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Cambodia

Road Traffic Accident and Victim Information System



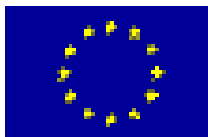
Monthly Report January 2008



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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, Oddar 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**.

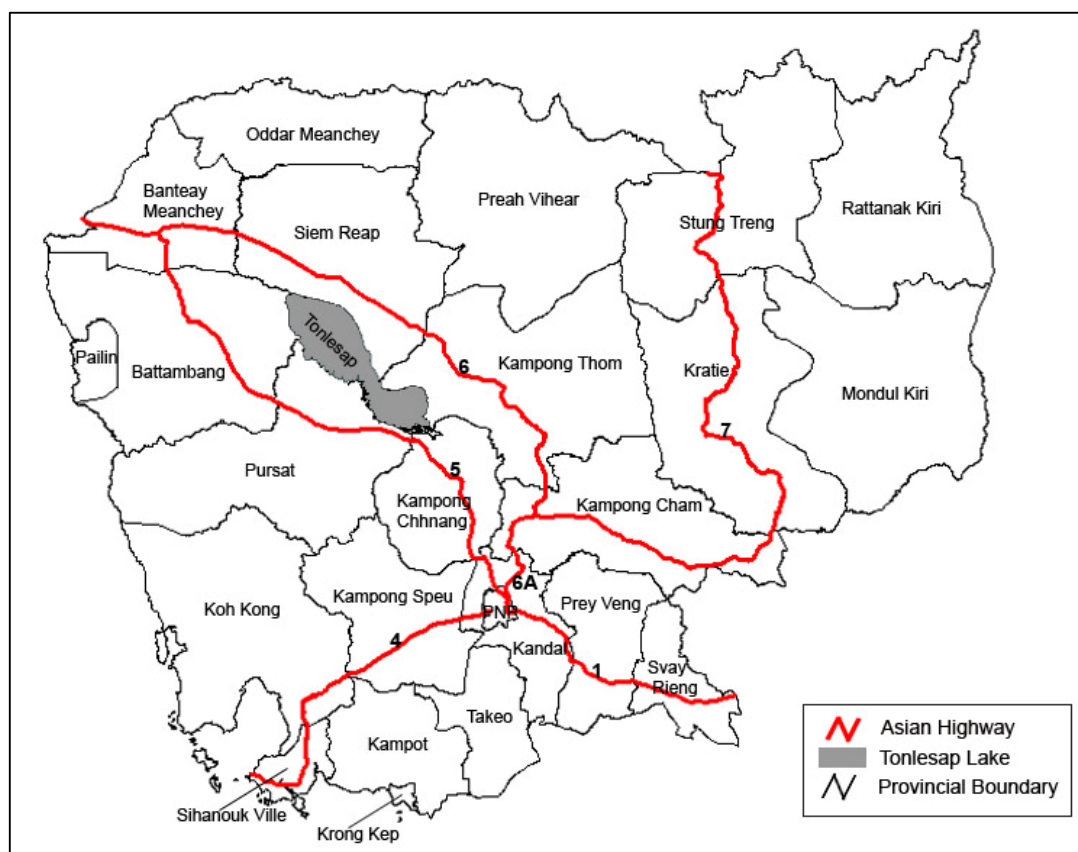
RTAVIS reports are **distributed monthly**. RTAVIS reports can also be found on the following websites: www.roadsafetycambodia.info and www.cnctp.info

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 will be released in May 2008.

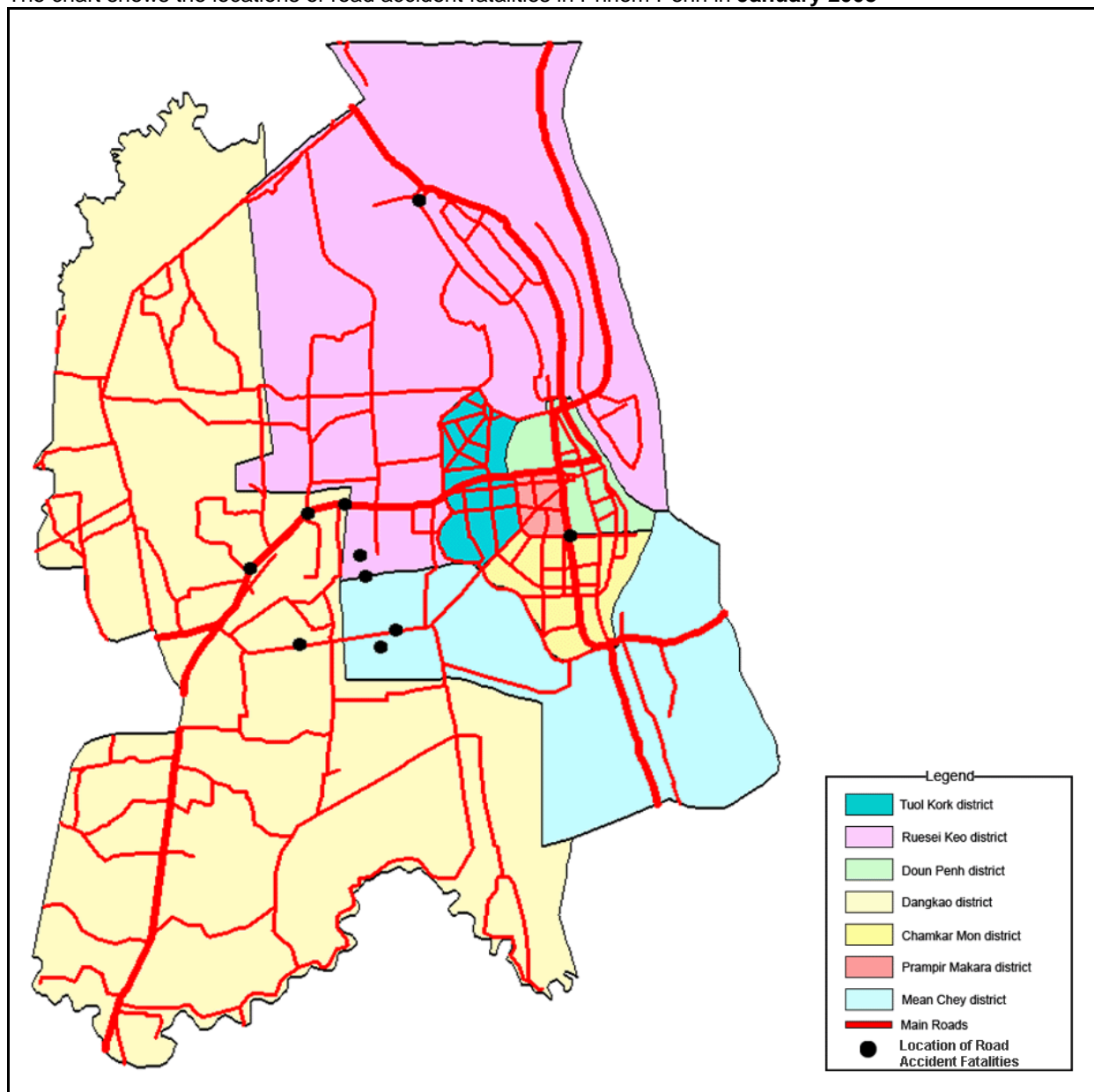
II. System Coverage

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.



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The chart shows the locations of road accident fatalities in Phnom Penh in **January 2008**



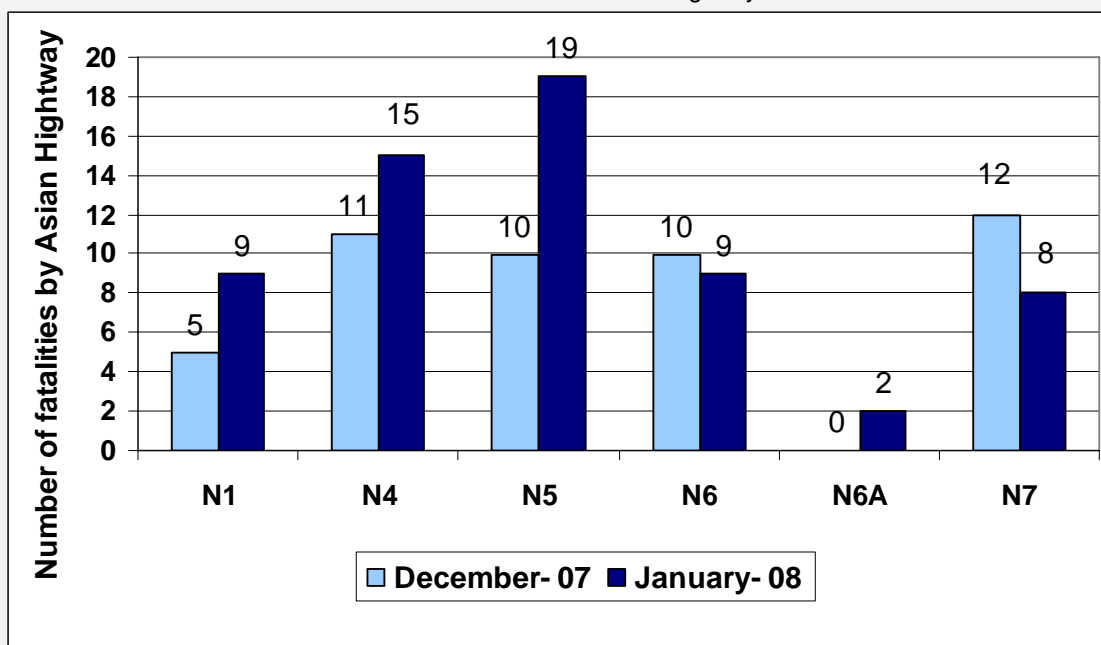
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IV. Executive Summary

Key findings for the month of January 2008 are the following:

- A provisional number of **2,299 casualties** were reported by the participating hospitals, health centres, private clinics and traffic police departments in the 24 reporting provinces. Among them, **689 were severely injured and 145 died**.
- **In Phnom Penh, 483** casualties were reported, corresponding to **8% decrease compared to January 2007** and **17% decrease** compared to the previous month.
- **21%** of fatalities were age between 25 to 29 years old
- Peak of casualties was **5pm to 6pm**.
- **6%** of motorbikes' casualties were wearing a helmet, compared to 4 % in January, 2007.
- **Head injuries accounted for 47% of motorbike casualties.**
- Asian Highways shared more than 40% of the total fatalities in the country. A significant increase of fatalities was noticed along the National road 5.

Number of fatalities on Asian Highways



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V. Evolution of Main Indicators

	Aug-07	Sep-07	Oct-07	Nov-07	Dec-07	Jan-08
Number of casualties reported to RTAVIS	1,504	1,818	2,140	2,183	2,048	2,299
Gender						
Percentage of males casualties	72%	72%	73%	71%	74%	73%
Age						
Percentage of casualties aged between 15 and 24 years old	28%	30%	31%	31%	29%	28%
Type of road user						
Percentage of motorbike riders	74%	77%	76%	75%	75%	74%
Percentage of pedestrians	9%	9%	7%	8%	7%	7%
Percentage of car riders (private and taxis)	7%	2%	6%	5%	6%	6%
Percentage of bicycle riders	3%	4%	5%	4%	4%	4%
Occupation						
Percentage of students	23%	25%	22%	24%	25%	21%
Percentage of farmers	17%	23%	28%	25%	24%	29%
Percentage of workers	21%	20%	18%	19%	22%	21%
Percentage of house keepers	7%	6%	7%	6%	6%	6%
Percentage of vendors/small businesses owners	5%	7%	5%	5%	5%	4%
Percentage of motorbike taxis	6%	5%	3%	4%	4%	4%
Residence of casualty						
Percentage of casualties residing in another province than the province of accident	18%	15%	16%	19%	16%	15%
Severity of injuries:						
Percentage of severely injured casualties (requiring surgical intervention of ICU)	32% (488 cases)	30% (537 cases)	29% (616 cases)	29% (624 cases)	28% (576 cases)	30% (689 cases)
Percentage of deaths	6% (99 cases)	6% (121 cases)	6% (136 cases)	6% (135 cases)	6% (125 cases)	6% (145 cases)
Nature of injuries:						
Percentage of casualties suffering from cranial trauma	45%	46%	44%	40%	51%	49%
Percentage of them being considered as severe (coma)	10%	13%	10%	7%	4%	8%
Percentage of casualties suffering from fracture	23%	19%	16%	20%	20%	23%
Percentage of casualties having wounds/cuts	47%	50%	51%	54%	53%	50%
Day of accident:						
Percentage of casualties injured during the weekend (from Friday 6 pm to Sunday midnight)	32%	39%	27%	40%	37%	35%
Time of accident:						
Percentage of casualties injured during nighttime (from 6 pm to 5.59 am)	32%	30%	26%	33%	30%	31%
Peak(s) of casualties	7pm-8pm	4pm-5pm	3pm-4pm	6pm-7pm	6pm-7pm	5pm-6pm
Cause of accident						
Percentage of casualties injured in accidents due to human error	94%	95%	96%	96%	97%	97%
High speed	45%	48%	45%	52%	54%	49%
Alcohol abuse	15%	15%	14%	14%	12%	13%
Non respect of rights of way rules	11%	11%	11%	8%	7%	9%
Changing lane without due care	6%	6%	6%	5%	5%	6%
Dangerous overtaking	10%	9%	13%	11%	13%	14%
Driving against flow of traffic	4%	3%	3%	3%	3%	3%
Other	3%	3%	4%	3%	3%	3%
Percentage of casualties injured in accidents due to road conditions	9%	9%	9%	10%	12%	15%
Percentage of casualties injured in accidents due to weather conditions	6%	4%	3%	0%	0%	0%
Percentage of casualties injured in accidents due to vehicle defect	3%	4%	3%	3%	1%	2%

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	Aug-07	Sep-07	Oct-07	Nov-07	Dec-07	Jan-08
Type of accident:						
Percentage of casualties injured in motorbike-motorbike collisions	39%	40%	45%	45%	44%	39%
Percentage of casualties injured in motorbike-4 wheeler collisions	18%	19%	16%	17%	20%	18%
Percentage of casualties injured in motorbike-pedestrian collisions	8%	9%	7%	8%	7%	7%
Percentage of motorbike casualties who fell alone	9%	7%	6%	6%	6%	8%
Average number of people injured per accident	2.5	3	3	3.2	2.6	2.5
Hit and Run						
Percentage of casualties injured in accidents where the driver of the vehicle causing the accidents escaped after the accident	18%	26%	23%	22%	23%	19%
Estimation of average vehicle damage cost	204 US\$	177 US\$	160 US\$	166 US\$	190 US\$	220 US\$
Percentage of four-wheeled vehicles with						
Left-hand-drive	61%	75%	74%	70%	70%	68%
Right-hand-drive	39%	25%	26%	30%	30%	32%
Location of accident:						
Percentage of casualties injured in urban areas	53%	47%	41%	50%	44%	42%
Percentage of casualties injured in accidents occurring on national roads	48%	53%	58%	54%	55%	53%
Percentage of casualties injured in accidents occurring on provincial roads	8%	8%	6%	4%	5%	10%
Percentage of casualties injured in accidents occurring on paved roads	80%	81%	79%	79%	76%	76%
Characteristics of location:						
Percentage of casualties injured in accidents occurring on straight roads	76%	78%	78%	80%	83%	80%
Percentage of casualties injured in junctions (X, T, Y-junctions and roundabout)	13%	14%	12%	8%	9%	9%
Percentage of casualties injured in curves	11%	8%	10%	12%	7%	9%
Safety Measures:						
Percentage of car/truck/bus drivers having a driving licence	52%	52%	50%	55%	50%	46%
Percentage of motorbikes' casualties wearing a helmet	3%	4%	3%	7%	4%	6%
Time to be transferred to hospitals:						
Percentage of casualties arriving at hospitals between 10 and 30 minutes after the accident	32%	32%	39%	36%	30%	34%
Percentage of casualties arriving at hospital more than 2 hours after the accident	38%	39%	33%	33%	39%	37%
Way to be transferred to hospitals:						
Percentage of casualties transported by ambulance	36%	33%	34%	31%	43%	34%
Percentage of casualties transported to the hospital by their family or relatives	57%	59%	59%	61%	53%	58%
Percentage of casualties arriving alone at the hospital	7%	8%	7%	8%	4%	8%
Estimation of average cost of treatment	182 US\$	161 US\$	146 US\$	173 US\$	185 US\$	170 US\$
Attendance of police:						
Percentage of cases where police was present on the accident site	68%	69%	73%	64%	69%	70%

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VI. Data by Provinces

	Aug-07		Sep-07		Oct-07		Nov-07		Dec-07		Jan-08	
Number of casualties reported to RTAVIS all provinces	1,780		2,061		2,516		2,455		2,239		2,299	
Severity of injuries	Severe	Death	Severe	Death	Severe	Death	Severe	Death	Severe	Death	Severe	Death
Banteay Meanchey	26	3	26	3	9	3	21	2	21	9	19	7
Battambang	41	7	44	9	31	7	29	3	22	5	55	8
Kampong Cham	39	13	32	15	49	17	79	37	58	21	58	18
Kampong Chhnang	17	5	24	6	20	7	19	6	30	3	16	6
Kampong Speu	18	2	29	6	17	3	15	5	15	3	37	7
Kampong Thom	20	8	26	8	36	14	32	10	35	6	31	5
Kampot	9	1	8	1	24	2	15	2	7	4	7	1
Kandal	45	12	64	14	65	14	62	14	70	6	77	18
Koh Kong	6	2	6	0	9	3	4	1	9	3	7	2
Kratie	8	0	13	3	34	2	31	7	15	3	16	3
Mondol Kiri	2	1	4	1	7	1	4	1	5	1	2	2
Phnom Penh	152	27	144	31	101	29	173	21	121	18	101	18
Preah Vihear	0	1	3	0	4	1	3	3	1	0	8	1
Prey Veng	7	3	21	3	54	2	8	2	25	5	13	7
Pursat	6	3	8	2	30	8	27	13	22	1	12	6
Ratanak Kiri	2	1	3	0	8	0	8	1	4	6	0	0
Siem Reap	67	6	68	10	86	10	70	7	82	7	129	7
Sihanoukville	14	11	10	8	18	3	14	1	18	5	26	10
Stung Treng	12	0	5	1	9	0	3	1	10	0	10	1
Svay Rieng	17	3	14	3	11	10	11	3	10	2	18	5
Takeo	34	5	30	5	28	12	22	2	22	15	24	5
Otdar Meanchey	0	2	3	2	35	2	20	0	10	2	7	6
Krong Keb	1	1	0	1	1	1	0	0	1	0	6	0
Krong Pailin	7	0	10	0	8	1	7	2	4	3	7	2
Unidentified province	1	0	1	0	1	0	1	0	1	0	3	0
Total	551	117	596	132	695	152	678	144	618	128	689	145

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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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