

# GENERAL NATIONAL REPORT: 2012 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 2010. No new sections were opened in 2011.  
31.12.2011.

- motorways and expressways: 687,72 km (7,5 km of new sections of Motorways E 75, by pass Novi Sad were opened)
- tolled motorways and expressways: 603 km

## Openings in 2012

The opening of the following sections of tolled motorways is foreseen in 2012:

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	2011		2012**	
	mil CSD	mil EUR	mil CSD	mil EUR
Investments in construction of new motorways	4.861,90	47,20	13.572,40	123,38
Investments in routine maintenance of existing motorways ***	11.214,00	108,87*	9.872,00	89,75
<b>Total</b>	<b>16.075,90</b>	<b>156,07*</b>	<b>23.444,40</b>	<b>213,13</b>

\* Source: Realisation of Motorway Development and Maintenance Plan for the year 2011, 1 EUR = 103, 00 CSD aprox.

\*\*Source: Motorway Development and Maintenance Plan for the year 2012 - which is not still approved by the Government of Republic of Serbia; 1 EUR = 110,00 CSD approx.

\*\*\* Figures presented for the year 2011 and 2012 included total investments in routine Maintenance of road network in Serbia.

## ***Financing***

<b>Year</b>	<b>2011</b>	<b>2012</b>
National Budget	/	20%
Loans ( IFI )	17 %	38 %
Own income (toll collection and other fees)	38 %	36 %
Taxes - 20% of tax on oil derivatives	39%	
Other funds	6 %	3%
Credits by commercial Banks		3%
<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 2011/2010 in Serbia is 2,2%.

**GDP 2011: 3.358,8 milliard CSD; 32.610 million EUR (Ministry of Finance estimated)**

**GDP 2010: 2.986,6 milliard CSD; 31.438 million EUR (Ministry of Finance estimated)**

Inflation rate in 2011 was (taking December 2011/December 2010 price index) 11, 00%.

***Traffic growth on motorway network in 2011 / 2010: 1, 62% (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 2011 was 14.410 million CSD or 139,90 million EUR, taking the exchange rate 1 EUR = 103,00 CSD.

The gross toll income in 2010 was 14.041 million CSD so the toll revenue approx. increased 2,63% in the year 2011 (calculated in national currency).

## **Safety**

### **Main indicators:**

According to statistical data published by Statistical Office of the Republic of Serbia in 2010 and the report published by Ministry of Internal Affairs in 2011 the following total of accidents on all roads in Serbia was:

	2010	2011	Variation 2010/2011
Total number of accidents:	33.578	42.438	+ 26,38%
No. of personal injury accidents:	14.179	13.460	- 5,08%
No. of dead:	656	728	+10,97%

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

### **On going projects:**

- Construction of E 75, motorway Belgrade - Novi Sad
- Construction of the second carriageway of E 75 motorway Novi Sad- Horgoš
- Construction of Belgrade by-pass Section A Batajnica - Dobanovci
- Construction of Belgrade by-pass Section B Orlovaca- Bubanj Potok
- Rehabilitation of the old bridge Beška
- Rehabilitation of the E 75 motorway segment passing through Belgrade
- 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 C Bujanj Potok - Pančevo
- 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 2012***

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

Until the middle of the 2012 we will finish modernization of all toll stations.

ETC 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 2012 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	2012
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**	<b>139,9 M EUR</b>
Permanent staff	1.305
Average daily traffic (LV) ***	N/A
Average daily traffic (HV) ***	N/A
Average daily traffic (LV+HV) ***	N/A
Total number of accidents	42.438*
No. of personal injury accidents	13.460*
No. of dead	728*
Km travelled (10 <sup>6</sup> x km) ***	N/A
No. of toll plazas	38
No. of lanes	186
No. of ETC equipped lanes	5**
No. of ETC subscribers	1491
No. of rest areas (with stations services)	109
No. of rest areas	177
No. of restaurants	20
No. of hotels/motels	60

**\*\* 133 combined manual and ETC and 5 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.**

### **Total traffic flow volume in 2011**

**Light vehicle (I and II class): 27.494.500 number of vehicles in 2011**

**Heavy vehicle ( III and IV class): 6.556.540 number of vehicles in 2011**