

SIP-adus Workshop 2021 Plenary Session Agenda

November 9 (Day 1)				November 10 (Day 2)			
Session	JST	CET	EST	Session	JST	CET	EST
Opening Session				Dynamic Map			
Regional Activities	9:00-10:40 17:30-19:10 *1:00-*2:40	1:00-2:40 9:30-11:10 17:00-18:40	#19:00-#20:40 3:30-5:10 11:00-12:40		9:00-10:30 17:30-19:00 *1:00-*2:30	1:00-2:30 9:30-11:00 17:00-18:30	#19:00-#20:30 3:30-5:00 11:00-12:30
Impact Assessment				Connected Vehicles			
	10:50-12:15 19:20-20:45 *2:50-*4:15	2:50-4:15 11:20-12:45 18:50-20:15	#20:50-#22:15 5:20-6:45 12:50-14:15		10:40-12:05 19:10-20:35 *2:40-*4:05	2:40-4:05 11:10-12:35 18:40-20:05	#20:40-#22:05 5:10-6:35 12:40-14:05
Service and Business Implementation / FOTs				Safety Assurance			
Human Factors	13:15-15:10 21:00-22:55 *4:30-*6:25	5:15-7:10 13:00-14:55 20:30-22:25	#23:15-1:10 7:00-8:55 14:30-16:25		13:10-14:45 20:50-22:25 *4:20-*5:55	5:10-6:45 12:50-14:25 20:20-21:55	#23:10-0:45 6:50-8:25 14:20-15:55
Japanese Government				Cybersecurity			
	15:25-16:40 23:10-*0:25 *6:40-*7:55	7:25-8:40 15:10-16:25 22:40-23:55	1:25-2:40 9:10-10:25 16:40-17:55		15:00-16:15 22:40-23:55 *6:10-*7:25	7:00-8:15 14:40-15:55 22:10-23:25	1:00-2:15 8:40-9:55 16:10-17:25
				Closing			
					16:15-16:20 23:55-24:00 *7:25-*7:30	8:15-8:20 15:55-16:00 23:25-23:30	2:15-2:20 9:55-10:00 17:25-17:30

* The time will be the next day / # The time will be the previous day

All session are streamed 3 times

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17:30-19:10 9:30-11:10 3:30-5:10

*1:00-*2:40 17:00-18:40 11:00-12:40

Opening Session Regional Activities

All session are streamed 3 times * the next day / # previous day

Opening Session

Welcome Speech

Takayuki Kobayashi

Minister of State for Science and Technology Policy
Cabinet Office

Kenneth M. Leonard

Director
Intelligent Transportation Systems Joint Program Office
The United States Department of Transportation

Rosalinde van der Vlies

Director
Clean Planet Directorate, Directorate-General for Research and Innovation
European Commission

Seigo Kuzumaki

Program Director for SIP-adus
Fellow
Advanced R&D and Engineering Company, Toyota Motor Corporation

Keynote Speech

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Opening Session Regional Activities

Moderator : Manabu Umeda

Collaborative Research Coordinator for SIP-adus
Project researcher, Mobility innovation collaborative
research organization (UTmobI)
The University of Tokyo

Regional Activities

Session Abstract	In this session, speakers from each government like US, Europe, Japan, etc. will introduce latest research activities and topics regarding automated driving, including keynote speech from executives.	
Opening	Introduction for Regional Activities Session	Moderator : Manabu Umeda
Presentation	Overview of United States Department of Transportation Automated Driving Research	Robert Heilman Director, Office of the Assistant Secretary for Research and Technology The United States Department of Transportation
	Connected, Cooperative and Automated Mobility – the EU perspective	Ludger Rogge Policy Officer, Directorate-General for Research and Innovation European Commission
	Research on autonomous driving in Germany	Reinhold Friedrich Deputy Head of Division, Electronics and Autonomous Driving Federal Ministry of Education and Research
	Development of ICV and Smart Mobility in China	Keqiang Li Professor, School of Vehicle and Mobility Tsinghua University
Closing	Closing for Regional Activities Session	Moderator : Manabu Umeda

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*2:50-*4:15 18:50-20:15 **12:50-14:15**

Impact Assessment

Moderator : Takashi Oguchi

Director, Advanced Mobility Research Center
Institute of Industrial Science
The University of Tokyo

All session are streamed 3 times * the next day / # previous day

Session Abstract	Diffusion of automated driving vehicles (ADs) will help to reduce traffic accidents, alleviate traffic congestion, resolve the driver shortage, and resolve other social problems. On the other hand, ADs are necessary to be installed with adequate consent by people and society. In this session, experts will address views, issues and challenges related to social impact of AD technologies.	
Opening	Introduction for Impact Assessment Session	Moderator : Takashi Oguchi
Presentation	Analysis of automated driving diffusion : Diffusion paths into the German car market	Christian Winkler Head of Department, Institute of Transport Research German Aerospace Center (DLR)
	Assessment of Socioeconomic Impacts of Automated Driving	Hiroaki Miyoshi Professor, Graduate School of Policy and Management Doshisha University
	Social Acceptance of Automated Driving Empirical Insights and First Lessons	Torsten Fleischer Deputy Director Institute for Technology Assessment and Systems Analysis (ITAS) Karlsruhe Institute of Technology (KIT)
	Social acceptance of Autonomous Vehicles A qualitative analysis of Japanese newspaper articles on AVs	Ayako Taniguchi Professor, Systems and Information Engineering University of Tsukuba
	Using System Dynamics for Automated Vehicle Impact Assessment	Scott Smith Operations Research Analyst, Volpe Center The United States Department of Transportation
Closing	Closing for Impact Assessment Session	Moderator : Takashi Oguchi

SIP-adus Workshop 2021 Plenary Session Agenda

November 9 (Day 1)

Service and Business Implementation / FOTs Human Factors

Moderator : Yurie Toyama

Researcher, Smart Region Division
Mitsubishi Research Institute

Moderator : Satoshi Kitazaki

Director
Human-Centered Mobility Research Center (HCMRC)
National Institute of Advanced Industrial Science and
Technology (AIST)

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13:15-15:10 5:15-7:10 #23:15-1:10

21:00-22:55 **13:00-14:55** 7:00-8:55

*4:30-6:25 20:30-22:25 **14:30-16:25**

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Session Abstract

Service and Business Implementation / FOTs

In this session, we will discuss how we can think about the feasible business model for automated driving and how to integrate autonomous driving into local transport.

Human Factors

Public transport services using automated shuttles and busses are expected to be a key solution to the social problem of limited mobility in rural areas and have been tested in fields in various countries. High level safety is essential for social implementation and wide spread of the services. In automated mobility services, both system and service are designable. The larger degree of freedom in design is expected to bring breakthroughs for the implementation but may raise new risks due to the complexity. In this session, human factor challenges for safety of the automated mobility services in various countries will be shared.

Speakers are listed on the next page

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Service and Business Implementation / FOTs Human Factors

Moderator : Yurie Toyama

Mitsubishi Research Institute

Moderator : Satoshi Kitazaki

National Institute of Advanced Industrial Science and
Technology (AIST)

Opening	Introduction for the SBI/FOTs and HF session	Moderator : Yurie Toyama
Presentation	Shuttles - from early pilots to commercial deployment	Jan Hellåker Chairman Drive Sweden
	UNICARagil Disruptive Modular Architecture for Agile, Automated Vehicle Concepts	Lutz Eckstein Director, Institute for Automotive Engineering (ika) RWTH Aachen University
	HEAT - Hamburg Electric Autonomous Transportation	Katrin Schwager Project Manager, Innovation and Change Hamburger Hochbahn AG
	AIST's efforts toward social implementation of automated driving mobility services	Shin Kato Prime Senior Researcher, Human-Centered Mobility Research Center National Institute of Advanced Industrial Science and Technology (AIST)
	Automated Driving Systems for Rural America	Daniel McGehee Professor and Director, National Advanced Driving Simulator and Dept of Industrial and Systems Engineering, University of Iowa
	Automated Driving Systems	Timothy Haile Executive Director, All Departments Contra Costa Transportation Authority
	East Contra Costa County(ECCC) Dynamic Personal Micro Transit (DPMT) PROJECT	Habib Shamskhov President, Engineering/Program Management/Technology Facilitation Advanced Mobility Group
	INCLUSIVE DESIGN ACROSS THE TRAVEL CHAIN	Jordana Maisel Assistant Professor, Urban and Regional Planning University at Buffalo, State University of New York
Closing	Closing for the SBI/FOTs and HF session	Moderator : Satoshi Kitazaki

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 23:10-0:25 **15:10-16:25** 9:10-10:25
 *6:40-7:55 22:40-23:55 **16:40-17:55**

Japanese Government

All session are streamed 3 times * the next day / # previous day

Session Abstract	In this session, their various attempts related to automated driving, ITS as well as Information and Communication technologies will be introduced by the contributing Japanese government ministries and agencies.	
Presentation	National Research Project on Automated Driving to Realize Society 5.0 - SIP-adus in Japan -	Chie Fukushima Director for SIP-adus, Secretariat of Science, Technology and Innovation Policy Cabinet Office
	Public-Private ITS Initiative / Roadmaps Past initiatives and the basic concept of the future ITS Initiative	Takahiro Suzuki Senior Planning Officer Digital Agency
	Police Efforts toward Realization of Automated Driving	Kenichi Ito Director, Automated Driving Planning Office National Police Agency
	MIC's Initiatives for Automated Driving Society	Shinji Ide Director of the New Generation Mobile Communications Office Radio Department, Telecommunication Bureau Ministry of Internal Affairs and Communications
	METI's effort to realizing autonomous driving	Shigekazu Fukunaga Director, ITS and Autonomous Driving Promotion Office Automobile Division, Manufacturing Industries Bureau Ministry of Economy, Trade and Industry
	Automated Driving Services in Rural Areas	Koichi Sakai Director, ITS Policy and Program Office Ministry of Land, Infrastructure, Transport and Tourism
	Efforts of Road Transport Bureau, MLIT For the Realization of Automated Driving	Yoshitaka Tada Director, Policy planning office for Automated Driving Technology Engineering and Environmental Policy Division Road Transport Bureau Ministry of Land, Infrastructure, Transport and Tourism

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17:30-19:00 **9:30-11:00** 3:30-5:00

*1:00-*2:30 17:00-18:30 **11:00-12:30**

Dynamic Map

Moderator : Satoru Nakajo

Visiting Researcher

Center for Spatial Information Science

The University of Tokyo

All session are streamed 3 times * the next day / # previous day

Session Abstract	This session is to share the world latest examples of dynamic contents distribution/exchange with Dynamic Map and the updates, and to discuss the direction for further international collaborations and the possibility for the utilization of latest technologies.	
Opening	Introduction for Dynamic Map Session	Moderator : Satoru Nakajo
Presentation	ADASIS and SENSORIS	Jean-Charles Pandazis ADASIS & SENSORIS coordinator, Innovation & Deployment European Road Transport Telematics Implementation Coordination Organisation-Intelligent Transport Systems & Services Europe (ERTICO-ITS Europe)
	OADF – status update	Andras Csepinszky Speaker, Steering Committee Open Auto Drive Forum
	Fully automated mobility with location intelligence	Akihiro Takahashi VP Sales & Japan Country Manager, Sales HERE Technologies
	Dynamic Map Platform Co. Current Initiatives and Future Developments	Hiroyuki Inahata Representative Director, President Dynamic Map Platform Co., Ltd.
	FOTs in the Tokyo Waterfront area FY2019 to 2020 Results and Overview of Implementation in FY2021	Yoshiaki Tsuda Chief Engineer, Spatial Information Systems Engineering Section/Information Technology Systems Department KAMAKURA WORKS, MITSUBISHI ELECTRIC CORPORATION
Closing	Closing for Dynamic Map Session	Moderator : Satoru Nakajo

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19:10-20:35 **11:10-12:35** 5:10-6:35

*2:40-*4:05 18:40-20:05 **12:40-14:05**

Connected Vehicles

Moderator : Norifumi Ogawa

Staff Manager, Technical Research Dept.
Mazda Motor Corporation

All session are streamed 3 times * the next day / # previous day

Session Abstract	The use of connectivity for automated driving and Advanced Safe Driving Systems is being considered in each regions of the world, but it has not yet been put into full-scale practical use. We will share trends regarding cooperative driving automation in each region and consider issues.	
Opening	Introduction for Connected Vehicles Session	Moderator : Norifumi Ogawa
Presentation	Trends in US V2X and Cooperative Automation	John Kenney Director, InfoTech Labs Toyota Motor North America
	V2X FOR TRANSPORTATION SAFETY	Tom Schaffnit Operations Research Analyst, Volpe National Transportation Systems Center The United States Department of Transportation
	C-ITS in Europe	Niels Peter Skov Andersen CEO Anemone Technology
	C-ITS THE EUROPEAN INFRASTRUCTURE IS PREPARED TO SUPPRT CONNECTED VEICLES	Martin Boehm Technical Director AustriaTech - Federal Agency for technological Measures Ltd.
	SIP-adus FOTs in Tokyo waterfront area - Toward the realization of cooperative autonomous driving-	Masato Minakata Grand Master, R&D and Engineering Management Div. Toyota Motor Corporation
	Research of V2X communication for Cooperative Driving Automation	Norifumi Ogawa Staff Manager, Technical Research Dept. Mazda Motor Corporation
Closing	Closing for Connected Vehicles Session Moderator : Norifumi Ogawa	

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20:50-22:25

12:50-14:25

6:50-8:25

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20:20-21:55

14:20-15:55

Safety Assurance

Moderator : Satoshi Taniguchi

Safety Assurance Lead

Automated Driving & Advanced Safety System

Development

Toyota Motor Corporation

All session are streamed 3 times * the next day / # previous day

Session Abstract	The virtual environment is an indispensable technology for the realization of security. So as to accelerate the expansion of virtual testing technology for safety assurance, the international cooperation on the requirements for the virtual environment and the method of validation should be enhanced. The virtual environment and evaluation methods are discussed in this session in order to figure out how to proceed with future collaboration and harmonization.	
Opening	Introduction for Safety Assurance Session	Moderator : Satoshi Taniguchi
Presentation	We make AUTONOMOUS MOBILITY happen.	Frank Gruson Head of Advanced Engineering Radar. Radar Concept Development Continental / ADC Automotive Distance Control Systems GmbH
	Simulation toolchain for safety assurance with focus on automotive radar	Matthias Hein Director, Thuringian Center of Innovation in Mobility Technische Universität Ilmenau
	Driving Intelligence Validation Platform for Automated Driving Safety Assurance	Hideo Inoue Director, Advanced Vehicle Research Institute Kanagawa Institute of Technology
	A scenario database linked to a virtual platform for automated driving safety development and evaluation purposes	Jacobo Antona-Makoshi Senior researcher and Group manager, Autonomous Driving Research Department, Japan Automobile Research Institute
	VVM - Towards a comprehensive framework for AD safety assurance	Roland Galbas Project Lead, ADAS System Development Robert Bosch GmbH
	An Overview of the Safety Case Framework	Chan Lieu Senior Manager, Safety Policy Aurora
Closing	Closing for Safety Assurance Session	Moderator : Satoshi Taniguchi

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22:40-23:55

14:40-15:55

8:40-9:55

*6:10-*7:25

22:10-23:25

16:10-17:25

Cybersecurity

Moderator : Shigeru Uehara

Chair of Governing Board, J-Auto-ISAC
Project General Manager, E/E Architecture
Development Div., Toyota Motor Corporation

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Session Abstract	It is expected that UN regulation will soon be adopted to detect and respond to cyber attacks, but it is not easy for each OEM to determine and implement the optimum detection performance level for their communication system. In this research, focusing on in-vehicle IDS / IDPS, we will consider the evaluation method for selecting the optimum IDS/IDPS for each OEM's communication system, technical requirements for the initial response/recovery action when cyber attacks detected and the basic thought of establishing V-SOC which can be said to be a competitive area for each OEM.	
Opening	Introduction for Cybersecurity Session	Moderator : Shigeru Uehara
Presentation	Building VSOC in a connected ECO system of IDS and threat intelligence	Nishant Khadria Director, Cyber Emerging Technologies Deloitte
	New Cyberattack and Proactive Survey Methodologies for Automotive Industry	Shinichi Kan Associate, Technology Consulting PwC Consulting Japan
	Implementation of Cybersecurity Regulation - Requirements to IDS -	Shigeyuki Kawana Chair, Electronics Platform sub-committee Japan Automobile Manufacturers Association, Inc.
	Misbehavior Detection and Prevention in Connected, Automated Driving	Frank Kargl University Professor, Institute of Distributed Systems Ulm University
	Novel Capabilities Required for Intrusion Detection Systems for Automated Driving Vehicles	Tsutomu Matsumoto Professor, Faculty of Environment and Information Sciences Yokohama National University
Closing	Closing for Cybersecurity Session	Moderator : Shigeru Uehara

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23:55-24:00	15:55-16:00	9:55-10:00
*7:25-*7:30	23:25-23:30	17:25-17:30

Closing

All sessions are streamed **3 times** * the next day / # previous day

Closing Remarks

Chie Fukushima

Director for SIP-adus, Secretariat of Science, Technology and Innovation Policy
Cabinet Office