Thirteenth Meeting of the GMS Subregional Transport Forum Siem Reap, Cambodia 27-28 October 2009

SUMMARY OF PROCEEDINGS

Introduction

1. The Thirteenth Meeting of the Subregional Transport Forum (STF-13) was held in Siem Reap, Cambodia on 27-28 October 2009. The Meeting was jointly organized by the Ministry of Public Works and Transport of Cambodia and the Asian Development Bank (ADB). The objectives of the Meeting were: (i) to review the first draft report on the GMS Railway Strategy Study, outlining a proposed strategy and plan for the development of an integrated railway network that enhances connectivity within the GMS and with neighboring subregions; (ii) to review the progress of the transport projects contained in the Vientiane Plan of Action for GMS Development (2008-2012); and (iii) to further review and prioritize key GMS transport projects along the GMS transport corridors. (The Meeting Program and Agenda is attached as **Appendix 1**.)

2. The Meeting participants included delegations from the Kingdom of Cambodia, the People's Republic of China (PRC), the Lao People's Democratic Republic (Lao PDR), the Union of Myanmar, the Kingdom of Thailand, the Socialist Republic of Viet Nam, and ADB. Representatives from various development partner organizations also attended the Meeting. (The list of participants is attached as **Appendix 2**.)

3. The Meeting was chaired by H.E. Mr. Tauch Chankosal, Deputy Minister, Ministry of Public Works and Transport, Cambodia and co-chaired by Mr. James P. Lynch, Director, Transport and Urban Development Division, Southeast Asia Department, ADB.

Day 1 Proceedings: 27 October 2009

I. Opening Session

4. H.E. Mr. Tram Iv Tek, Minister of Public Works and Transport of Cambodia, welcomed the participants and formally opened the meeting. In his statement he noted the dramatic changes that has been taking place in the subregion, such as the many kilometers of roads and other infrastructure that have been built and the increasing integration of the subregion under the GMS Economic Cooperation Program. He reiterated Cambodia's commitment to participate and cooperate in regional cooperation initiatives. The Royal Government, recognizing the advantages that a railway system presents in terms of long haul transport costs and potential contribution to regional cooperation, will continue to accord high priority to the maintenance, rehabilitation and reconstruction of national road network and the other modes of transport infrastructure. It will make every effort to privatize the operations of Royal Cambodian Railway, and will encourage private sector participation in the rehabilitation of infrastructure and in transportation services.

5. H.E. Mr. Chankosal, Chair, in his opening remarks, noted that the STF plays an important role in the efforts toward the closer economic integration of the subregion and the achievement of the three C's – connectivity, competitiveness, and community. He also referred to the current global economic downturn, from which the GMS has not been spared. Transport cooperation and the establishment of an efficient and integrated subregional transport system will play a crucial role in ensuring that the GMS can build its competitiveness and take

advantage of the economic upturn when it takes place. He expressed appreciation for ADB's support and pivotal role in GMS cooperation.

6. Mr. James Lynch, Co-Chair, in his opening statement, explained the purpose of the meeting and its expected outputs. Noting the transport sector's central role in the efforts translate the subregion's increased connectivity into expanded markets, enhanced competitiveness, improved access to social services, and greater environmental sustainability, which was the focus of the Third GMS Summit held in Vientiane, Lao PDR im March 2008, the meeting will be briefed on updates on the transport projects in the Vientiane Plan of Action, which was adopted in the Summit. It will also try to identify any outstanding issues regarding these projects and the action plan. The meeting will also look at the emerging network of transport corridors in the subregion, reviewing the status of the corridor segments in each of the GMS countries, with the aim of determining what further work and reconfigurations need to be done to ensure that effective and efficient connectivity is achieved through the corridor network. The central focus of the meeting is the review of the first draft report of the GMS Railway Strategy Study, which is being undertaken with an ADB technical assistance, in line with the thrust toward the development of a subregional railway network in support of multimodalism, energy efficiency, and a sustainable, low-carbon development path.

II. Session 1. Country Status Reports on the Transport Projects in the Vientiane Plan of Action

7. The GMS delegations presented their respective country reports, which provided updates on the priority transport projects in their countries included in the Vientiane Plan of Action as well as other significant developments in their respective transport sectors. Presentations were made by the following participants: (i) Mr. Vasim Sorya, Director of Planning Department, Ministry of Public Works and Transport, Cambodia (general transport infrastructure) and Mr. Nhek Thivuth, Director of Planning of the Royal Railway of Cambodia (railway infrastructure); (ii) Ms. Lu Juan, Director, Department of International Cooperation, Ministry of Transport, Lao PDR; (iv) U Thant Sin Maung, General Manager (Administration and Planning) of Myanma Railways; (v) Mr. Sunant Gliengpradit, Director, Bureau of International Cooperation, Department of Highways, Thailand; and (vi) Ms. Nguyen Nguyet Nga, Senior Expert, International Cooperation Department, Ministry of Transport, Viet Nam. (The country delegations' respective reports are in **Appendices 3.1-3.6**).

III. Session 2. Plans for the Development of Domestic and International Railway Traffic in Cambodia

8. Mr. Timothy Leake of Toll Holdings Limited, concessionaire of the new Cambodian Railway, gave a presentation on the plans for the development of railway traffic in Cambodia.(A copy of his presentation is in **Appendix 4.**) He first gave a profile of his company's profile and experience. He noted that the Cambodian railways' operation is quite interesting as it involves two railway lines, two countries (Cambodia and Thailand), three markets, and three gateways. He then proceeded to describe the two lines, the Northern Line (Phnom Penh-Pursat-Battambang-Sisophon-Poipet/Aranyaprathet border with Thailand) and the Southern Line (Phnom Penh-Takeo-Kampot-Sihanoukville), identfying their potentials in terms of freight business and industries that could be served. He gave particular attention to mining, noting the potential two-way catalytic and synergistic relationship between mining and railway operation and development. He also presented certain models/options for possible integrated railway-logistics operations and potential links with agricultural and industrial markets.

IV. Session 3. Restructuring the Cambodian Railway: Process and Lessons Learned

9. Mr. Sok Naty of the Concession Management Committee of the Cambodian Railway, briefed the meeting on the activities and programs that have been and are being undertaken to modernize the Royal Railways of Cambodia (RRC). (A copy of his presentation is in **Appendix 5**.) He gave a brief background on the current efforts to restructure the railway in Cambodia, with assistance from ADB under regional TA No. 4645. The Royal Government of Cambodia also signed a \$55 million loan agreement with ADB to restore the railway's infrastructure by rehabilitating its existing track and re-establishing Cambodia's rail connection with Thailand. An international competitive bidding process to select a concessionaire was conducted, and Toll Holdings Ltd. (Australia) was selected as the preferred bidder in November 2007. Negotiation of a Concession Agreement with Toll was undertaken and the agreement was signed in June 2009, which became effective on 22 October 2009.

10. He then presented the key findings and recommendations under the TA, among which are: (i) while the RRC assets have been deteriorating due to war damage and poor maintenance, and the company has been suffering financial losses, the railway has good potential if the railway is restructured and infrastructure rehabilitated; (ii) TA's recommendation was to concession the operation and maintenance of the railway to a private operator, with the Government maintaining ownership of the railway's infrastructure and assets; (iii) the key elements for successful reform are: (a) strong support and commitment of the Government, (b) governance reform, (c) policy reform, and (d) best PPP process and procedures. He then described the strategy for reform that is being undertaken, involving a clear and visionary policy, a clear concession process to follow, a clear legal framework to attract investor and authorize the concessioning of the railway, and building the business case for three main "clients" of the project – the government, the people, and the investor.

Open Discussion:

11. A suggestion was made (Mekong River Commission) that in the rehabilitation and restructuring of the Cambodian railway, account should be taken of possible implications of developments in inland waterway transport, among which are the current negotiations on a cross-border navigation agreement between Cambodia and Viet Nam and the improvements in navigation channels being undertaken under existing bilateral agreements. The MRC is also conducting research on the development of design standards for inland waterways navigation, and invited the countries to participate in this effort.

12. Thailand expressed admiration for the bold step Cambodia has taken in restructuring its railway system, and inquired whether there would be increases in passenger fare rates under the new concession operations. Mr. Naty clarified that the concession agreement covers only freight and not passenger traffic, but that should a future concession also cover passenger traffic, a public service obligation provision will be included in the agreement.

13. A question was asked (Thailand) on where the connection point between the Cambodian railway and the Thai railway would be set. The Cambodian delegation replied that after considering various options, Cambodia's decision was to use the existing original connection (at Poipet-Aranyaprathet). H.E. Mr. Chankosal further suggested that a high level agreement should be forged between the Cambodian and the Thai governments to definitively set the connection point, and requested the Thai delegation to bring this up to their appropriate authorities. An additional information was given that under the restructuring process, it was

targeted that a Railway Cross Border Agreement between Cambodia and Thailand is targeted to be accomplished within three years.

14. The issue of the need to reform customs procedures for cross border rail traffic was brought up (Mr. Apthorp of GMS Business Forum). The Cambodian delegation and the TA consultant state that they are aware of this problem and need, but that unfortunately there is very little experience to draw from at this point since cross border railway traffic is almost nonexistent in the subregion, with the exception of traffic between Viet Nam and PRC. The meeting, however, agreed that this problem must be squarely addressed in order to realize the full benefits of a subregional railway network.

V. Session 4. Presentation of the Draft Report of the GMS Railway Strategy Study

Part 1: Current Status of the Railways and International Railway Transport in the GMS and Key Findings of the Study

15. Mr. Lynch, Co-Chair, gave a brief background on the GMS Railway Strategy Study. The study was undertaken basically in response to the directive given by GMS Leaders at the Third Summit and to requests made at STF-12. An ADB regional technical assistance, TA No. 7255, was approved in March 2009 and under this, a consultant was engaged to undertake the study, which would look into ways toward the development of an integrated GMS railway network that enhances overall GMS connectivity, and strengthens linkages with neighboring subregions, including a prioritized list of possible projects to be implemented before 2025.

16. Mr. Paul Power, Consultant under ADB regional TA No. 7255, presented the broad outline, key findings, and initial recommendations of the GMS Railway Strategy Study. (A copy of his presentation is in **Appendix 6**.) He first presented the current status of the railways and international railway transport in the GMS, outlining recent developments in railway development in individual GMS countries.

17. He then proceeded to give the study's findings on the key problems and needs of the GMS railway sector. Among these are: (i) ensuring that apart from track construction and upgrading, the required equipment (e.g., locomotives and rolling stock; communications, signalling and train control equipment) are available to meet demand; (ii) enhancing interoperability, e.g., through setting minimum technical standards; (iii) rationalizing and increasing the efficiency of railway organizations; (iv) regulatory reforms; (v) simplifying/ harmonizing cross-border procedures, similar to what is being done under the GMS Cross-Border Transport Agreement, (vi) enhancing intermodal connections, e.g., with road networks; (vii) facilitating railway data/information exchange. He also emphasized the importance of the private sector awareness and participation in railway development, noting that attract private investment, regulatory and governance reform must first be undertaken.

Part 2: Proposed Goals and Strategy for the Development of an Integrated GMS Railway Network

18. Mr. Power then presented the goals and key elements/priorities under the proposed Strategy. The main goals are ensuring rail connectivity within ten years, promoting the development of a seamless rail network, ensuring that rail infrastructure and equipment are moder and sufficient to meet demand, supporting the development of GMS railway organiztions, developing best practice in railway regulation, and actively involving the private sector in the planning and development of the GMS railway network. The key elements or "strategies" he recommended are:

- (i) invest to construct missing links to ensure that there is at least one GMS rail route by 2020;
- (ii) invest in upgrading the capacity of supporting lines;
- (iii) support to technical initiatives toward an efficient rail network, e.g., determining infrastructure upgrading needs on existing lines, determining interoperability standards, determining locomotive and rolling stock needs, organizational change, regulatory reform; and
- (iv) establish a GMS Rail Coordination Office.

Part 3: Elements of a Possible Action Plan for the Next Ten Years

19. Mr. Power mentioned that he inluded in his distributed materials a preliminary or long list of possible rail line/projects for development and invited the delegation's comments and inputs on these. (The list is in **Appendix 7**.) The Co-Chair suggested that the delegations review this list later and send their comments, but that discussion could focus at this time on the general elements of the strategy that have been presented.

Open Discussion:

- 20. Mr. Power made further general comments, as follows:
 - Railway development does not just involve building railway lines, but rather many things that have to be done; a holistic perspective is needed instead of just a strictly engineering one.
 - In subregional railway development, it is critical to make the decision whether we will build at least one connected GMS rail route or just focus efforts on improving/building individual country railway systems.
 - The GMS Rail Coordination Office that is being proposed will not be an operations management or coordination unit, but rather will just ensure that plans and broad activities are coordinated and that all stakeholders are involved.

21. Mr. Apthorp (GMS-BF) remarked that until the railways, even if they are interconnected, are able to assure traders and freight transport operators definite time delivery of their cargoes, they would not use this mode and, consequently, private investments in rail assets would not be forthcoming. Mr. Power agreed and noted that that ensuring that the supporting services and facilities to ensure definite time delivery should be part of any railway development strategy.

22. Mr. Chartier (ESCAP) posed a number of questions, explaining the importance of having clear answers to each of them: (i) for what purpose and who are the specific sectors to be served by the planned railway systems – e.g., if the intention is to maximize profits, then railway development designed for freight transport should be the direction, as passenger transport is usually less profitable; (ii) which track gauge will be used – as the choice also has simplications on profitability; (iii) how is the interoperability issue being addressed – given that it is difficulffic that to develop and adopt common standards, would the volume of traffic that could be generated make this worthwhile; (iv) what are railway authorities doing to contribute to efforts to address the issues of climate change and energy dependency; and (v) what specific kinds of participation is envisioned for the private sector, given that it is unlikely to invest in main railway line development.

23. Further to the above comments, Viet Nam (Ms Nga) remarked that: (i) to establish the legal framework for a subregional railway network, it may be worthwhile to pursue the forging of bilateral agreements, such as the one between Viet Nam and the PRC; (ii) given the complicated issues on adopting common technical specifications, it may be less costly to just

upgrade or rehabilitate existing railway lines rather than build new links; (iii) the private sector is not likely to invest in railway lines, but it may be more willing to invest in what are needed to operate railway lines, e.g., ICDs, locomotives/rolling stock; (iv) the possible setting up of a "GMS Railway Working Group", to look into the development of both the hardware and software requirements of the sector, may be considered.

24. Mr. Power concurred with most of the foregoing observations. He further posed the question with regard to developing a cross border agreement for railway traffic, whether it would be better to approach this regionally or bilaterally. Mr.Chartier (ESCAP) observed that there are already existing possible models for such agreements. Mr. Butiong (ADB) noted that the GMS Cross Border Transport Agreement (CBTA) started out as an agreement among three countries, but later was developed to cover all GMS countries; but now, after certain problems have been encountered in regionwide application, countries are going into bilateral agreements to apply CBTA principles and provisions. He remarked that in the case of railways, there may be some merit in forging bilateral agreements at this time, further observing that the choice may one between being pragmatic and being idealistic.

25. Mr. Power reiterated the importance of making a decision on whether to focus efforts on upgrading/developing national lines or building a connected GMS line. However, he remarked that if the intention is to establish subregional railway connectivity, it would be necessary to build at least one subregional line. Thailand (Mr. Sunant) suggested that deciding on which lines to develop first, those that could be completed most quickly and at least cost should be given precedence, and initially just use existing links; then once this first step has been taken, look for and develop links that could be best be sustained in the long-term, e.g, depending on the relative volumes of traffic and trade flows. Mr. Butiong (ADB) recalled that under the first GMS Transport Strategy, rehabilitation of existing roads was given precedence over building new ones, mainly to minimize investment costs and maximize impact; he remarked that in the case of railways, it may be good to have similar quick wins at this time.

26. With regard to further questions from the floor regarding the participation of the private sector in railway development, Mr. Power clarified that this participation should not be limited to investment in railway assets but more generally as user of the railways. It is the private sector that uses these facilities for freight or for passenger traffic, and ultimately they are the ones who will determine the kinds of services to be developed and investments to be made. They therefore have to be part of the planning and design process.

27. Cambodia (Mr. Sorya) informed the meeting that there is a "Railway Sub-Working Group" under the ASEAN framework, whoese next meeting in 2010 Cambodia will host. Moreover, there is one protocol that covers railways under the ASEAN Framework Agreement on Trade Facilitation. He noted that under the latter, a regional approach was initially adopted, but after several years, bilateral approaches are currently being pursued by member countries. He suggested that ADB and the STF may wish to consider ways of harmonizing its efforts in this area with this framework.

VI. Wrap Up of First Day Sessions

28. The Co-Chair briefly wrapped up the day's discussions as follows:

- The countries gave interesting reports on their transport sectors, which increasingly reflect intermodal approaches and more conscious efforts to consider the software side of transport development.
- The briefing on Cambodia's experience it restructuring its railways showed that this is a highly complex process that requires considerable time and effort. ADB remains keen in

continuing to support Cambodia's efforts to rejuvenate its railways and to become a regional hub in this transport mode. Toll Holdings likewise shared interesting information on the plans and prospects of transforming the rail sector in Cambodia into a useful, modern, and profitable enterprise.

 The presentation on the key elements of the proposed GMS Railway Strategy was able to stimulate discussion and debate and provided a useful framework for tackling the most important issues regarding railway development in the subregion. This discussion is, however, just the beginning and the strategy is still work in progress. The countries should continue to review the issues and give further comments. A working/technical meeting is planned to be held in January next year to consider a further refined draft of the strategy, your further comments, and a proposed pipelineof possible projects.

Day 2 Proceedings: 28 October 2009

VII. Session 5. Review and Further Prioritization of GMS Transport Projects

29. Mr. Lynch, Co-Chair, and Mr. Ronald Antonio Butiong, Senior Regional Cooperation Specialist, ADB gave a presentation on the Transport Projects along the GMS Corridors. (A copy of their presentation is in **Appendix 8**.) Mr. Lynch explained that the purpose of reviewing completed, ongoing and planned priority GMS transport infrastructure projects along the identified GMS transport corridors is to further prioritize planned projects, and possibly identify others that are not yet included in existing plans. The overall aim of this exercise is to identify ways of further rationalizing and accelerating the development of an efficient GMS transport corridor network that will support the needs of regional integration and sustainable development.

Open Discussion:

30. The country delegations gave their comments and inputs as regards what they consider are gaps in the corridor network segments within their respective countries, in terms of physical infrastructure and agreements and other software on cross border transport, as well as other priority projects that would further enhance connectivity along the corridors. The Secretariat said that these inputs will be incorporated in the present list of transport projects in the Vientiane Plan of Action.

VIII. Session 6: Remarks/Updates from Other Development Partners

31. Mr. Marcus Bartley Johns of AusAID noted that the GMS transport agenda has advanced well, particularly in terms of physical connectivity. Australia has played a part in this progress, supporting projects such as the First Mekong Friendship Bridge between Thailand and Laos; the Southern Coastal Corridor project; the Northern Transport Network Improvement in Laos; and the Road Asset Management in Cambodia. It is also at an advanced stage in exploring a new investment in rail infrastructure in Cambodia and considering a major new bridge in the Mekong delta. It has also providing targeted funding to help address some of the negative impacts of increased connectivity, e.g., infectious diseases, human trafficking. However, he noted that trade and transport reforms are crucial in taking full advantage of greater physical connectivity. He also cited the potential benefits of the rehabilitation of the Cambodian railway and said that Australia is considering providing a significant grant to help finance the project.

32. Mr. Pierre Chartier of ESCAP gave a presentation (**Appendix 9**) describing ESCAP's programs and activities supporting transport development in the region. He first presented the region's current and short-to-medium term economic prospects, with focus on the growing intra-Asian trade, and then gave certain contrasting features between the prosperous coastal areas and the remote hinterlands, which serve as basis for the key role of transport development. The declarations of the countries meeting in Busan, Republic of Korea in November 2006, reaffirm their commitment to intermodal transport and logistics development, particularly to th efforts toward the establishment of the Asian Highway and the Trans-Asian Railway. He then described the trends toward increasing containerization and globalization and the opportunities they offer. He also emphasized the role of intermodal transport development in addressing new issues, such as climate change and sustainable development.

33. Mr. Paul Apthorp of the GMS Business Forum reiterated the crucial need for facilitating cross-border procedures for rail traffic. He remarked that if this issue is not addressed, the problems being faced by freight transporters in using the roads in cross border operations would be magnified in the case of rail, due to the greater load capacity of trains compared to trucks. He said that many road transport operators would shift to rail if the present cumbersome documentary and procedural cross border requirements are eased.

IX. Other Matters

34. In line with the tradition of rotating the venue of the STF among the GMS members according to the alphabetical order of country names, the PRC delegation said that they will make the appropriate consultations with their authorities for the holding of the Fourteenth Meeting of the STF in PRC, and will advise ADB of the outcome as soon as possible.

X. Adoption of the Draft Summary of Proceedings

35. The Summary of Proceedings of the STF-13 was adopted *ad referendum*.

XI. Acknowledgements

36. The GMS countries and the ADB expressed their sincere thanks and appreciation to the Royal Government of Cambodia, in particular, to the Ministry of Public Works and Transport, for the warm hospitality and excellent arrangements provided to the Thirteenhth Meeting of the Subregional Transport Forum.

13th Meeting of the GMS Subregional Transport Forum

Siem Reap City, Cambodia 27-28 October 2009

PROVISIONAL PROGRAM and AGENDA (Annotated)

Meeting Theme: Toward the Development of an Integrated GMS Railway Network for Greater Connectivity

Objectives:

- 1. To review the Draft Report on the GMS Railway Strategy Study, outlining a proposed strategy and plan for the development of an integrated railway network that enhances connectivity within the GMS and with neighboring subregions.
- 2. To review the progress of the transport projects contained in the Vientiane Plan of Action for GMS Development (2008-2012).
- 3. To further review and prioritize key GMS transport projects along the GMS transport corridors.

First Day

- 0800-0830 Registration
- 0830-0900 Opening Session

Welcome Remarks

H.E. Mr. Tram Iv Tek Minister, Ministry of Public Works and Transport Royal Government of Cambodia

Opening Remarks

Chair, H.E. Mr. Tauch Chankosal Secretary of State, Deputy Minister of Public Works and Transport, Royal Government of Cambodia

Co-Chair, Mr. James Lynch Director, Transport and Urban Development Division, Southeast Asia Department, Asian Development Bank (ADB)

0900-0915 Group Photo Session

0915-1130 Session 1. Country Status Reports on the Transport Projects in the Vientiane Plan of Action

[The session provides the venue for monitoring the progress on the Transport Sector projects in the Vientiane Plan of Action (VPOA) for GMS Development (2008-2012) endorsed and adopted by the Third GMS Summit. It aims to: (i) obtain updates on actual developments/ status of the various action items/projects contained in the VPOA pertaining to each country; and (ii) apprise the STF on any issues, concerns, and needed actions regarding the projects.]

Presentor: Each Country Delegation

[Twenty (20) minutes will be allotted for each country presentation.]

- 0915-1015 Presentations by: Cambodia, People's Republic of China, Lao People's Democratic Republic
- 1015-1030 Coffee/tea Break
- 1030-1130 Presentations by: Myanmar, Thailand, Viet Nam

1130-1215Session 2.Plans for the Development of Domestic and
International Railway Traffic in Cambodia

Presentor: **Mr. Kevin Treloar** Representative for the Railway Concessionaire, Toll Holdings Limited

Discussion

1215-1330 Lunch

1330-1430Session 3. Restructuring the Cambodian Railway: Process and
Lessons Learned

Presentor: H.E. Mr. Tauch Chankosal Secretary of State, Deputy Minister of Public Works and Transport, Cambodia

Discussion

1430-1445 Coffee/tea Break

1445-1715	Session 4. Presentation of the Draft Report of the GMS Railway Strategy Study
	Part 1: Current Status of the Railways and International Railway Transport in the GMS and Key Findings of the Study
	Presentor: TA Consultant
	Discussion
	Part 2: Proposed Goals and Strategy for the Development of an Integrated GMS Railway Network
	Presentor: TA Consultant
	Discussion
	Part 3: Proposed Action Plan for the Next Ten Years
	Presentor: TA Consultant
	Discussion
1715-1730	Wrap Up of First Day Sessions
	Co-Chairs
1900-	Dinner hosted by Asian Development Bank
Second Day	
0900-1030	Session 5. Review and Further Prioritization of GMS Transport Projects
	[This session will review completed, ongoing and planned priority GMS transport infrastructure projects along the identified GMS transport corridors, with a view to their further prioritization and rationalization in line with the development of the overall GMS transport corridor network.]
	Presentors/Lead Discussants:
	Representatives from the Transport and Urban Development Division and the Regional Cooperation Integration Group, Southeast Asia Department, Asian Development Bank (ADB)

1030-1045	Coffee/tea Break
1045-1130	Session 6: Remarks/Updates from Other Development Partners
	Moderated by Co-Chairs
1130-1245	Session IX: Other Matters
	[Further issues that may be raised for discussion.]
1200-1215	Wrap Up of the Meeting
	Co-Chairs
1215-1315	Lunch

Greater Mekong Subregion 13th Meeting of the Subregional Transport Forum (STF-13) Sofitel Angkor, Siem Reap, Cambodia 27-28 October 2009

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Mekong River Commission

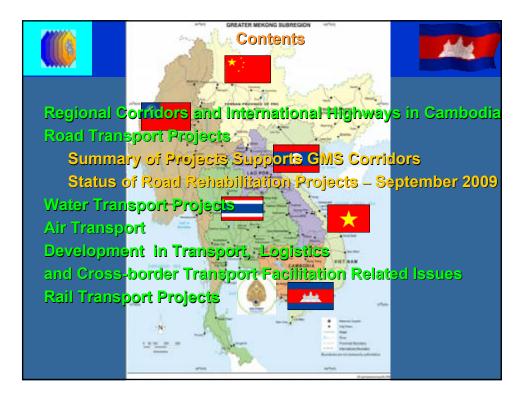
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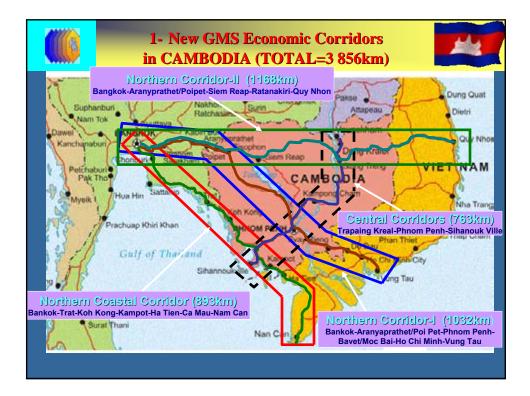
GMS Business Forum

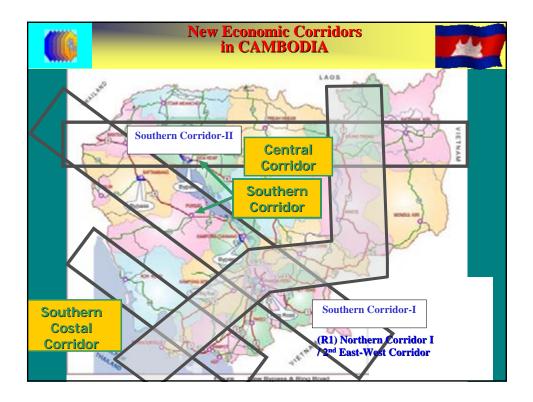
Paul Apthorp

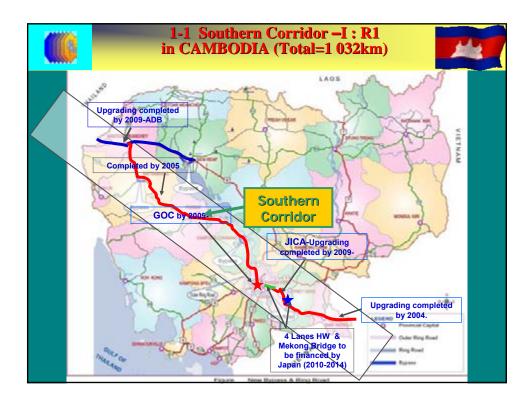




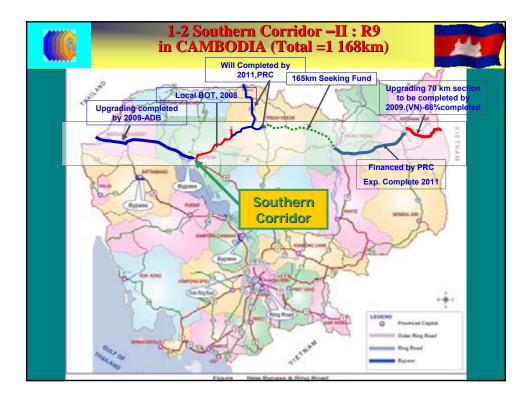




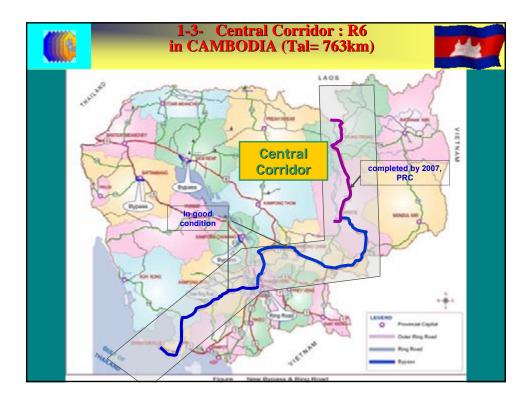




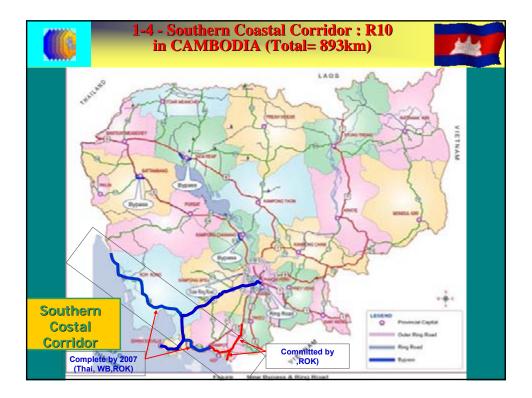




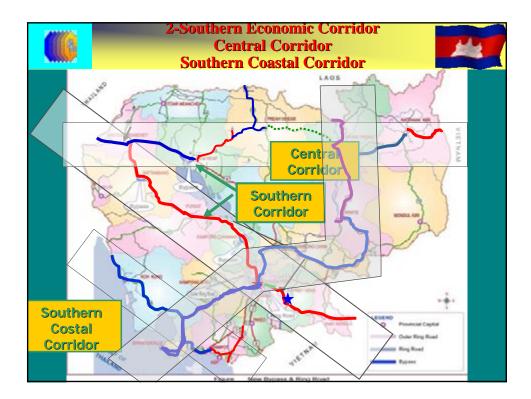


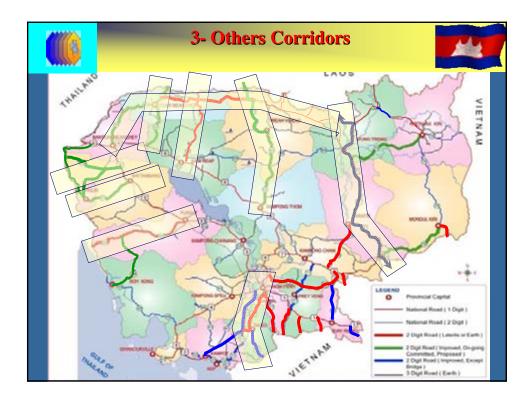


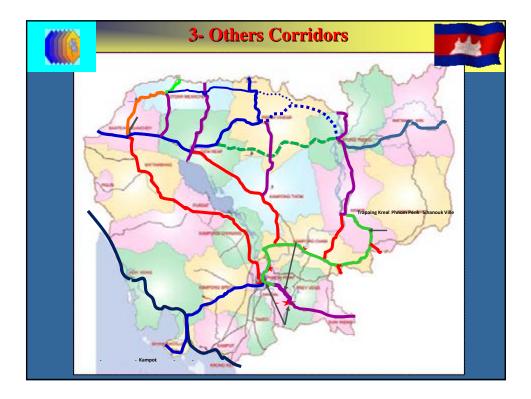


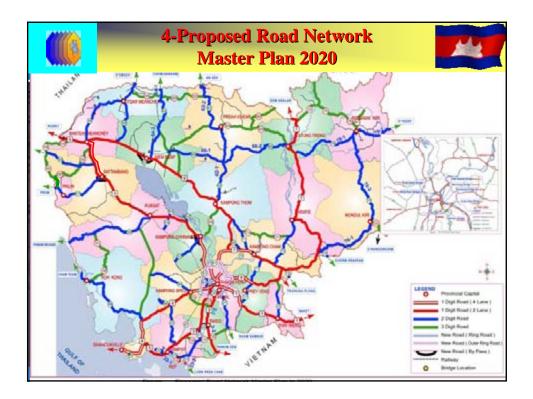




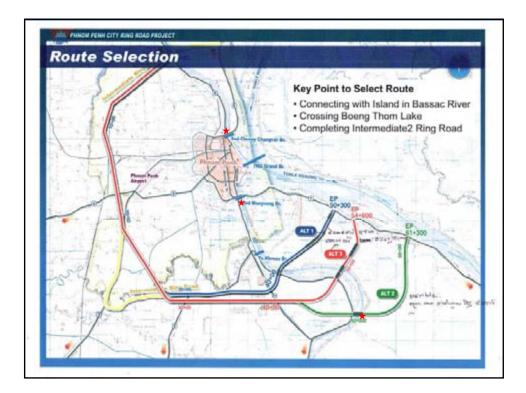


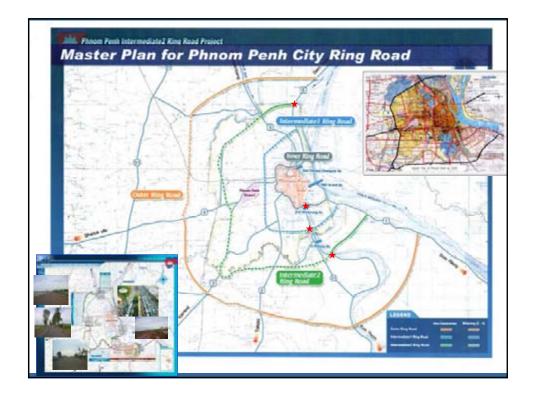


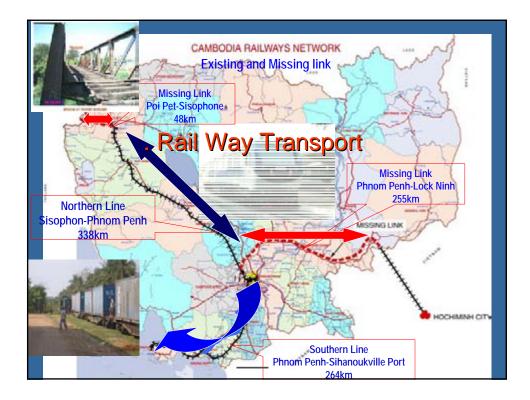












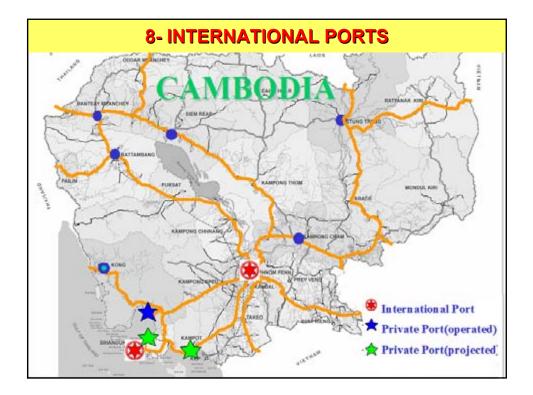


	9			
BUDGET FOR IWT PROJECTS				
			\$ million	
	Dredging:	Up to Phnom Penh, short-term	8.47	
		Up to Phnom Penh, medium-term	2.29	
		Up to Kampong Cham	0.59	
	Port Development:	Phnom Penh, Short-term	2.21	
		Re-location of Phnom Penh Port	36.69	
		Kampong Cham Container Facility	1.67	
		Passenger facilities, Chong Kneas	0.40	
		New Chong Kneas Port	15.57	
1	Waterway Safety:	Immediate priority measures	1.01	
		Medium-term	1.00	
	Legal:		0.35	
		TOTAL US\$ 70.2	5 million	





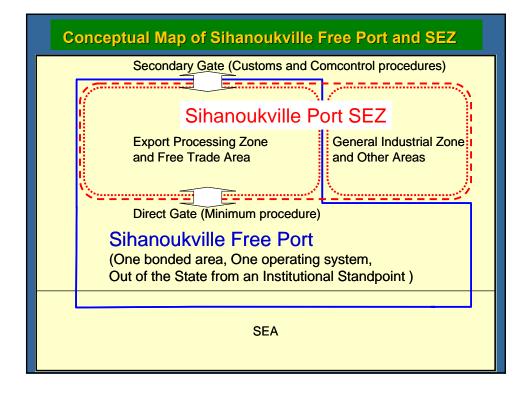








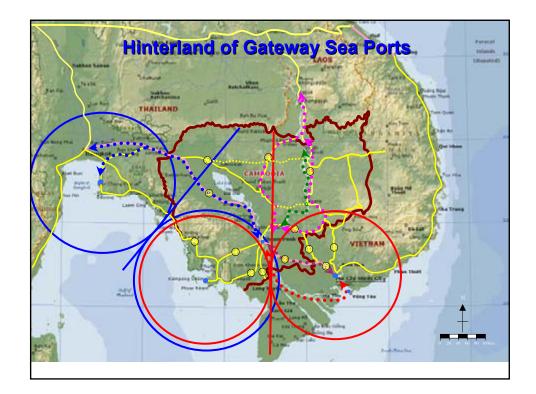


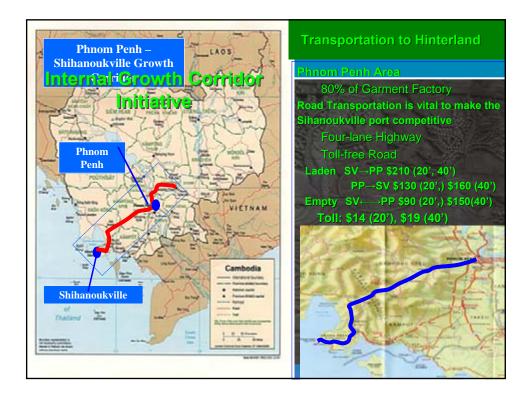


Distance to Gateway Sea Ports from Phnom Penh				
Ho Chi Minh	246 km Road No.1 430 km Inland Waterway			
(Cai Mep – Thi Vai)	335 km Road No.1 380 km Inland Waterway			
Sihanoukville	230 km Road No.4			
Laem Chabang	690 km Road No.5 (410 km to Poipet)			

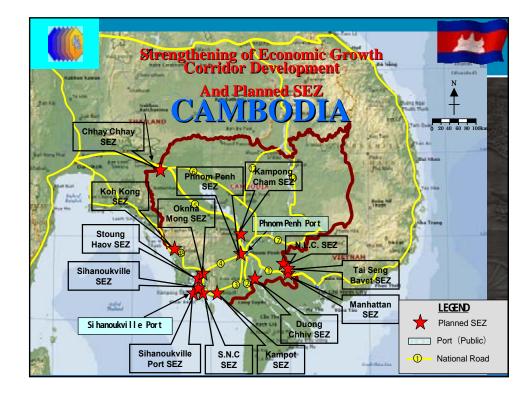
International Container Transportation Route

Route 1: Sihanoukville Port (including surrounding private ports) Route 2: Phnom Penh Port (via the Mekong River and Ho Chi Minh Ports) Route 3: Vietnamese Border (Bavet) (via Ho Chi Minh Ports) Route 4: Thai Border (Poipet) (via Laem Chabang Port)











Port Facilities 1-Container Terminal:	Handling Fa	Specification and quantity
Quay: 20m x 300m	_	6.5Ton: 03 Units, 16Ton: 01 Units, 25Ton: 03 Unit s,
Berthing Capacity: 3 vessels at o ne time	Crane	SOTon: 1 Unit, 70Ton: 1 Unit, 70Ton: 1 Unit, 80Ton: 1 Unit, 100Ton: 1 Unit,
	Forklift	3.5Ton: 5 Units, 6Ton: 3 Units, 25Ton: 1 Unit
2-Domestic Port:	Con-stacker	45Ton: 2Unit
Length 333m	Sky-stacker	18Ton: 1Unit
Inter Provinces; PP - Kg. Cham	Truck	08 Units
PP - Siem Reap, & others	Trailer	for 20' container: 6Units
<u>3-Passenger Terminal:</u> 2 Pontoons of 15m x 45m each	Tugboat	550HP 1Unit , 680HP: 1 Unit
<u>4-ICD</u> :	Dredger №1	Main engine :840HP, Auxiliary engine: 150HP Built :1966, Dredging depth: 12m
Area: 92 000m ²	Dredger N°2	Main engine :1,200HP, Auxiliary engine: 400HP

CARGOS THROUGTH PUT AT PHNOM PENH PORT 2004-2007

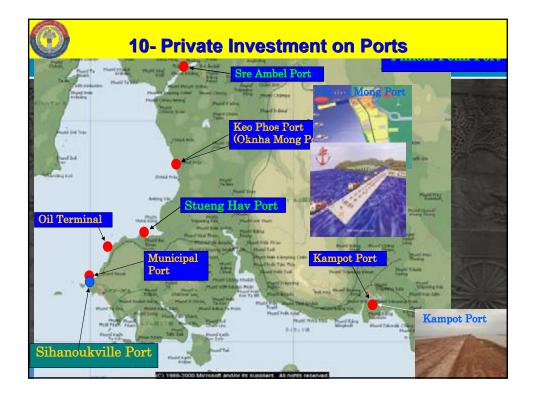
Achievement in 2008

- setting up 57 buoys and navigation aids from Phnom Penh-KaAmsamnor
- improving the security network and CCTV network;
- setting up One-Stop Service in collaboration with concerned authorities;
- extending the commercial zone for Phnom Penh Port
- opening an administration building for One Stop Service;
- -opening maritime international school;

Planning in 2009

- improving the crane capacity;
- Studying and improving the price for competition;
- Improving the management quality and employee by HRD and Training
- setting up buoys and navigation aids from Phnom Penh-Kampongcham
- modernization of passenger terminal;
- study for the construction of a new container terminal;
- finalizing and conclusion of the Agreement and Protocol on Inland
- Waterway between Cambodia and Vietnam



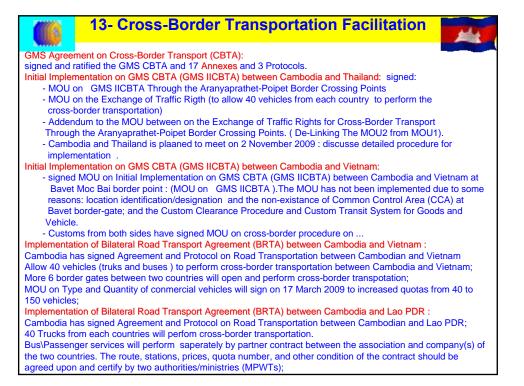


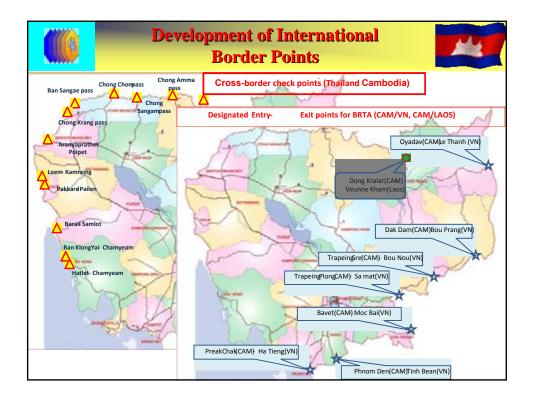


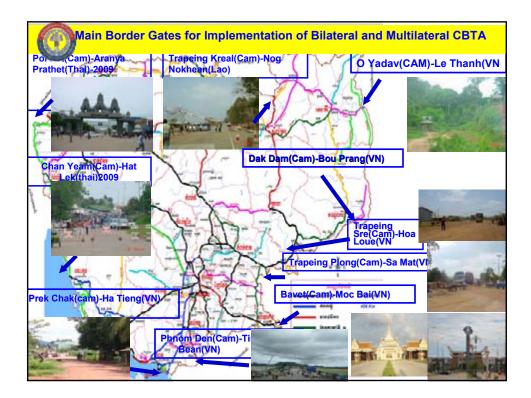










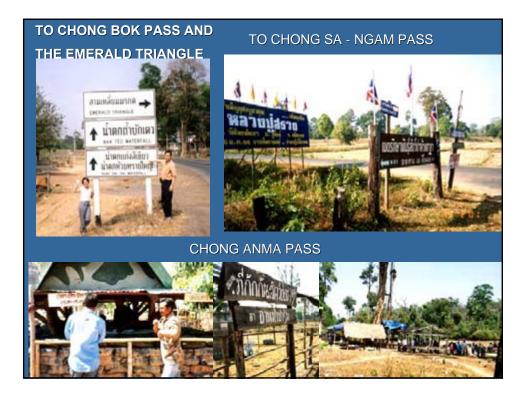






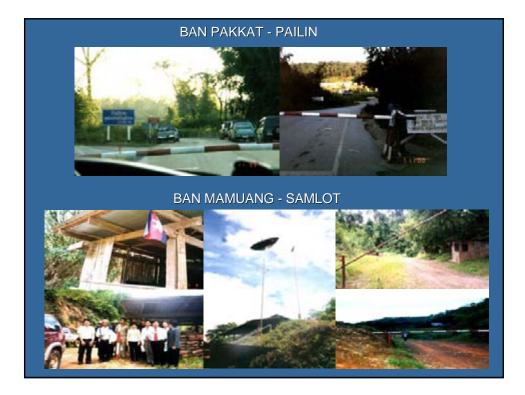


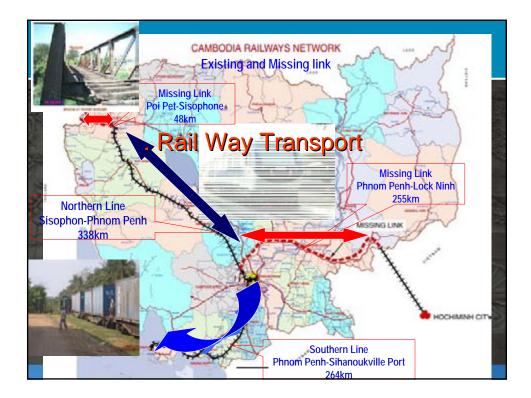














Greater Mekong Subregion Economic cooperation Program

13th Meeting of the GMS Subregional Transport Forum

Siem Reap City, Cambodia 27-28 October 2009

Country Reports on Transport Projects in the Vientiane Plan of Action for GMS Development, 2008-2012

Country: People's Republic of China

People's Republic of China: Country Report on Projects Included in the Vientiane Plan of Action

	(1) Project Name (countries involved)	(2) Indicative Timeline	(3) Estimated Cost (\$M)	(4) Source/s and Status of Financing	(5) Status/Progress of Implementation
ROAD	S				
1.	North-South Economic Corridor International Mekong River Bridge (with financial assistance from the People's Republic of China and Thailand) (PRC, Lao PDR, and Thailand)		59.4	Ongoing PRC, Lao PDR and Thailand signed Memorandum of Understanding (MOU) under which PRC and Thailand agreed on a 50-50 cost sharing of the bridge. Completed detailed design in June 2008 with a grant from Thailand of about \$1.2M. ADB assisting in procurement of process for civil works.	Civil works will commence in December 2009; completion is targeted by 2012.
2.	Western Yunnan Roads Development Project II (People's Republic of China [PRC])	Construction will commence in Oct.2010 with 4-years construction period.	1,426.0	Included in the ADB RCOBP for GMS (for a loan of \$ 250 M under the 2010 pipeline) and COBP for PRC.	Preliminary works is being conducted.

	(1) Project Name (countries involved)	(2) Indicative Timeline	(3) Estimated Cost (\$M)	(4) Source/s and Status of Financing	(5) Status/Progress of Implementation
3.	Dali-Lijiang Road Upgrading <i>(PRC)</i>	Construction works commenceby the end of 2009 with 4 years period	2,400.0	To be financed by PRC government.	Preliminary work is being conducted
4.	Baise-Debao-Longbang Expressway <i>(PRC)</i>		1,016.0	To be financed by PRC government.	To be implemented by two sections. Baise-Debao- Jingxi started construction on September 25, 2009, Jingxi to Longbang section will be started in 2010.
5.	Hechi-Baise Expressway <i>(PRC)</i>		2,012.0	To be financed by PRC government.	Feasibility study report is completed. To be started in 2010.
RAILW	ΙAY				
6.	Nanning-Kunming Railway Capacity Expansion <i>(PRC)</i>		12,900.0	To be financed partly by ADB loan and the rest by PRC Government.	Feasibility study report has been submitted to the National Development and Reform Committee
7.	Dali-Ruili Railway Line (PRC)	2013	2,160.0	To be financed by the PRC Government.	By August 2009, 14.2% investment has been finished
8.	Mengzhi-Hekou Railway Line <i>(PRC)</i>	2012	1,200.0	To be financed by PRC Government.	By August 2009, 5% investment has been finished.

	(1) Project Name (countries involved)	(2) Indicative Timeline	(3) Estimated Cost (\$M)	(4) Source/s and Status of Financing	(5) Status/Progress of Implementation
PORTS	S/AIRPORTS				
9.	Mengzhi Airport Upgrading <i>(PRC)</i>		15.0	The proposed project has been submitted by the Yunnan provincial government for financing by the PRC government.	Ongoing
10.	Nanning International Airport Improvement (PRC)		126.0	Proposed to be financed by the PRC government.	Ongoing
11.	Guilin International Airport Improvement (PRC)		90.0	To be financed by the PRC government.	Ongoing
12.	Improvement and Maintenance of Navigation Channels along the Lancang- Mekong River (PRC, Lao PDR, Myanmar, and Thailand)		TBD	There are ongoing activities under the Joint Committee on Coordination of Commercial Navigation (JCCCN) on the Lancang-Mekong River, based on the Quadriparties Agreement on Commercial Navigation that was signed by PRC, Lao PDR, Myanmar and Thailand in April 2000.	Need financial assistance from ADB under GMS framework. The Chinese delegation recall the meeting that the 13 th GMS Ministers' meeting held in Dali, China agreed that ADB would work out a strategic planning for water transport. Therefore ADB is requested to expedite this process.

	(1) Project Name (countries involved)	(2) Indicative Timeline	(3) Estimated Cost (\$M)	(4) Source/s and Status of Financing Including the Upper Mekong River Navigation Channel Improvement Project with a grant of \$5M by PRC government.	(5) Status/Progress of Implementation
13.	Study of use of Red River for Subregional Transport			Concerned ministries and agencies in Vietnam and PRC (Yunnan province)	Proposed study to look into the feasibility of and requirements for subregional transport (similar to the role played by the upper Lancang-Mekong River)
14.	The second bridge on the Red River beween Hekou and Lao Cai	Completed in Sept.2009		Co-financed by Vietnam and PRC	
15.	Preparation of CBTA implementation Manuals for the pilot boder crossing of Mohan to Boten			Ongoing PRC and Lao PDR signed the MOU on the initial implementation of CBTA at Mohan- Boten in September 9, 2009.	ADB is requested to assist PRC and Lao PDR to draft a CBTA implementation manual for the border crossing of Mohan-Boten.
16.	Preparation for triparties' MOU among PRC, Lao PDR and Thailand for the exchange of traffic rights along the north- south economic corridor				As CBTA implementation along the EWEC among Vietnam, Lao PDR and Thailand has started from 11 June 2009, ADB is requested, in the similar way, to assist China, Lao PDR, Thailand to start the discussion of triparties' MOU among PRC, Lao PDR and Thailand for the exchange of traffic rights along the North-South Economic Corridor.

	(1) Project Name (countries involved)	(2) Indicative Timeline	(3) Estimated Cost (\$M)	(4) Source/s and Status of Financing	(5) Status/Progress of Implementation
17.	Preparation for convening of the Third Joint Meeting of GMS National Facilitation Transport Committee				ADB is requested to make preparation for the convening of the Third Joint Meeting of GMS National Facilitation Transport Committee.
18.	Fangcheng–Dongxing (54km)	completed; but further upgrading to expressway planned	Upgraded to class 2 in 2006. Further upgrading to expressway planned	Financed by PRC government	Feasibility study report is under the review of the government; planned to start construction by end of 2009
19.	Nanning-Baise (188 km)	completed	expressway between Greater Nanning (Tanlou City) and Baise City. Assisted by ADB under the Guangxi Roads Development II project (Loan No. 2094 approved in September 2004).		Project started in June 2005 and completed in Dec. 2007

Greater Mekong Subregion Economic cooperation Program

13th Meeting of the GMS Subregional Transport Forum

Siem Reap City, Cambodia 27-28 October 2009

Country Reports on Transport Projects in the Vientiane Plan of Action for GMS Development, 2008-2012

Country: Lao People's Democratic Republic

Lao PDR: Country Report on Projects Included in the Vientiane Plan of Action

	(1) Project Name (countries involved)	(2) Indicative Timeline	(3) Estimated Cost (\$M)	(4) Source/s and Status of Financing	(5) Status/Progress of Implementation
ROAD	S				
1.	Border Crossing Facility at the Cambodia/Lao PDR Border (road linking National Road 7 in Cambodia and National Road 13 in Lao PDR) (Cambodia and Lao PDR)			Fund is sought by both sides	No progress in terms of funding. Design of Lao side border checkpoint has been finished. Single window inspection being undertaken on temporary basis.
2.	Nakhon Phanom- Khammouane Mekong Bridge <i>(Lao PDR and Thailand)</i>		38.0	Financed by Government of Thailand under Ayeyawady-Chao Phraya-Mekong Economic Cooperation Strategy (ACMECS).	The civil works are carried out by Thai contractor (Ital- Thai). Completion is expected by 2012.
3.	North-South Economic Corridor International Mekong River Bridge (with financial assistance from the People's Republic of China and Thailand) (PRC, Lao PDR, and Thailand)		59.4	PRC, Lao PDR and Thailand signed Memorandum of Understanding (MOU) under which PRC and Thailand agreed on a 50-50 cost sharing of the bridge.	Financing Agreement is to be signed by PRC and Thailand during the 15 th ASEAN Summit in Thailand (October 2009).

	(1) Project Name (countries involved)	(2) Indicative Timeline	(3) Estimated Cost (\$M)	(4) Source/s and Status of Financing	(5) Status/Progress of Implementation
4.	Second GMS Northern Transport Network Improvement: Louangphrabang-Thanh Hoa <i>(Lao PDR and Viet Nam)</i>		125.0	Estimated cost of \$40 M for Lao PDR section to be financed by ADB (grant of \$20 M); Lao PDR (\$2 M); and cofinancing (\$18 M).	Section of 6A and 6B in Houaphan Province will be financed by ADB Regional Assistance. The detailed design is being carried out. The construction is expected to start 2010.
5.	Route 14A: Junction Route 16-Lao PDR/Cambodian Border <i>(Lao PDR)</i>		33.0	This road section had been identified as high priority by the Japan- assisted Study on the Southern Road Network. Cambodia is also seeking financing for the Wat Phou border section.	No funds.
6.	Route 16A: Junction Route 16-Junction Route 11 <i>(Lao PDR)</i>		34.0	This road section had been identified as high priority by the Japan- assisted Study on the Southern Road Network.	Construction of Road 16B – Section Sekong to Lao- Vietnam Border is being carried out by Lao private contractor.
7.	Bridge over Mekong between Xieng Kok and Kyaing Lap including Access Road from Tarlay-Kyainglap (Lao PDR and Myanmar)		34.0	Lao PDR and Myanmar are seeking financial assistance for implementation of the bridge project.	No funds.

	(1) Project Name (countries involved)	(2) Indicative Timeline	(3) Estimated Cost (\$M)	(4) Source/s and Status of Financing	(5) Status/Progress of Implementation
RAILW	AY				
8.	Thanaleng-Nong Khai Railway Extension to Vientiane <i>(Lao PDR and Thailand)</i>		TBD	NEDA has committed financial assistance (30% grants and 70% soft loan).	 The detailed design is being carried out by Thai Consultant (Team Consulting Engineering and Management Co., Ltd.) and is to be completed by May 2010. The Comprehensive Study on Logistics System in Lao PDR is being carried out by JICA including Vientiane Logistic Park and is to be completed by 2010.
PORTS	AIRPORTS				
9.	Savannakhet Airport Improvement (Lao PDR and Thailand)		17.0	Project has been completed.	
10.	Da Nang Port Upgrading Phase 2 (Viet Nam)		TBD	Proposed for JBIC financing, but no confirmation has been obtained from the latter yet.	
11.	Improvement and Maintenance of Navigation Channels along the Lancang- Mekong River (PRC, Lao PDR, Myanmar, and Thailand)		TBD		

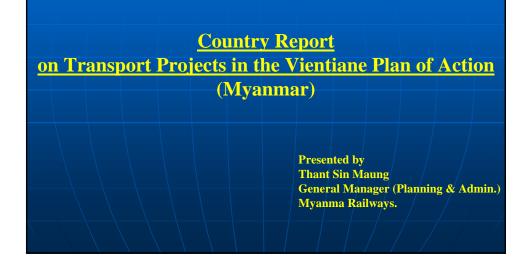
Lao PDR: Other Projects¹ that Government May Consider as High Priority

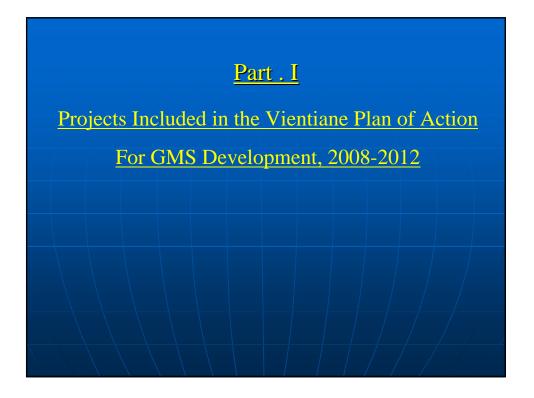
	(1) Project Name (countries involved)	(2) Indicative Timeline	(3) Estimated Cost (\$M)	(4) Source/s and Status of Financing	(5) Status/Progress of Implementation
ROADS	3				
1.	Luangnamtha- Oudomxay-Pakmong	2011-15	60	Credit from PRC	Section Luangnamtha-Oudomxay is under detailed design stage. Construction is expected to start by 2012.
2.	Houaphan- Louanphrabang	2011-15	60	ADB-RETA and loan from ADB	Detailed design is expected to start by 2012 and construction might be around 2013.
RAILW	AY				
1.	Vientiane-Lak Sao Et Industrial Zone	2012	50	To be sought from PRC	

¹ Not included in the Vietiane Plan of Action For GMS Development (2008-2012)

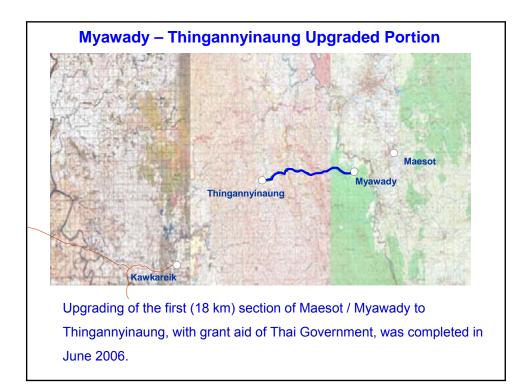


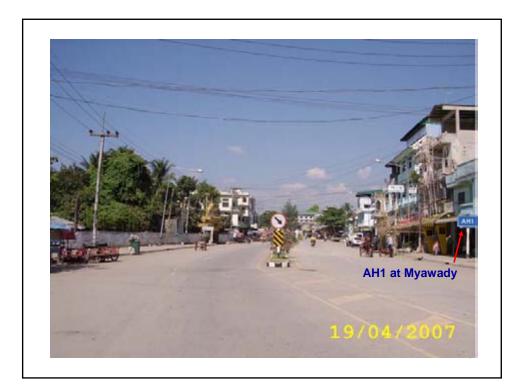
Siem Reap City, Cambodia 27-28 October, 2009



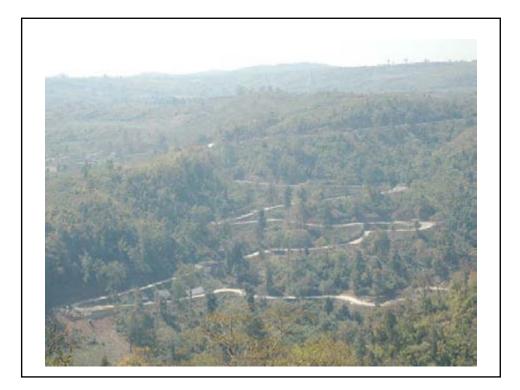


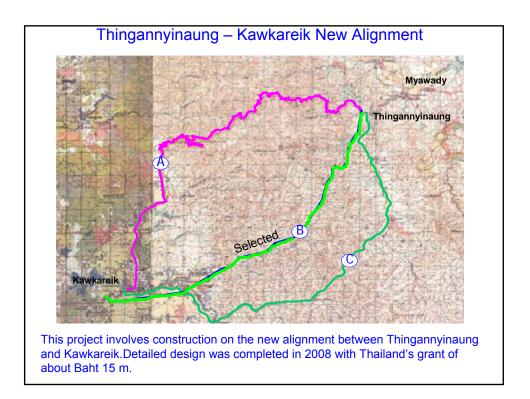




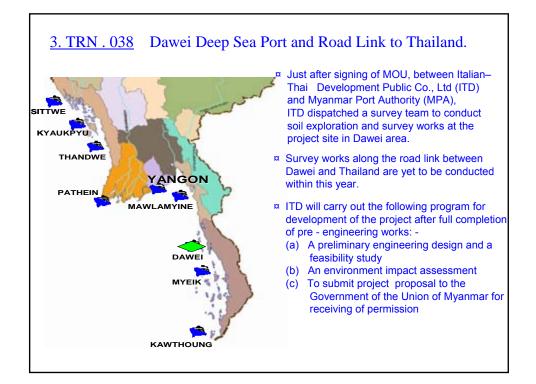






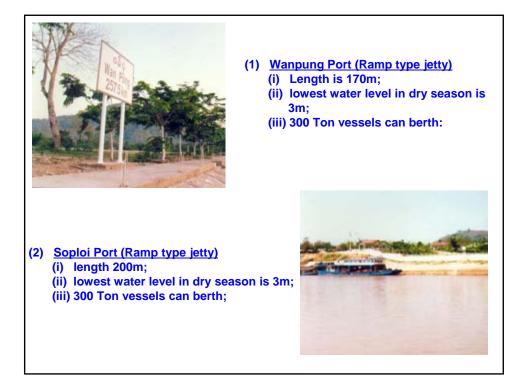


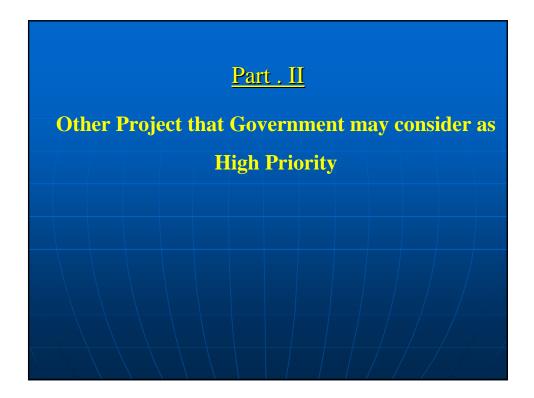


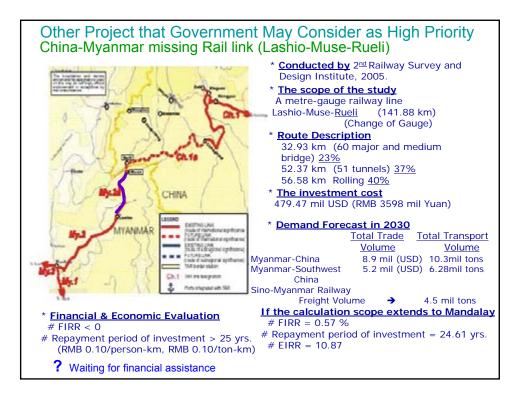


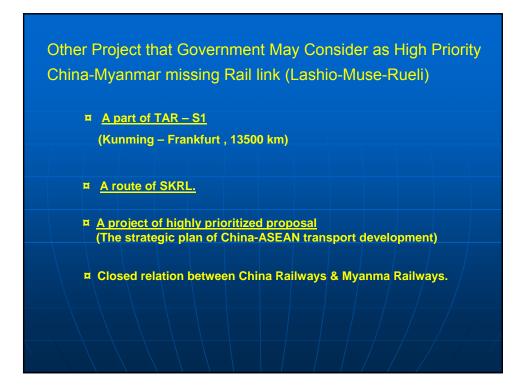


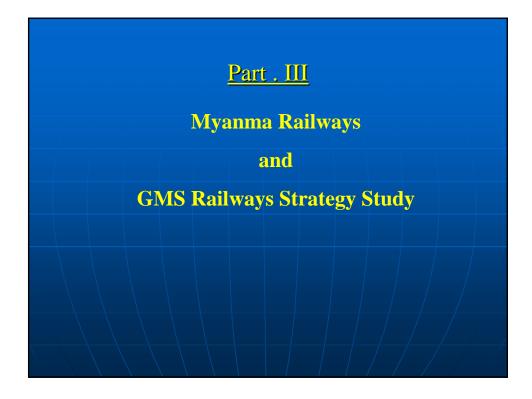


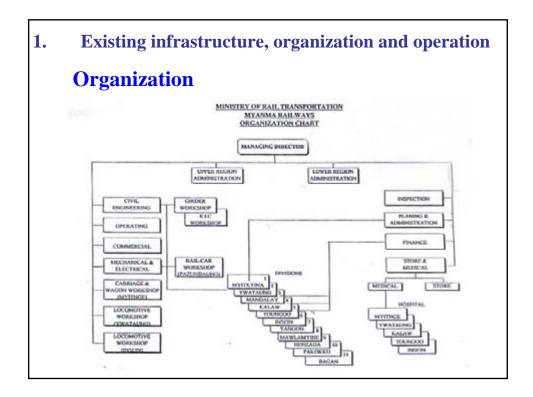












Existing Infrast (a) Track	ructure		
ltem	Length Mile	Km	Remarks
Single line Route Mile	2823.05	4516.88	Rails Wt:
Double line Route Mile	415	664	Rails 75 lb RBS Rails 60 lb RBS
Total Route Mile	3238.05	5180.88	Rails 60 lb BS
Total Track Mile	4326.9	6923.04	Rails 50 lb ANSC

Description	Number
Number of Stations	821
(a) Block Stations	480
(b) Wayside Stations	341
Tunnels	12
Bridges	10421
Buildings	21191
Plant & Machinery	675
Wooden Sleeper	7612537
P.C Sleeper	2845074
Yangon Circular Line (Route Mile)	29.50 mile
(Route Kilometre)	(47.52 km)

(c) Motive Power & Rolling Stock					
(i) Locomotive Fl	eet				
T			Year		
Туре	2004-05	2005-06	2006-07	2007-08	2008-09
Steam Locomotive	39	39	37	37	37
Diesel Locomotive					
(a) Diesel Electric	196	200	207	228	243
(b) Diesel Hydraulic	96	97	100	100	100
Total:-	292	297	307	328	343
Grand Total:-	331	336	344	365	380

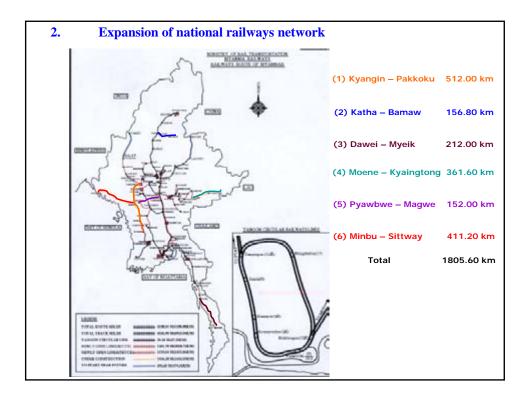
(ii) Number of p	assenger co	aches			
Туре	2004-05	2005-06	2006-07	2007-08	2008-09
Upper Class	244	244	297	311	325
Ordinary Class	636	611	651	651	638
Mail Vans	18	16	14	14	14
Brake Vans	82	102	102	102	99
Restaurants	9	9	17	17	17
Others	141	123	116	116	116
Total:-	1130	1105	1197	1211	1209

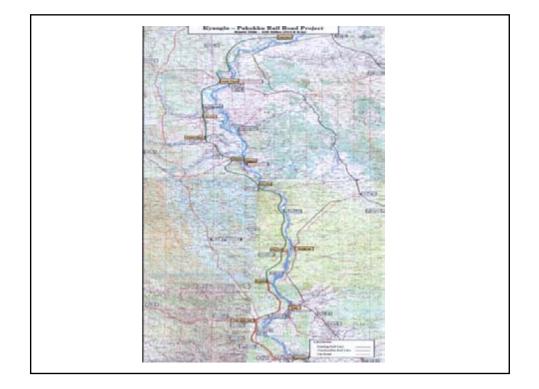
(iii) Number of Fr	eight Wago	ons				
Type	Year					
	2004-05	2005-06	2006-07	2007-08	2008-09	
Covered Wagon	1562	1414	1333	1290	1290	
Open Wagon	632	607	576	575	575	
Low Sided						
Open Wagon	420	416	400	398	398	
High Sided						
Timber Wagon	646	588	559	547	547	
Tank Wagon	233	233	233	233	233	
Brake Van	97	97	94	95	95	
Others	118	116	109	11/1	114	
Total:-	3708	3471	3304	3249	3252	

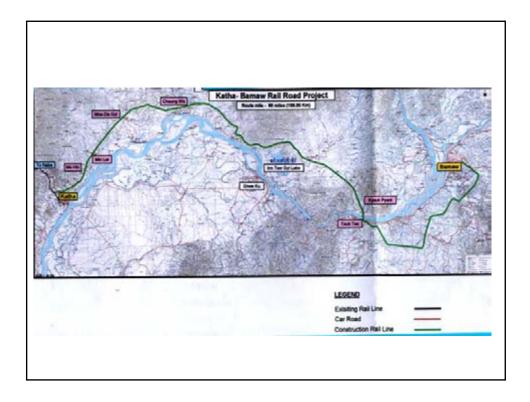
(d) Railv	vays Service		
	Train Type	Nos of Train per d	lay
		(2008-2009)	
	Passenger Trains		
	Express	42	
	Mail & Others	30	
	Mixed	66	
	Rail Bus	72	
	Total	210	
	Yangon Suburban Trai	ns 200	
	Parts Int The inte	10	
	Freight Trains	18	
	Total Trains	428	

(e) Traffic Volum Passenger and Frei					(Million)
			Year		
Classification	2004-05	2005-06	2006-07	2007-08	2008-09
No. of Passenger					
Main	32.77	36.66	38.088	36.731	34.587
Suburban	25.45	32.61	34.62	39.228	38.974
Total	58.22	69.27	72.708	75.959	73.561
Passenger Mile	2604	2969	3297	33784	33489
Ton Carried	2.88	2.88	2.82	2.93	2.95
Ton Mile	544.60	570.10	551.10	535.40	569.91

Classification		Actual			
Classification	2005-06	2006-07	2007-08	2008-09	
REVENUE					
- Passenger	15747.89	18510.44	20433.62	20541.15	
- Goods	5214.64	4867.70	4625.82	5469.13	
- Others	1695.27	1794.87	2196.40	2052.23	
Total Revenue	22657.80	25173.01	27255.84	28062.51	
EXPENSES					
- Operating expenses	20853.35	37677.07	43635.92	49425.02	
- Interest.	17.35	24.24	27.68	23.57	
Profit & Loss on foreign Exchange.	(-)1.23	1.49	(-)6.98		
Total Expenses	20869.47	37702.80	43656.62	49448.59	
- Operating Ratio. (without interest)	92.03%	149.68%	160.07%	176.12%	
- Operating Ratio. (with interest)	92.11%	149.77%	160.17%	176.21%	
- Tax	536.50				



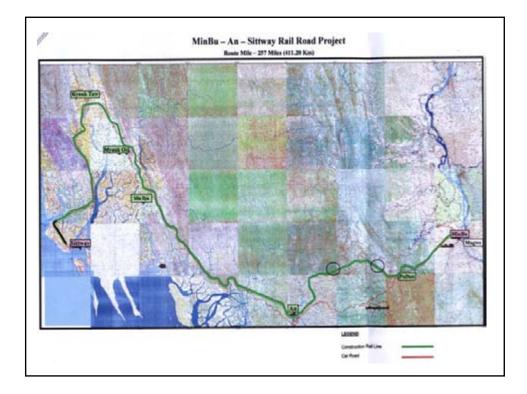




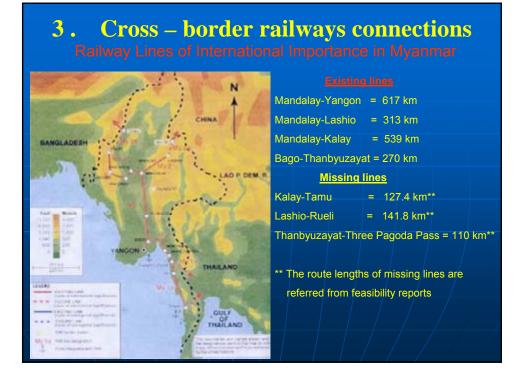


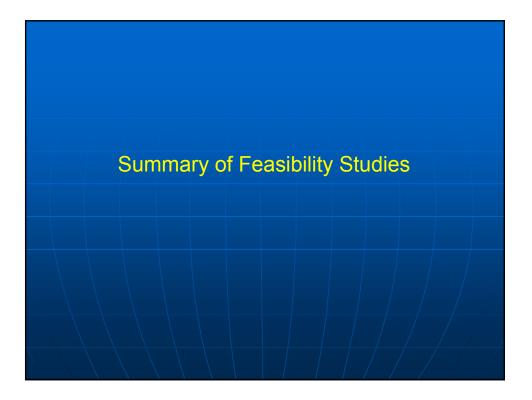


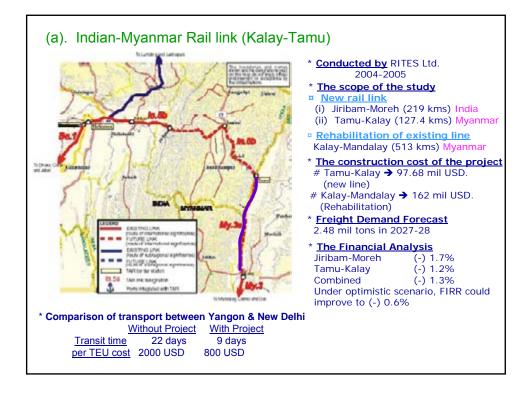




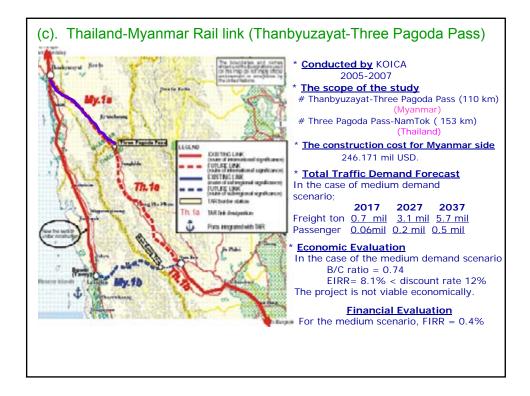
	Expansior	of MR Natio	onal Network	
Particular	1988/89	Up to end of July, 2009	Under Construct	ion
Route-km	3162.16 km	5199.22 km	(1) Kyangin - Pakkoku	512.00 km
			(2) Katha - Bamaw	156.80 km
			(3) Dawei - Myeik	212.00 km
			(4) Moene - Kyaingtong	361.60 km
			(5) Pyawbwe - Magwe	152.00 km
			(6) Minbu - Sittway	411.20 km
				1805.60 km
Track - km	4470.17 km	6942.24 km		2100.00 km











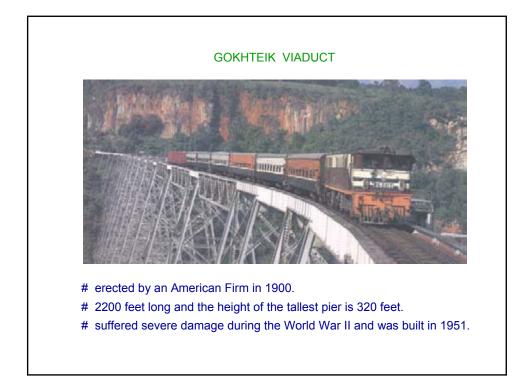
Sr	Missing link	Distance	Construction
			Cost (USD mil)
(a)	Kalay-Tamu	127.4 km	97.68
(b)	Lashio-Muse	141.9 km	479.47
(c)	Thanbyzayat- Three Pagoda Pass	110 km	246.00
	Total		823.15

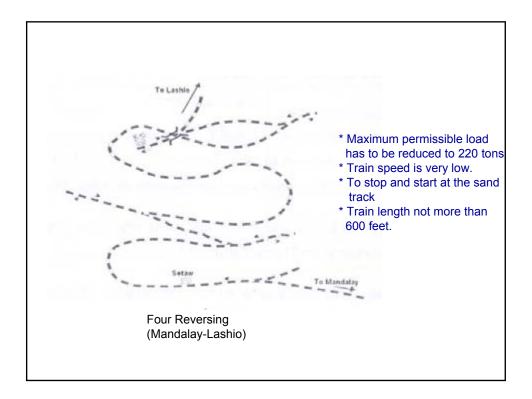
Link	Distance	Estimated Cost (USD mil)	Reported by
Mandalay-Kalay	513 km	162.	RITES. Ltd.
Yangon-Mandalay Bago-Moktama	$\left. \begin{array}{c} 617\\ 202 \end{array} \right\} 819 \ \mathrm{km}$	41	UNESCAP (1999)
Mandalay-Lashio	313 km	704	UNESCAP (1999)
Total		907	

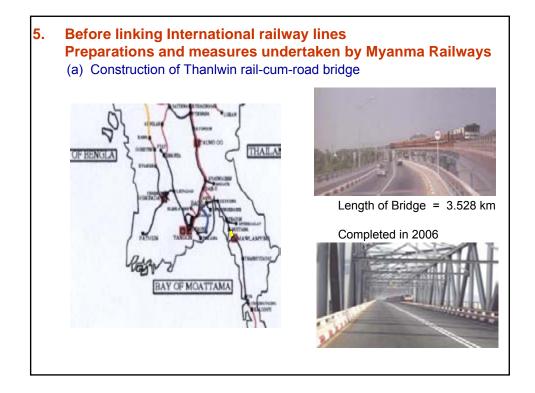
Technical & Operational obstacles 4. (a) Compatibility with technical standards of TAR Comparison of clearance (Vehicle gauge & Structure gauge) P. C. LOWING THE 224 TAR Myanr TAR MYANMAR Width Width Height Height Vehicle gauge 2,590 mm 3,429 mm 2,820 mm 3,950 mm 3,770 mm 3,770 mm 3,810 mm 5,100 mm Structure gauge

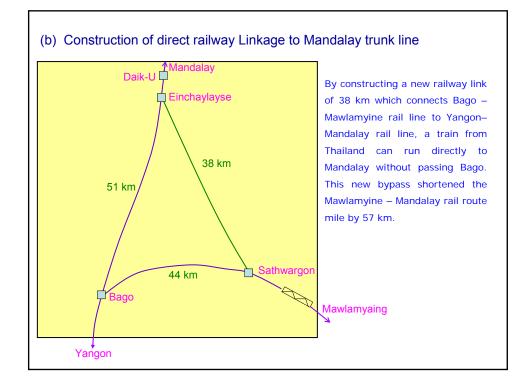
	Item	TAR	MR	
Target speed	Freight	80 km/hr	48 km/hr	
	Passenger	120 km/hr	68 km/hr	
Radius of Curvature	Rolling	800 m	- 200 m	
	Mountainous	150 m		
Maximum Gradients Track Structure	Rolling	1.00%	1.00%	
	Mountainous	1.20%-1.25%	4.00%	
	Rail section	UIC 54	37 kg/m	
	Sleeper	P.C	P.C W.S	
	Depth ballast	250 mm	120 mm	
Axle load		20 ton	12.5 ton	

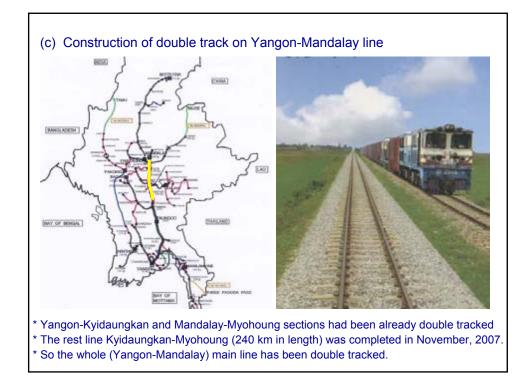
Section	Nui	Number of bridges				
Section	<30 m	≥30 m	subtotal	over headed truss girder		
Yangon-Mandalay	900	61	961	19		
Mandalay-Kalay	514	26	540	10		
Mandalay-Lashio	713	10	723	-		
Bago-Thanbyuzayat	230	28	258	7		

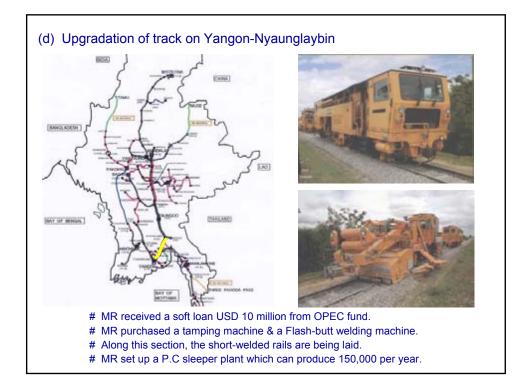












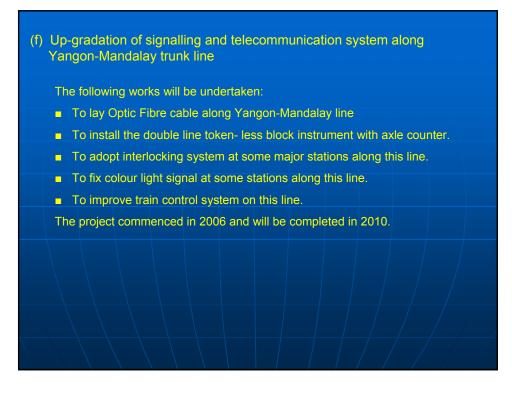
(e) Rehabilitation of track on Bago-Mawlamyine-Thanbyuzayat-Ye line

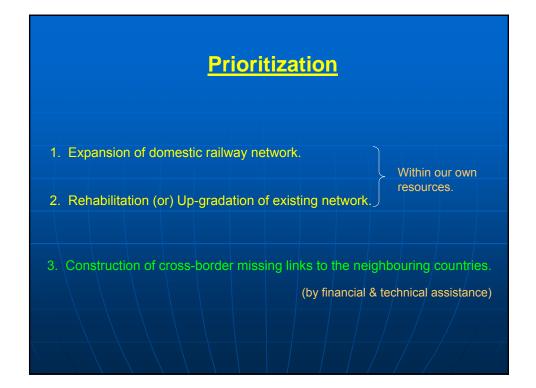
This project was being undertaken with the following works:

- Renewal of 75 lb/yd rails in place of existing 60 lb/yd rails.
- Installation of P.C sleepers.
- Filling ballast to be thickness of 100 mm to 150 mm.

Purchasing an another P.C sleeper plant to be built at Moktama (by Indian loan)
 The completion period will be extended to 2010 because of financial constraints.



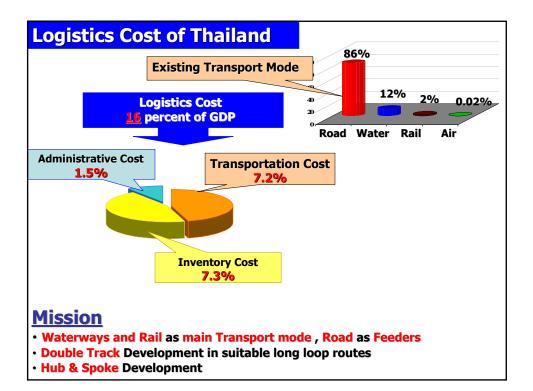


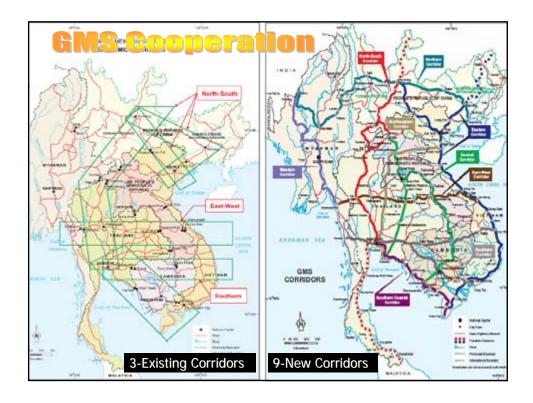






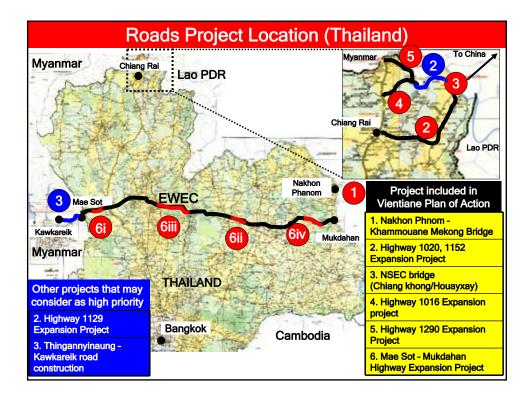
Existin	g Infra	structure	
	National Highways	National highways Motorways & Expressways	51,297 km. 450 km.
	Rural Roads	DOR-constructed Local administration	42,500 km. 107,500 km.
E	Waterways	Coastline IWT	2,614 km. 2,583 km.
	Rail tracks	Single track Double tracks Triple Track	3,698 km. 173 km. 107 km.
-	Airports	International airport Domestic airport	6 31

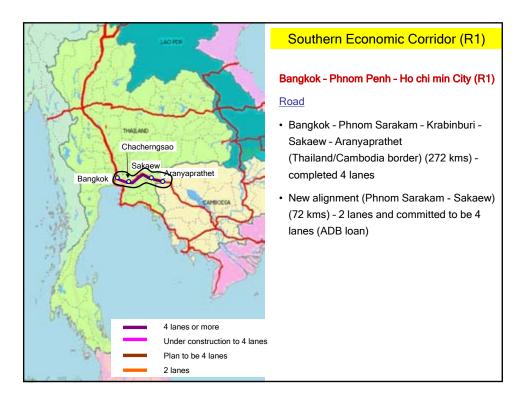


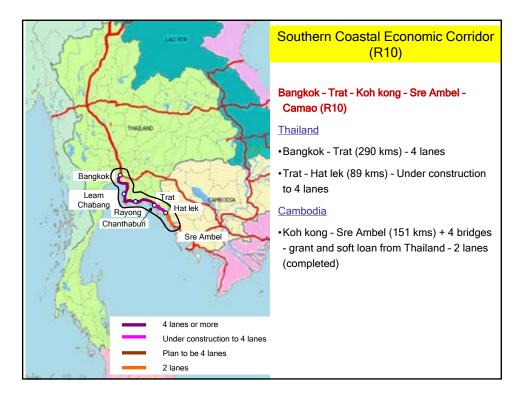


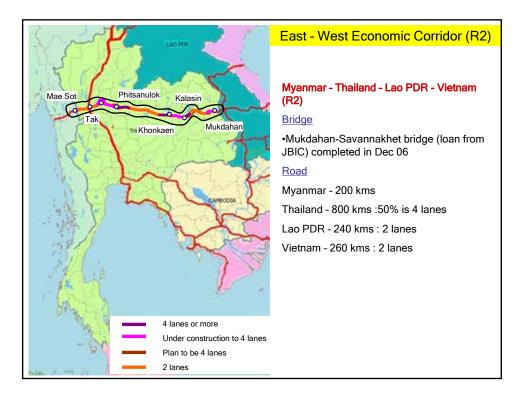


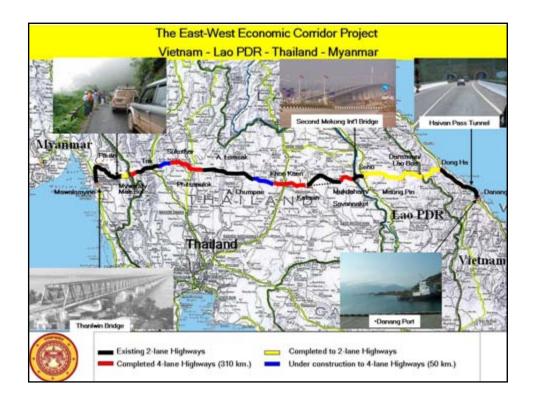
Infrastructure Development Roads Project included in Vientiane Plan of Action 1. Nakhon Phanom - Khammouane Mekong Bridge 2. Highway 1020, 1152 Expansion Project 3. NSEC bridge (Chiang khong/Houayxay) 4. Highway 1016 Expansion project 5. Highway 1290 Expansion Project 6. Mae Sot - Mukdahan Highway Expansion Project 7. GMS Highway expansion project Other projects that may consider as high priority Highway 1129 Expansion Project 2. 3. Thingannyinaung - Kawkareik road construction Railway Thanaleng - Nong Khai Railway extension to Vientiane 8. **Ports/Airports** 9. Savannakhet airport 10. Chiang Saen 2nd port 11. Dawei deep seaport and road link to Thailand 12. Improvement and maintenance of Navigation Channels along the Lancang-Mekong







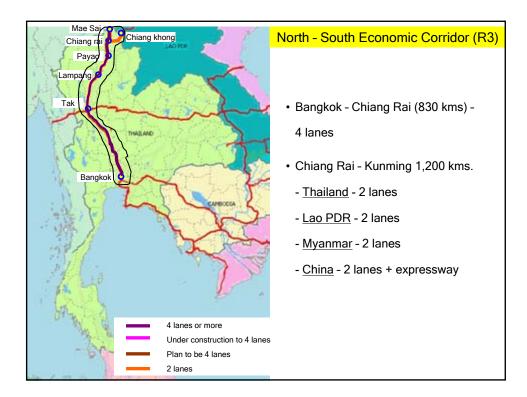


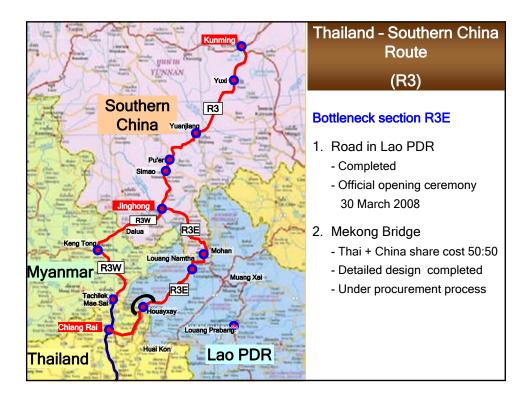


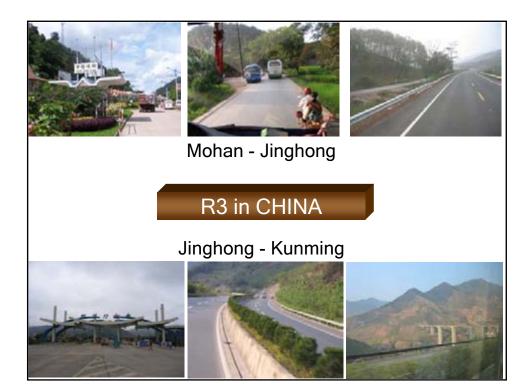


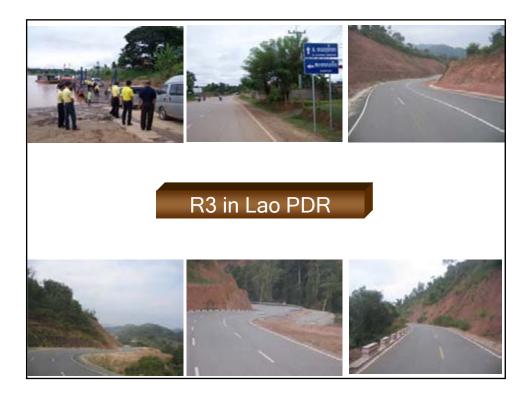


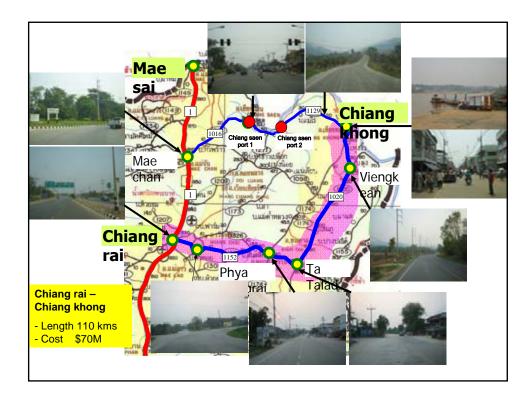




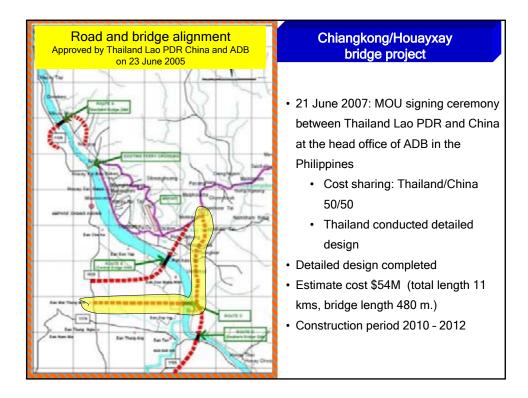


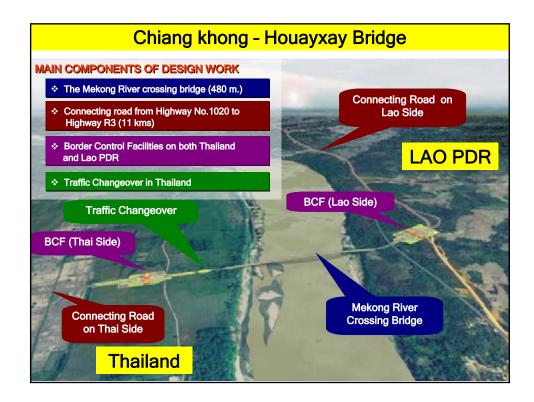
















Infrastructure Development

Roads

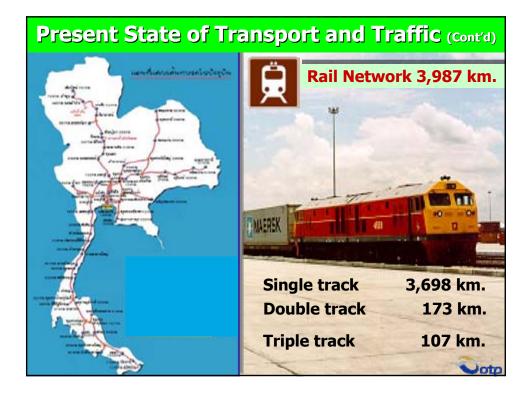
- Project included in Vientiane Plan of Action
 - 1. Nakhon Phanom Khammouane Mekong Bridge
 - 2. Highway 1020, 1152 Expansion Project
 - 3. NSEC bridge (Chiang khong/Houayxay)
 - 4. Highway 1016 Expansion project
 - 5. Highway 1290 Expansion Project
 - 6. Mae Sot Mukdahan Highway Expansion Project
 - 7. GMS Highway expansion project (ADB,WB loans)
- Other projects that may consider as high priority
 - 2. Highway 1129 Expansion Project
 - 3. Thingannyinaung Kawkareik road construction

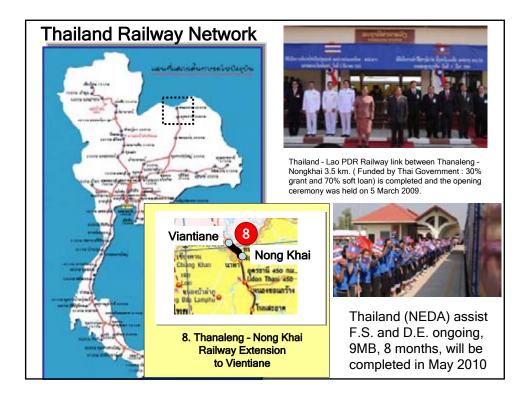
Railway

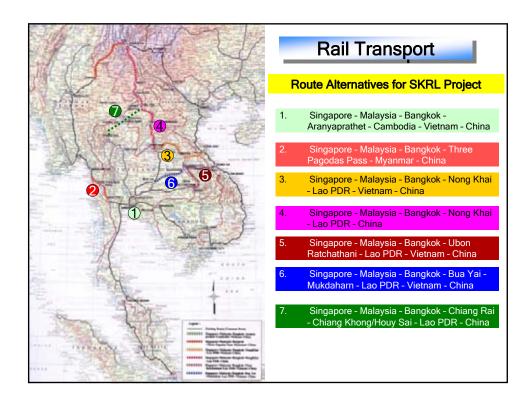
8. Thanaleng - Nong Khai Railway extension to Vientiane

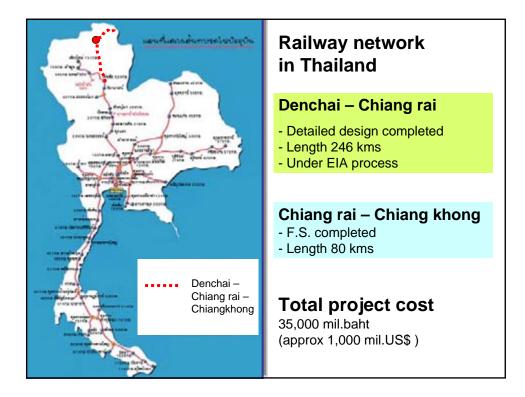
Ports/Airports

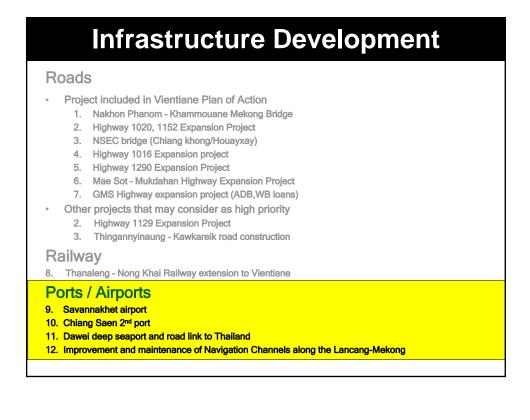
- 9. Savannakhet airport
- 10. Chiang Saen 2nd port
- 11. Dawei deep seaport and road link to Thailand
- 12. Improvement and maintenance of Navigation Channels along the Lancang-Mekong

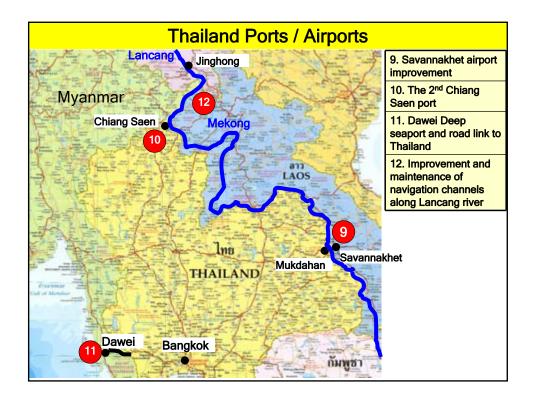
















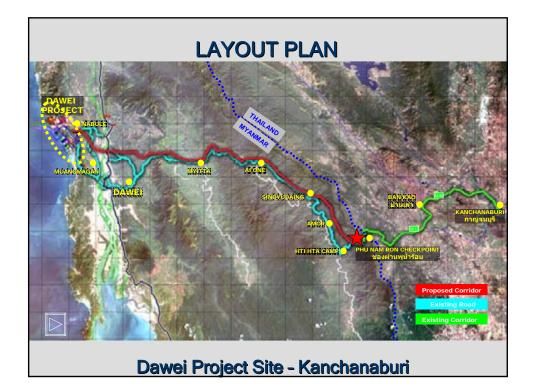
2nd Chiang Saen Port Development Owner : Marine Department Budget allocated in 2008 (1,546.4 MB) Start Construction : May 2009 Construction Period : 2 yrs

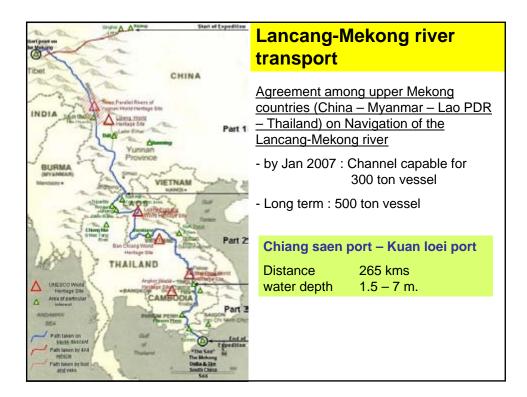
Policy on Dawei Deep Seaport

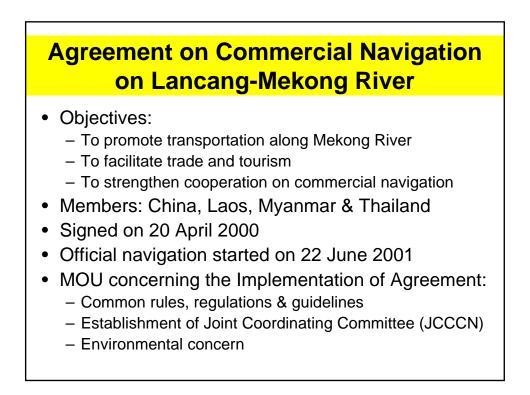
- 19 May 08, MOU between Thailand and Myanmar on the Development of Dawei Deep Seaport and Road link to Bangkok
 - Construction of Dawei deep seaport
 - Establish road link Dawei Bangkok
 - Establish Dawei Bangkok border crossing point
 - Other projects
- 12 June 08, MOU between Myanmar Port Authority and Italian-Thai Co.,Ltd









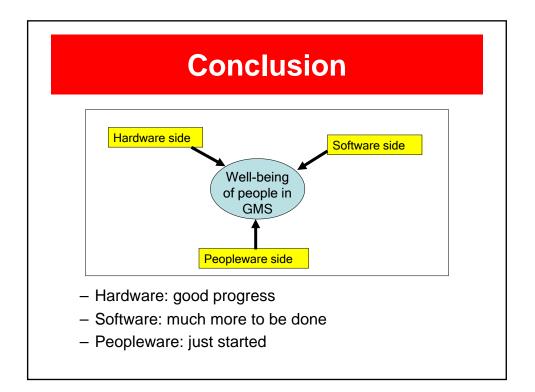


Rapids, Shoal and shallow water



GREATER MEKONG SUBREGION CROSS BORDER TRANSPORT AGREEMENT (GMS CBTA)							
	ANNEX	1	Carriage of Dangerous Goods				
	ANNEX	2	Registration of Vehicles in International Traffic				
	ANNEX	3	Carriage of Perishable Goods				
 17 annex and 	ANNEX	4	Facilitation of Frontier-Crossing Formalities				
	ANNEX	5	Cross-Border Movement of People				
3 protocols	ANNEX	6	Transit and Inland Clearance Customs Regime				
 All signed 	ANNEX	7	Road Traffic Regulation and Signage				
	ANNEX	8	Temporary Importation of Motor Vehicles				
Most of them are	ANNEX	9	Criteria for Licensing of Transport Operators for Cross- Border Transport Operations				
ratified	ANNEX	10	Conditions of Transport				
Some under process	ANNEX	11	Road and Bridge Design and Construction Standards & Specifications				
•	ANNEX	12	Border Crossing and Transit Facilities and Services				
of internal	ANNEX	13a	Multimodal Carrier Liability Regime				
consultation/law	ANNEX	13b	Criteria for Licensing of Multimodal Transport Operators for Cross-Border Transport Operations				
amendment	ANNEX	14	Container Customs Regime				
unonamont	ANNEX	15	Commodity Classifications Systems				
	ANNEX	16	Criteria for Driving Licenses				
	PROTOCOL	1	Design of Corridors, Routes and Points of Entry & Exit (Border Crossings)				
	PROTOCOL	2	Charges Concerning Transit Traffic				
	PROTOCOL	3	Frequency and Capacity of Services and Issuance of Quotas and Permits				







GREATER MEKONG SUBREGION CROSS BORDER TRANSPORT AGREEMENT
(GMS CBTA)

ITEM		Description / Title	CAMBODIA	CHINA	LAO PDR	MYANMAR	THAILAND	VIETNAM
ANNEX	1	Carriage of Dangerous Goods	Ratified	Ratified	Ratified	Signed	Signed	Ratified
ANNEX	2	Registration of Vehicles in International Traffic	Ratified	Ratified	Ratified	Signed	Ratified	Ratified
ANNEX	3	Carriage of Perishable Goods	Ratified	Ratified	Ratified	Signed	Ratified	Ratified
ANNEX	4	Facilitation of Frontier-Crossing Formalities	Ratified	Ratified	Ratified	Signed	Signed	Ratified
ANNEX	5	Cross-Border Movement of People	Ratified	Ratified	Ratified	Signed	Ratified	Ratified
ANNEX	6	Transit and Inland Clearance Customs Regime	Ratified	Ratified	Ratified	Signed	Signed	Signed
ANNEX	7	Road Traffic Regulation and Signage	Ratified	Ratified	Ratified	Signed	Signed	Ratified
ANNEX	8	Temporary Importation of Motor Vehicles	Ratified	Ratified	Ratified	Signed	Signed	Signed
ANNEX	9	Criteria for Licensing of Transport Operators for Cross-Border Transport Operations	Ratified	Ratified	Ratified	Signed	Signed	Ratified
ANNEX	10	Conditions of Transport	Ratified	Ratified	Ratified	Signed	Signed	Ratified
ANNEX	11	Road and Bridge Design and Construction Standards & Specifications	Ratified	Ratified	Ratified	Signed	Ratified	Ratified
ANNEX	12	Border Crossing and Transit Facilities and Services	Ratified	Ratified	Ratified	Signed	Ratified	Ratified
ANNEX	13a	Multimodal Carrier Liability Regime	Ratified	Ratified	Ratified	Signed	Ratified	Ratified
ANNEX	13b	Criteria for Licensing of Multimodal Transport Operators for Cross-Border Transport Operations	Ratified	Ratified	Ratified	Signed	Ratified	Ratified
ANNEX	14	Container Customs Regime	Ratified	Ratified	Ratified	Signed	Signed	Signed
ANNEX	15	Commodity Classifications Systems	Ratified	Ratified	Ratified	Signed	Ratified	Ratified
ANNEX	16	Criteria for Driving Licenses	Ratified	Ratified	Ratified	Signed	Ratified	Ratified
PROTOCOL	1	Design of Corridors, Routes and Points of Entry & Exit (Border Crossings)	Ratified	Ratified	Ratified	Signed	Ratified	Ratified
PROTOCOL	2	Charges Concerning Transit Traffic	Ratified	Ratified	Ratified	Signed	Ratified	Ratified
PROTOCOL	3	Frequency and Capacity of Services and Issuance of Quotas and Permits	Ratified	Ratified	Ratified	Signed	Signed	Ratified
	-	and Permits						

VIET NAM COUNTRY REPORT Thirteenth Meeting of the Subregional Transport Forum (STF-13) 27-28 October 2009, Siem Reap City, Cambodia

OUTLINE OF VIETNAM PROJECTS

GMS Corridors

- 1. Eastern Corridor:
 - Ha Noi Lang Son Expressway
 - Ha Long Mong Cai Expressway
 - GMS Dau Giay Phan Thiet Nha Trang Expressway;
 - Dau Giay Lien Khuong Expressway
 - Central Mekong Delta Connectivity

2. Northeastern Corridor:

- 2nd GMS Northern Transport Network Improvement –HW 217;
- 3. <u>Southern Corridor</u>:
 - Bien Hoa-Vung Tau Expressway;
- 4. Southern Coastal Corridor
- Other expressways and project
 Ben Luc Long Thanh Expressway;
- Railways projects:
 - Singapore Kunming railway: HCMC Loc Ninh Missing link
 - Other projects related to SKRL

Eastern Corridor

1. GMS Ha Noi – Lang Son:

- Timeline: 2012-2016
- Project cost : \$900M to be financed by ADB \$500 M (in indicative 2011 pipeline); GOV (\$100M) co-financing being sought 300 M;

2. Ha Noi – Mong Cai expressway

- Timeline: 2012-2016
- Project cost: \$1000M Included in the expanded ADB indicative pipeline for 2009-2012; Government (\$100 M); co- financing being sought \$500;

Status/Progress of Implementation:

Coupled with detailed designs for both projects to be prepared by the TA loan for Expressway Preparation Facility, to which the TA will be piggybacked, outputs of Project design will be agreed between the Government of Viet Nam and ADB for the ensuing investment loans for the Expression Projects

investment loans for the Expressway Projects.

♦Eastern Corridor

3. GMS Dau Giay – Phan Thiet – Nha Trang Expressway

- Estimated Total Cost (\$M): 1,2
- Indicative timeline: 2011 2015
- Status of Financing: TBD

- Status/Progress of Implementation: The F/S has been carried out by Viet Nam Road Administration, it is expected to be approved by MOT end of Oct. Proposed to implement

4. Dau Giay – Lien Khuong Expressway

Estimated Total Cost (\$M): 1,2; Indicative timeline: 2011 - 2015

Status/Progress of Implementation: The F/S has been carried out by Viet Nam Road Administration, it is expected to be approved by MOT end of Oct. Proposed to implement

♦ Eastern Corridor

5. Central Mekong Delta Transport Connectivity

- This project includes the following components: (1) Cao Lanh Bridge; (2)Cao Lanh and Vam Cong connecting road (15km); (3) My An Cao Lanh section; (4) Long Xuyen bypass and NH 91 connecting road + 3.5km from TL 943 and Vam Cong Bridge
- Estimated Total Cost (\$M): 560
- Indicative timeline: 2009-2015
- Status of Financing: \$ 737M in which:
 - (1) \$190M to be financed by the Australian Gov;
 - (2) & (3): \$240M to be financed by ADB;
 - (4) & (5) : to be financed by the Korean Gov
 - The rest will finance by Viet Nam GoV.
- Status/Progress of Implementation:
 - TA Grant have been approved by the ADB on July 2008;
 - Draft PPTA will be finished by 31, May 2010;
 - ADB, AusAID and MOT will finalize the contract for detailed design of the project prior to January 2011 and will sign the financing agreements for it prior to July 2011, MOT will arrange an appropriate project initiation ceremony at the Cao Lanh Bridge site, also prior to July 2011

North-Eastern corridor 1. Second GMS Northern Transport Network Improvement – HW 217 Viet Nam component is HW 217 with total length of 196km plus 100km of feeder roads Technical specifications: in consistent with Road Class III and IV of VN TCVN Estimated Total Cost (\$M): 205,46 Indicative timeline: 2011-2014 Status of Financing: To be financed by ADB (in indicative 2009 pipeline) and Vietnamese government Status/Progress of Implementation: Final report conducted by consultant will be finished by end of Oct, 2009 Loan Agreement is expected to be signed by 3rd quarter 2010; civil works will be commenced by 4th quarter 2011. TA with amount of 1,6 mil USD was approved; TA Grant have been approved by the ADB on July 2008;

Southern Corridor 1. Bien Hoa-Vung Tau Expressway Estimated Total Cost: \$679M Indicative timeline: 2013 - 2018 Status of Financing: The project is proposed for BOT scheme Status/Progress of Implementation: 1st

 Status/Progress of Implementation: 1st
 phase of the Project's proposal has been completed by a domestic private consortium including Idico + BIDV+Song Da and will submit to MOT for approval shortly.

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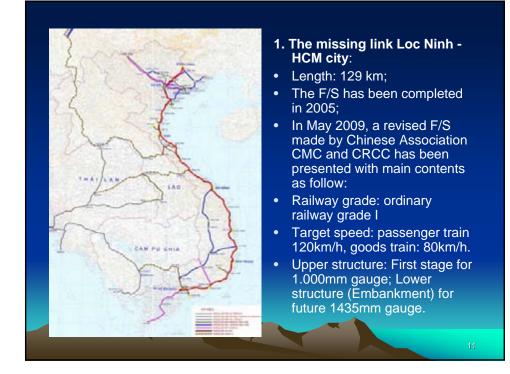
Other expressways

Ben Luc – Long Thanh Expressway

- Estimated Total Cost (\$M): 1,760.0 ; Indicative timeline: 2010-2014
- Status of Financing: Proposed co-financing by ADB, JICA and GOV. Amount to be financed by ADB of \$930M (in which \$300M from OCR; the rest could be from a multitranche financing facility – MFF), GOV will request JICA financing on two bridges and ITS facilities.
- Status/Progress of Implementation:
 - TA approved on 23rd October 2008;
 - Mid-term review mission conducted from 14-16/9/09;
 - Final report of TA will be finished by end of Nov, 2009 and submit for approval by Jan/2010;
 - Detail Design Consultant Service will be planned on 2nd quarter 2010;

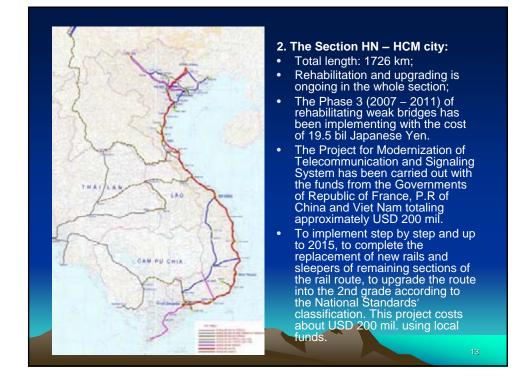
Loan approval by ADB by Sep/2010 if ADB finances costs for the land acquisition and resettlement





The missing link Loc Ninh - HCM city continue:

- Minimum radius curve: Rmin=800m
- Limit track slope: 90/00
- Traction: DIEZEN, future: electric
- Gross train mass: 1200 ton/1500 ton (year 2012/year 2015).
- Using length of arrival siding: 500m. First stage is 400m.
- Blocking system: semi-automatic block.
- Bridge load: T20
- Estimated total investment cost: 570 mil. USD.
- The Agreement between the Government of the Socialist Republic of Viet Nam and the Royal Government of Cambodia on Railway Connection Point has been signed and came into force from 04th, November 2008. According to the Agreement, Vietnam has sent summary project plan and coordinate of rail connection point to Cambodia.
- The construction works is expected to be started in 2010.







4. The Vung Ang – Tan Ap – Mu Gia Spur line:

- Length: 119km. This route connects with the Vung Ang deep seaport and links with the planned railway network of

- commencement: not yet
- Related to this project, the Pre-F/S of the Mu Gia – Tha Khek Spur line has been completed in September 2008 by a coordination of Viet Nam



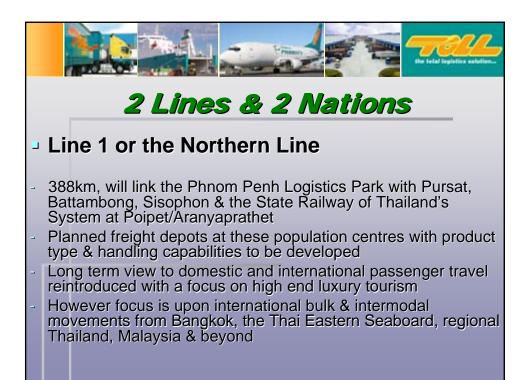


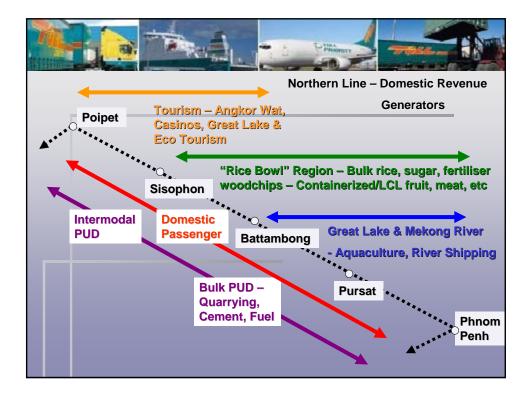


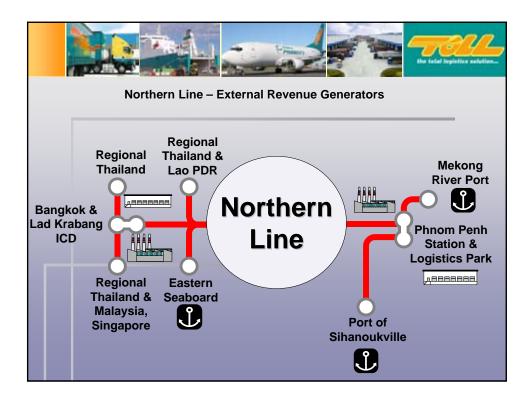


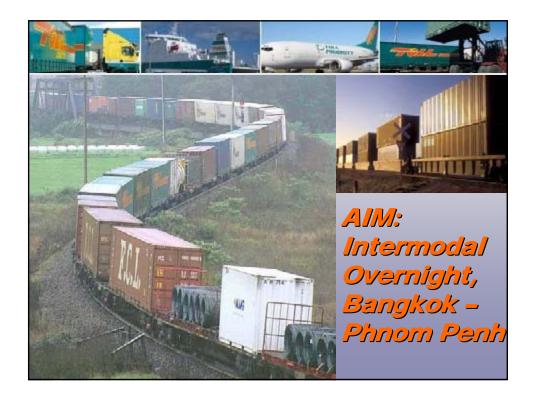


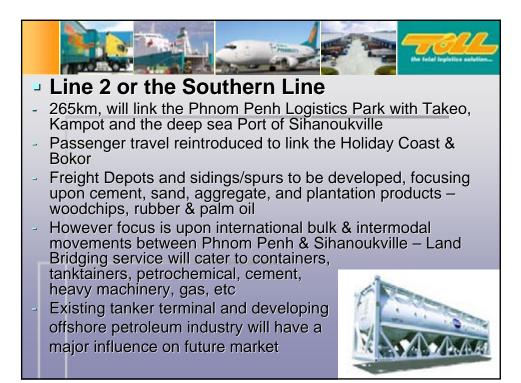


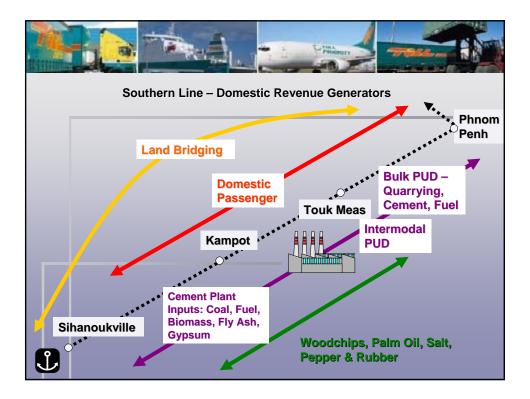


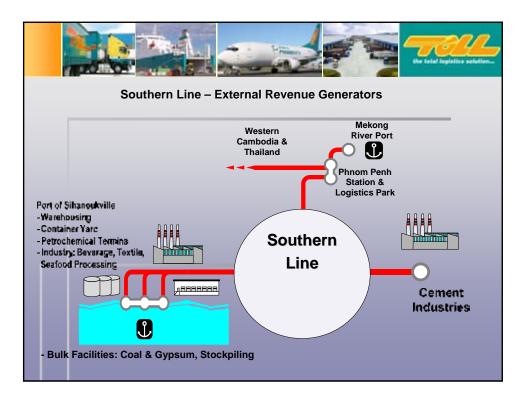


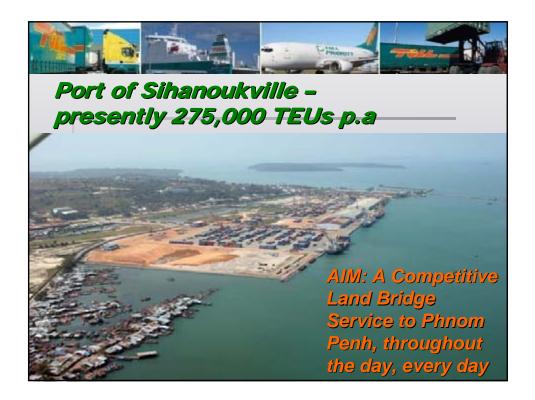


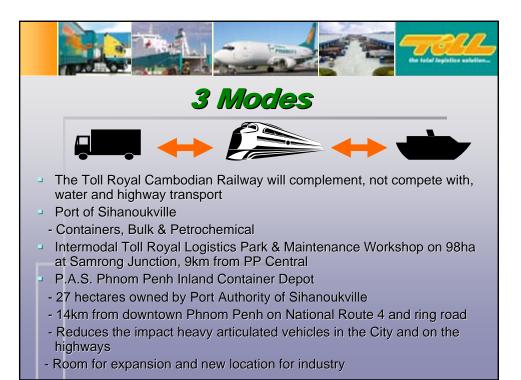


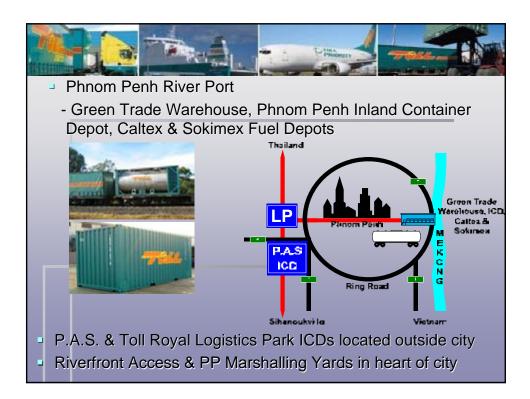


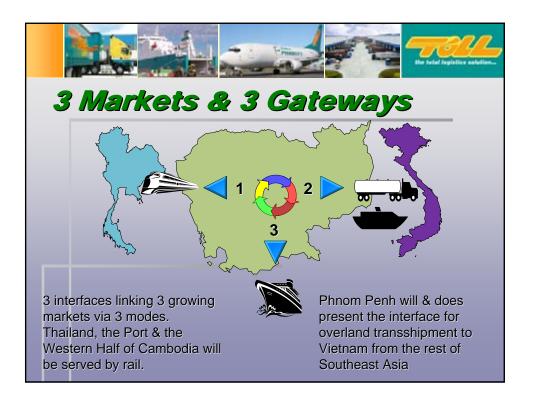


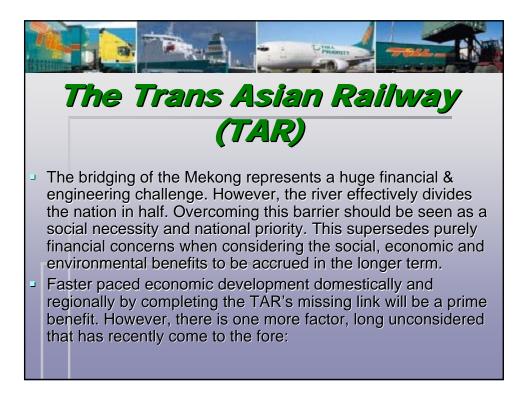




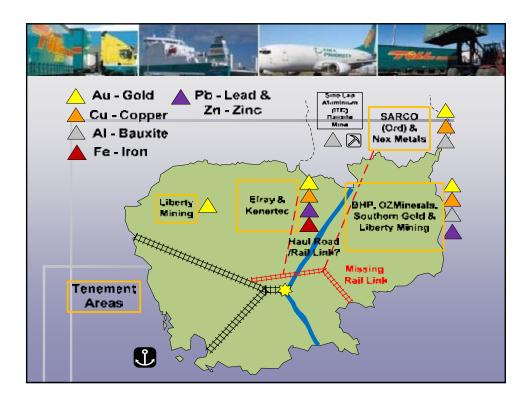








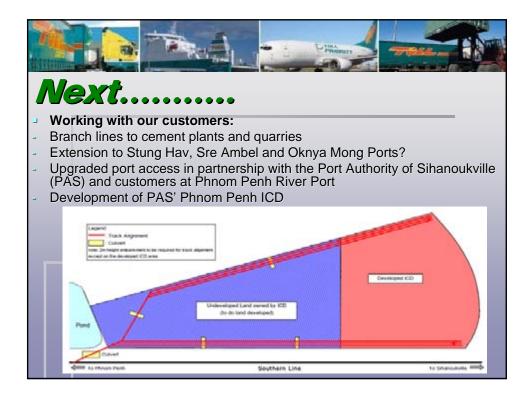




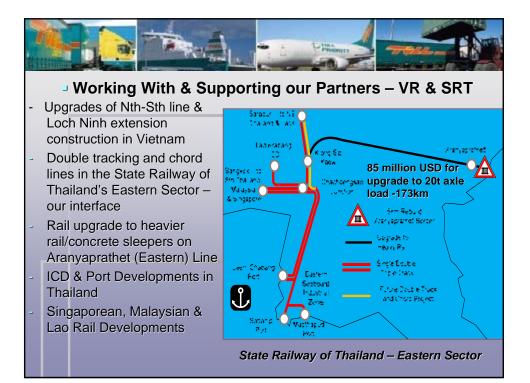






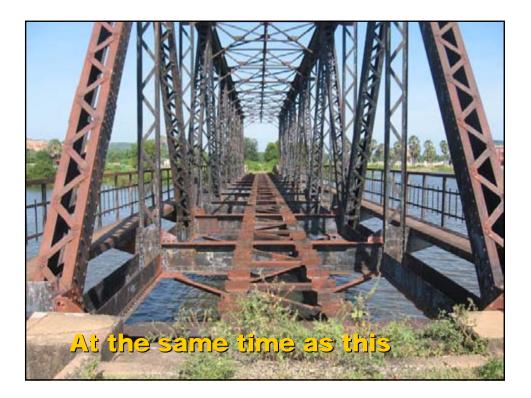


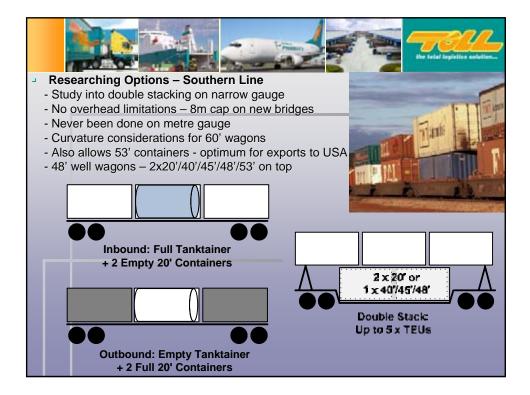




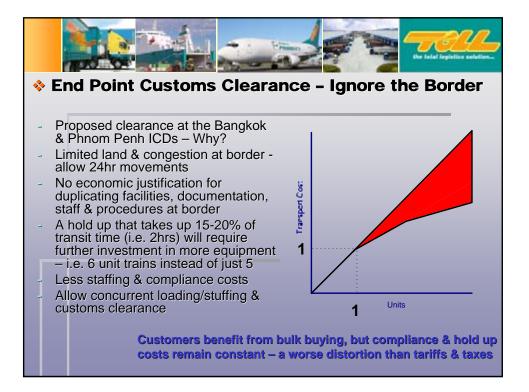


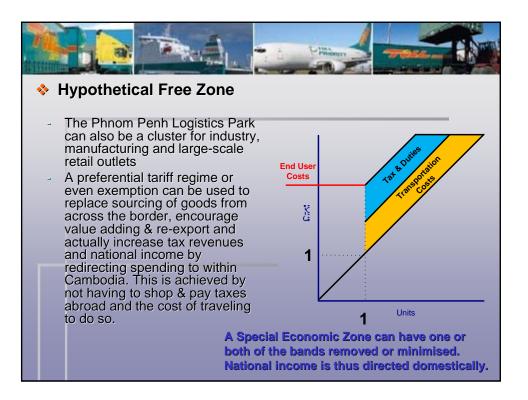


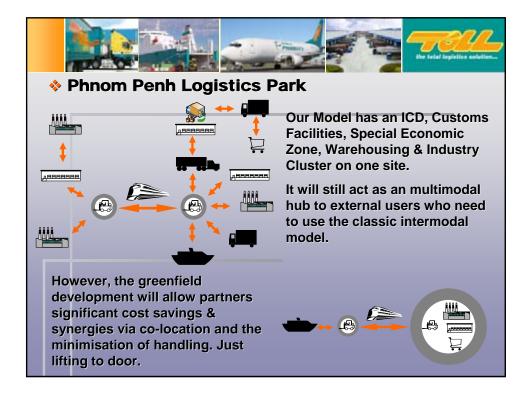




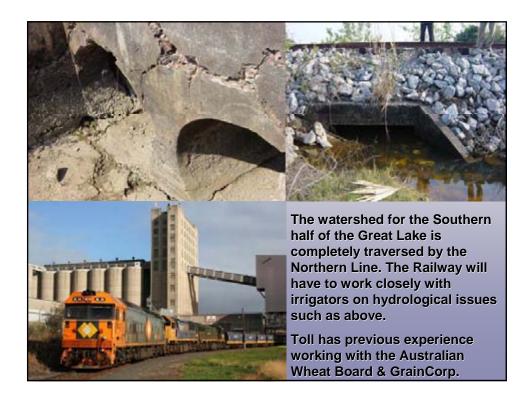




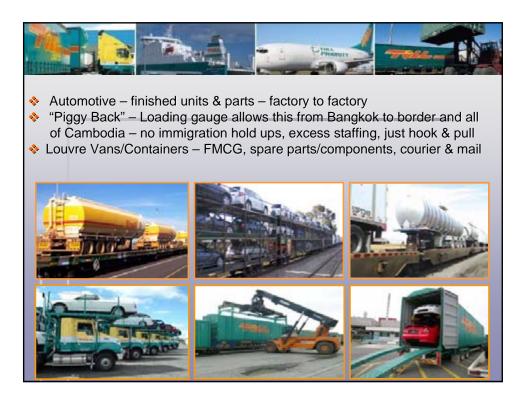


















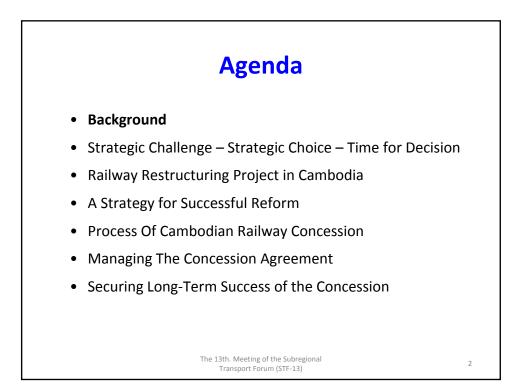


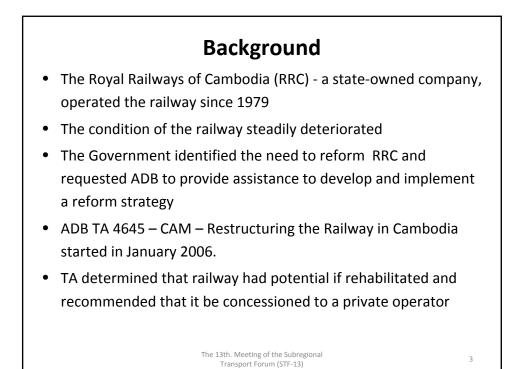
Restructuring of the Railway in Cambodia TA 4645-CAM

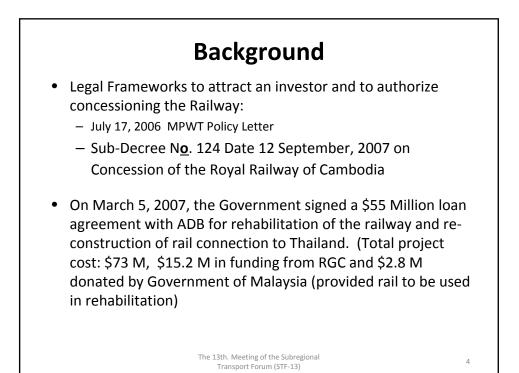
"Process and Lessons Learned"

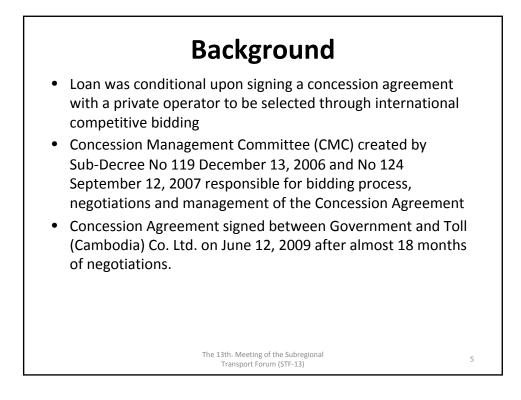
SOK NATY

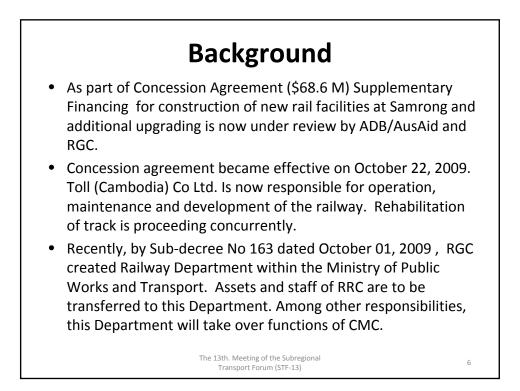
Ministry of Public Works and Transport Concession Management Committee

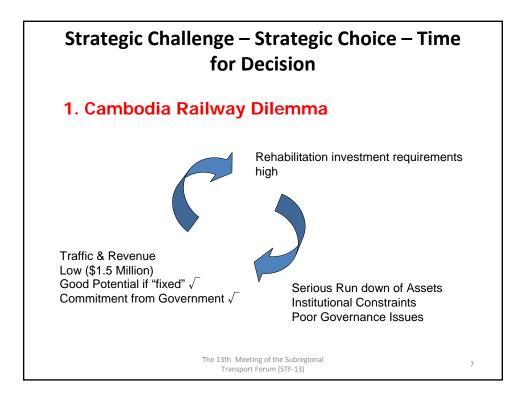


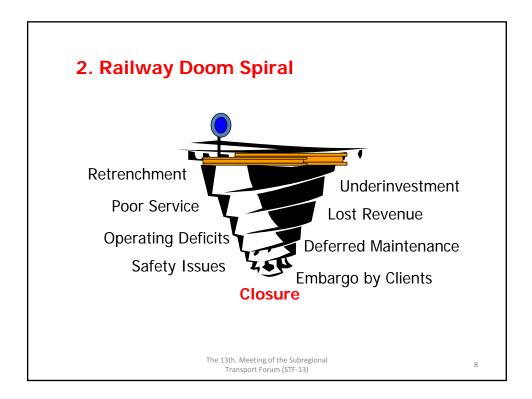




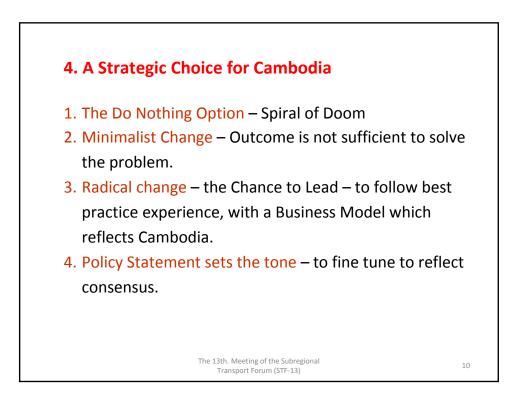


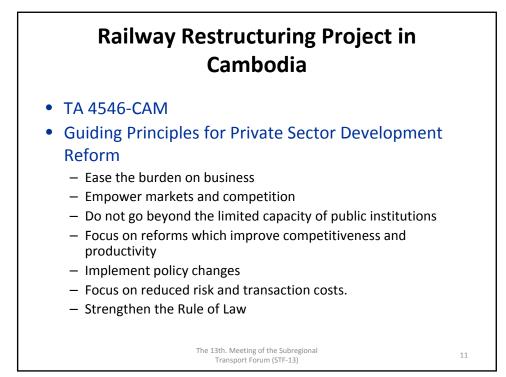






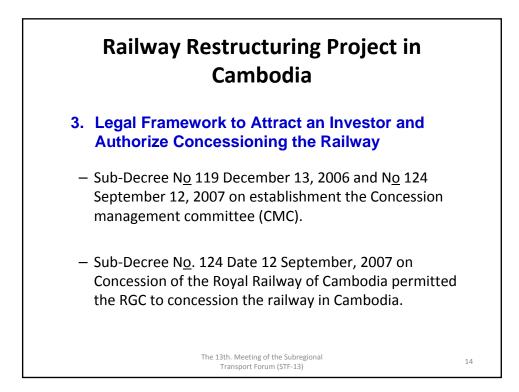












Railway Restructuring Project in Cambodia

4. Business Case for three "Clients" - the Government, the People and the Investor

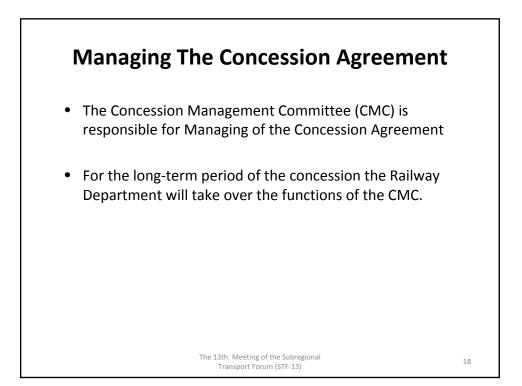
- Information Memorandum is the lead for investors
- Policy Statement is the catalyst (Policy letter)
- Sub-decree on Railway Concession and Concession Agreement are the vehicles.
- Concessionaire and Properties Development are the financial drivers
- Web site and Media/Public Relation will maintain continuity.

The 13th. Meeting of the Subregional Transport Forum (STF-13)

15

Process Of Camb Conce	-	
 Signing of the RRC Concession A for the loan agreement with AI Rehabilitation Project (Loan : 2 loan and supplementary loan of 	DB for the Railway 288-GMS), included primary	I
 Financers: Asian Development Bank Government of Australia OFID Government of Malaysia (grant in kind) Royal Government of Cambodia 	 \$ 84.0 Million \$ 21.5 Million \$ 13.0 Million \$ 2.8 Million \$ 20.3 Million 	
The 13th. Meeting of Transport Foru	0	16











GMS Rail Strategy Study Draft Final Report

🧐 Part 1

Current Status of the Railways and International Railway Transport in the GMS and Key Findings of the Study

CANARAIL

Author's Note

- When this presentation was prepared, the trade and rail traffic projections for the GMS were not yet completed. As a result, the findings of economic analysis are also not available. Therefore:
- SOME OBSERVATIONS ARE PROVISIONAL; AND
- RECOMMENDATIONS ON INVESTMENT PROJECT
 PRIORITIES ARE SUBJECTIVE

Introduction

- Studies projecting significant increases in GMS intraregional trade and trade between the GMS on other regions are numerous
- Assuming that this trade growth will result in more business for railways, the question is - are the GMS railways ready to meet the challenge? The answer is yes and no
- As we have seem from the country reports, there is a significant focus in all GMS countries on building and upgrading rail lines

Developments in GMS Railways

🧔 PRC

- Completing new double track standard gauge lines to Lao PDR, Myanmar & Vietnam borders
- Supprading lines line linking Kunming-Nanning

🧔 Vietnam

- Supprading Yen Vien-Lao Cai (ADB Loan)
- Upgrading Ha Noi to Ho Chi Minh City
- S Assessing scope for high speed rail for passenger services
- Assessing feasibility of line from Ho Chi Minh to border with Cambodia (upgrading and construction)
- Assessing feasibility of line to Lao PDR
- Has implemented some restructuring by separating infrastructure from services



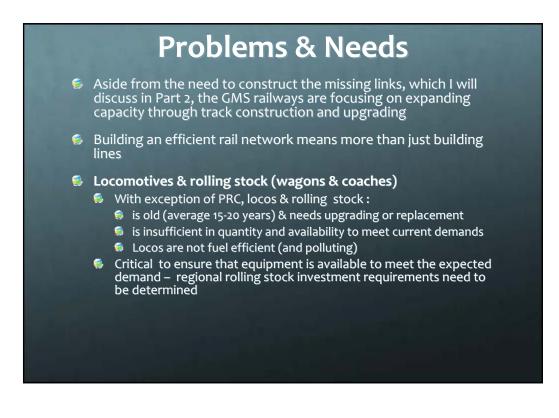
Developments in GMS Railways

< Thailand

- Extensive double tracking and line upgrading is in progress
- Is reviewing scope for upgrading line to Lao PDR, reconstruction of link to Cambodia and line to PR China via Chiang Mai.

🧔 Myanmar

Extensive upgrading and re-building of national rail network is underway



Problems & Needs

Sommunications , signalling & train control

- other than in PR China "manual systems prevail, modern systems lacking
- so modern systems can increase track capacity (reduce bottlenecks)
- new systems can improve rail safety region wide problems with encroachments and road crossings

Interoperability

- Need to set minimum technical standards (structure gauge, axle loads & speeds) so equipment can be used throughout GMS
- Track gauge differences not an impediment

Problems & Needs

Railway organizations

- Over-staffed, low productivity
- Staff need skills upgrading for new technology training needs assessment
- Management information systems lacking
- Rarely any commercial focus need to generate sufficient revenue to relieve investment burden on the state
- Organizational change necessary:
 - 🋸 in Thailand & Myanmar
 - in progress in Cambodia and Vietnam but help needed to continue

Problems & Needs

Regulatory environment

- Reform needed to:
 - 👶 facilitate organizational change
 - 🆸 to encourage private investment
 - 🍯 To permit pricing freedom

Cross Border Issues

- ScBTA successful for trucking & road travel
- Most countries have little experience with rail cross border
- Sail shippers and travelers in Vietnam & China experiencing delays
- GMS railways need to agree on technical protocols for rail and then to harmonize cross border procedures.
- Develop an EDI approach for rail freight

Problems & Needs

🍕 Intermodal

- Network needs to be connected to road investment in ICD's will be needed
- Determine requirements with participation of private sector

Data Needs

- Has been very difficult to obtain cross border trade data
- Good information essential for planning and monitoring progress
- Need a linked rail database accessible to all GMS countries – with a common statistical reporting framework
- GMS rail annual statistical report





GMS Rail Strategy Study Draft Final Report

Part 2

Proposed Goals and Strategy for the Development of an Integrated GMS Railway Network



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Goals

- 4. To support the development of GMS railway organizations
- 5. To develop best practice in the regulation of GMS railways
- 6. To involve the private sector in the planning and development of the GMS railway network

Strategy

1:Make investments to construct missing links to ensure that there is at least one GMS rail route is completed by 2015 (?)

S Imperative that at least one complete route is connected

- S Important to Governments, private investors and public
- Investment required is considerable > \$1 Billion++
- Sequires decision on which route should be the priority
- 3 Potential routes (are there others?)
 - Bangkok-Phnom Penh-Ho Chi Minh City-Kunming
 - Bangkok-Vientiane-Kunming (via Boten/Mohan)
 - Bangkok-Chiang Rai-Jinghong (via Myanmar)-Kunming
- SEE Handout 1

Strategy 1

- Route selection criteria
 - Relation to GMS Economic Corridors
 - Traffic potential
 - Investment required & economic feasibility (EIRR)
 - Level of interest and marketability
 - Connectivity
 - Senvironmental/social impacts
- S Discussion what "weight" should apply to each criteria?
- Selecting priority route does not mean others won't be built

Route/Principal Nodes	Relation to GMS Economic Corridors (EC)	Traffic Potential (Freight & Passenger)	Investment Required & Economic Feasibility (EIRR)	Perceived Level of Marketability	Connectivity (Rank)	Environmental/Socia Impacts
Sangkok-Phnom Penh-Ho Chi Minh City-Kunming	Links North South and Southern EC's by rail		\$1.2 Billion	High	4	LOw
Bangkok-Phnom Penh-Ho Chi Minh City-Kunming (+ Vung Anh-Vientiane- Ihanalaeng)	Links North South and Southern EC's by rail		Need cost estimate for Vung Anh-Tan Ap-Mu Gia-Vientiane	Medium	2	Low
Bangkok-Vientiane-Kunming (via Kotën/Mohan)	Links North South EC by rail		Need cost estimate for Ventiane-Boten-Mohan	Low	5	Unknown
and the second second from	Links North South and Southern EC's by rail		Need cost estimate for Vientiane-Boten/Mohan	Medium	3	Unknown
	Links North South EC by rail		Need cost estimate for Den Chai Chiang Rai-Jinghong	Medium	4	Negative reaction to Chiang Rai routing in Thailand
	Links North South EC, part of East West EC and part of Southern EC by roll		Need cost estimates for: Den Chai-Chiang Rai-Jinghong and Vientiane Boten/Mohan	High	1	Negative reaction to Chiang Rai routing in Thailand

Strategy 1

- Missing some information needed to determine priority (EIRR, capital costs)
- Connectivity is important adding a link increases connectivity of existing lines
- Would like forum's input on connectivity assessment

Strategy 2

- INVEST IN UPGRADING THE CAPACITY OF SUPPORTING LINES
- There is no point in investing in construction of links if supporting railway lines (and railways themselves) are inadequate
 - Infrastructure
 - Locos and rolling stock
 - Railway organizations
 - Intermodal connections

Strategy 3

PROVIDE SUPPORT TO TECHNICAL ASSISTANCE INITIATIVES VITAL TO ACHIEVING AN EFFICIENT RAIL NETWORK

- Supports development of efficient, seamless and integrated network
- Requires Technical Assistance support for
 - determining infrastructure upgrading needs on existing lines
 - stock needs
 - implementing organizational change and development
 - Regulatory reforms
 - Solution Standards
 - Building cooperation among GMS railways

Strategy 4

ESTABLISH A GMS RAIL COORDINATION OFFICE IN THE GMS

Building an interconnected and seamless rail network is a massive undertaking on a regional scale

Role is to

- S Assist in mobilization of public & private capital investment
- Coordinate and monitor progress of a diverse array of activities
- Provide information and communicate with
 - 👶 Government
 - Public
 - Private sector
 - 🏟 GMS railways

GMS Rail Strategy Study Draft Final Report

🧐 Part 3

Proposed Action Plan for the Next Ten Years



Preliminary List of Proposed Projects

Line construction priorities dependant on

Selection of priority routing

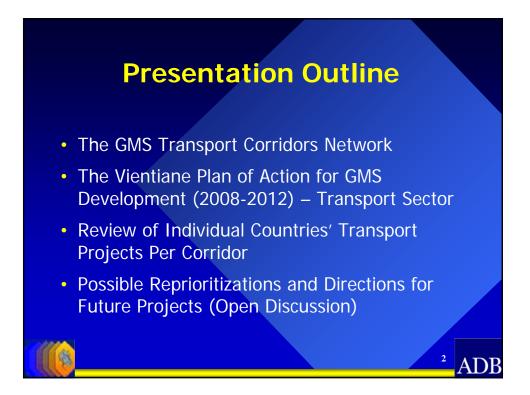
(Additional information needed to complete evaluation - economic analysis, traffic forecasts)

- Project list depends on input from Forum your additions , deletions and priorities
- SEE Handout #2 which will be basis for discussion

List of Possible Projects

Reference #	Rail Line or Project	Country	Brief Project Description	Estimated Capital Cost (\$ Million)	Comments	Consultant's Recommendation on Priority
1	Aranyapathet-Cambodia Border	Thailand	Line restoration	5		
2	Thanalaeng-Vientiane Extension	Lao PDR	New line construction	25	Feasibility study completed	
3	Thanalaeng-Lak Sao-et (20 Km extension)	Lao PDR	New line construction	20	Potential PPP - Feasibility Study	
4	Phnom Penh-Loc Ninh	Cambodia	New line construction	600	Feasibility Study in progress	
5	Loc Ninh-Di Anh (HCMC)	Vietnam	New line construction & restoration	570	Feasibility Study	
6	Nam-Tok-Three Pagoda Pass-Thanbyuzayat	Thailand	New line construction		Determine Thailand's plans	
7	Thanbyuzayat-Three Pagoda Pass	Myanmar	New line construction	250		
8	Vung Anh-Tan Am-Mu Gia	Vietnam/Lao PDR	New line construction		Feasibility Study	
9	Vientiane-Mu Gia	Lao PDR/Vietnam	New line construction		See project # 28	
10	Menghzi-Hekou	PR China	New line construction	1200	Construction in progress	
11	Vientiane-Boten-Mohan	Lao PDR/PR China	New line construction		See project # 28	
12	Yuxi-Mohan	PR China	New line construction		Construction in progress - extent of construction depends on Lao PDR plans	
13	Dali-Ruili	PR China	New line construction	2200	Construction in progress - extent of construction depends on Myanmar plans	
14	Lashio-Muse-Ruili	PR China/Myanmar	New line construction	480		
15	Savannakhet-Bao Lao-Dong Ha	Lao PDR/Vietnam	New line construction		See project # 28	
16	Bua Yai-Mukdahan-Savannakhet	Thailand/Lao PDR	New line construction			
17	Den Cai-Chang-Rai-Mae Sai	Thailand	New line construction		Feasibility study	
18	Mae-Sai-Jinghong-Kunming	Thailand/Myanmar/PR China			Feasibility study	
20	Bangkok-Nong Khai	Thailand	Capacity upgrading		Supporting Line - study in progress	
21	Klong Sip Kao-Aranyaprathet	Thailand	Capacity upgrading	60	Supporting Line - study complete	
22	Bangkok-Den Chai	Thailand	Capacity upgrading		Supporting Line	
23	Lashio-Mandalay	Myanmar	Capacity upgrading	700	Supporting Line - study needs updating	
24	Kunming-Nanning	PR China	Capacity upgrading		Supporting Line	
25	Hanoi-Ho Chi Minh	Vietnam	Capacity upgrading	620	Supporting Line - upgrading in progress	
26	Dong Dang-Hanoi	Vietnam	Capacity upgrading		Supporting Line	
27	Yen Vien-Hanoi-Haiphong	Vietnam	Capacity upgrading		Supporting Line	
28	Comprehensive assessment of proposed rail developments in Lao PDR	Lao PDR	Railway Sector Strategic Plan		Will aid in determination of preferred/feasible routings	Н
29	ICD Development Study	Regional	Determine scope for and investment required in ICD		Involves private sector	L
30	GMS Railway Minimum Technical Standards	Regional	Establish & support regional working group to decide on standards		Common standards essential for network connectivity & interoperability	н
31	GMS Railway Rolling Stock Needs	Regional	Long term investment needs assessment & strategy			н
32 33	GMS Railway Training Needs Rolling Stock Leasing	Regional Regional	Long term investment needs assessment & strategy Determine potential for development of private leasing companies		Involves private sector	M L
34	GMS Railway Transshipment/Exchange Facility Needs		Investment needs assessment & strategy		To facilitate logistics chains and smooth functioning of network	М
35	Cross Border Rail Technical Protocols	Regional	Establish & support regional working group to define and resolve issues		To facilitate logistics chains and smooth functioning of network	Н
36	Harmonization of Cross Border Procedures	Regional	Establish & support regional working group to define and implement a process for harmonizing customs procedure for rail		To facilitate logistics chains and smooth functioning of network	М
38	GMS Rail Database & Information Network	Regional	Establish & support regional working group			M
39	Railway Organizational Restructuring	Vietnam	Develop blueprint for next stages of restructuring		Supports efforts already accomplished	М
40	Railway Organizational Restructuring	Thailand	Assistance on public/private/employee consultation & development of strategy		Necessary first step if restructuring to be considered	Н
41	Regulatory Reform	Regional	Assessment of need for Regulatory and Legislative Reform	S	Lack of reforms are a barrier to private sector participation	Н
42	Assessment of Safety Issues in GMS Railways	Regional	Assess safety issues and develop model standards and regulations			М
43	GMS Rail Coordination Office	Regional	Establish & support regional coordination/liaison office		Essential for coordination of major regional undertaking	Н



























Vientiane Plan of Action (VPOA) for GMS Development, 2008-2012 Endorsed and adopted by the Third GMS Summit (March 2008, Vientiane, Lao PDR) Enhancing economic competitiveness and accelerating our economic and social development process through the greater use of improved and expanded connectivity • In the Transport Sector, among the key Summit directives are: o accelerate the completion of GMS transport corridors; o develop other transport modes, particularly railways; o develop a road system that supports subregional tourism; o extend subregional transport connectivity to the poor and remote areas. ADB

Code/ Number	Project Name	Corridor
1	GMS Cambodia Northwest Provincial Road Improvement Project (Cambodia)	Southern Corridor
2	Border Crossing Facility at the Cambodia/Lao PDR Border (road linking National Road 7 in Cambodia and National Road 13 in Lao PDR) (<i>Cambodia and Lao PDR</i>)	Southern Corridor
3	Phnom Penh-Neak Loueng Road and Mekong Bridge at Neak Loueng (Cambodia)	Southern Corridor
4	Nakhon Phanom-Khammouane Mekong Bridge (Lao PDR and Thailand)	Central Corridor
5	Highway 1020, 1152: Chiang Khong-Chiang Rai Section 1 Highway 1020, 1152: Chiang Khong-Chiang Rai Section 2 (<i>Thailand</i>)	North-South Corridor
6	North-South Economic Corridor International Mekong River Bridge (with financial assistance from the People's Republic of China and Thailand) (<i>PRC, Lao PDR, and Thailand</i>)	North-South Corridor
7	Highway 1016: Mae Chan-Chiang Saen, including Chiang Saen bypass (<i>Thailand</i>)	North-South Corridor

Transport Projects in the VPOA				
Code/ Number	Project Name	Corridor		
8	Highway 1290: Mae Sai-Chiang Saen (Thailand)	North-South Corridor		
9	GMS Ha Noi-Lang Son Expressway Project (Viet Nam)	Eastern Corridor		
10	GMS Ha Long-Mong Cai Expressway Project (Viet Nam)	Eastern Corridor		
11	Ben Luc-Long Thanh Expressway (Viet Nam)			
12	Second GMS Northern Transport Network Improvement: Louangphrabang-Thanh Hoa (Lao PDR and Viet Nam)	Northeastern		
13	Western Yunnan Roads Development Project II (PRC)	Northern Corridor		
14	GMS Southern Coastal Corridor (SCC), Phase II (Viet Nam)	Southern Coastal Corridor		
儀		16	ΔΓ	

	Transport Projects in the		
Code/ Number	Project Name	Corridor	
15	Central Mekong Delta Transport Connectivity (Viet Nam)	Eastern Corridor	
16	Dali-Lijiang Road Upgrading (PRC)	Northern Corridor	
17	Baise-Debao-Longbang Expressway (PRC)	Northern Corridor	
18	Hechi-Baise Expressway (PRC)	Northern Corridor	
19	Route 14A: Junction Route 16-Lao PDR/Cambodian Border (Lao PDR)	Central Corridor	
20	Route 16A: Junction Route 16-Junction Route 11 (Lao PDR)		
21	East-West Corridor: Thingannyinaung-Kawkareik (Myanmar)	East-West Corridor	
		17	ADB

Code/	Transport Projects in the Project Name	Corridor	
Number			
22	Mae Sot-Mukdahan Upgrading (Thailand)	East-West Corridor	
23	GMS Highway Expansion Project (Thailand)	East-West Corridor and	
		Southern Corridor	
24	Bridge over Mekong between Xieng Kok and Kyaing Lap including Access Road from Tarlay-Kyainglap <i>(Lao PDR and Myanmar)</i>	North-South Corridor	
25	Bien Hoa-Vung Tau Expressway (Viet Nam)	Eastern Corridor	
26	Dau Giay-Lien Khuong Expressway (Viet Nam)	Eastern Corridor	
27	GMS Dau Giay-Phan Thiet-Nha Trang Expressway (Viet Nam)	Eastern Corridor	

