

GENERAL NATIONAL REPORT: 2011 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 2009. No new sections were opened in 2010.
31.12.2010.

- 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 2011

The opening of the following sections of tolled motorways is foreseen in 2011:

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

Investments in motorways

Year	2010		2011**	
	mil CSD	mil EUR	mil CSD	mil EUR
Investments in construction of new motorways	2.702,80	28,45*	6.014,80	58,39
Investments in routine maintenance of existing motorways ***	19.939,40	209,89*	19.123,60	185,66
Total	22.642,20	238,34*	25.138,40	244,05

* Source: Realisation of Motorway Development and Maintenance Plan for the year 2010, 1 EUR = 95 CSD aprox.

**Source: Motorway Development and Maintenance Plan for the year 2011 - which is not still approved by the Government of Republic of Serbia; 1 EUR = 103,00 CSD aprox.

*** Figures presented for the year 2010 and 2011 included total investments in routine maintenance of road network in Serbia.

Financing

Year	2010	2011
National Budget	/	/
Loans (IFI)	18 %	28 %
Own income (toll collection and other fees)	37 %	32 %
Taxes - 20% of tax on oil derivatives	35 %	31%
Other funds	2 %	6%
Credits by commercial Banks	8 %	3%
Total	100 %	100%

Traffic on Serbian motorway network

According to the data published by Statistical Office of the Republic of Serbia estimated growth rate of GDP 2010/2009 in Serbia is 1,5 %.

GDP 2010: 3.034,4 milliard CSD; 29.343 million EUR (Ministry of Finance estimated)

GDP 2009: 2.815,0 milliard CSD; 29.967 million EUR (Ministry of Finance estimated)

Inflation rate in 2010 was (taking December 2010/December 2009 price index) **10,6 %**.

Traffic growth on motorway network in 2010 / 2009: **1,83%** (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 2010 was 14.041 million CSD or 137,9 million EUR, taking the exchange rate 1 EUR = 101,7944 CSD.

The gross toll income in 2009 was 13.788 million CSD so the toll revenue approx. increased 1,83% in the year 2010 (calculated in national currency).

Safety

Main indicators:

According to statistical data published by Statistical Office of the Republic of Serbia in 2009 and the report published by Ministry of Internal Affairs in 2010 the following total of accidents on all roads in Serbia was:

	2009	2010	Variation 2009/2010
Total number of accidents:	49.070	33.578	-46,14%
No. of personal injury accidents:	15.807	14.179	-11,48%
No. of dead:	808	656	- 23,17 %

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 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**
- **Construction of Belgrade by-pass Section B Orlovaca- Bujanj Potok**
- **Rehabilitation of the old bridge Beška**
- **Rehabilitation of the E 75 motorway segment passing through Belgrade**
- **Rehabilitation of roads and bridges B2 (100 bridges)**

- 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
- 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 2011 we will finish modernization of all toll stations.

ETC system doesn't work on small toll stations: Indjija, Beška, Zmajev, Vrbas i Brestovac.

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 2011 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	2011
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**	137,9 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	33.578*
No. of personal injury accidents	14.179*
No. of dead	656*
Km travelled (10 ⁶ x km) ***	N/A
No. of toll plazas	38
No. of lanes	180
No. of ETC equipped lanes	4**
No. of ETC subscribers	1450
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 2010

** 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.

Vehicle category		
Motorway section	light	heavy
Number of vehicles		
Beograd-Nis	13.870.652	3.421.030
Beograd-Sid	5.057.323	1.268.324
Beograd-Novı Sad	3.884.900	1.022.308
Novı Sad-Subotıca	1.775.301	658.275
Nis-Leskovac	1.944.680	604.037

Table 1 - Total traffic flow volume in 2010