

# The 11<sup>th</sup> JOINT WORKSHOP

## HELD IN JAKARTA, LABUAN BAJO AND DENPASAR, INDONESIA

From 17th to 21th February 2014

The 11<sup>th</sup> Joint Workshop for the technology and policy research of Road and Transport was held in Jakarta, Labuan Bajo and Denpasar by NILIM, Japan and IRE, Indonesia (\*) with sister organizations from 17th to 21th February 2014.

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

The activities of 11<sup>th</sup> Joint Workshop are as follows:

1. Discussion collaborative planning activities between NILIM and MPWRI
2. Discussion on 4 themes;
  - 1) Road Side Station of Corridor 5
  - 2) Road Environment
  - 3) Traffic (IPT)
  - 4) Tunnel and Underground Structure
3. Workshop for preliminary survey location to Labuan to identify candidate location for road side station in corridor 5
4. Discussion with Regional Office of Highway Eight



NILIM and PWRI paid a courtesy call on Dr. Hermanto Dardak (Vice Minister of MPWRI)



Left ; Dr. Hermanto Dardak (Vice Minister of MPWRI),

Right; Mr. Toshio SAKAI (DG of NILIM)



The 11th Joint Workshop

## 2. Outline of Technical Session

### 1) Discussion collaborative planning activities between NILIM and MPWRI

- (1) Discussion research collaboration activities between NILIM and MPWRI
- (2) Discussion of preparation activities for 12th workshop in Japan especially for general lecture and workshop for sharing of public private partnership in Indonesia and Japan



### 2) Workshop to Discuss Collaborative Planning Activities Between IRE, ISEE, Local Government- Indonesia and NLIM, PWRI - Japan

#### 2-1) Road Side Station of Corridor 5

- (1) Presentation from Mr. SAKAI about Michinoeki Experience
- (2) Presentation from Nicholas Marpaung and Mr. Gede Budi Suprayoga about Research Concept for Corridor 5
- (3) Presentation from Mr. Aditya Anwar about Concept for Social, Economic and Environment Approach Speech
- (4) Presentation from Head of Planning and Development Board of Manggarai Barat About The Development of the Manggarai Barat Region



#### 2-2) Road Environment

The following themes were discussed;

- (1) Model to Predict Carbon Dioxide (CO<sub>2</sub>) for Motorcycle Emissions
- (2) Estimation the CO<sub>2</sub> emission effectiveness in the world, by switch motorcycle to 4-wheel vehicle
- (3) Future Research Plan

The results of the discussion were as follows;

- (1) Model to Predict Carbon Dioxide (CO<sub>2</sub>) for Motorcycle Emissions

The correlation result is interesting.

- (2) Estimation of the CO<sub>2</sub> emission effectiveness in the world, by switch motorcycle to 4-wheel vehicle

The estimation result on PPT is difficult to understand by audience, it's needed to simplify the PPT. It will be more easy to understand if some tables are replaced by chart/diagram.

- (3) Future Research Plan

IRE and NILIM has agreed to continue our research which is focuses on the relationship between CO<sub>2</sub> emission and actual travel speed and actual geometric condition.



### 2-3) Traffic(IPT)

The analysis results of the 3rd field survey, which was conducted in 2013, were reported. The specific methods of additional analyses and the allocation of roles to be performed hereafter were discussed and adjusted. The action plan until the end of 2016 was also adjusted.

Analysis results of the 3rd field survey: Simultaneous images of traffic flows were captured on the arterial road in Bandungdung City at different times of a day (congested/non-congested hours, daytime/nighttime) using four CCTV cameras installed along the road. From those images, traffic volume was measured using image-processing technology (IPT). Then, the effects of the installation conditions of the cameras and traffic flow conditions on the measurement accuracy of traffic volumes was evaluated.

### 2-4) Tunnel and Underground Structure

The progress and contents of the technical guideline on auxiliary method for tunnel which had been written jointly were discussed. It was confirmed that we set the goal of writing completion at the beginning of 2015 and will arrange each other to hold the seminar about it in Indonesia. And, it was also confirmed that PWRI will accept the researcher from IRE to be continued in 2014. In addition, a future research cooperation roadmap was developed, and it was confirmed that the discussion about the technical guideline of facility, design and construction of the road tunnel will be started in 2014.



### 3) Workshop for preliminary survey location to Labuan to identify candidate location for road side station in corridor 5

Two Locations (Top of El Tari and Lambor) are proposed by Local Government as locations for road side station. Researcher found :

a. Look out point to Labuan Bajo

This found out in Top of El Tari Road which has space for road side station but have to consider how to stabilize soil with hill side condition

b. Rice Field Traditional Pattern View

It is located in Lambor (to Ruteng Road) and have exceeded flatten contour as locations for road side station.

c. As long as Road there are local retail that sale goods from local crops. It is become potential to be developed and have to find the best regulation to avoid social conflict.

### 4) Discussion with Regional Office of Highway Eight

Discussion Road Side Station for Corridor 5 with adopt Michino Eki Concept.

### 3. Reference (History of the Cooperation)

At the 18th Conference of Research and Development of Public Works in Asia (on the theme of Unique Road-Policy Applied to The Regional Conditions and Issues), the National Institute for Land and Infrastructure Management (NILIM) and the Research and Development Center for Road and Bridge (RDCRB) signed a memorandum concerning the cooperation activities at NILIM in TSUKUBA, November 2009.

Under this memorandum, the NILIM and IRE will continually share research information by, for example, jointly holding technical seminars and will actively exchange researchers to strengthen links between NILIM and Asia and to form international human networks, thereby providing technical supports for the growth in Asia.

2009.06	Pre-meeting in Jakarta and Bandung
2009.11	Tsukuba, MoU(C) agreed in general
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	Technological Tour in Japan for modernizing experimental Equipments 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 Road maps (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 maps (Road Environment/ IPT/ Traffic Safety/ Pavement/ Tunnel))
2013.08	Padalarang-Bandung, (9th Joint Workshop Road maps (IPT/ Traffic Safety/ Pavement/ Tunnel))
2013.11	Tokyo, (10th Joint WS Road maps (Tunnel/ Pavement))

(International Research Division)