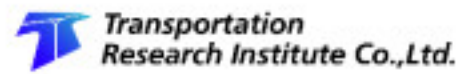




BỘ KHOA HỌC VÀ CÔNG NGHỆ
HỌC VIỆN KHOA HỌC, CÔNG NGHỆ VÀ ĐỔI MỚI SÁNG TẠO



TRUNG TÂM DỊCH VỤ
KHOA HỌC VÀ CÔNG NGHỆ



Transportation
Research Institute Co.,Ltd.

Some information about the organizer of the work shop:

Vietnam Institute Science, Technology and Innovation is a non-business organization serving the state management of the Ministry of Science and Technology, established with the mission of being a prestigious address for research in Vietnam about scientific research, education and training and provision of science, technology and innovation services.

Innovation and Technology Service Center is a unit under the Institute, assigned as the focal point to deploy service activities in science, technology and innovation: technology incubation, S&T enterprises and business incubation, innovative start-ups; promote the application and transfer of technology; promoting protection and promotion of ownership rights for intellectual property, etc. Currently, the Center has been coordinating with many domestic and foreign organizations and units to implement cooperation, focusing on new fields of science and technology, anticipating new development trends of society.

Scientific conferences are a form of sharing and spreading knowledge actively implemented by the Center in recent years. Through seminars and talks with the participation of domestic and foreign enterprises, research institutes and universities, the Center wishes to become an effective resource connection point, thereby strongly promoting the value of goods and services, value of science, technology and innovation to serve real life.



A. Overview Introduction

Intelligent Transportation System – ITS or Smart Mobility is a field of great interest in Vietnam as well as the world. The concepts, applicability and practical needs of applying smart transportation systems in Vietnam have been clearly stated in the socio-economic development orientations of the country in general as well as the transportation in particular. However, the reality shows that the achieved results are not really commensurate with the potential and meaning of the system, especially in the context that the trend of digital transformation is taking place strongly in all industries and fields.

The emergence and rapid development of many advanced and modern technologies in the world have changed the approach to solving transport network management problems. Designs, requirements and technical standards for smart transportation systems need to be updated in accordance with reality, ensuring interoperability, data integration with other fields, and moving towards digital and smart society. Previously, in Vietnam, intelligent transportation systems were mainly interested in highway management applications. However, the reality shows that not only the highway network, but also other components of the transport network such as urban traffic, inter-provincial traffic... also need to be considered and upgraded through the application of the intelligent transportation system. In addition, many new technologies for interaction between vehicles, traffic infrastructure and road users have appeared and are widely applied. The method of transmitting and connecting information between traffic participants has also been strongly upgraded based on a new technology platform. Therefore, it is necessary to have discussions and studies on the overall architecture and components of the intelligent transportation system, consider application models in the world and propose solutions and development roadmaps of intelligent transportation system in Vietnam.

From those urgent needs, Innovation and Technology Service Center - Vietnam Institute of Science, Technology and Innovation - Ministry of Science and Technology cooperated with domestic and international experts from Japan, India, Philippines to hold international work shop: "echnologies/Infrastructures required to realize Smart Mobility and the next generation transportation environment". The work shop is expected to be an open forum for domestic and foreign experts to discuss and share about new technology trends in the field of intelligent transportation in the world, and at the same time give opinions and suggestions about the possibility of deployment in Vietnam in the future.

B. Purpose:

- Introducing a number of technology trends, new technology solutions in the field of new generation transportation (5G technology, V2X, Smart Mobility,...)
- Presenting experience in deploying new generation transportation technologies in some countries around the world.
- Current barriers are encountered in the implementation of new generation transportation technology in Vietnam (legal framework, policies, technical standards, etc.)
- Overview of resources to deploy new transportation technology solutions in Vietnam.

C. Expected benefits brought by the workshop:

- Opportunity to exchange, learn about technology trends, experience in deploying smart transportation systems in the world.
- Opportunities to expand networks, find partners to jointly develop projects, and business opportunities when developing smart transportation solutions in Vietnam.
- Opportunity to receive information on Vietnam's transportation development strategy in the next period in general and requirements for the application of smart transportation systems to Vietnam in particular.

TIMELINE

08:30 - 09:00	Registration	
	AGENDA	SPEAKER
09:00 - 09:20	Welcoming speech	Represent of Vietnam Institute of Science, Technology and Innovation
09:20 - 09:40	Overview of the intelligent transport system (ITS) in Vietnam and some key development trends in the future	Prof. Le Hung Lan - University of Transport and Communication Mr. Tran Vu Tuan Phan - Vietnam Institute of Science Technology and Innovation (VISTI)
09:40 - 10:00	Smart Pole using V2X technology	Dr. Yoshiharu Doi - Chairman of Smart Pole Working Group - Intelligent Transportation System of Japan (ITS Japan)
10:00 - 10:20	Transportation Soft Infrastructure for Data Driven Study using ICT/V2X	Mr. Tetsuya Sato - Director / Principal Research Engineer - Transportation Research Institute Co.,Ltd (TRIC)
10:20 - 10:30	Question and Answer	
10:30 - 10:50	Development strategy on Traffic network of Vietnam to 2030 and the role of Smart mobility	Dr. To Nam Toan - Director General of Department of Science, Technology, Environment and International Cooperation - Directorate for Roads of Vietnam (DRVN)
10:50 - 11:10	Smart Mobility realization by SMOG	Mr. Sumio Tanaka - President of Zenmov Co.,Ltd.
11:10 - 11:30	Question and Answer	
11:30 - 13:30	Lunch Time	
13:30-13:50	Current Status of V2X in the Philippines	Dr. Adrian Valdez - University of the Philippine, PHILIPPINE
13:50-14:10	Current Status of deployment of V2X in INDIA	Mr. Malleth Boggarapu - Zero-Sum ITS Solutions, INDIA
14:10-14:30	V2X Study of ASEAN	Dr. Ir. Arif Wismadi - Gadjah Mada University, INDONESIA
14:30-14:50	Current status of ITS on Vietnam's expressway network and standardization for Smart mobility	Mr. Bui Trinh - General Director of VietNam Digital Transportation JSC - Viettel
14:50-15:10	Smart Mobility for a better Quality of Life	Mr. Le Yen Thanh - CEO of Phenikaa MaaS - Phenikaa corporation
15:10-15:20	Applications of Machine Vision and Artificial Intelligence in Intelligent Transportation System	Mr. Dang Quang Thach - NACENTECH
15:20-15:30	Question and Answer/ Discussion	
15:30	Closed	

***English is preferred language in the workshop*



MINISTRY OF SCIENCE AND TECHNOLOGY
VIETNAM INSTITUTE OF SCIENCE, TECHNOLOGY AND INNOVATION



LIST OF SPEAKER AT WORKSHOP



Dr. YOSHIHARU DOI
Intelligent Transportation System of
Japan (ITS Japan)



Mr. TETSUYA SATO
Director / Principal Research Engineer –
Transportation Research Institute Co.,Ltd
(TRIC)



Mr. SUMIO TANAKA
Zenmov Co.,Ltd.



Dr. ADRIAN VALDEZ
University of the Philippine, Philip-
pines



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LIST OF SPEAKER AT WORKSHOP



Mr. MALLESH BOGGARAPU
Zero-Sum ITS Solutions, INDIA



TS. Ir. Arif Wismadi
Đại học Gadjah Mada, INDONESIA



Pro. LE HUNG LAN
University of Transport and Communi-
cation



Mr. TRAN VU TUAN PHAN
Vietnam Institute of Science
Technology and Innovation (VISTI)



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LIST OF SPEAKER AT WORKSHOP



Dr. TO NAM TOAN

Director of Department of Science, Technology, Environment and International Cooperation - Directorate for Roads of Vietnam (DRVN)



Mr. BUI TRINH

General Director of VietNam Digital Transportation JSC (VDTC) - Viettel



Mr. LE YEN THANH

CEO of Phenikaa MaaS – Phenikaa Cooperation



Mr. DANG QUANG THACH
NACENTECH



MINISTRY OF SCIENCE AND TECHNOLOGY
VIETNAM INSTITUTE OF SCIENCE, TECHNOLOGY AND INNOVATION



LIST OF PARTICIPANTS

INTERNATIONAL ORGANIZATIONS	
1	ITS Japan
2	Embassy Japan
3	University of the Philippine, PHILIPPINES
4	Gadjah Mada University, INDONESIA
5	Zero-Sum ITS Solutions, INDIA
6	Zenmov Co.,Ltd.
6	Transportation Research Institute Co., Ltd. (TRIC)
7	Aus4Transport
8	Aus4Innovation
MANAGEMENT AGENCIES	
1	Ministry of Transport:
	Department of Science and Technology
	Center of Infonation Technology
	Department of Science and Technology
	Department of Transport Infrastructure
2	Directorate for Roads of Vietnam
	Department of Science, Technology, Environment and International Cooperation
	Department of Traffic Safety
	Department of road management and maintenance
3	Ministry of Science and Technology
	Department of High Technology
	Department of International Cooperation

INSTITUTES AND SCHOOLS

1	University of Transport and Communication
	Faculty of Electrical and Electronic Engineering
	Faculty of Civil Engineering
	Department of Highway and Traffic Engineering
	Department of urban Transport and Coastal Engineering
	Department of Highway and Traffic Engineering
	Department of Public Transport Works and Environmental Engineering
	Department of Traffic Control and Automation
	Department of Civil Engineering
2	Institute of Planning and Transportation Engineering
3	University Of Transport Technology
4	Phenikaa University
5	VNU University of Engineering and Technology
6	Vietnam Japan University
7	Institute of Transport Science and Technology
8	Transport Development and Strategy Institute
9	National Center for Technological Progress
10	Central Institute for Economic Management
11	Vietnam Institute of Science Technology and Innovation

ASSOCIATIONS

1	Vietnam Union of Science and Technology Associations
2	National Traffic Safety Committee
3	Department of Transport
4	Vietnam Bridge and Road Association
5	Vietnam Automobile Transportation Association
6	Vietnam Automation Association

ENTERPRISES

1	VIETNAM DIGITAL TRANSPORT JOINT STOCK COMPANY
2	Vietnam Expressway Corporation
3	Vinbigdata Joint Stock Company
4	Tri Nam Group
5	INNOVATIVE TECHNOLOGY DEVELOPMENT CORPORATION