

10th Regional EST Forum in Asia, 14-16 March 2017, Vientiane, Lao PDR

Intergovernmental Tenth Regional Environmentally Sustainable Transport (EST) Forum in Asia

2030 Road Map for Sustainable Transport ~Aligning with Sustainable Transport Development Goals (SDGs)~

Country Report

(Draft)

<Cambodia>

This country report was prepared by the Government of Cambodia as an input for the Tenth Regional EST Forum in Asia. The views expressed herein do not necessarily reflect the views of the United Nations.

Cambodia

Country Report: (10th Regional EST forum in Asia,14-16 March 2017, Vientiane)

The implementation of the “**Rectangular Strategy**” is the further efforts to sustain the achievements that the Royal Government has to realize the “**Millennium Development Goals**” with the aim of improving and enhancing public institutional capacity, promoting good governance, and modernizing economic infrastructure in order to foster economic growth sustainable development and poverty reduction.

Key Findings

While remaining robust, growth in 2015 eased to 7%, slightly below the 7.1% achieved in 2014. Fiscal performance has improved, with substantial revenue growth and contained expenditures continuing to curb the overall fiscal deficit, while the public sector wage bill is on the rise, and is budgeted at 7.2% of GDP in 2016.

Growing internal demand has pushed up inflation, which reached 2.3% in February 2016. The Cambodian Riel appreciated slightly, reaching 4,008 Riel per US dollar in February 2016.

Cambodia’s real growth is projected to remain healthy at 6.9% in 2016, driven partly by a significant increase in government spending with fiscal expansion. Strong garment exports and improving tourism should help to offset a slowdown in agriculture, while construction sector growth could ease.

Improving the overall business environment would enhance competitiveness across sectors, underpinning product and market diversification, while also helping firms to be well prepared to take advantage of the single market and production base goal set by the ASEAN Economic Community.

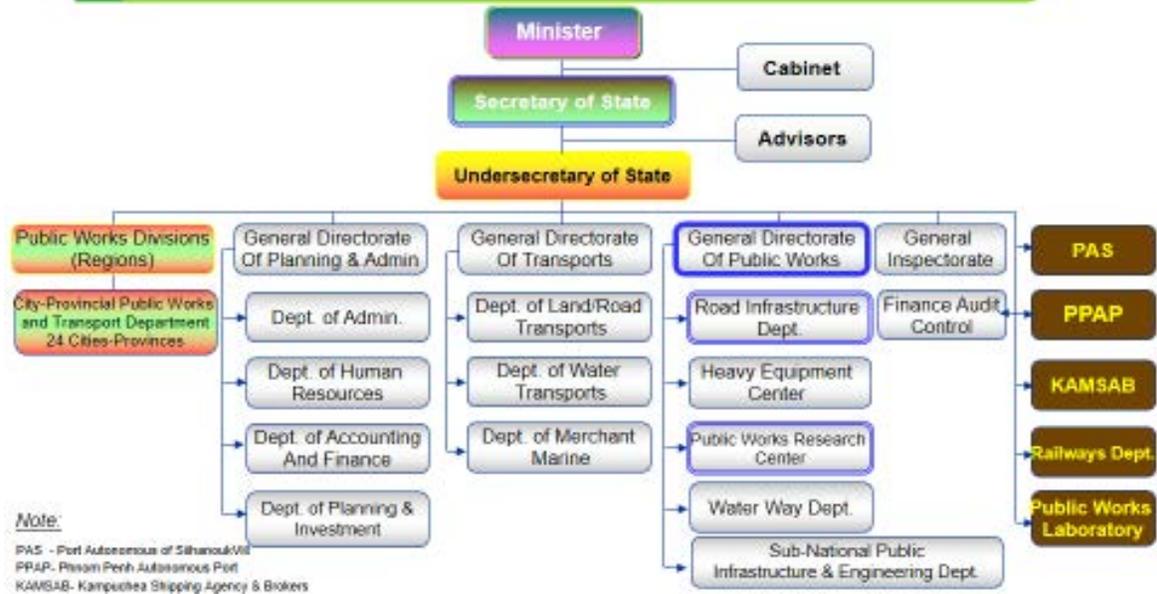
The Ministry of Public Work and Transport is responsible for implementing the national policy concerning construction of all public works, including roads, bridges, ports, railways and waterways.

Mission and Function:

The Ministry of Public Works and Transport is decreed by the Royal Government of Cambodia to lead and manage the public works and transport sector in The Kingdom of Cambodia:

- Manage the Implementation of national policy concerning all public works construction by establishing the principles of laws and cooperate with various organizations to develop the country.
- Build, maintain manage all the transportation infrastructure such as roads, bridges , ports.
- Establish the regulations for the development of the roads, ports, railways and waterway infrastructure.
- Establish the regulations and control the transport by road, railway and waterway.
- Participate and cooperate to establish laws, regulations, standard concerning the construction of Transport infrastructure.
- Realize the other constructions that the Royal Government entrusts to it,
- Cooperate with the Secretariat of Civil Aviation concerning all airport construction works.

Structure of MPWT

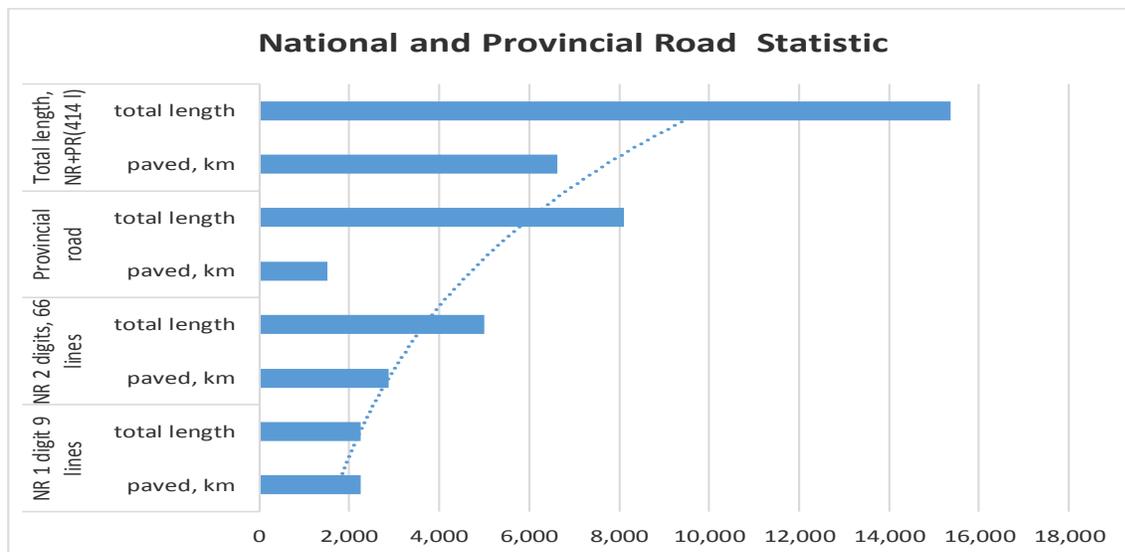


I-Road Sector

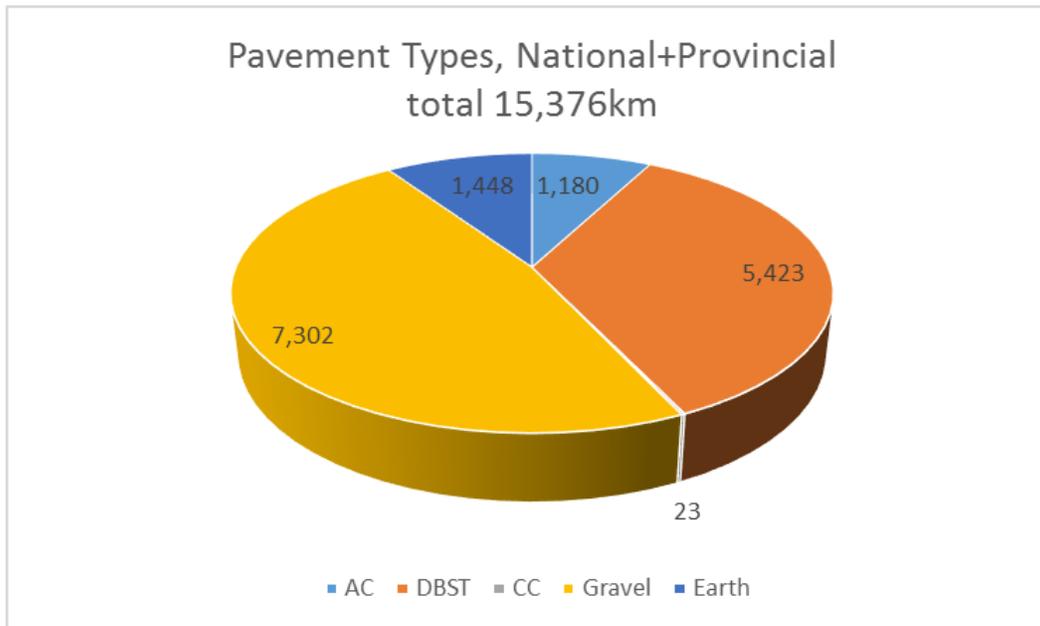
The total length of roads in Cambodia measured 47,263 km, 74% of which were rural, provincial roads. As of 2016, about 15,376 km of national and provincial roads were paved.

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NR 1 digit 9 lines		NR 2 digits, 66 lines		Provincial road		Total length, NR+PR(414 I)	
paved, km	total length	paved, km	total length	paved, km	total length	paved, km	total length
2,254	2,254	2,865	5,007	1,507	8,115	6,627	15,376



Pavement Types, National + Provincial, data GDPW					
AC	DBST	CC	Gravel	Earth	Total, km
1,180	5,423	23	7,302	1,448	15,376



I-1 Road Classification:

Road Classification	Road Design Target
A-1 Digit National Roads	To improve the road to be all weather condition by asphalt concrete (AC) pavement with sufficient capacity and standard for international corridor
B-2 Digit National Roads	To improve the road to be highway class function under all weather condition by AC or DBST surfacing
C- Provincial & Rural Roads	To maintain the road function level to be trafficable in accordance with traffic demand by strengthening the road maintenance system

I-2 Road Development Strategy:

Strategy 1: Enhancement of Multi Growth Pole Development

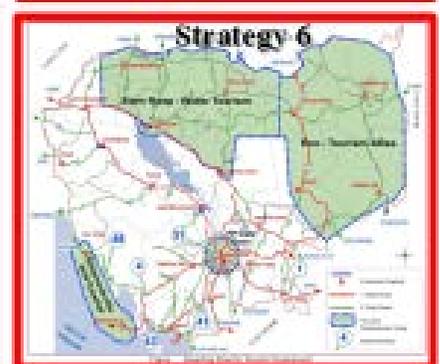
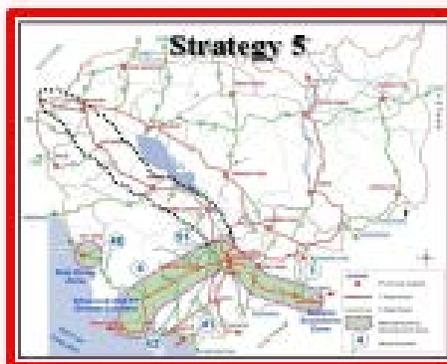
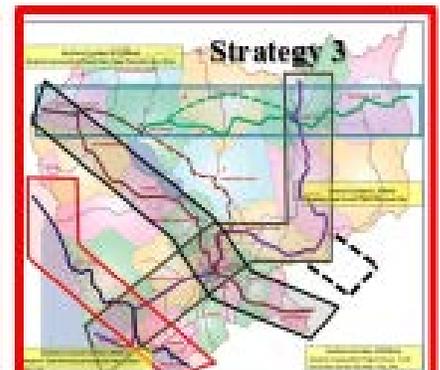
Strategy 2: National Integration

Strategy 3: Development of International Corridors for Cambodia Regional Integration

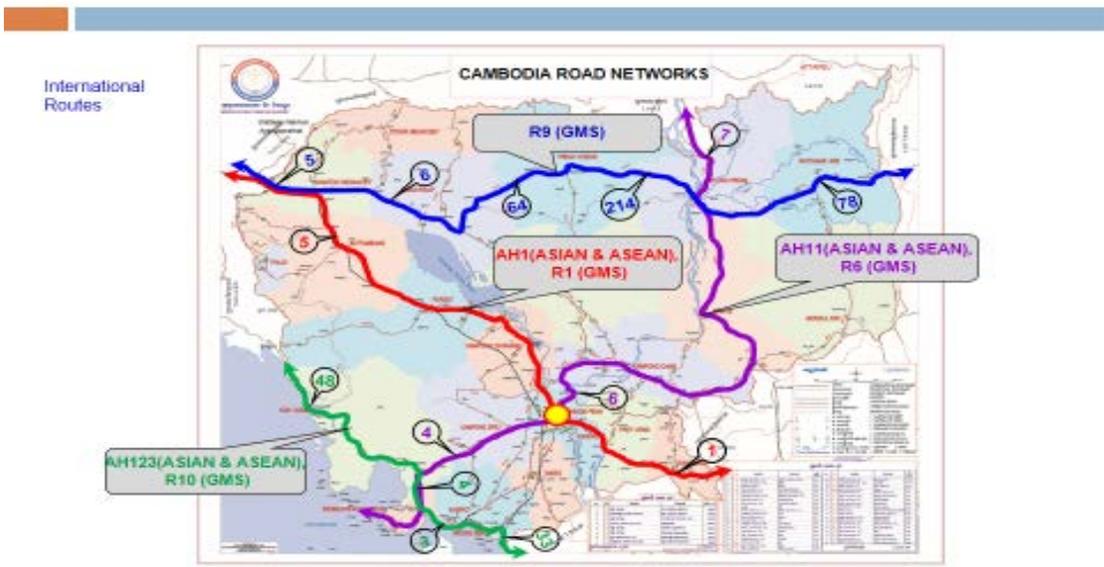
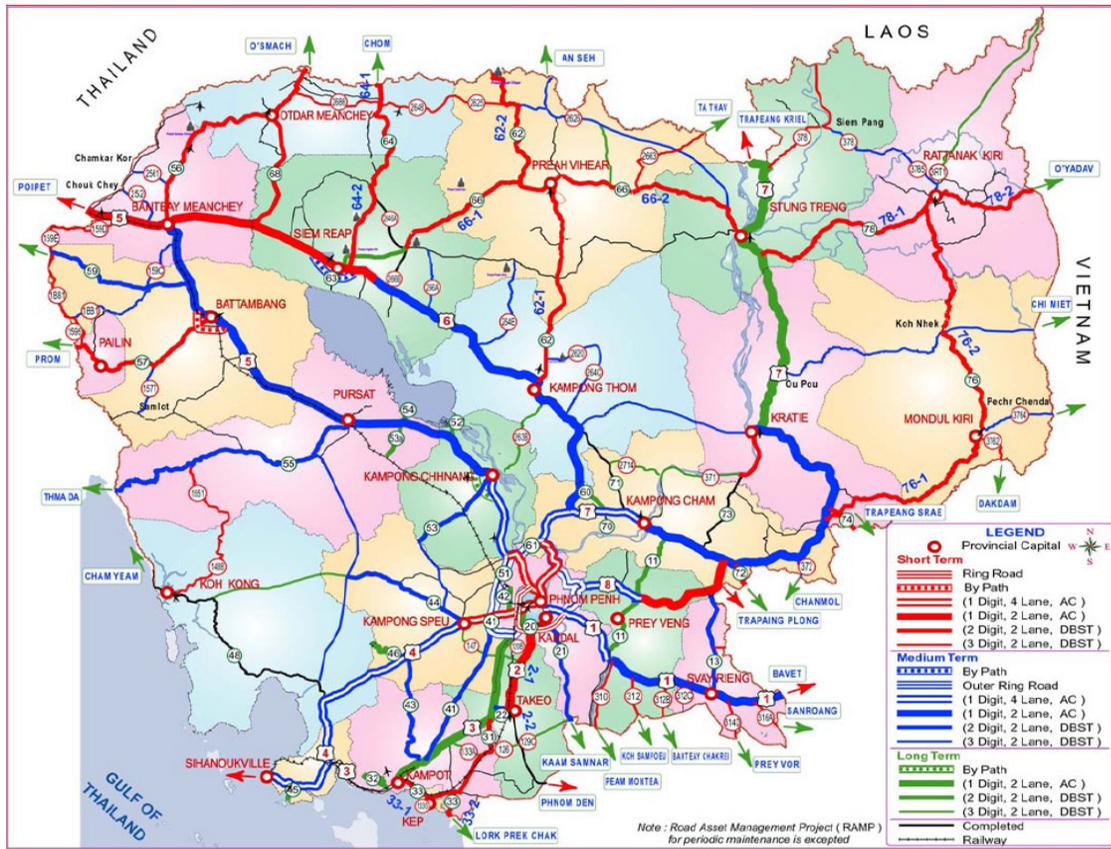
Strategy 4: Strengthening of Economic Growth Corridor Development

Strategy 5: Strengthening of Economic Growth Corridor Development

Strategy 6: Promotion of Tourism Development

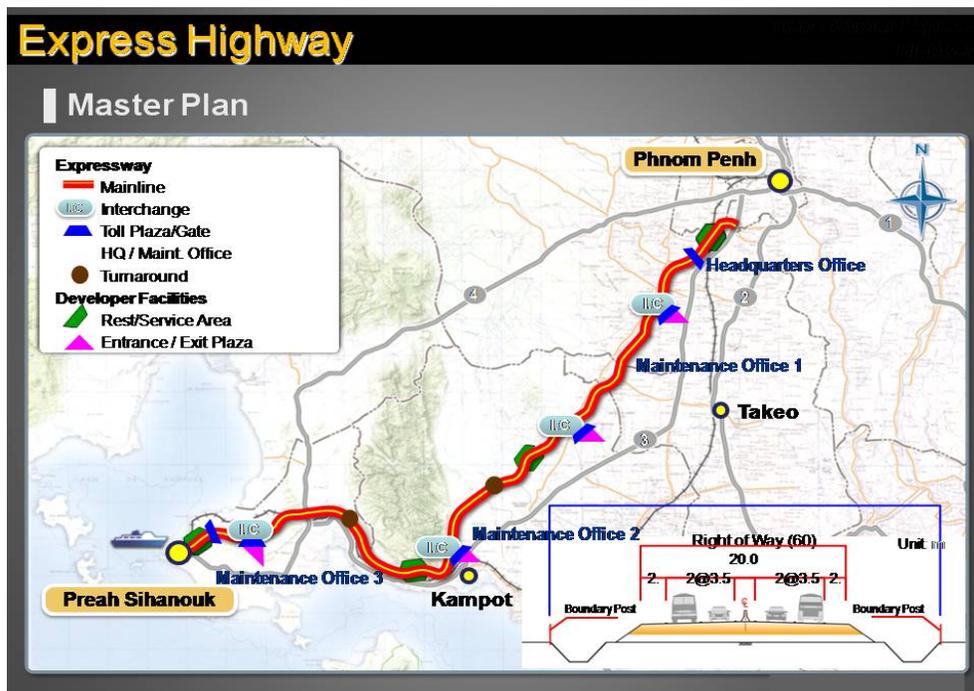
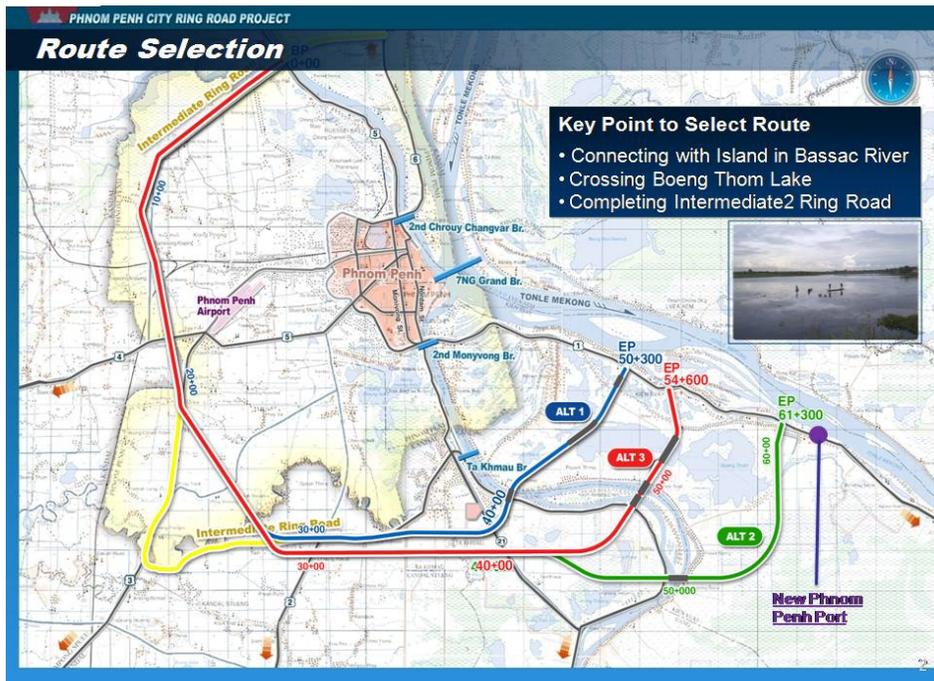


II-Cambodia road network 2023



III-Future Potential Road Investment Projects:

- I- Construction of Phnom Penh Intermediate 2 Ring Road
- 2- Construction of New Highway from Phnom Penh to Preah Sihanouk Province

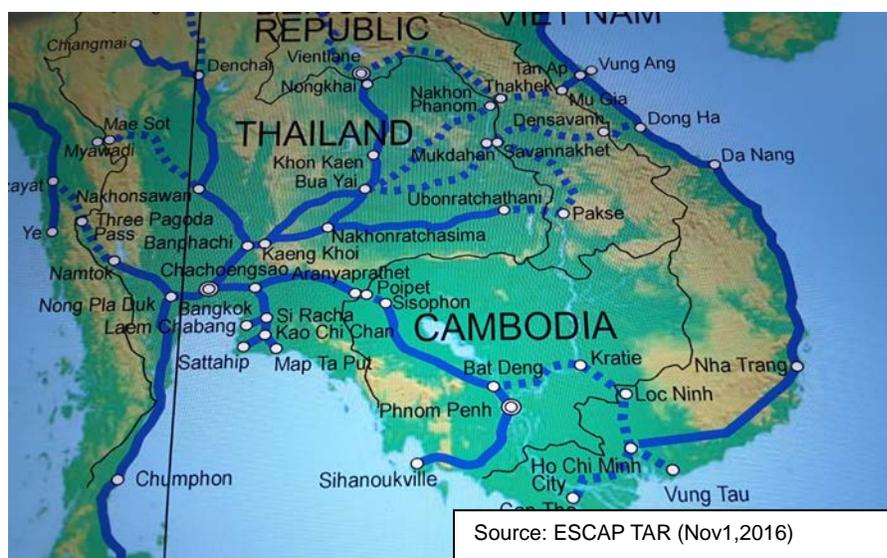
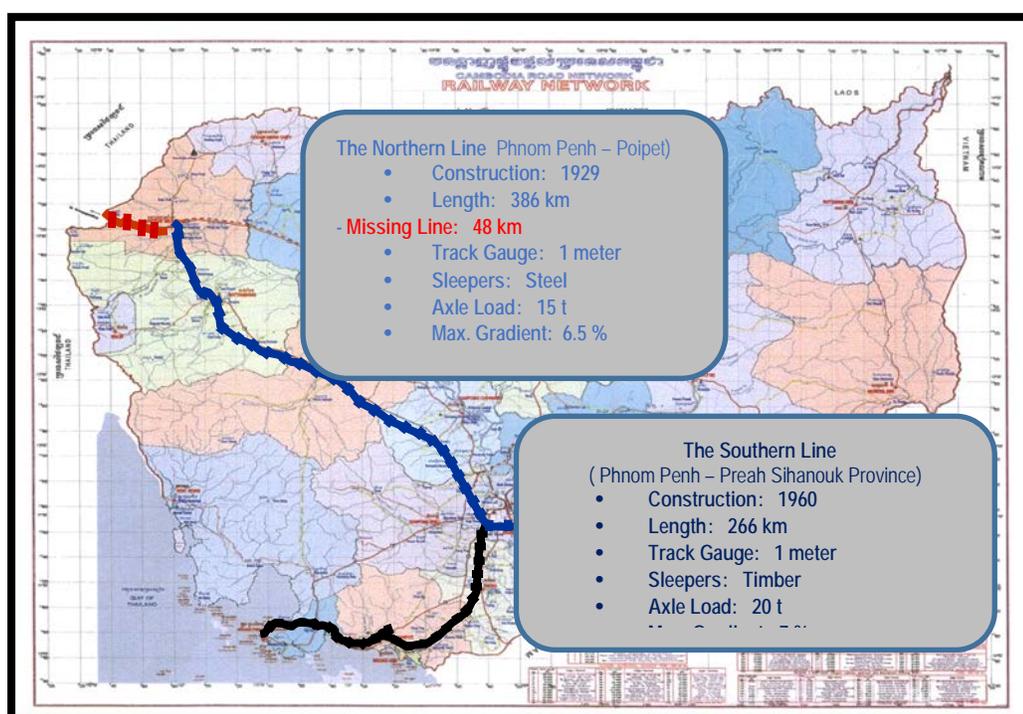


IV-Railway

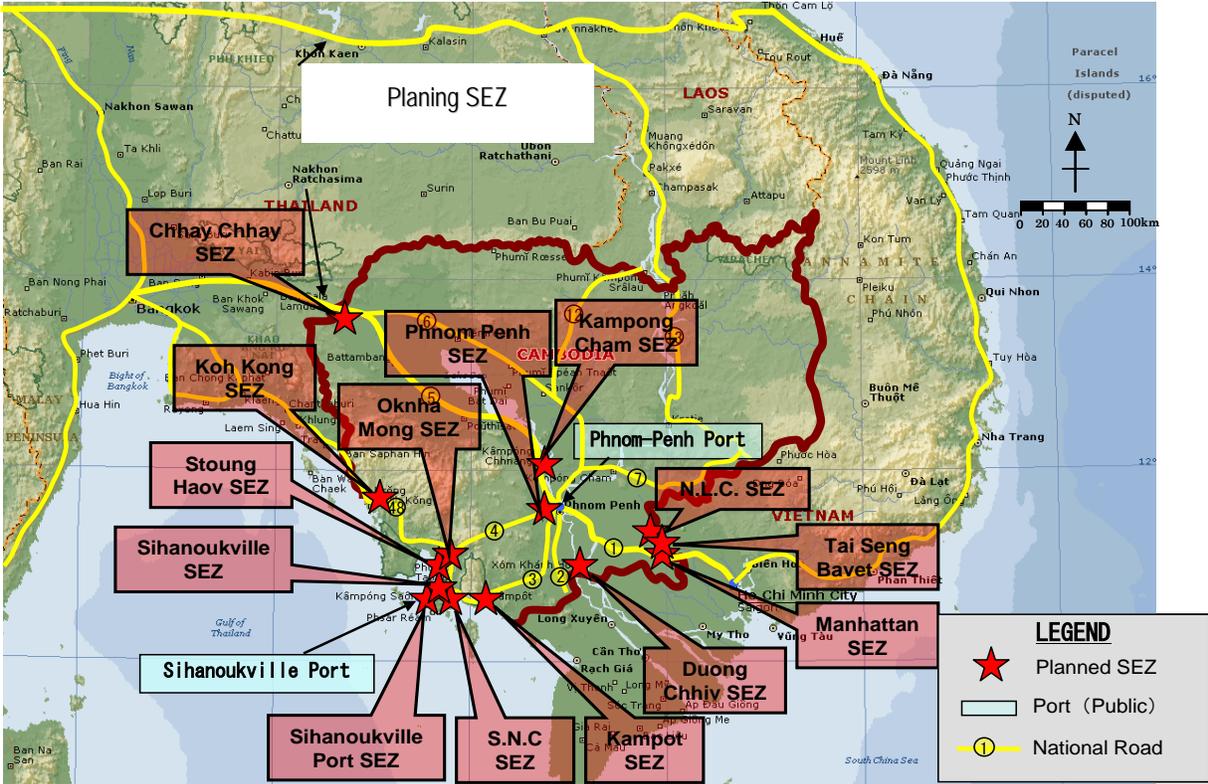
Cambodia has two main railway lines—the northern track of 386 km connecting Phnom Penh with Poipet on the Thai border via Pursat and Battambang, and the southern line of 266 km from Phnom Penh to Sihanoukville. Use of the rail system peaked in 1970,⁴ but then prolonged conflict and decades of neglect left it in a poor state. Rail services began again in the 1980s, but by 2008 passenger services had ended. In 2006, a US\$143 million rehabilitation project was launched by the Cambodian government with the support of a number of external funders. The southern line project was completed and opened to freight operations in August 2013.⁵ By early 2016 it was being used to transport fuel, coal, cement and container shipments, and passenger services began in 2016.

However, resettlement problems,⁷ cost overruns, flooding and construction quality issues caused delays to the northern line work. In July 2015, the government allocated a further \$33 million to complete repairs to the northern line by 2017, after project partners ADB and AusAID declined requests to provide more funding. Royal Railway currently holds a 30-year concession to operate Cambodia's railways.

The government has also expressed an intention of building further new rail networks and Thailand, Japan and China have all expressed interest in working on projects to expand rail services through Cambodia.



VI-Special Economic Zones



VII-Road Safety

On December 13th 2016, Cambodia has been awarded the International Road Safety and the award was Prince Michael presented **Samdech Kraleahaom Sar Kheng**, Deputy Prime Minister and Chairman of the National Committee for the Road Safety in London, England. Efforts to tighten law enforcement of traffic for 11 months of 2016 has caused a decrease in traffic accidents number 451 raise the number of deaths decreased by 259 people injured decreased by 596 compared 2015 is the criteria to get this award. **Samdech Kraleahaom Sar Kheng** noted that this award is the result from the joint efforts from all walks of life, in which committed the Government's efforts of law enforcement officials and the participation of citizens, international organizations recently been successful in reducing the number of deaths and injuries from traffic accidents in 2016. **Samdech kraleahaom** appealed to All road users, obey all laws of traffic to strictly and understanding highly complementary in driving especially motorcyclists every driver career workers passenger trucks to reduce further the victims traffic accidents in the year 2017. ...

Appendix

Infrastructure projects:

PROJECT PROFILE & PROGRESS LAND TRANSPORT INFRASTRUCTURE (CAMBODIA) INTERNAL / EXTERNAL FUNDING, YEAR 2005-PRESENT

2/15/2012

CONTENTS

- I. National & Provincial Roads (Under MPWT)
i. Completed Projects
ii. On-going Projects
iii. Projects in Pipeline
iv. Proposed Projects
v. Technical Assistance

#	No. of Proj.	PROJECT NAME / DESCRIPTION	OUTLINE	PROJECT COST, MILUSD	FUND SOURCES / TYPES		PERIOD		PROGRESS
					Grant	Loan	Start	End	
i. Completed Projects									
VARIOUS / MIXED DONORS									
1	1	Various Road Projects - Total length app. L=2,186 Km	A Combination of AC and DBST, pavements with 11m wide carriageway	Appr. US\$ 1.00 Bil.	-	-	1993	2005	Completed
CHINA									
2	1	NR 7/ Kratie-Steng Treng-Lao Border (192.800 km)	TBST pavement	62.80	-	Loan	2004	Aug-07	Complete
3	2	Prek Tameak Bridge (Across Mekong River-1,000m)	Concrete Bridge. Contract signed on 2 Nov 06	43.50	-	Loan	2007	2010	Completed
4	3	Prek Kdam Bridge (Across Sab River- 975 m)	Contract signed on 2 Nov 06, Concrete bridge	28.90	-	Loan	2007	2011	Completed
5	4	RN 8/Prek Tameak - Prey Veng - VN Border (109.08 km)	Contract signed on 2 Nov. 06 (AC pavement)	71.50	-	Loan	1-Dec-07	1-Jan-12	Completed
6	5	NR 76/ Snuol to Senmoncrom (127km)	DBST pavement (Contract signed on 02 Nov. 06)	51.90	-	Loan	5-Jan-08	5-May-11	Completed
7	6	NR62 / Koh Ke-Theng Meanchey - Preahvihear Temple, L=150.46Km	DBST pavement	57.80	-	Loan	10-Dec-08	10-Sep-12	Completed
JAPAN									
8	1	Bridge on RN 2 & 3	3 Concrete Bridges	7.67	Grant	-	Dec-05	Jun-07	Completed
9	2	RN1 (1 st Phase)	Concrete Bridge	7.00	Grant	-	2005	Dec-06	Completed
10	3	RN2 (Takeo-Phnom Den), L=51.7 Km	AC, Road Rehabilitation	12.45	-	Japan Non-Project Fund	2003	2007	Completed
11	4	RN1/ Neak Leung-KM 13 from Phnom Penh (2 nd Phase), L=43Km	AC pavement	47.48	Grant	-	Dec-06	Mar-09	Completed
12	5	RN1/Km4-Km13, L=9Km (3 rd Phase) from Phnom Penh	AC pavement	11.168	Grant	-	Jan-10	Jun-11	Completed

#	No. of Proj.	PROJECT NAME / DESCRIPTION	OUTLINE	PROJECT COST, MILUSD	FUND SOURCES / TYPES		PERIOD		PROGRESS
					Grant	Loan	Start	End	
iii. Projects in Pipe Line									
CHINA									
53	1	NR76 Extension, L= 171.78 km (Monorom - Koh Nhek - Lumpkat - Taung)	DBST	100	-	China Loan	2011	2014	Expected to Commence on Mid of 2012
54	2	NR214 Reconstruction, L= 132 km (Tbaeng Meanchey - Theambonvat)	DBST	100	-	China Loan	2011	2014	Expected to Commence on Mid of 2012
55	3	NR6A Widening to 4 lanes (From PK4+000 To Thnal Keng), L=40Km	AC	57.00	-	Loan	2010	-	Expected to Commence on Early of 2012
JAPAN									
56	1	RN1 (4 th Phase, From Monivong Bridge to Pk 4 km), L = 4 km	AC	19.46	Grant	-	2010	-	Awaiting for approval (Updating Basic Design)
57	2	RN5 Rehabilitation, L=139Km (Prek Kdam-Thlea Macrom), L=68Km (B Bang-B.Meanchey), Total Length=207Km	AC	103.50	-	Loan	2010	-	F/S
KOREA									
58	1	Construction of 65.5Km of NR. No. 21	AC, 2 Lanes : NR No. 21	57.00	-	EDCF Loan, Ex-Im Bank of Korea	2010	-	Preparing Detailed Design
59	2	Construction of NR. No. 2, L=68Km and NR. No. 22, L=9.6Km	AC, 2 Lanes, RN2, L=68km and NR22, L=9.6km	30.00	-	EDCF Loan, Ex-Im Bank of Korea	2011	-	Preparing F/S by Ex-Im Bank
60	3	2nd Phnom Penh Outer Ring Road Construction, L=61Km	AC	117	-	Korea (Loan 50%, Investment 50%)	2012	-	F/S Completed by MPWT.
WB/ADB/OTHERS									
61	1	Road Asset Management Project, RAM	Resurfacing of Pavements & Associated Works	-	-	WB, AusAid,	2008	2012	On-Going
		- Periodic Maintenance of NR11, L=91 km (Neak Loesug - Thnal Kaeng)	DBST	?	-	and RGC	2011	2012	(2 nd Year Program)

to be continue-

#	No. of Proj.	PROJECT NAME / DESCRIPTION	OUTLINE	PROJECT COST, MIL.USD	FUND SOURCES / TYPES		PERIOD		PROGRESS
					Grant	Loan	Start	End	
13	6	Study on the Road Network Development in Cambodia	Elaboration of National Road Network Master Plan and F/S on rehabilitation of NR 57 and 8 Bridges	-	-	-	Mar-05	Sep-06	Completed
14	7	Project for Traffic Improvement in Phnom Penh City	Improvement of intersections, driver's education, strengthening of traffic enforcement in Phnom Penh	-	-	-	Mar-07	2009	Completed
KOREA									
15	1	NR 3/ Trapang Reapaou-Kompong (L=32 Km)	DBST pavement	17.05	-	Loan	Jun-04	May-07	Completed
16	2	NR 3 / Phnom Penh to Kampet (137km)	DBST pavement	36.90	-	Loan	2-Jun-08	1-Jun-11	Completed
THAILAND									
17	1	RN 48/ Koh Kong to Sre Ambel (L=151.3 Km)	DBST pavement	21.69	-	Loan	2004	2007	Completed
18	2	RN 67/Chamu Sa Ngam-Anlong Veng (L=18 Km)	DBST pavement	3.06	Grant	-	2006	2007	Completed
19	3	Bridges along RN 48	4 Concrete Bridges	7.20	Grant	-	2005	2007	Completed
20	4	RN 67/Anlong Veng-Siem Reap (131 km)	DBST pavement	32.50	-	Loan	2007	2009	Completed
VIETNAM									
21	1	NR 78 / Banlong to VN Border (74km)	AC	25.00	-	Loan	2007	2009	Completed
WB/ADB/OTHERS									
22	1	RN51 , L=38Km	Road Rehabilitation	5.8	-	WB Loan	2003	2006	Completed
23	2	Bridges along RN 56-68	40 Concrete Bridges & Box Culvert	10.50	-	ADB Loan	2006	2008	Completed
24	3	NR 5 & 6 Poi Pet to Siem Reap (150Km)	AC pavement	77.50	-	ADB & OPEC Loan	2006	2009	Completed
		Siem Reap-Poi Pet (3 packages, 6E,6F&5F)							
		-Package 6E							
		-Package 6F							
		-Package 5F							
25	4	PRIP Project (Year 1)	Laterite paving, DBST & SBST	14.50	-	WB/IDA	Mar-04	Sep-09	Completed
CAMBODIA									
26	1	Road Maintenance in 2006	DBST, Macadam	2.4	-	National Budget	2006	2006	Completed
		a. Routine Maintenance (1,500 Km)							
27	2	Road Maintenance 2007	Laterite, DBST, Macadam	31.69	-	National Budget	2007	2007	Completed
		a. Routine Maintenance (1,960.30 Km)		5.38					
		b. Periodic Maintenance (52 projects)		23.28					
		c. Flood during year 2006 (19 Projects)		2.18					
		d. Emergency (37 projects)		0.853					
28	3	Road Maintenance 2008	Laterite, DBST, Macadam	26.25	-	National Budget	2008	2008	Completed

#	No. of Proj.	PROJECT NAME / DESCRIPTION	OUTLINE	PROJECT COST, MIL.USD	FUND SOURCES / TYPES		PERIOD		PROGRESS
					Grant	Loan	Start	End	
		a. Routine Maintenance (1969.50 Km)		9.25					
		b. Periodic Maintenance (72 Projects)		15.00					
		c. Flood during year 2007 (14 Projects)		-					
		d. Emergency		2.00					
29	4	Road Maintenance 2009	Laterite, DBST, Macadam, AC and Structures, Rehabilitation, Reconstruction	84.92	-	National Budget	Feb. 2009	2009	Completed
		a. Routine Maintenance 3,646.12 Km)		14.30					
		b. Periodic Maintenance (48 Projects)		68.12					
		c. Emergency (58 Projects as of Dec 09)		2.50					
30	5	Road Maintenance 2010	Laterite, DBST, Macadam, AC and Structures	80.54	-	National Budget	Feb. 2010	2010	Completed
		a. Routine Maintenance, 27 projects	Rehabilitation, Reconstruction	16.30					
		b. Periodic Maintenance		61.39					
		b1. Periodic Maintenance, 37 projects (Cat.61)		17.01					
		b2. Upgrading, New Construction, 40 projects (Cat.21)		44.38					
		c. Emergency		2.85					
31	6	Poverty Reduction and Growth Operation, PRGO projects	Roads Rehabilitation and Bridges Reconstruction along National and Provincial Roads (National Competitive Bidding)	19.452	-	Government and Development Partner Credit	6-Jan-09	2011	Completed
32	7	New Monivong Bridge Construction	Concrete Bridge	-	-	National Budget	2007	2009	Completed

to be continue

#	No. of Proj.	PROJECT NAME / DESCRIPTION	OUTLINE	PROJECT COST, MILUSD	FUND SOURCES / TYPES		PERIOD		PROGRESS
					Grant	Loan	Start	End	
B. Proposed Projects									
CHINA									
62	1	NR5 Widening to 4 lanes (From Phnom Penh To Prek Kdam), L=30Km	AC	36.00	-	Loan	2010	-	Committed
63	2	Improvement of NR 6, L= 270km (Thmal Kaeng - Kg. Thom - Siem Reap)	AC	189.00	-	Loan	2011	-	Under Negotiation
64	3	NR44 Reconstruction (Chbanomn - Oral - Amleang - Udong), L=161Km	DBST	80.50	-	Loan	2012	-	Under Negotiation (F/S)
65	4	NR 58 (Banteaychey - Banteay Meannit - Thmar Daun), L=132km	DBST	66.00	-	Loan	2013	-	Under Negotiation
66	5	NR55 section reconstruction (Pursat-Thmar Da, Thai-Cambodia Border), L=189.7Km	DBST	95.00	-	Loan	2014	-	Under Negotiation
67	6	NR 50 C, (Kompong Thom-Kg. Leng-Kg. Chhmang), L=50Km	DBST	45.00	-	Loan	2014	-	Under Negotiation
68	7	RN 1577, (Sak Sok - Samlot - Border 400), L= 55.16 km	DBST	25.00	-	Loan	2014	-	Under Negotiation
JAPAN									
69	1	Bridge Reconstruction locating on NR11	Concrete Bridge	18.00	-	Loan	2010	-	Proposing to Government of Japan
KOREA									
70	1	NR 48, Improvement and Upgrading to AC, L = 149 km	AC	50.00	-	Loan	2012	-	Preparing Request for F/S
71	2	Sewerage Treatment Plant in Phnom Penh	South, Water Treatment Process, Sludge Treatment Process, Sterilization	60.00	-	Loan	2011	-	Preparing Request for F/S
72	3	Sewerage System and Storm Water Management Project in Kampot	Establishment of Sanitation system for healthy living. Utilization of sewage sludge as fertilizer for agriculture. Waste water transmission pipe to clarifying system, Electrical substation equipped with transformers, Yard Piping, Landscaping	60.00	-	Loan	2011	-	Preparing Request for F/S
HUNGARY									
73	1	Bridges reconstruction locating on NR73, L=573m	RC Bridge	15.00	-	-	2010	-	Requested to Hungary

End