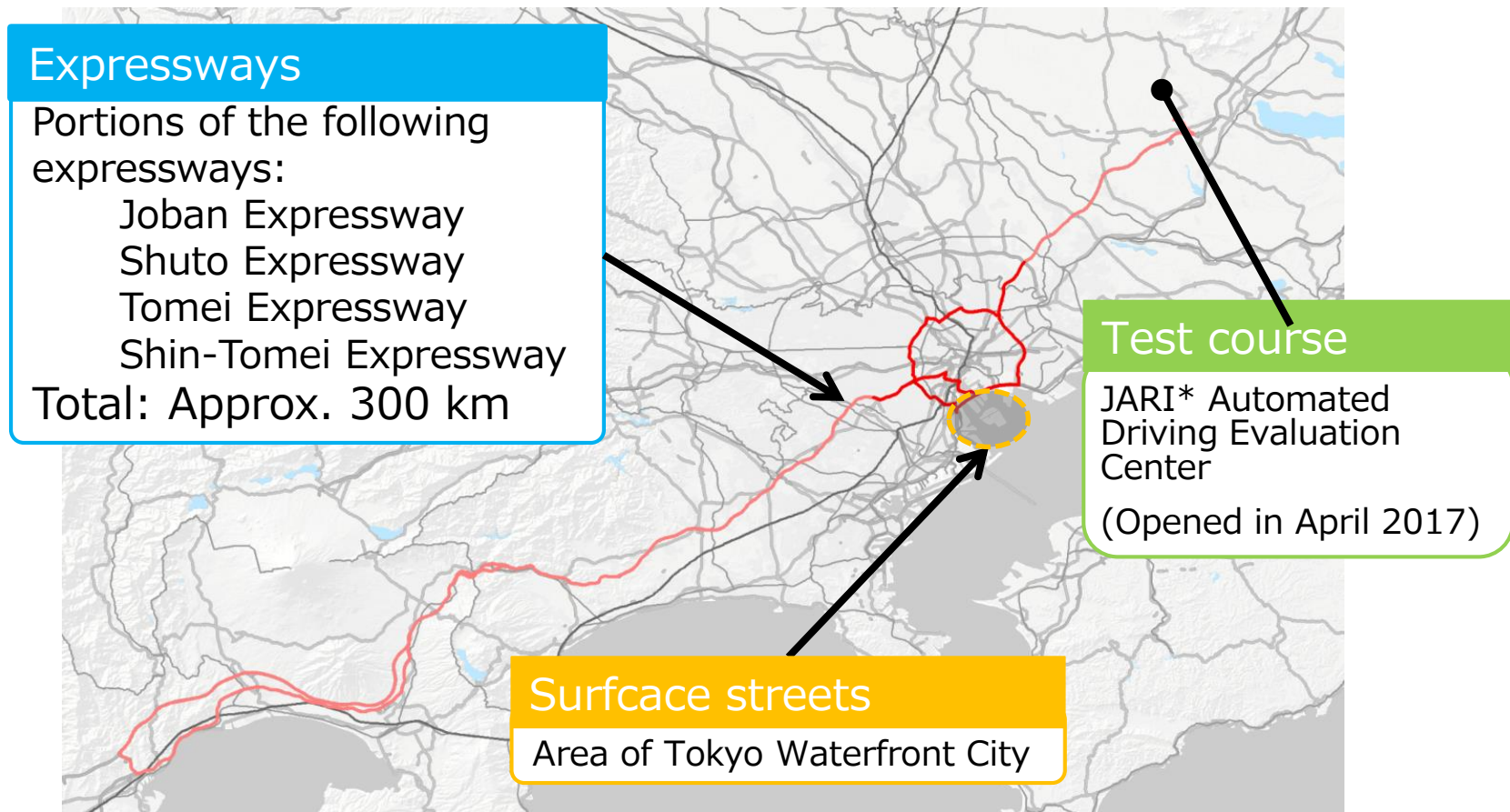
- Domestic and foreign OEMs/suppliers
- Universities/research institutes
- Concerned ministries and agencies/journalists/members of the general public

Test locations

-  **Expressways**
-  **Surface streets**
-  **Test course**

Field Operational Tests Locations

Expressways, Surface streets, Test course

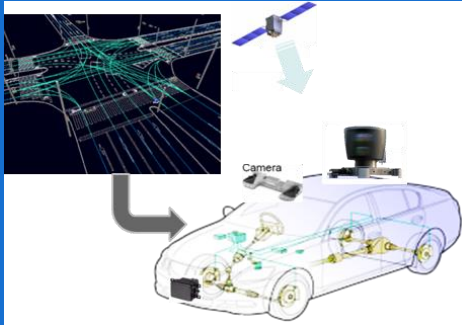


*JARI: Japan Automobile Research Institute

Outline of Theme-Specific Tests

5 key issues + events to nurture social acceptance

Dynamic maps



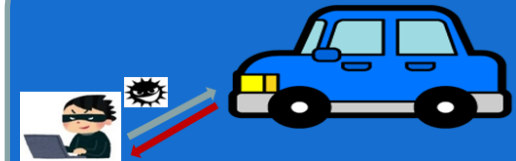
Final confirmation and international standardization for the commercialization of Dynamic Map Center functions

HMI



Formulation of HMI guidelines and international standardization for realization of automated driving Level 3.

Cyber Security



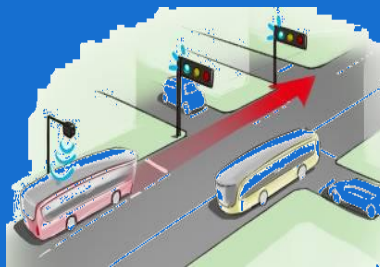
Establishment of evaluation methods and international standardization

Pedestrian traffic accident reduction



Development of technologies for measuring pedestrian location data and pedestrian terminal systems

Next generation transport



Verification of Next-Step ART* technology

Events to nurture social acceptance

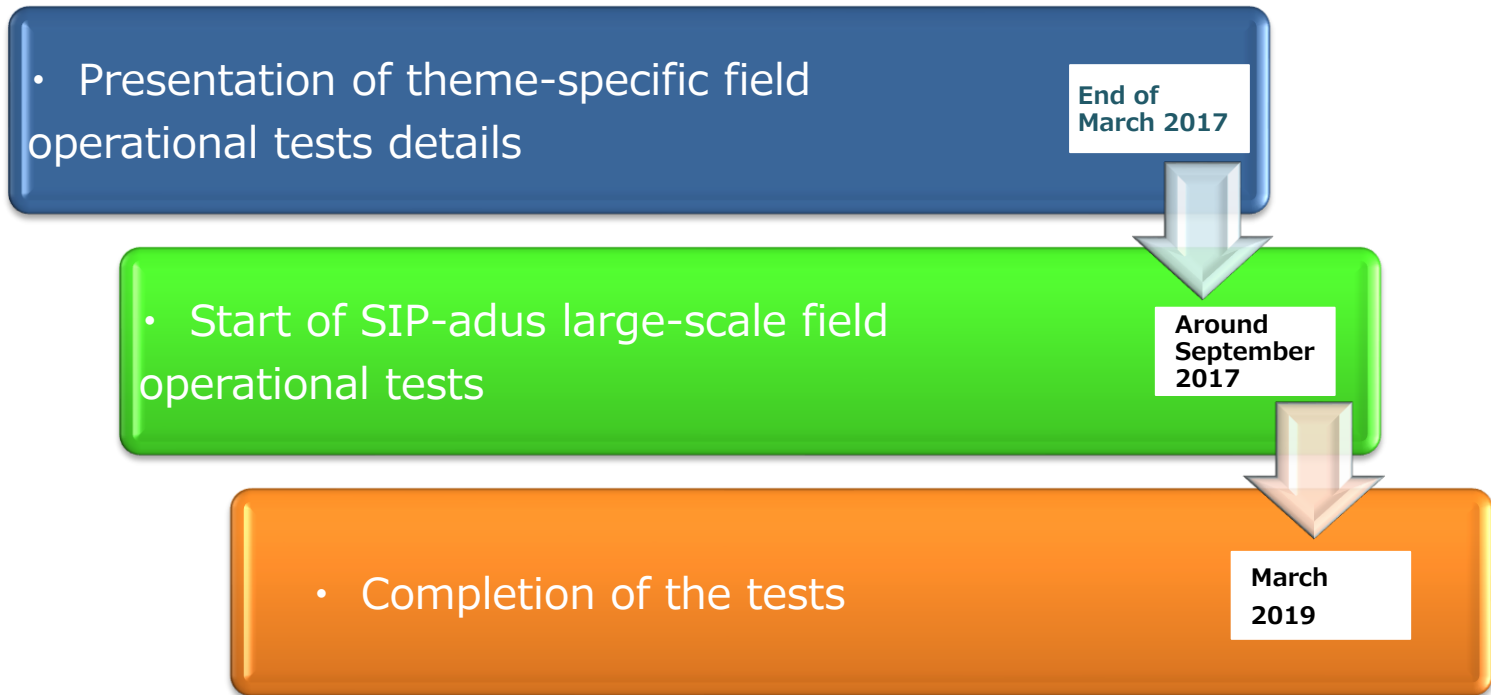


Promotion of correct understanding of automated driving technology and social initiatives

*ART: Advanced Rapid Transit

Schedule

Preparations are underway for a planned start of SIP-adus large-scale field operational tests in or around September 2017.



(Please note that the schedule may change.)

□ Updates on test details and participant recruitment information are provided through the SIP-adus website.

<http://www.sip-adus.jp/>



Mobility bringing everyone a smile!



Thank you for your kind attention.