



## **Report of Meeting**

# The 34<sup>th</sup> Meeting of Malaysia – Thailand Joint Technical Working Group

## on the Golok River Mouth Improvement Project

## 29 July 2016 Genting Highlands, Pahang, Malaysia

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## Report on the 34<sup>th</sup> Meeting of Malaysia – Thailand Joint Technical Working Group On The Golok River Mouth Improvement Project 29 July 2016 Genting Highlands, Pahang, Malaysia

### AGENDA 1: OPENING ADDRESS

Dato' Ir. Mohd Abdul Nassir Bin Bidin, the leader of the Malaysian delegates, welcomed the Thai delegates to the 34<sup>th</sup> Meeting of Malaysia – Thailand Joint Technical Working Group (JTWG) on the Golok River Mouth Improvement Project on 29 July 2016. He also congratulated Dr. Somkiat Prajamwong upon his appointment as Deputy Director General for Engineering, Royal Irrigation Department Thailand.

Dr. Somkiat Prajamwong, the leader of the Thai delegates expressed his appreciation for the warm welcome and arrangements for the Meeting.

Both sides introduced their delegates and the list of delegates is as shown in APPENDIX A. The Meeting adopted the agenda as shown in APPENDIX B.

### AGENDA 2: MATTERS FOR INFORMATION

### 2.1 Report on Monitoring and Evaluation of Golok River Mouth

### Report by JET

(1) The 2016 post-monsoon survey was carried out by the Thai side in April 2016, as shown in APPENDIX C. It was observed that sedimentation area on the Malaysian side has increased and erosion area on the Thai side has decreased compared to the pre-monsoon survey (September 2015).

- (2) The sedimentation area (where bed level is shallower than -3m MSL) was observed to have increased by 169% which increased from 9,168m<sup>2</sup> (September 2015) to 24,644m<sup>2</sup> (April 2016). The total sedimentation volume was observed to have increased by 390% which increased from 2,686m<sup>3</sup> (September 2015) to 13,173m<sup>3</sup> (April 2016).
- (3) The deepest bed level at the river mouth was observed to be -2.6m MSL, located at the navigation channel; the observed bed level was deeper than previous survey which was observed to be -2.3m MSL (September 2015) and -2.1m MSL (March 2015).
- (4) The deepest bed level around tip of Thai breakwater is observed to be -6.2m MSL which may lead to instability of Thai breakwater; the level is shallower compared to the previous survey.

### **Discussion by JTWG**

The Meeting acknowledged the needs to continue the monitoring survey and for JET to continue analyzing the dynamic phenomenon at the river mouth and the erosion at the tip of Thai breakwater.

### 2.2 Maintenance Dredging of Golok River Mouth

### Criteria for Maintenance Dredging

As agreed in JET25, JTWG32 and JSC14, the maintenance dredging is required based on the following criteria:

- When the cross section area of the river mouth between Thailand and Malaysia breakwater tip is blocked up to 30% (based on Thai study); or
- (2) When the bed level of the river mouth is at -2.0 m MSL or shallower (based on Malaysian study);
- (3) The sediment patterns are to be monitored for at least 2 consecutive monsoon seasons in order to identify the need of maintenance dredging.

### Report by JET

The post-monsoon survey (April 2016) is as shown in APPENDIX D. The section across Thai breakwater and Malaysian breakwater showed that:

- (a) The sedimentation area was approximately 11.2%, which is less than the dredging criteria (30% of area blockage).
- (b) It is observed that part of the river mouth is shallower than -2m MSL on the Malaysian side. However, the average sea bed level at the river mouth is at -2.6m MSL, which is deeper than the dredging criteria (-2.0m MSL).
- (c) Erosion at the tip of Thai breakwater about -6.2m MSL.
- (d) Maintenance dredging is not required based on the post-monsoon survey.

### Discussion by JTWG

The Meeting agreed that:

- At present, there is no need to carry out maintenance dredging according to the maintenance dredging criteria;
- (ii) The maintenance dredging criteria are to be maintained as common criteria for drainage purpose (Thai side) and for navigation purpose (Malaysian side);
- (iii) The criteria for navigation purpose shall be reviewed so that maintenance dredging shall be considered when the bed level throughout or part of the navigation channel referring to the reference cross sections is shallower than -2m MSL.

### 2.3 Protection Work of Transit Point B

### Report by JET

The Thai side informed that Feasibility study, Environment Impact Assessment (EIA) study, and detailed design have been started since October 2015 and is expected to complete by December 2016.

Referring to the Joint Hydraulic Model Study (2013), Thai side proposed two options of Transit Point B protection work in oval shape and hexagonal shape. The optimum design for protection work of Transit Point B will be clarify by physical model. The Meeting is informed that the physical model works will start from mid-August 2016 and the Malaysian team is invited to participate in discussion to decide the design parameters used for the physical model.

### Discussion by JTWG

The Meeting agreed that:

- (i) Based on pre and post-monsoon monitoring survey, it is necessary to protect the Transit Point B.
- (ii) The suitable shape of protection work of Transit Point B shall be determined by the Physical model.
- (iii) Thai side has secured the budget for physical model for Golok river mouth rehabilitation works including protection works at Transit Point B.
- (iv) Both sides shall agree with the design parameters for the Physical model.
- (v) Malaysian team agrees to participate in the discussion to decide on the design parameters used for the Physical model, and to witness the simulation of the Physical model in RID's hydraulic laboratory.
- (vi) Both sides must implement the Physical model immediately to suit the budget planning.
- (vii) The Physical model will start by mid-August 2016.

### 2.4 Rehabilitation and Protection Works at Golok River Mouth

### Report by JET

The Thai side informed that they have been conducting Feasibility Study (FS), Environmental Impact Assessment (EIA) study, and detailed design since October 2015 and is expected to complete by December 2016. The detailed design for the breakwater extension will be commenced in the second half of 2016.

The Thai side informed that they have obtained budget to perform the physical model for rehabilitation and protection works at Golok River Mouth including protection work for Transit Point B. Besides, the Thai side informed that the EIA approval process would take at least 6 months in 2017. Both sides agreed that the detailed design for rehabilitation works at Golok River Mouth (breakwater extension, training wall and groyne) should be based on the results of the physical model. Hence, the Malaysian side informed that the detailed design (for groyne) may start 2 months before the completion of the physical model study and will take approximately 1 year to complete. The revised schedule of work for both sides is as shown in APPENDIX E.

### **Discussion by JTWG**

The Meeting agreed that:

- Both sides to proceed feasibility study, Environmental Impact Assessment (EIA) study, detailed design and physical model with the revised schedule of work as shown in APPENDIX E.
- (ii) Once detailed design and EIA approval completed, the proposed rehabilitation works will be presented to JSC for endorsement for implementation.

### 2.5 Mutual Calibration of Rating Curve at Cableway Station

### Report by JET

In 2016, seven mutual gauging measurements were done monthly except in January 2016 measurements were done on two occasion. The mutual rating curves of 2015 as shown in APPENDIX F will be used until a new mutual rating curves is developed by the end of 2016.

The Malaysian side reported that there are differences in the discharge readings i.e. on 28 April 2016, the discharge measured by the Malaysian side is reported to be  $1.097 \text{ m}^3$ /s where the Thai side is reported to be  $0 \text{ m}^3$ /s. The 29<sup>th</sup> JET Meeting agreed that the officer in charge from both sides shall discuss and clarify further on the matter.

### **Discussion by JTWG**

The Meeting agreed that:

- (i) Any data to be published on the Joint web site or any publication shall be an agreed value.
- (ii) The officers in charge from both sides shall check and clarify further on the differences of data within one month.

### 2.6 Real Time Monitoring System and Joint Website for Golok River Basin

### Report by JET

### Existing Telemetering stations and joint web site

The Thai side informed that a new link for the Joint web site is created (<u>http://hydro-8.com/Golok</u>) and it is ready for data viewing and data assessing.

The Malaysian side observed that the online data and the backup data on Thai Joint web site does not tally. Hence, the 29<sup>th</sup> JET Meeting agreed to check and rectify the shared data on the Thai Joint web site.

The Malaysian side observed that there is approximately 1m differences of daily water level readings at Rantau Bridge, Sg Golok station (X.119A) – Rantau Panjang station (6019411). The the 29<sup>th</sup> JET Meeting agreed that both sides shall discuss and clarify further on this matter.

### New Telemetering stations and joint website

The Meeting is informed that the setup for 6 new telemetering stations in Thailand and 3 new telemetering stations in Malaysia is completed. The revised schedule for new telemetering stations is as shown in APPENDIX G.

### **Discussion by JTWG**

- The Meeting acknowledged the report by JET regarding the status of existing and new Telemetering stations and the Joint web site.
- (ii) The Meeting agreed that both sides to proceed with the revised schedule of work for new telemetering stations as shown in APPENDIX G.

### **AGENDA 3: OTHER MATTERS**

### 3.1 Integrated River Basin Management Plan (IRBM) for Golok River Basin

#### Report by JET

<u>Amendment to the Agreement on The Golok River Mouth Improvement Project</u> Pertaining to the 15<sup>th</sup> JSC Meeting held in March 2016 at Bangkok, both sides has seek consultation with relevant agencies and the feedback from each side is as follows:

### (i) Input from Thai side

The Thai side informed that referring to the Agreement signed on 8 March 1997, the scope of work for JSC and JTWG are limited to Golok River Mouth Improvement Works. Hence, JSC (Thai) does not have an authority to expand the scope of work for JTWG and JET to work on IRBM. As well, JSC (Thai) does not have an authority to appoint a new working group to work on IRBM plan according to the same above reason. The IRBM plan can be launched by only two (2) options that (a) both sides agree to conclude a new agreement, or (b) both sides agree to make amendment / supplementary to the Agreement signed 8 March 1997, to expand the scope of work of JTWG / JET to cover the development of Golok River Basin. The name of JTWG / JET shall be changed to conform to the scope of work.

### (ii) Input from Malaysian side

The Malaysian side informed that JSC (Malaysia) agreed to make amendment to the Agreement signed on 8 March 1997 and Malaysian side has formed a subcommittee to work on the amendment. Hence, Malaysia seeks to propose that the draft provisions reflecting the expanded scope of work be prepared accordingly. The draft provisions could be in the form of an amendment to the 'Agreement between the Government of the Kingdom of Thailand and the Government of Malaysia on the Golok River Mouth Improvement Project' which was signed on 8 March 1997 or in the form of a new and specific agreement by itself. Malaysia offers to provide the first draft of the said amendment or new agreement for consideration and further discussion in the upcoming JET and JTWG meetings.

### Summary of joint assessment

In order to initiate a short term assessment for IRBM focusing on flood mitigation, therefore a hydrodynamic modelling need to be carried out. Thus, the data collection assessment shall comprise as follows:-

- 1) Hydrological Data
- 2) Hydraulic Data
- 3) GIS

Data required for Hydrodynamic Modelling is as follows:

- Hydrological Data (rainfall, water level, discharge)
- Existing and future schematic diagram for flood mitigation
- Historical Flood map
- Existing and future land use map
- Existing Hydraulic structures (Bridges, weirs, pump, culvert, ponds, etc.)
- Survey data (river cross sections)
- Ground model (Lidar, Ifsar, GIS)
- Tidal Data
- Soil Properties and etc.

### **Discussion by JTWG**

- (i) The Meeting acknowledged that the amendments to the principal Agreement shall be by way of a supplementary Agreement or a new Agreement.
- (ii) Both sides agreed that a working committee to be formed to collaborate with each other on the amendments to the principal Agreement.
- (iii) Both sides to obtain the relevant and necessary approval for the entry into force of the resulting legal instrument which shall be endorsed at the Ministerial level.

### 3.2 Date and venue for the next JTWG meeting

The Meeting agreed to convene the 35<sup>th</sup> JTWG Meeting as follows:

Host:	Thailand
Proposed date:	June 2017
Proposed venue:	1) Loei, Thailand
	2) Koh Samui, Thailand
	3) Chiang Mai, Thailand

### AGENDA 4: MATTERS TO BE REFERRED TO THE JSC

#### **Matters for Information**

- 1. Report of Monitoring and Evaluation of Golok River Mouth
- 2. Maintenance Dredging of Golok River Mouth
- 3. Protection Work at Transit Point B
- 4. Rehabilitation and Protection Works at Golok River Mouth
- 5. Mutual Calibration of Rating Curve at Cableway Station
- 6. Real Time Monitoring System and the Joint Websites for Golok River Basin

#### Matters for Consideration

Integrated River Basin Management (IRBM) Plan for Golok River

### AGENDA 5: ADOPTION OF MINUTES OF THE MEETING

The Meeting agreed to adopt the report of meeting of the Thirty-forth Meeting of Malaysia – Thailand Joint Technical Working Group (JTWG) on the Golok River Mouth Improvement Project.

(Dato' Ir. Mohd Abdul Nassir Bin Bidin) Co-Chairman Joint Technical Working Group, Malaysia

Deputy Director General (Business Sector) Department of Irrigation and Drainage Malaysia

(Dr. Somkiat Prajamwong) Co-Chairman Joint Technical Working Group, Thailand

Deputy Director General for Engineering Royal Irrigation Department Thailand

### THE 34<sup>TH</sup> MEETING OF MALAYSIA – THAILAND JOINT TECHNICAL WORKING GROUP (JTWG) ON THE GOLOK RIVER MOUTH IMPROVEMENT PROJECT

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### THE 34<sup>TH</sup> MEETING OF MALAYSIA – THAILAND JOINT TECHNICAL WORKING GROUP (JTWG) ON THE GOLOK RIVER MOUTH IMPROVEMENT PROJECT

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### THE 34<sup>TH</sup> MEETING OF MALAYSIA – THAILAND JOINT TECHNICAL WORKING GROUP (JTWG) ON THE GOLOK RIVER MOUTH IMPROVEMENT PROJECT

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### THE 34<sup>TH</sup> MEETING OF MALAYSIA – THAILAND JOINT TECHNICAL WORKING GROUP (JTWG) ON THE GOLOK RIVER MOUTH IMPROVEMENT PROJECT

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### THE 34<sup>TH</sup> MEETING OF MALAYSIA – THAILAND JOINT TECHNICAL WORKING GROUP (JTWG) ON THE GOLOK RIVER MOUTH IMPROVEMENT PROJECT

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### THE 34<sup>TH</sup> MEETING OF MALAYSIA – THAILAND JOINT TECHNICAL WORKING GROUP (JTWG) ON THE GOLOK RIVER MOUTH IMPROVEMENT PROJECT

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### THE 34<sup>TH</sup> MEETING OF MALAYSIA – THAILAND JOINT TECHNICAL WORKING GROUP (JTWG) ON THE GOLOK RIVER MOUTH IMPROVEMENT PROJECT

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### LIST OF THAI DELEGATES

### **APPENDIX B**

### THE 34TH MEETING OF MALAYSIA – THAILAND JOINT TECHNICAL WORKING GROUP (JTWG) ON THE GOLOK RIVER MOUTH IMPROVEMENT PROJECT

### AGENDA

#### AGENDA 1: OPENING SESSION

#### **AGENDA 2: MATTERS FOR INFORMATION**

- 2.1 MONITORING AND EVALUATION OF GOLOK RIVER MOUTH
- 2.2 MAINTENANCE DREDGING OF GOLOK RIVER MOUTH
- 2.3 PROTECTION WORK AT TRANSIT POINT B
- 2.4 REHABILITATION AND PROTECTION WORKS AT GOLOK RIVER MOUTH
- 2.5 MUTUAL CALIBRATION OF RATING CURVE AT CABLEWAY STATION
- 2.6 REAL TIME MONITORING SYSTEM AND THE JOINT WEBSITE FOR GOLOK RIVER BASIN

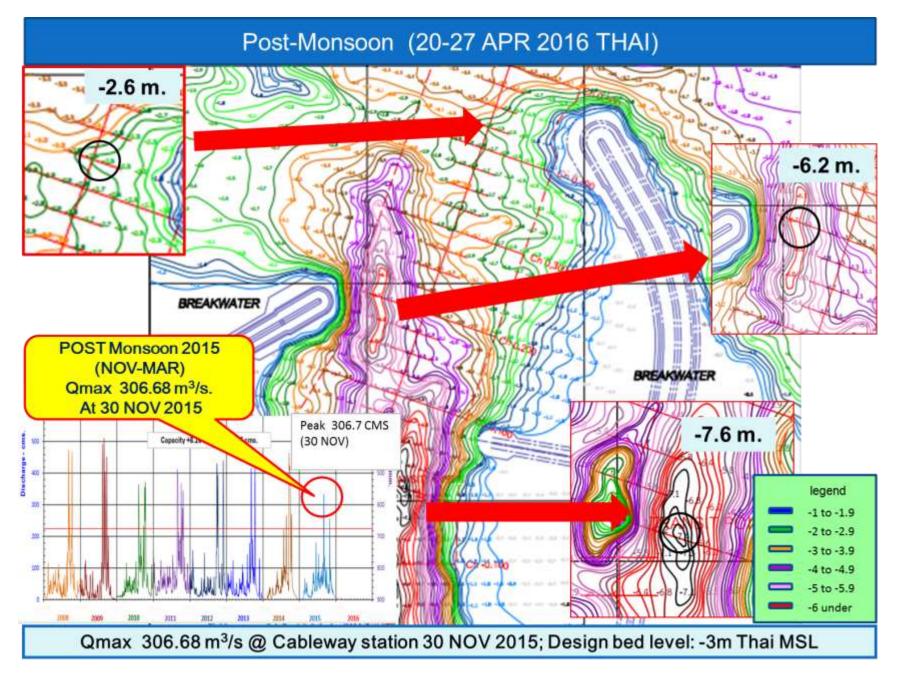
#### AGENDA 3: OTHER MATTERS

- 3.1 INTEGRATED RIVER BASIN MANAGEMENT (IRBM) PLAN FOR GOLOK RIVER
- 3.2 DATE AND VENUE FOR NEXT MEETING

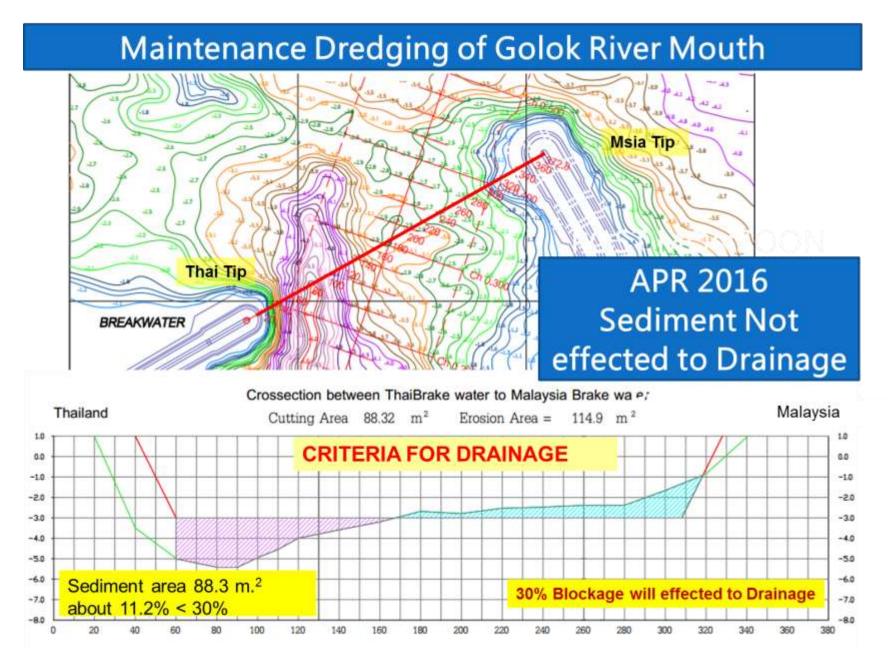
#### AGENDA 4: MATTERS TO BE REFERRED TO JTWG

#### AGENDA 5: ADOPTION OF MINUTES OF MEETING

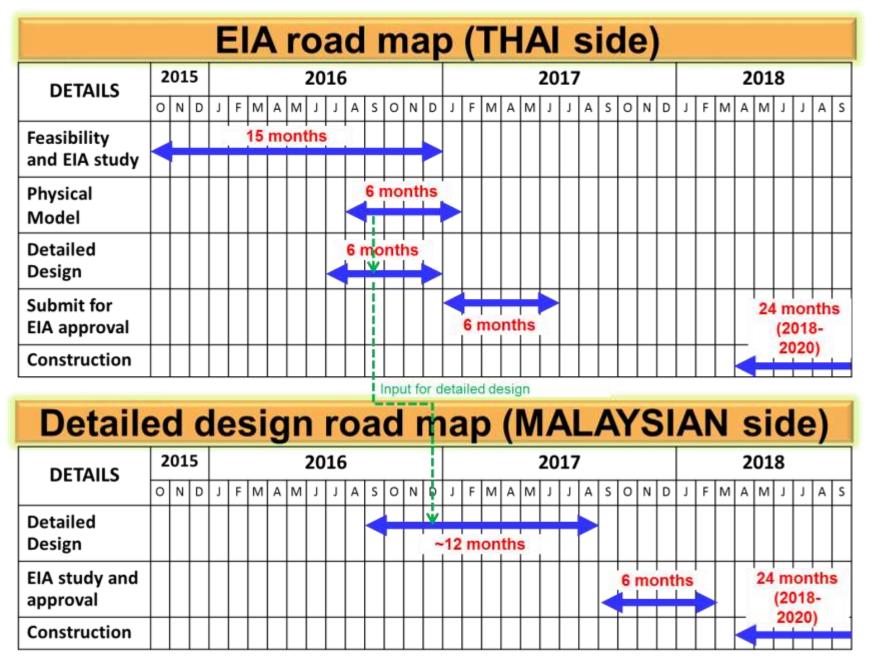
#### **APPENDIX C**



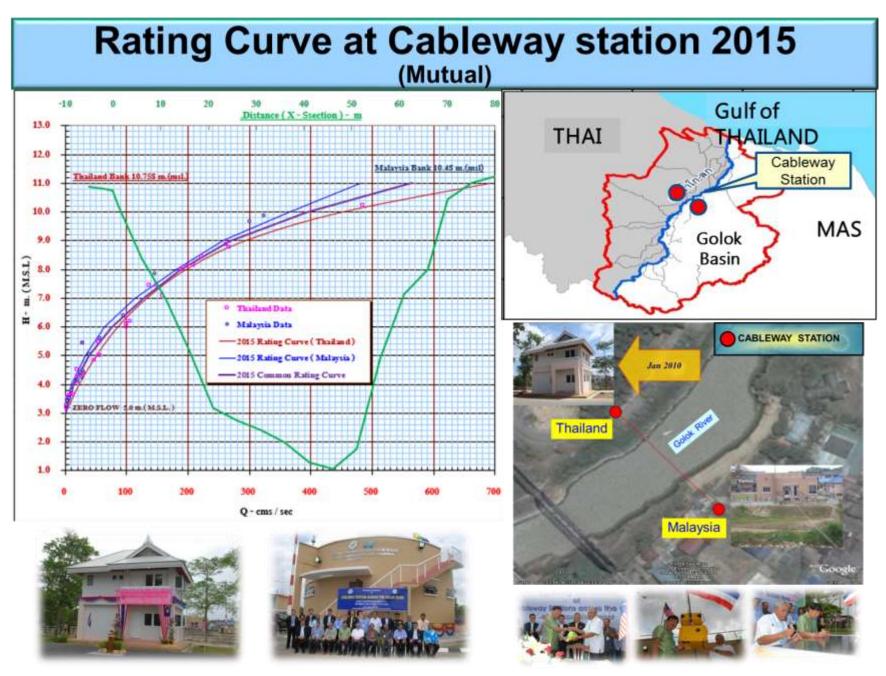
#### APPENDIX D



#### APPENDIX E



#### **APPENDIX F**



# **Progress of new telemetering station**

	2016							
ACTIVITIES	MAY	JUN	JUL	AUG	SEP	ост	NOV	DEC
	C			Completed	4			
Setup								
				Completed				
Testing on data		C		Completed	1			
collection								
				Jun 2	2016 – Apr	2017 (Red	check all B	M Datum)
Calibration							Oct 2015	– Oct 201
From	June 2016							
Data sharing				From	Oct 2016			
_				TIOM	0012010			
ote: Proposed road map (p Progress (Thailand)	presented in J	SC15, Marc	-		oosed road r gress (Malay		ted in JSC15	, March 20

Planning (Thailand)

Planning (Malaysia)