









Cambodia **Road Traffic Accident and Victim Information System**



Monthly Report March 2008



Developed with the support of:

European Union



Belgian Cooperation



World Health Organization



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I. Introduction

The **objective** of the Road Traffic Accident and Victim Information System (RTAVIS) is to provide government and development stakeholders in Cambodia with accurate, continuous and comprehensive information on **road traffic accidents and victims**.

It should allow them to better understand the current road safety situation, plan appropriate responses and evaluate impact of current and future initiatives.

The system is being developed by the Ministry of Public Works and Transport, the Ministry of Interior and the Ministry of Health, with the support of Handicap International.

In Siem Reap, Otdar Mean Chey and Kampong Cham provinces, the system is also supported by the Belgian Technical Cooperation.

The system is run based on data collection forms filled in by trained staff at major hospitals, private clinics and traffic police.

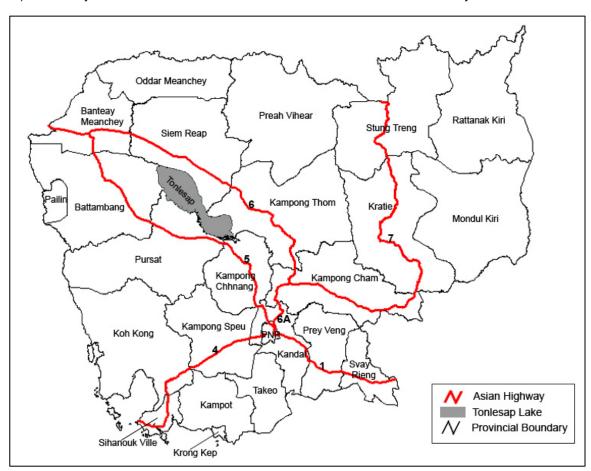
RTAVIS reports are **distributed monthly**. RTAVIS reports can also be found on the following websites: www.roadsafetycambodia.info and www.cnctp.info

Notice:

This monthly report is a snapshot of the situation at a particular time of the year. More analysis is provided in the annual report. The annual report 2007 has released in June 2008. The annual report 2008 will be released in April 2009.

II. System Coverage

RTAVIS covers the whole country. The map here below illustrates the Asian Highway (national road 1, 4, 5, 6, 6A and 7). The analysis of the number of fatalities is shown in the executive summary.



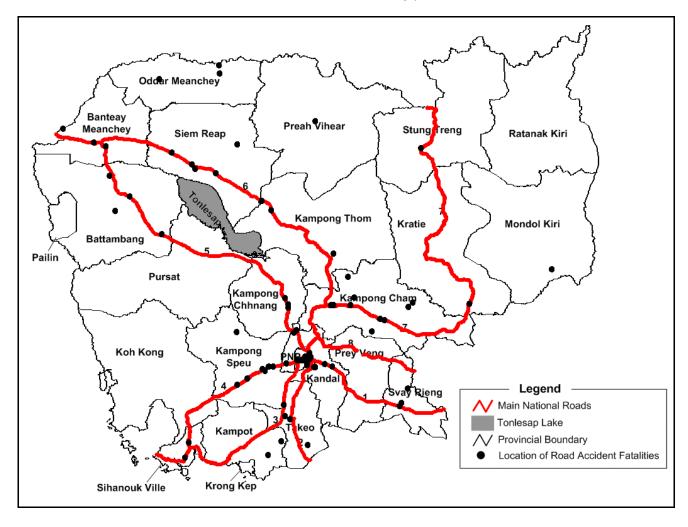


III. System Update

Introduction of GPS

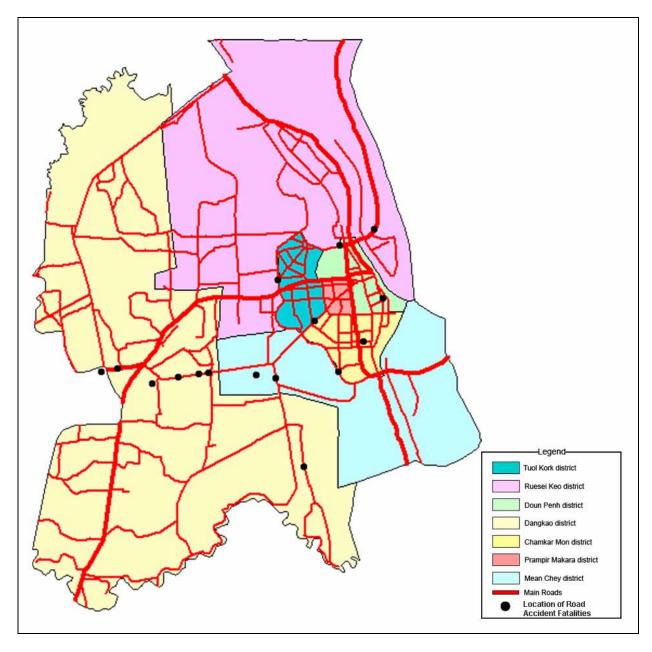
From July 2006, Global Position System (GPS) devices have been introduced to the traffic police in Russei Keo District in Phnom Penh. The GPS coordinates allow us now to exactly locate accidents, using GIS data. GPS devices have been progressively introduced to other districts of Phnom Penh and provinces crossed by major national roads from August 2007. On the medium term, this will enable RTAVIS to identify blackspots of the Cambodian Road Network.

The chart below shows locations of road accident fatalities in many provinces in March 2008.





The chart shows the locations of road accident fatalities in Phnom Penh in March 2008.



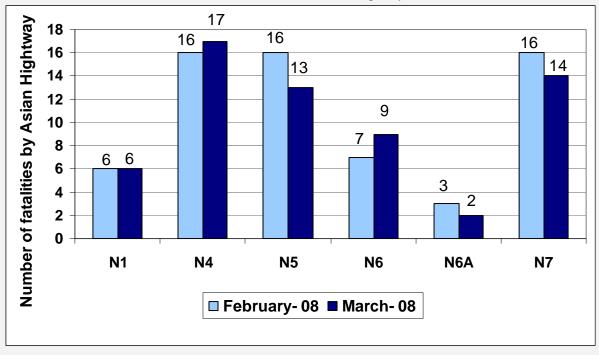


IV. Executive Summary

Key findings for the month of **March 2008** are the following:

- A provisional number of 1,941 casualties were reported by the participating hospitals, health centres, private clinics and traffic police departments in the 24 reporting provinces. Among them, 551 were severely injured and 130 died. The number of fatalities has increased by 23% compared to March 2007.
- In Phnom Penh, 466 casualties were reported, corresponding to 2% increase compared to March 2007 and 1% decrease compared to the previous month. Among them, 19 died.
- In Phnom Penh, Dangkao district is the most deadly.
- Motorbike-4 wheeler collisions were responsible for 31% of the fatalities, while Motorbike-motorbike collisions were responsible for 17%.
- Pedestrians were the second most affected group of road users. Pedestrians aged between 5-9 years old represented the highest percentage of casualties (33%) and fatalities (25%). Pedestrians aged more than 54 years old represented 21% of fatalities, while they represent only 11% of total casualties. It is interesting to note that pedestrians were killed by 4 wheel vehicles (64%), more than by motorbikes (28%).

Number of fatalities on Asian Highways





V. Evolution of Main Indicators

	Oct-07	Nov-07	Dec-07	Jan-08	Feb-08	Mar-08
Number of casualties reported to RTAVIS	2,516	2,455	2,239	2,299	2,011	1,941
Gender	·	·		·	·	,
Percentage of males casualties	73%	71%	74%	73%	74%	75%
Age						
Percentage of casualties aged between 15 and 24 years	0.107	0.404	222/	2221	222/	
old	31%	31%	29%	28%	33%	28%
Type of road user						
Percentage of motorbike riders	76%	75%	75%	74%	78%	75%
Percentage of pedestrians	7%	8%	7%	7%	7%	8%
Percentage of car riders (private and taxis)	6%	5%	6%	6%	4%	5%
Percentage of bicycle riders	5%	4%	4%	4%	4%	4%
Occupation	3,3	.,0	1,0	1,0	.,0	.,,
Percentage of students	22%	24%	25%	21%	24%	23%
Percentage of farmers	28%	25%	24%	29%	25%	25%
Percentage of workers	18%	19%	22%	21%	22%	21%
Percentage of house keepers	7%	6%	6%	6%	5%	5%
Percentage of vendors/small businesses owners	5%	5%	5%	4%	5%	6%
Percentage of motorbike taxis	3%	4%	4%	4%	3%	4%
Residence of casualty	370	770	470	770	370	7 /0
Percentage of casualties residing in another province than						
the province of accident	16%	19%	16%	15%	17%	17%
Severity of injuries:						
Percentage of severely injured casualties (requiring	200/	200/	200/	200/	240/	200/
chirurgical intervention of ICU)	28%	28%	28%	30%	24%	28%
childigical intervention of 100)	(695 cases)	(678 cases)	(618 cases)	(689 cases)	(485 cases)	(551 cases)
Percentage of deaths	6% (152 cases)	6% (144 cases)	6% (128 cases)	6% (145 cases)	7% (148 cases)	7% (130 cases)
Nature of injuries:	(102 00303)	(144 00303)	(120 00303)	(140 00303)	(140 04303)	(150 cases)
Percentage of casualties suffering from cranial trauma	44%	40%	51%	49%	47%	49%
Percentage of them being considered as severe (coma)	10%	7%	4%	8%	7%	9%
Percentage of casualties suffering from fracture	16%	20%	20%	23%	19%	20%
Percentage of casualties having wounds/cuts	51%	54%	53%	50%	56%	52%
Day of accident:						
Percentage of casualties injured during the weekend (from Friday 6 pm to Sunday midnight)	27%	40%	37%	35%	33%	37%
Time of accident:						
Percentage of casualties injured during nighttime (from 6	0001	0001	0001	0.407	0001	
pm to 5.59 am)	26%	33%	30%	31%	32%	35%
Peak(s) of casualties	3pm-4pm	6pm-7pm	6pm-7pm	5pm-6pm	7pm-8pm	5pm-6pm
Cause of accident	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	- F			ор ор
Percentage of casualties injured in accidents due to						
human error	96%	96%	97%	97%	97%	97%
High speed	45%	52%	54%	49%	52%	50%
Alcohol abuse	14%	14%	12%	13%	14%	15%
Non respect of rights of way rules	11%	8%	7%	9%	9%	9%
Changing lane without due care	6%	5%	5%	6%	6%	6%
	13%	11%	13%	14%	9%	12%
Dangerous overtaking						
Driving against flow of traffic	3%	3%	3%	3%	4%	2%
Other	4%	3%	3%	3%	3%	3%
Percentage of casualties injured in accidents due to road conditions	9%	10%	12%	15%	6%	10%
Percentage of casualties injured in accidents due to weather conditions	3%	0%	0%	0%	0%	0%
Percentage of casualties injured in accidents due to vehicle defect	3%	3%	1%	2%	1%	2%



	Oct-07	Nov-07	Dec-07	Jan-08	Feb-08	Mar-08
Type of accident:						
Percentage of casualties injured in motorbike-motorbike collisions	45%	45%	44%	39%	43%	40%
Percentage of casualties injured in motorbike-4 wheeler collisions	16%	17%	20%	18%	18%	20%
Percentage of casualties injured in motorbike-pedestrian collisions	7%	8%	7%	7%	9%	7%
Percentage of motorbike casualties who fell alone	6%	6%	6%	8%	7%	8%
Average number of people injured per accident	3	3.2	2.6	2.5	2.4	2.1
Hit and Run	Ü	0.2	2.0	2.0	2.1	2
Percentage of casualties injured in accidents where the driver of the vehicle causing the accidents escaped after the accident	23%	22%	23%	19%	21%	22%
Estimation of average vehicle damage cost	160 US\$	166 US\$	190 US\$	220 US\$	148 US\$	216 US\$
Percentage of four-wheeled vehicles with						
Left-hand-drive	74%	70%	70%	68%	75%	78%
Right-hand-drive	26%	30%	30%	32%	25%	28%
Location of accident:		0070	20,1	0=70		
Percentage of casualties injured in urban areas	41%	50%	44%	42%	44%	42%
Percentage of casualties injured in accidents occurring on national roads	58%	54%	55%	53%	56%	55%
Percentage of casualties injured in accidents occuring on provincial roads	6%	4%	5%	10%	9%	6%
Percentage of casualties injured in accidents occurring on paved roads	79%	79%	76%	76%	80%	76%
Characteristics of location: Percentage of casualties injured in accidents occuring on straight roads	78%	80%	83%	80%	77%	79%
Percentage of casualties injured in junctions (X, T, Y- junctions and roundabout)	12%	8%	9%	9%	14%	11%
Percentage of casualties injured in curves	10%	12%	7%	9%	9%	10%
Safety Measures:	1070	12/0	1 70	370	370	1070
Percentage of car/truck/bus drivers having a driving licence	50%	55%	50%	46%	41%	41%
Percentage of motorbikes' casualties wearing a helmet	3%	7%	4%	6%	10%	7%
Time to be transferred to hospitals:						
Percentage of casualties arriving at hospitals between 10 and 30 minutes after the accident	39%	36%	30%	34%	32%	35%
Percentage of casualties arriving at hospital more than 2 hours after the accident	33%	33%	39%	37%	36%	34%
Way to be transferred to hospitals:						
Percentage of casualties transported by ambulance	34%	31%	43%	34%	27%	30%
Percentage of casualties transported to the hospital by their family or relatives	59%	61%	53%	58%	68%	65%
Percentage of casualties arriving alone at the hospital	7%	8%	4%	8%	5%	5%
Estimation of average cost of treatment	146 US\$	173 US\$	185 US\$	170 US\$	260 US\$	176 US\$
Attendance of police:	+	+	+	+	+	+
Percentage of cases were police was present on the accident site	73%	64%	69%	70%	72%	66%



VI. Data by Provinces

	Oct	-07	Nov-07		Dec-07		Jan-08		Feb-08		Mar-08	
Number of casualties reported to RTAVIS all provinces	2,516		2,455		2,239		2,299		2,011		1,941	
Severity of injuries	Severe	Death										
Banteay Meanchey	9	3	21	2	21	9	19	7	22	5	22	5
Battambang	31	7	29	3	22	5	55	8	32	7	27	6
Kampong Cham	49	17	79	37	58	21	58	18	53	22	57	20
Kampong Chhnang	20	7	19	6	30	3	16	6	7	6	12	6
Kampong Speu	17	3	15	5	15	3	37	7	25	12	18	10
Kampong Thom	36	14	32	10	35	6	31	5	4	0	22	5
Kampot	24	2	15	2	7	4	7	1	21	2	3	2
Kandal	65	14	62	14	70	6	77	18	74	14	63	18
Koh Kong	9	3	4	1	9	3	7	2	3	0	4	0
Kratie	34	2	31	7	15	3	16	3	17	8	31	5
Mondol Kiri	7	1	4	1	5	1	2	2	6	3	8	2
Phnom Penh	101	29	173	21	121	18	101	18	96	28	111	19
Preah Vihear	4	1	3	3	1	0	8	1	8	1	4	1
Prey Veng	54	2	8	2	25	5	13	7	19	8	12	2
Pursat	30	8	27	13	22	1	12	6	10	4	11	0
Ratanak Kiri	8	0	8	1	4	6	NYA	NYA	1	0	NYA	NYA
Siem Reap	86	10	70	7	82	7	129	7	16	8	97	7
Sihanoukville	18	3	14	1	18	5	26	10	12	3	10	2
Stung Treng	9	0	3	1	10	0	10	1	10	2	3	1
Svay Rieng	11	10	11	3	10	2	18	5	13	1	13	7
Takeo	28	12	22	2	22	15	24	5	26	6	11	6
Otdar Meanchey	35	2	20	0	10	2	7	6	8	7	5	6
Krong Keb	1	1	0	0	1	0	6	0	NYA	NYA	NYA	NYA
Krong Pailin	8	1	7	2	4	3	7	2	2	1	3	0
Unidentified province	1	0	1	0	1	0	3	0	0	0	4	0
Total	695	152	678	144	618	128	689	145	485	148	551	130

Notice: **NYA** i.e. Not yet available.



Contacts

Further analysis and **additional information** is available on request. Please do not hesitate to contact one of the following persons

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