

# GENERAL NATIONAL REPORT: 2009 MOTORWAY DEVELOPMENT IN SERBIA

## 1. Total length of Serbian motorway and expressway network

The length of the tolled motorways network managed and maintained by PE Roads of Serbia remained the same compared with 2007. No new sections were opened in 2008.  
31.12.2008.

- motorways and expressways: 640 km
- tolled motorways and expressways: 603 km

## Openings in 2009

The opening of the following sections of tolled motorways is foreseen in 2009:

Motorway	Section	Length km
E.75 South	Nis - Pirot	40,0
E.75 South	Nis - Leskovac	20,0
<b>Total</b>		<b>60,0</b>

## Investments in motorways

Year	2008		2009*	
	mil CSD	mil EUR	mil CSD	mil EUR
Investments in construction of new motorways	2.567,5	30,21	2.835,00	33,35
Investments in routine maintenance of existing motorways **	22.380,5	263,30	17.659,90	207,76
<b>Total</b>	<b>24.948</b>	<b>293,51</b>	<b>20.494,90</b>	<b>241,11</b>

\* Source: Motorway Development and Maintenance Plan for the year 2009 - which is not still approved by the Government of Republic of Serbia;  
1 EUR = 85, 00 CSD approx.

\*\* Figures presented for the year 2008 and 2009 included total investments in routine maintenance of road network in Serbia.

## ***Financing***

<b>Year</b>	<b>2008</b>	<b>2009</b>
National Budget	5%	/
Loans ( IFI )	24%	14%
Own income (toll collection and other fees)	45%	26%
Taxes - 15% of tax on oil derivatives	8,5%	22%
National investment plan funds	14,5%	6%
Credits by commercial Banks	3 %	32%
<b>Total</b>	<b>100 %</b>	<b>100%</b>

## ***Traffic on Serbian motorway network***

According to the data published by Statistical Office of the Republic of Serbia estimated growth rate of GDP 2008/2007 in Serbia is 6, 1%

GDP 2008: 2.779,0 milijardi CSD; 32,694 million EUR (Ministry of Finance estimated)  
GDP 2007: 2.497,9 milijardi CSD; 31,135 million EUR (Ministry of Finance estimated)

Traffic growth on motorway network in 2008 / 2007: 1, 6 % (taking into account the total volume of traffic on all tolled motorways in Serbia).

## ***Toll Rates***

Toll tariffs for foreign and domestic vehicles have been equalized in Serbia by the Government of Republic of Serbia.

New tariffs have been in application since February 20, 2009.

Before equalizing the toll tariffs, the last correction of tariffs was in February 2008 when toll rates for domestic vehicles were increased by 18%.

Inflation rate in 2008 was (taking December 2008/December 2007 price index) 6, 8%.

After equalizing the toll tariffs for foreign and domestic vehicles, now there are only four toll classes, as follows:

**Toll classes:**

**Class I:** two axled vehicles with a maximum height above the front wheel of under 1.3 m

**Class II:** vehicles with three axles, under 1.3 m in height above the front wheel

**Class III:** vehicles with two or three axles, 1.3 m or over in height above the front wheel

**Class IV:** vehicles with more than three axles, 1.3 m or more in height above the front wheel

***Revenues***

The gross toll income in 2008 was 16.614 million CSD or 200, 8 million EUR, taking the exchange rate 1 EUR = 82, 7505 CSD.

The gross toll income in 2007 was 14.806 million CSD so the toll revenue is approx. 12, 22% more than in the year 2007 (calculated in national currency).

The main reason for increased toll income in 2008 is increased toll rate of 18% for domestic vehicles in February 2008, in order to equalize domestic and foreign toll rates by the end of 2008, and increased traffic flow by 1,6 % (taking into account total volume of traffic on motorways in Serbia).

***Safety***

**Main indicators:**

According to statistical data published by Statistical Office of the Republic of Serbia in 2007 and the report published by Ministry of Internal Affairs in 2008 the following total of accidents on all roads in Serbia was:

	2007	2008	Variation 2007/2008
Total number of accidents:	16.585	15.382	- 9,2 %
No. of personal injury accidents:	22.201	22.275	+ 0,3 %
No. of dead:	962	897	- 6,76 %

There is no available data about accidents with respect to designated motorway sections.

### ***Long term forecast and tendencies:***

- **Construction of motorway Beska - Novi Sad,**
- **Construction of the new bridge "Beska" over Danube river,**
- **Construction of Belgrade by-pass,  
Section A Batajnica - Dobanovci and  
Section B Orlovaca- Bujanj Potok,**
- **Construction of the second carriageway of motorway  
Novi Sad- Horgos**
- **Finalization of the motorway section  
Leskovac - border to FYRM,**
- **Construction of the motorway Nis- Dimitrovgrad**

### ***Significant actions already started and foreseen for 2009***

- **Modernization of toll collection system in Serbia**

Further modernization of toll collection in Serbia will be based on the new ETC system e-Go which was put into operation at the beginning of 2007 on motorway section Belgrade – Sid.

On motorway section Belgrade – Nis, during 2008, the works have been finished on five toll stations (Doljevac, Aleksinac, Aleksinacki rudnici, Razanj, Vodanj) and the works continues on the other toll stations.

E-go represents completely new toll collection technology solution with the best cost/performance ratio. It also provides simple and reliable operation combined with the highest security of data exchange with encrypted data transfer.

The new system is completely in compliance with EU recommendations and standards for electronic tolling interoperability.

The modernization of toll collection system is reflected in the following:

- it supports open and closed toll collection systems

- it enables payment transactions with cash, credit and debit cards and RF tags
- it performs automatic classification of vehicles
- it enables automatic vehicle licence plate recognition

## Summary

### **MAIN ASECAP KEY FIGURES**

Country : Serbia	2009
Network length .....	603 km
2 x 2 lanes .....	
2 x 3 lanes .....	
2 x 4 lanes.....	
No. of km in construction	60 km
Forecasts of opening motorways section	60 km
Annual toll revenue**	200,8 M EUR
Permanent staff	1245
Average daily traffic (LV) ***	N/A
Average daily traffic (HV) ***	N/A
Average daily traffic (LV+HV) ***	N/A
Total number of accidents	15382*
No. of personal injury accidents	22.275*
No. of dead	897*
Km travelled (10 <sup>6</sup> x km) ***	N/A
No. of toll plazas	38
No. of lanes	179
No. of ETC equipped lanes	44**
No. of ETC subscribers	956
No. of rest areas (with stations services)	109

No. of rest areas	177
No. of restaurants	20
No. of hotels/motels	60

\* Total of accidents on all roads in 2008

\*\* 34 combined manual and ETC and 10 ETC only

\*\*\* There is no data available on AADT on all motorways in Serbia; instead PE Roads of Serbia uses data about total traffic flow volume at designated sections of motorways as shown in table 1. For the purpose of this report vehicles belonging to I, II, V, VI + VII class are designated as light vehicles and vehicles belonging to III, IV, VIII + IX class are designated as heavy vehicles.

Motorway section	Vehicle category	
	light	heavy
	Number of vehicles	
<b>Beograd-Nis</b>	13.481.655	3.608.399
<b>Beograd-Sid</b>	4.829.043	1.299.540
<b>Beograd-Novı Sad</b>	3.768.998	1.093.431
<b>Novı Sad-Subotica</b>	1.677.772	474.486
<b>Nis-Leskovac</b>	1.763.346	588.877

Table 1 - Total traffic flow volume in 2008