

HIGHLIGHTS:

New kilometers of roads

Traffic safety – joint actions and measures

New Supervisory Board of the PE “Roads of Serbia”

Records and inventiveness of the Sector for Toll Collection

PE “Roads of Serbia” in the EU integrations

New segments

“Bridges databases”



New kilometers of roads

Newly constructed 3.7 km long motorway section in the zone of Novi Sad was open for traffic on **September 4, 2013** the construction of which has enabled traffic on full motorway profile from the state border at Horgoš border crossing to Beška Bridge.

New Minister of Transport Aleksandar Antić was present at the opening and he pointed out that one of the priorities of the Ministry of Transport of the Government of the Republic of Serbia was to continue the implementation of large infrastructure projects in the upcoming period, primarily the construction of road Corridors X and XI. The Minister highlighted the importance of a positive behavior



towards the existing traffic infrastructure through increased care about the maintenance of I and II category state roads which also represented the capital value of Serbia.

Minister Antić expressed gratitude to the Employer, the PE “Roads of Serbia” and the contractor “Energoprojekt-niskogradnja” A.D. for excellent and good-quality execution of works. **Acting Director General of our Enterprise, Zoran Drobnjak** informed **Minister Antić** that it was a project of extreme complexity the implementation of which had been accompanied by several problems from the very beginning, which had been solved jointly with the contractor.

According to **Acting Director General of the PE “Roads of Serbia” Zoran Drobnjak**, the main and the biggest problem was the preservation and relocation of the existing installations of oil pipelines, gas pipelines, electric power and telecommunication lines and these works were carried out simultaneously with the main works on the alignment and structures. For the construction of embankments and replacement of materials, 2,000,000 m³ of sand, 220,000 m³ of stone material were incorporated in the blanket courses and 20,000 m³ of concrete were produced for the construction of structures and 3,200 tons of steel were incorporated. More than 60,000 tons of bituminous bearing course and 50,000 m² of asphalt-concrete were incorporated.



Mayer of Novi Sad Miloš Vučević was also present at the opening of this motorway section for traffic, which is a part of the Trans European network of motorways in the North-South direction and a part of the Pan European Transport Corridor X, or Xb branch which connects nine countries from north, central and south Europe. "This is a big sign to Novi Sad that this part of town should be developed and industrially activated so that many investors, which have bought land but haven't initiated their investments, could start with the construction of facilities, activate and create new business zone in the town", **Vučević** stated. "This would imply the development of industrial town zone, new investments and opening of new jobs", **Vučević** said.

New Supervisory Board of the PE "Roads of Serbia"

At the beginning of July this year, the Government of the Republic of Serbia appointed President and members of the Supervisory Board of the Public Enterprise "Roads of Serbia".

The following persons are appointed to constitute the Supervisory Board of the Public Enterprise "Roads of Serbia": as President - **Prof. Milan Vujanić, PhD**, Full Professor of the Faculty of Transport and Traffic Engineering of the University of Belgrade, as members - **Radiša Dragojević, BA (Political Science)**, Chairman of the Municipality of Petrovac na Mlavi, **Bajram Omeragić, BA (Political Science)**, Special Adviser to the Minister without portfolio, **Branislav Jovanović, LL.B.**, Executive Director of the Directorate for Construction of the City of Niš as independent member and **Velimir Kopanja, B.Sc.(C.E.)**, Head of the Department for Supervision within the Sector for Investments of the PE "Roads of Serbia" as employees representative.



International Scientific Professional Conference “Modern Road Maintenance”

Supported by the **Ministry of Transport of the Republic of Serbia**, Association of Road Industry Employers “**Putar**” and the **PE “Roads of Serbia”** are organizing the First International Scientific Professional Conference “**Modern Road Maintenance**” which will be held in Hotel Izvor in Aranđelovac **from November 7th to 9th, 2013**. Main topics of the Conference are the following:



ПРВА МЕЂУНАРОДНА НАУЧНО-СТРУЧНА КОНФЕРЕНЦИЈА
Аранђеловац, Србија 07.- 09.11.2013.

- Condition of the road network in the Republic of Serbia, proposal of improvements and sustainable financing
- Impact of roads maintenance on traffic safety
- Maintenance of the road network in the Republic of Serbia (Integrated road information systems)
- Roads and environment protection

More information can be found on the Websites: www.sop.rs, www.putar.rs and www.putevi-srbije.rs.

Commendation for impressive results

On the occasion of Municipality Day held on October 13, the Assembly of Ražanj municipality awarded the Commendation of Ražanj municipality to the PE “Roads of Serbia” for its contribution to the progress and affirmation of this municipality. **Miodrag Rajković, President of Ražanj Assembly** handed in the Commendation which was on behalf of our Enterprise received by **Ljerka Ibrović, Head of Department for Public Relations**.



For improved traffic safety

Minister of Transport in the Government of the Republic of Serbia Aleksandar Antić accompanied by **Acting Director General Zoran Drobnyak, Head of Traffic Police Department General Dragiša Simić** and the press visited the section of Ibarska magistrala road in the zone where Belgrade Bypass (“Orlovača” Interchange) crosses the Ring Road (future interchange “Petlovo brdo”) where special traffic signage was placed pursuant to the order of our Enterprise with the purpose to improve traffic safety and unobstructed traffic flow.

Pursuant to the “**Project of temporary traffic signage on the segment of Ibarska magistrala road (IA category state road No.2) in the zone of Belgrade Bypass**”, the PE “Roads of Serbia” as state roads manager placed temporary traffic signage which will be changed in accordance with the advancement of “Orlovača” Interchange construction.



Minister Antić pointed out that the priorities of the Ministry of Transport in the upcoming period would be traffic safety, maintenance of the existing roads on optimal level, placement of new signage in the zones where it is necessary and better organization of total road traffic.

In order to fulfill these plans, **Antić** says, several meetings were held with the management of the PE "Roads of Serbia", **Traffic Police Department and Road Traffic Safety Agency** during September which resulted in efficient and fast implementation of the set measures and objectives. One of these intervention measures and activities is the

realization of the signage project on "Orlovača" Interchange for the purpose of upgrading traffic safety on one of the dangerous locations at the entrance of Ibarska magistrala road in Belgrade.

During the visit to this section, the commencement of preparatory works was announced for the construction of "Petlovo brdo" Interchange and "Orlovača" Interchange (phase II) which are realized as one of the contracts within the **Belgrade Bypass Project** and financed from the European Investment Bank loan funds. Public procurement pursuant to the European Investment Bank rules was conducted from January to July 2013 and the construction contract was signed on July 23, 2013 with the consortium Strabag a.g. Austria and Strabag d.o.o. Belgrade.



The contract covers the construction of grade-separated intersection "Petlovo brdo" of semi-clover type at the crossing of IA category state road No.2 (main road M-22 – Ibarska magistrala road) and the Ring Road (regional road R-251) as well as the remaining construction works on the right carriageway of motorway profile on Belgrade Bypass in the zone of grade-separated intersection "Orlovača".

There were about 180 dangerous locations ("black spots") on the roads in the Republic of Serbia, **Minister of Transport Aleksandar Antić** said and highlighted that it was agreed with **Acting Director General Zoran Drobnjak** to urgently prepare projects of technical and traffic solution for all dangerous locations. The PE "Roads of Serbia" already initiated the preparatory activities for designing traffic solutions for all dangerous locations. Minister appealed "to start the implementation of the agreed activities gradually and persistently for which the funds will be provided successively in spite of the financial problems".

Zoran Drobnjak highlighted that a part of Belgrade Bypass and intersection – part of the completed "Orlovača" Interchange were lighted and that additional signage elements were placed. Besides, **Drobnjak** pointed out, specialized departments of the PE "Roads of Serbia" were located in the vicinity of the Bypass, on the Ring Road, which would control the functioning of this signage and lighting.

In continuity during 2012/2013, **Department for Designing and Planning Documentation** of this sector intensively cooperated with all relevant City institutions for the purpose of producing all planning documents (spatial and urban plans) of higher and lower level on the territory of the City of Belgrade.

Cooperation and participation in the production of **General Urban Plan for Belgrade with the report on strategic environmental impact assessment** and **General Regulation Plan of the construction area of the seats of local self-government units – City of Belgrade**, produced with urbanistic elaboration by units (20 urbanistic units), with ten plans in total which cover the territory of the City of Belgrade, are of special importance.

Production of these documents was monitored in all preparation phases of the planning documents, from the issuing of conditions to the presence on public insight of the plan and giving remarks to the planning document, which included the **processing of 102 requests** which the City bodies authorized for urbanism activities forwarded to the **PE “Roads of Serbia”**.

Quality System – upgrade of procedures



After the certification and control audit of the quality system pursuant to ISO 9001:2008 held in April 2013, upgrade and innovation of the existing procedures of the sectors and departments at the PE “Roads of Serbia” continued. For the purpose of optimizing the process of the ITS Sector and Sector for Maintenance of I and II Category State Roads as well as system procedures, more than twenty creative workshops were held and first versions of certain processes were done.

Further activities regarding the definition and consequent adoption of procedures in this field of operations are expected. Planned activities for the upcoming period include the implementation of corrective and preventive measures in all sectors, preparation of reports on quality objectives for the current year as well as future internal checks.

During more than ten creative workshops held, **Aleksandra Heleta- Milošević leading the team for quality system** and **Ljerka Ibrović, Head of Department for Public Relations** created new voluminous procedure and instructions with about twenty records of the Department for Public Relations.

The new procedure included all operational processes of this department divided into several sub-processes: communication with the media, public announcements on road conditions in the winter period, giving information to professional public, issuing of publications, relations with users, press clipping, Webpage and in-house PR. Each of the stated sub-processes is described in details and accompanied by adequate records.

Also, as a part of the procedure, monitoring of the realization of tasks through parameters relevant for their implementation is also defined, so that all parameters important for the public relations process will be successfully monitored as a part of quality objectives.

Apart from the procedure, work instructions were produced in the application for recording road conditions and automatic generation of winter maintenance reports, which rounds the story on the entire activity of this department with clearly defined tasks, process flows, records and reports at the end of the year.

Expanding of existing databases by forming database segment “Bridge bearing capacity”



Sector for Traffic Control Information Systems is finishing another important project which refers to the expanding of the existing databases – by forming database segment “**Bridge bearing capacity**”. The first step in the implementation of this task was to amend the exiting technical solutions for determining bridge bearing capacity, which enables wider application and elimination of the noticed deficiencies and writing of the new version of the “**Rulebook on determining bridge bearing capacity on state roads – SR – 04**”.

This Rulebook exactly defines structural elements of bridge which have impact on the bearing capacity via the factor of significance in systematic bridge inspection; the field of bridges with and without design documents is regulated; procedure of special bridge inspection in case of insufficient recorded bearing capacity is reduced; the field of bridges with narrowed pavement on which two-way traffic is not possible is regulated – limitations are set for such bridges as well as a lot of other elements.

Apart from adding the existing technical solutions and Rulebooks, the application is being produced which will replace the printed version of the “**Report on bridge bearing capacity inspection**”, by means of which a new segment in the **Bridge Database** will be formed. The following conditions are added as cause for carrying out inspection of bearing capacity: no design documents and thus unknown bearing capacity as well as special request. Names of structural elements are harmonized with the names of these elements in the “**Report on systematic inspection**”.



“**Regulations for designing**” were added with new regulations which were used on certain motorway sections. Concerning static equilibrium in critical elements, additional influences with significant impact on the bearing capacity of presses are also incorporated, the field of steel bridges exceeding the allowed stresses for the first and second case of bearing capacity as well as the allowed axle load is regulated, which is important data for bridge bearing capacity and also measures and proposal of works are included which should be taken over immediately from the aspect of bearing capacity,. Chapter “**Bearing Capacity**” has been added with “**Algorithm for determining bearing capacity**” which precisely defines the procedure for determining bearing capacity according to this methodology.

Testing of methodology

In order to check the effects of added and amended methodology for determining bearing capacity of existing bridges, **the testing of methodology started.** By analyzing the cases which can occur in practice, 10 characteristic bridges were selected.

Parameters for the selection of bridges were the following: that the bridges were on state roads on the entire territory of Serbia, that they included static systems and materials of the bearing structure which would represent the greatest percentage of bridges in use, including bridges with available documents designed before the effectiveness of the Rulebook from 1991.

For the purpose of reducing the costs of exploratory works, bridges with easier accessibility and small heights were selected because of the use of simpler scaffolds and working platforms. Structures selected for testing are in use for more than 20 years.

Selected bridges for testing

The following characteristic bridges are selected for testing the methodology: Bridge over the river Resavica on II category state road No. 149, bridge over the river Dumača on IB category state road No. 21, bridge over the railroad Belgrade-Požarevac on IB category state road No. 22, bridge over the river Klisura on IB category state road No. 14, bridge over the river Maloizvorska reka on IB category state road No. 14, bridge over the river Račnička reka on II category state road No. 132, bridge over the river Gročica on II category state road No. 127, bridge over the road to Meljak on IA category state road No. 2, bridge over nameless stream in Lajkovac on IB category state road No. 23, bridge over the river Rastovnička reka on II category state road No. 166.

ASECAP Study & Information Days 2013



41. ASECAP Study and Information days were held in Dubrovnik, Croatia in the period from May 26 to 28, 2013 and traditionally almost 200 experts in the field of road industry gathered both from Europe and worldwide. The topic of this gathering was: **“Promotion of sustainable development – Role of tolled motorways”.**

ASECAP and IBTTA (International Bridge, Tunnel and Turnpike Association) signed **Memorandum of Understanding “Joint Tolling Declaration”** which supports tolling policies in Europe and North America because thus mobility and economic growth are stimulated. The **Declaration gives 6 advantages of tolling compared to taxes:**

1. Higher income from tolls
2. “User pays” principle is more efficient than fuel tax
3. Tax revenues can be allocated to other important state needs – education, defense, social security, etc.
- 4. Toll collection is the most fair and best way for financing roads**
5. Possibility of traffic management in densely populated urban areas by variable tariffs
6. Possibility of fast and good quality construction of roads stimulates economic growth

Jean Mesqui (ASFA) was appointed as ASECAP President for the period 2013/2014, Øyvind Halleraker (Norvegfinans) was appointed as 1st Vice President and Massimo Schintu (AISCAT) was appointed as 2nd Vice President. Klaus Schierhackl

(ASFINAG), Immediate Past President stated that **“proper application of tolling system ensures network of good quality and provides high quality service which is expected from us by users and society in general”**. New President Jean Mesqui pointed out that **concessions in France were quite strong and despite the decrease of turnover they offered the country a stable tool for new investments which increased the employment and growth. France applies not only “user pays” principle but also “polluter pays” principle where the revenues return back to infrastructure and services.**

At the Conference, REETS project (Regional European Electronic Toll Service) was presented as a step towards the achievement of EETS, or European Electronic Toll Service. The European Commission supported this project and stated that finally there was a project which would show certain results and which would be accepted by the public, since it was users who required this service.

Tolling trend in Europe by 2020 will be toll collection per km traveled and by 2015 all tolling via vignettes will have to be abandoned and tolls will have to be collected by means of satellite GPS systems or toll ramps with the so called TAG devices.

Novelties on the PE “Roads of Serbia” Website

For the purpose of creating best possible visual identity, better organization of the entire Web contents and easier access, **Homepage of the PE “Roads of Serbia” Website is redesigned, new sections are introduced and the following contents are upgraded:**

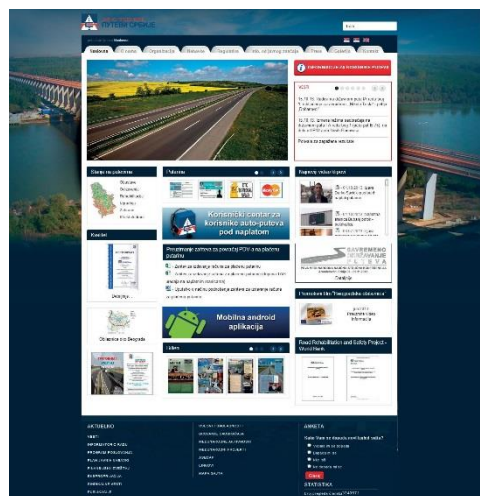
1. **Information for road users** – users are enabled to obtain information about road conditions, toll collection, etc. in the fastest manner.

2. **User service center for toll highway users** – intended for all toll highway users and interested participants in traffic.

3. Possibility for electronic submission of **requests for VAT refund for paid toll** as well as **instructions** for filling in.

4. **Photo gallery** is refreshed with new photos.

5. Better visibility of video clips and better resolution are achieved owing to new player.



For the purpose of better layout and efficiency of the homepage, footer is introduced containing useful information and up-to-date topics. Poll is also included where the visitors can rate the appearance of the new Website and thus give us the stimulation to strive towards its perfection in accordance with new technological solutions.

Success and inventiveness of the Sector for Toll Collection

Record concerning the number of vehicles and revenue

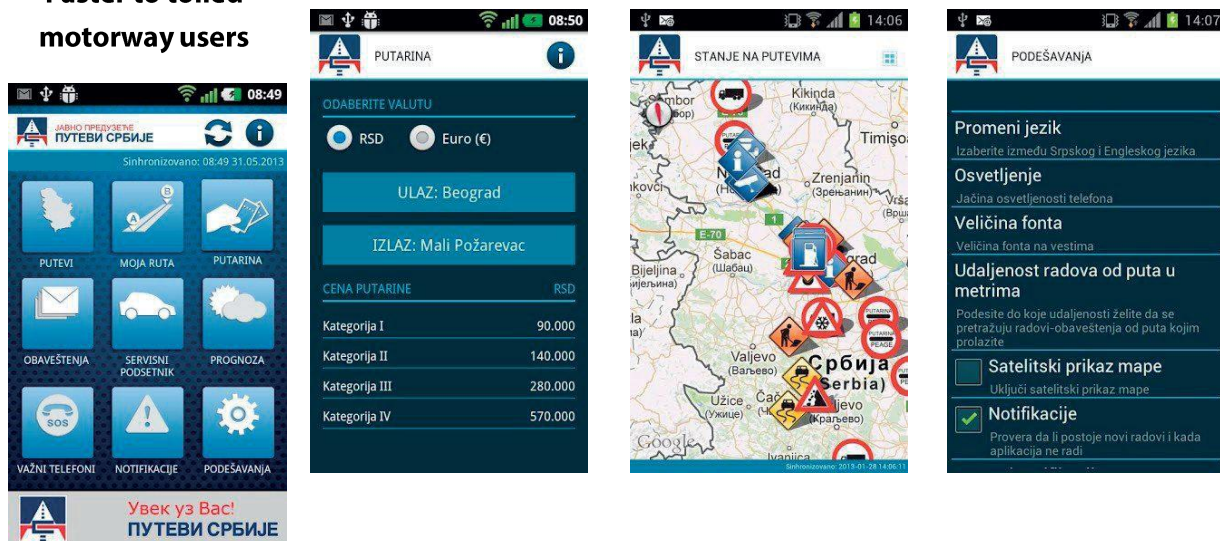
Due to increased traffic on tolled motorways in the Republic of Serbia as in every summer season, the **Sector for Toll Collection** intensified the work on toll stations, which enabled unobstructed flow of vehicles. Excellent preparation and good organization contributed the realization of record results and revenues.

In the period **January – August 2013, 24,197,256 vehicles** passed through toll stations while in the same period in 2012 23,223,723 vehicles passed, which is **4.19% or 973,533 vehicles more**.

Total revenue realized in the period **January – August 2013** is more than 10 billion 339 million RSD, which is **520 million RSD or 5.30% more** than in the same period in 2012.

This summer season was also marked by efficient and well prepared and organized work without any delays in vehicle flows and the Sector for Toll Collection will remember it by records and successes.

Faster to tolled motorway users



Owing to remarkable cooperation of the Sector for Toll Collection and the Department for Public Relations and for the purpose of better communication with participants in traffic, User Service Center started working for tolled motorway users and also Mobile android application was started.



User Service Center of the PE "Roads of Serbia" enables all tolled motorway users and interested participants in traffic to get "city tickets", free passes for using motorways in the

Republic of Serbia, to buy or refill the device for electronic toll collection (TAG).

Information about toll prices, categorization of vehicles, condition of motorways in the Republic of Serbia (traffic regime modifications, traffic closures, rockfalls, landslides, etc.) and weather forecast can be found in the User Service Center. Also, the User Service Center processes issues of subsequent payment of tolls, information on financial obligations are provided, possible complaints can be submitted, while the users of devices for electronic toll collection (TAG) can obtain the listing of vehicle passage through toll stations. The Center can be contacted by calling phone numbers, sending SMS messages to the cell phone number and by sending e-mails.



Participants in traffic with the right for VAT refund can fill in the Request in electronic form directly on the Website homepage and immediately forward it to the authorized service, which has enabled the desired interoperability of the Website of our Enterprise (<http://www.putevi-srbije.rs>).

New mobile android application is available for the road users so that they can get informed more easily and quickly about road conditions and other issues, which is called "Roads of Serbia" and located on the page "Google play" in Serbian and English.

The application is available to the users of cell phones, laptops, tablets with "android" platform and its download is free. It consists of nine fields which contain very useful data: "Roads", "My route", "Toll", "Information", "Service Reminder" and "Weather Forecast". By selecting "Important Phone Numbers", road users can make direct call to police, fire brigade, ambulance, AMSS – road assistance and PE "Roads of Serbia" and get weather data and international information.

By means of "Notification", information is obtained for towns selected in the given field. Users of the Service are enabled to change the options manually on the level of the application itself (selection of language, lighting, font size, etc.) by selecting the field "Settings". Users can send their suggestions or complaints via the field info, or "I".

PE "Roads of Serbia" will keep upgrading the application pursuant to new technological solutions so that road users and users of the application could be informed faster and more thoroughly about all issues necessary for comfortable and safe driving on the roads in the Republic of Serbia.

The second camp on Fruška gora "Play and learn"

Fifty children whose parents are employed at the PE "Roads of Serbia" aged 9 to 14 were at the National Park Fruška Gora in the holiday hostel "Testera" **from August 5 to 15, 2013** where the children camp "Play and learn" was held.

The kids, accompanied by four animators, learned new things through games, fun and laughter, about which Acting Director General **Zoran Drobnyak** and **President of the Autonomous Trade Union of Serbian Road Workers Sonja Vukanović** were assured of during their visit. This traditional free camp for children which has been held for ten successive years announced its next summer on some other location. Until then, the children of our employees will return to their usual school obligations and impatiently wait for new carefree gatherings.



53. International Cycling Race "Through Serbia 2013"



PE "Roads of Serbia" supported the International Cycling Race "Trough Serbia 2013" this year as well, with the goal in front of the House of the National Assembly in Belgrade after passed six stages and 840 kilometers. "Concerning the fact that we are not a country in the EU and entire our surrounding is, I have to admit that we do not lag behind Europe at all regarding the quality of roads, in particular Hungary, Poland, Slovakia, Bulgaria... We are even better than most of them", Ivan Stević, Serbian cyclist and Olympic competitor, member of the Romanian professional team "Tušnad" and winner of the 53rd race "Through Serbia" stated. Emphasizing our partner relationship, Stević said that the roads in Serbia were increasingly better and that he appreciated the endeavors of the PE "Roads of Serbia" to get the pavement on the roads, which are also the route of the race, into the condition which is safe for competitors.

Campaign 'FASTEN THE SEATBELT'



For the purpose of increasing safety of participants in traffic and increasing the awareness of the importance of the use of seatbelts, the PE "Roads of Serbia" joined the campaign of the Road Traffic Safety Agency "Fasten the Seatbelt". The campaign was supported by the **President of the Republic of Serbia, Tomislav Nikolić** and the highest government institutions.

From September 2013, participants in traffic can see the warning "FASTEN YOUR SEATBELT – SAFE YOUR LIFE" on information boards on five main locations: Bubanj potok, Dobanovci, Dušanovac, motorway to Novi Sad and Bežanijska kosa. These locations have the highest frequency of traffic in the zone of Belgrade and consequently they are the most suitable for providing information to the participants in traffic. Research shows that our drivers use seatbelts 40 percent less than the drivers in other European countries and in case of severe traffic accidents death is the most frequent consequence of not having the seatbelt fastened. This

is why the PE "Roads of Serbia" has joined the efforts to draw attention to participants in traffic about the necessity of fastening the seatbelts both for drivers and passengers on front and back seats.