SIP-adus Update

October 13, 2016

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SIP-adus International Cooperation WG





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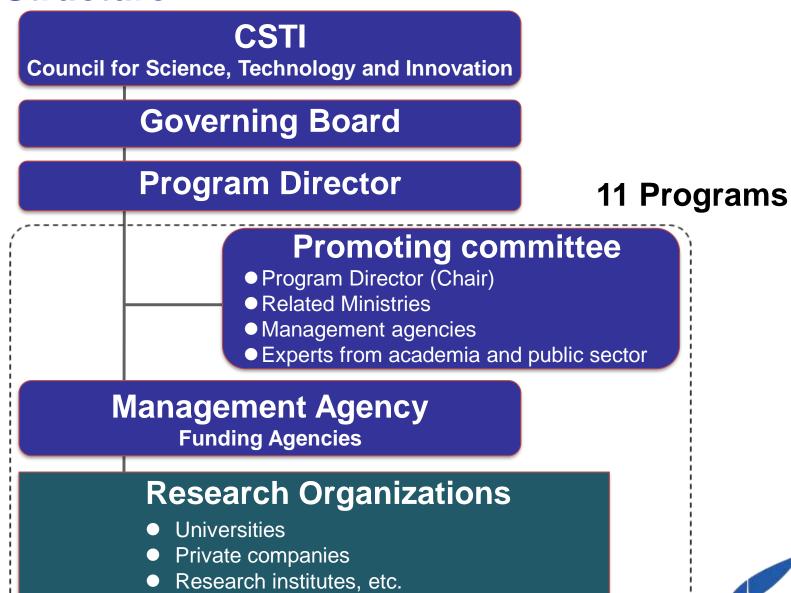
- SIP, SIP-adus
- Development Structure
- **■** Government Structure
- Development Focus Areas
- FOT from FY2017
- International Cooperation
- SIP-adus Workshop





Cross-Ministerial Strategic Innovation Promotion Program (SIP)

■ SIP Structure







SIP- adus

- **■SIP**
 - ➤ Cross-Ministerial Strategic Innovation Promotion Program



- ■SIP-adus: One of eleven SIP projects
 - ➤Innovation of Automated Driving for Universal Services

"SIP- adus"

Mobility Bringing Everyone a Smile -





Development Structure

■Three WGs under SIP-adus

Promoting Committee

Large Scale FOT TF System Implementation WG

◆Technology development

Next Generation Urban Transportation WG

Development and Deployment of NGUT

International Cooperation WG

- ◆Communication and Cooperation
- ◆Social acceptance

Dynamic Map Structuring TF

HMI TF





Government Structure

■Governments structures for SIP-adus

Cabinet Secretariat IT Strategic Headquarters

Cabinet Office
Council for Science,
Technology and Innovation

National Police Agency (NPA)

Road Traffic Safety

Ministry of Internal Affairs and Communications (MIC)

Communication Technology

Ministry of Economy, Trade and Industry (METI)

Economy and Industry

Ministry of Land, Infrastructure, Transportation and Tourism (MLIT)

Road Bureau
Road and
Infrastructure

Road
Transport
Bureau
Standards





Technology Developments

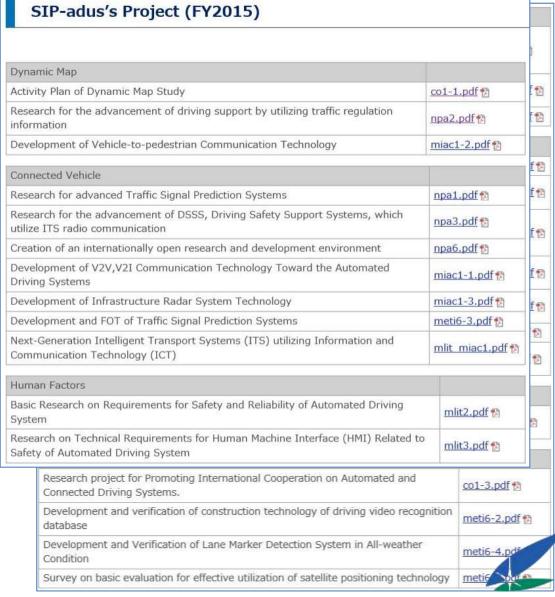
■20 to 30 projects per year



■ Budget

> FY 2014: \$25 M \times 100/\$

> FY 2015: \$23 M \times 100/\\$





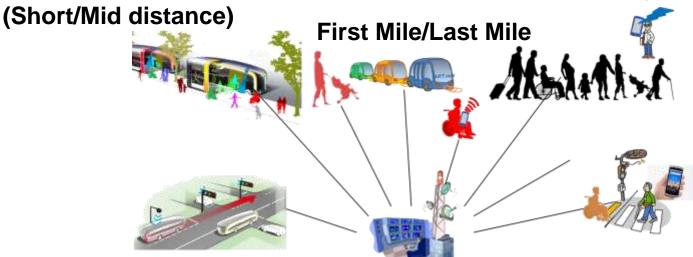
Technology Developments

- **■** Five Focused area
 - 1. Dynamic Map
 - 2. HMI

Advanced Rapid Transit

- 3. Information Security
- 4. Pedestrian Accident Reduction
- 5. Next Generation Transport









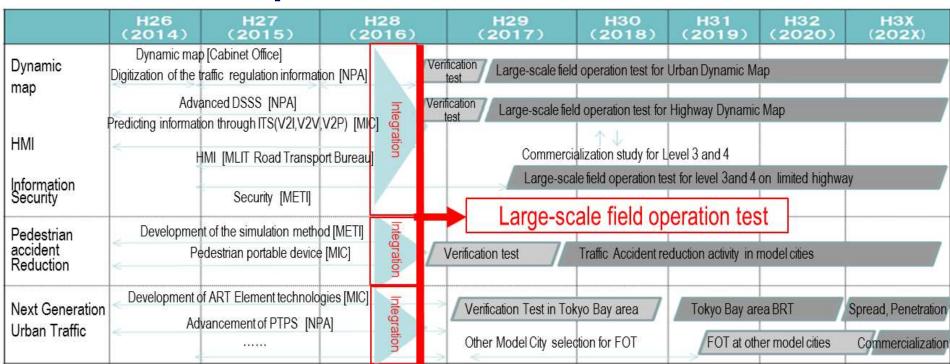


Dynamic Map



Field Operational Test from FY 2017

Accelerate use of development results and enhance implementation



- 1. Clarify technical and institutional issues with variety of OEMs
- 2. Acquire new viewpoints from various participations outside SIP-adus
- 3. Enhance International cooperation and harmonization
- 4. Build Social acceptance by involving ordinary citizens



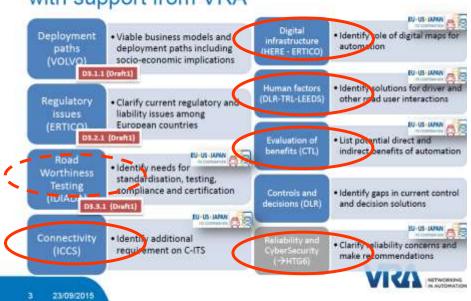
Agenda for International Cooperation

■ Selected based on EU and US research agenda

- >Experts are assigned for each agenda
- 1. Dynamic Map
- 2. Connected Vehicle
- 3. Human Factors

- 4. Impact Assessment
- 5. Next Generation Transport
- 6. Security





Enakang rechnores Digital Infrastructure Technology Research Communications Electronic Control Software Assurance & Human Cybersecurity Reliability Systems Factor Application Development CACC, Speed Harmonization, First/Last Mile and Transi Lateral Control and Platooning Operations Testing and Evaluation Interoperability **Testing Methods** Benefits Assessment Policy and Planning Analysis & Federal Program Mgmt & Transportation Standards Outreach Planning

Source: USDOT

Source : VRA





International Cooperation

■ Experts Discussions in Focused areas



- 1. Dynamic Map
- 2. Connected Vehicle
- 3. Human Factors
- 4. Impact Assessment
- Next Generation Transport
- 6. Security







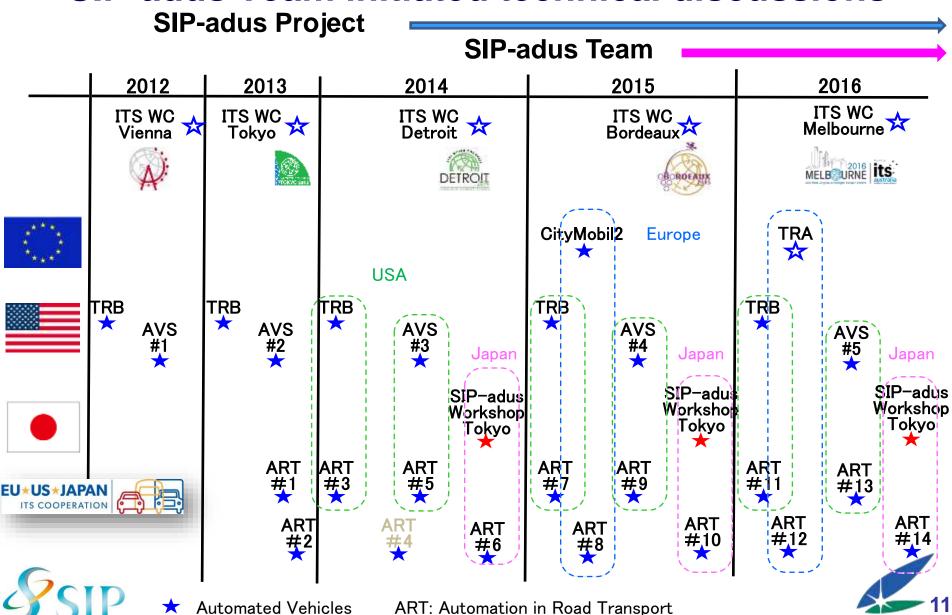






International Cooperation

■SIP-adus Team initiated technical discussions



2nd SIP-adus Workshop on Connected and Automated Driving Systems 2015

DATE: October 27-29,2015

Venue: Tokyo International Exchange Center

innovation of Automated Driving for Universal Services (SIP-adus)

-mobility bringing everyone a smile
http://www.sip-adus.jp/





Outline

Experts from Europe, Americas, and Asia-Pacific will share progress of related projects and discuss technical and non-technical challenges for deployment of Connected and Automated Driving System.

Topics

| • | |
|------------------|------------------------------|
| 1) Dynamic Map | 2) Connected Vehicles |
| 3) Security | 4) Impact Assessment |
| 5) Human Factors | 6) Next Generation Transport |



























Organizer:

Council for Science, Technology and Innovation,

Cabinet Office, Government of Japan

Date: November 15-17, 2016

Venue: Tokyo International Exchange Center

Topics:

- 1. Dynamic Map
- 2. Connected Vehicles
- 3. Human Factors
- 4.Impact Assessment
- 5. Next generation transport
- 6. Security



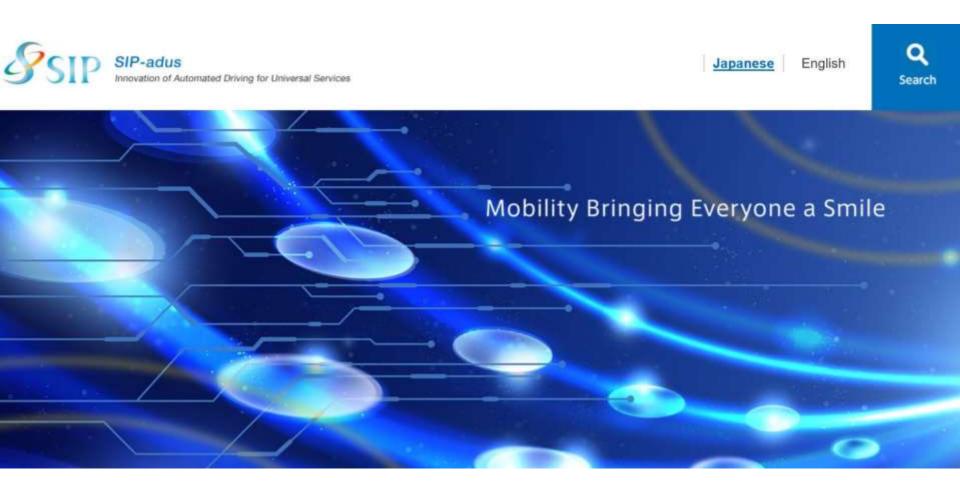


Special Information Session on SIP-adus

- Field Operation Tests starting 2017
- Achievement of SIP-adus activities



| | 11/15 | 11/16 | 11/17 | |
|-------|--|--|--|-----|
| AM | 9:00~10:00 Opening Session | 9:00~10:45 SIP-adus Report Session | 9:00~12:00 Breakout Workshop | |
| | 10:15~12:00 Regional Activities and FOTs | 11:00:~12:30 Impact Assessment, | (BW) | |
| Lunch | Poster Lunch Session | Poster Lunch Session | Lunch | ART |
| PM | 13:00~14:30 Dynamic Map | 13:30~15:00 Next Generation Transport | 13:00~15:00 Breakout Workshop (BW) | |
| | 14:45~16:15 Connected Vehicles | 15:45~17:30 Human Factors | 15:30~17:00 BW Presentation | |
| | 16:30~18:00 Security | | 17:00~17:30 Closing Session | |
| | 18:00~20:00 Guest Reception | 18:00~20:00 Guest Reception | 17:30~19:30 BW Reception | |



http://en.sip-adus.jp





END



