

**The 17th JOINT WORKSHOP HELD IN BANDUNG, JAKARTA,
Indonesia
3rd November to 4th November, 2016**

The 17th Joint Workshop for the technology and policy research of Road and Transport was held in, Bandung, Jakarta, Indonesia by NILIM, Japan and IRE, Indonesia* on 3rd November to 4th November 2016.

(* IRE, Indonesia : Institute of Road Engineering, Indonesia

The activities of 17th Joint Workshop are as follows;

- 1) Discussion on Road Environment
- 2) Site visit on Bandung Command Centre (BBC)
- 3) Site visit on Bus Rapid Transit (BRT)

1. Contents

• Discussion on Road Environment

In the morning of 3rd November 2016, IRE and NILIM reported the research result each other and shared past efforts.

IRE reported the survey result of CO₂ emission by 3 type exhaust amount (110cc, 125cc, 150cc) motorcycles on the regular route in Bandung city.

NILIM reported some research results as below:

- 1) The survey results of CO₂ emission by motorcycle and 4-wheel vehicle in Tokyo.
- 2) The hearing report for the manufacturer of motorcycle.
- 3) The estimation of the CO₂ emission reduction by switching the mode from 4-wheel vehicle to motorcycle.

In addition, IRE and NILIM decided to submit the paper to the 12th EASTS (Eastern Asia Society for Transportation Studies) in September 2017, as the final omnibus of joint research. They discussed the contents of the paper and confirmed that it is written together.

They confirmed that the research of Road Environment will complete by the presentation at the 12th EASTS and a next theme will be discussed continuously.



The 17th Workshop



The view of Bandung in the morning

• Site visit on Bandung Command Centre (BBC)

In the afternoon of 3rd November 2016, IRE and NILIM visited Bandung Command Centre (BBC) which was built in 2015 for the progress of Bandung to the smart city. Then they were explained by staffs as below:

- 1) BBC is watching traffic condition, road construction, etc. by many CCTV placed around the city.
- 2) BBC has the SOS alert. When emergency happened, citizens can call BBC by the application of smartphone, then the police or fire brigade rush to the scene.



Bandung Command Centre



Explanation by the staff

• Site visit on Bus Rapid Transit (BRT)

In 4th November 2016, IRE and NILIM visited Bus Rapid Transit (BRT) at the head office of TransJakarta (TJ) and they were explained by staffs as below:

- 1) TransJakarta is the first BRT in Southeast ASIA and South ASIA, and the longest line BRT in the world (208km). It has been operated since 2004.
- 2) TransJakarta has 13 lines. The fare is flat.
- 3) Buses are plying on the exclusive lane in center of roads. The exclusive lane and general lane are partitioned by blocks. However, in the bus stop without the exclusive lane, buses are driving with general cars and motorcycles, therefore sometimes buses are caught in a traffic jam.
- 4) TransJakarta has 700 buses with gas fuel for ecology. It is difficult to increase the number of buses with gas fuel because there are scarcely gas stations in the city.



Bus stop which doesn't have the special lane



Explanation by staffs



The Operation Room



The view of a bus stop on the monitor of the operation room (Many people who go to large-scale demonstration are projected)

2. Reference (History of the Cooperation)

The National Institute for Land and Infrastructure Management (NILIM) and the Institute of Road Engineering (IRE) renewed cooperation arrangement in Indonesia, February 2014.

Under this agreement, NILIM and IRE have been continually sharing research information by jointly holding technical seminars and exchanging researchers to strengthen links between both research institutes and to form international human networks, thereby to contribute the growth of Indonesia.

2009.06	Pre-meeting in Jakarta and Bandung
2009.11	Tsukuba, Memorandum of Cooperation agreed
2010.03	Bandung, (1st Joint Workshop for targeting the themes)
2010.06	Tsukuba, joint meeting for Bali coming symposium
2010.10	International Symposium in Bali (2nd Joint Workshop to declare the strategy for cooperative researches)
2011.01	Jakarta, (3rd Joint Workshop to make the Road maps(1))
2011.06	Sulawesi, (4th Joint Workshop to make the Road maps(2) and site observation
2011.09	Technical Tour in Japan for modernizing experimental Equipment and Facilities of RDCRB (IRE)
2011.10	Lombok, (5th Joint Workshop / Bilateral Seminar)
2012.03	Jakarta and Bandung, (6th Joint Workshop including River and Water Resource issue)
2012.06	Batam, (7th Joint Workshop (Bridge/ Tunnel) and Open Seminar (Long Span Bridge and Tunnel Technology))
2012.06	Trilateral Workshop for the Interim Report in Tsukuba
2013.01	Jakarta, (8th Joint Workshop (Road Environment/ IPT/ Traffic Safety/ Pavement/ Tunnel)
2013.08	Padalarang-Bandung, (9th Joint Workshop (IPT/ Traffic Safety/ Pavement/ Tunnel))
2013.11	Tokyo, (10th Joint Workshop (Tunnel/ Pavement))
2014.02	Jakarta, Labuan Bajo and Denpasar, (Cooperation Arrangement renewed, 11th Joint Workshop (Road Side Station of Corridor 5/ Road Environment/ IPT/ Tunnel/ Pavement)
2014.03	Tsukuba, (12th Joint Workshop (Michinoeki/ Pavement))
2014.10	Jakarta, (13th Joint Workshop (Tunnel))
2014.11	Bali, Flores and Buton, (14th Joint Workshop (Road environment/ Road Side Station/ AsButon)
2016.02	Tsukuba, (15th Joint Workshop and Site visit (Pavement/ AsButon/ Road Side Station)
2016.02	Jakarta, Buton Island and Bali, (16th Joint Workshop and Site visit (Michinoeki/ Traffic Data Collection/ Pavement/ Tunnel)