

# GENERAL NATIONAL REPORT: 2010 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 2008. No new sections were opened in 2009.  
31.12.2009.

- motorways and expressways: 680,55 km (40,55 km of new sections of motorways were opened)
- tolled motorways and expressways: 603 km

### Openings in 2010

The opening of the following sections of tolled motorways is foreseen in 2010:

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	2009		2010*	
	mil CSD	mil EUR	mil CSD	mil EUR
Investments in construction of new motorways	1.455,50	15,32	3.691,40	38,86
Investments in routine maintenance of existing motorways **	20.912,50	220,13	15.760,50	165,90
<b>Total</b>	<b>22.368,00</b>	<b>235,45</b>	<b>19.451,90</b>	<b>204,76</b>

\* Source: Motorway Development and Maintenance Plan for the year 2010 - which is not still approved by the Government of Republic of Serbia;  
1 EUR = 95, 00 CSD approx.

\*\* Figures presented for the year 2009 and 2010 included total investments in routine maintenance of road network in Serbia.

## ***Financing***

<b>Year</b>	<b>2009</b>	<b>2010</b>
National Budget	/	/
Loans ( IFI )	5 %	19 %
Own income (toll collection and other fees)	27 %	36 %
Taxes - 20% of tax on oil derivatives	27 %	31 %
Other funds	2 %	14 %
Credits by commercial Banks	39 %	/
<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 2009/2008 in Serbia is - 3, 5 %.

GDP 2009: 2.953,5 milliard CSD; 31.511 million EUR (Ministry of Finance estimated)  
GDP 2008: 2.790,9 milliard CSD; 34.259 million EUR (Ministry of Finance estimated)

Inflation rate in 2009 was (taking December 2009/December 2008 price index) 8, 6 %.

Traffic growth on motorway network in 2009 / 2008: 0, 6 % (taking into account the total volume of traffic on all tolled motorways in Serbia).

## ***Toll Rates***

Now In Serbia 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 2009 was **13.708** million CSD or **147, 4** million EUR, taking the exchange rate 1 EUR = 92, 9763 CSD.

The gross toll income in 2008 was **16.614** million CSD so the toll revenue is approx. **17, 5 %** less than in the year 2008 (calculated in national currency).

## **Safety**

### **Main indicators:**

According to statistical data published by Statistical Office of the Republic of Serbia in 2008 and the report published by Ministry of Internal Affairs in 2009 the following total of accidents on all roads in Serbia was:

	2008	2009	Variation 2008/2009
Total number of accidents:	51.057	49.070	- 4,05 %
No. of personal injury accidents:	15.831	15.073	- 5,03 %
No. of dead:	820	734	-11,71 %

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

### **On going projects:**

- **Construction of E 75, motorway Belgrade - Novi Sad**
- **Rehabilitation of the old bridge Beška**
- **Rehabilitation of the ring road R 251**
- **Rehabilitation of the E 75 motorway segment passing through Belgrade**
- **Rehabilitation of roads and bridges B2 (100 bridges)**
- **Construction of the new bridge "Beška" over Danube river**
- **Construction of the second carriageway of E 75 motorway Novi Sad- Horgoš**
- **Construction of Belgrade by-pass  
Section A Batajnica - Dobanovci**

- Finalization of the motorway section Leskovac - border to FYROM
- Construction of the motorway Niš- Dimitrovgrad

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

- Construction of the motorway E 70 Belgrade - Pančevo - Vršac
- Construction of Belgrade by-pass
  - Section B Orlovaca- Bujanj Potok
  - Section C Bujanj Potok - Pančevo
- Kelebija - E 75 (intersection Subotica south)
- E 763 Beograd - Požega
- E 763 Požega - Boljare
- E 761 Pojate - Preljina
- E 761 Požega - Užice - BIH
- E 761 Bulgarian border - Zaječar - Paraćin
- M 19, M 21 Novi Sad - Ruma - Šabac - Loznica
- M-24 Hungarian border - Kikinda - Pančevo - Kovin

### ***Significant actions already started and foreseen for 2010***

- 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 – Niš, during 2009, the works have been finished on all toll stations.

Until the middle of the 2010 we will finish modernization of all 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

During 2010 it is planned to set a variable signal at all toll stations for the regulation of traffic and toll collection on the same

## Summary

### **MAIN ASECAP KEY FIGURES**

Country : Serbia	2010
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**	147,4 M EUR
Permanent staff	1.276
Average daily traffic (LV) ***	N/A
Average daily traffic (HV) ***	N/A
Average daily traffic (LV+HV) ***	N/A
Total number of accidents	49.070*
No. of personal injury accidents	15.073*
No. of dead	734*
Km travelled (10 <sup>6</sup> x km) ***	N/A
No. of toll plazas	38
No. of lanes	180
No. of ETC equipped lanes	4**
No. of ETC subscribers	220
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 2009

\*\* 108 combined manual and ETC and 4 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 and II class are designated as light vehicles and vehicles belonging to III and IV class are designated as heavy vehicles.

<b>Motorway section</b>	<b>light</b>	<b>heavy</b>
Number of vehicles		
<b>Beograd-Nis</b>	13.905.085	3.325.716
<b>Beograd-Sid</b>	4.967.862	1.157.709
<b>Beograd-Novı Sad</b>	3.893.281	945.885
<b>Novı Sad-Subotıca</b>	1.707.876	443.480
<b>Nis-Leskovac</b>	1.881.029	548.522

Table 1 - Total traffic flow volume in 2009