



**PUBLIC ENTERPRISE  
ROADS OF SERBIA**

OCTOBER 2018

# Newsletter 20 | 21



**We continue  
to make  
good news!**



## We continue making good news

"I invite you to make good news together! Serbia can only make progress if there are people willing to build and change the country by work, knowledge and energy. Be part of good examples and projects, because that's the way to create modern Serbia. Every good trail in the sand we leave is the rock against which those coming after us shall lean, for whom we are doing all this, these being some new kids, future generations", said Prof. Zorana Mihajlović, PhD, Deputy Prime Minister and Minister of Construction, Transport and Infrastructure on the occasion of the opening of the First Multimedia Exhibition called "We continue making good news", held on July 3 and 4 in the former building of the Belgrade Main Railway Station.

The purpose of the Exhibition is to mark the first year of the work of the Serbian Government, but also infrastructure projects realized in that period. "We are not here by chance today. I believe that the building of the Main Railway Station is the right place for such exhibition, because it combines the

best in our past and the way we see our future today", said Mihajlović.

The Main Railway Station is a representative building and an example of development of Serbia in the late 19th century. Its opening was ceremoniously celebrated 134 years ago, with faith in a better future. Likewise, by organizing this Exhibition, visited by more than 5,000 people in two days, it was seen off to a place in Serbian history it deserves, being a cultural monument of great importance, worthy of its own future museum role.

For more than a century, the Main Railway Station was full of people in a hurry, carrying suitcases, departing, returning, arriving or welcoming the people they love with the sounds of a train horn. It witnessed many hugs, kisses and nice wishes. Years later, a bunch of smiling people in a ceremoniously decorated hall, but on another occasion. Precisely under its roof, the Exhibition displays in a vivid and interesting way the

infrastructure of Serbia taking a big step forward.

This was a unique opportunity for all generations of citizens coming with their families, children and grandchildren, to see in one place a combination of everything good from the past with today's, modern and contemporary work method.

In the centre of the hall, there was a model of railway buildings and railroads, with the posters around displaying photographs of significant traffic projects. Representatives of public companies, institutions and agencies from the Ministry of Construction, Transport and Infrastructure, wearing uniforms typical of railwaymen, road workers, pilots and captains, transformed the Main Railway Station into an exhibition area on the infrastructure of Serbia. At their booths, they presented their work and activities in the modernization of road, rail, air and water sectors of the Republic of Serbia in an interesting and creative way.





Ticket offices had been turned into information desks, where visitors were welcomed by representatives of the Sector for Toll Collection of PE "Roads of Serbia". They provided information to the interested citizens about the benefits of electronic toll collection. Also, electronic toll collection devices could be purchased or topped up here, with significant promotional benefits. The users were also informed about free internet and electric car chargers available along the highway, as well as about options of PE "Roads of Serbia" mobile application.

Part of the open-air exhibition area was arranged by joint forces and ideas of PE "Roads of Serbia" and "Corridors of Serbia". The interested citizens could learn in a vivid and informative manner about the work and competences of PE "Roads of Serbia" from the employees working in the Public Relations Department who provided corporate material, leaflets, bulletins and brochures. Moreover, photographs of infrastructure projects realized by phases were exhibited, with specially prepared maps showing the road network of the Republic of Serbia rapidly expanding on Corridor 10 and 11 sections and with corporate films of our Company shown on the monitor, which attracted

great interest of the people present. All this has proven that the present generation of road workers is ready to continue along the track beaten by hard-working and successful people before them, as said by Tomislav Milosavljević, a retiree of PZP (Road Construction Company) "Belgrade", who had been building roads in Serbia and the former Yugoslavia for more than 40 years.

Even though the Exhibition featured a corner specially equipped for the youngest ones, they particularly enjoyed colourful balloons, vests, helmets and road machine toys they received at PE "Roads of Serbia" booth.

The Public Relations Department enabled visitors to get familiar with specific machines, traffic signs and other tools used in the road sector. In addition to rollers and excavators, found entertaining by children, electric car and electric charger, being contemporary trends in ecological traffic attracted a special interest.

The possibility of using special glasses to see the construction of, for example, the Žeželj Bridge and other actual roads and buildings, and to experience the condition under the influence of alcohol or narcotics as well as the simulation of vehicle roll-

over at the booth of the Road Traffic Safety Agency was found interesting by visitors. Drones, which enable and facilitate shooting and photographing of construction sites from various angles and facilitate calculations and monitoring of works, also attracted visitors' attention.

Visitors could make a tour of the most modern train in Serbia and the former pride of our railway, special and luxurious Tito's Blue Train, standing on the tracks one opposite the other. Both of the trains incited enthusiasm of the people present, while the youngest ones were especially excited about the Blue Train. In its lounges, for the first time, visitors could see the furnished rooms, radio receivers, a television set and a dial-up phone.

The Multimedia Exhibition presented everything the relevant Ministry had done in the past year, together with public companies, agencies and institutions from its sector, with the common goal of creating a modern and advanced Serbia. Thus, as one of the symbols of this future Serbia, day by day, the magnificent buildings of "Belgrade Waterfront" are rising behind the building of the former Main Railway Station.





## New relaxation and recreation area with children's playground in "Borići" park-forest

Realization of the Project of "Construction of "Petlovo brdo" Interchange and completion of construction of "Orlovača" Interchange on the segment of Belgrade Bypass" began in May 2018, thus creating conditions for safe traffic with dangerous spot elimination - "accident black spots" on the Ibar Main Road, fulfilling the requirements of planned infrastructure development of our capital. Moreover, over a million vehicles per year passing through that section of the Ibar Main Road will finally be able to enter the city safely or continue along other segments of Belgrade Bypass route by using these new interchanges.

Having modified the interchange construction design, PE "Roads of Serbia" engaged the Contractor and the Engineer in the project through public procurement procedure. The contracts were signed with the Contractor - Consortium of MBA - Ratko Mitrović Niskogradnja and the Engineer - "Institut za puteve" (Highway Institute), in the first quarter of 2018 so that the works could start in May 2018.



By modifying the construction design, PE "Roads of Serbia", as a socially responsible and engaged company, preserved more than 90% of "Borići" park-forest and instead of cutting 1,652 trees down, as initially planned, ten times less - namely, 160 trees were cut down.

This new project provides the citizens of Petlovo brdo and its surroundings with a sound barrier wall, safe connection to the Ibar Main Road - a gyratory junction at Petlovo brdo and a new

relaxation and recreation area with children's playground in "Borići" park-forest. Also, this new project provides for intensive afforestation of the above park-forest itself by planting a significantly larger number of young trees compared to the number of those cut down.

The construction of "Petlovo brdo" Interchange is well underway and in accordance with the project schedule. Completion of these works is planned for the beginning of 2019.

## Progress of works on the construction of the Bridge over the Sava River at Ostružnica

Works on the construction of the Bridge, a part of Belgrade Bypass, over the Sava River at Ostružnica are currently in progress.

So far, concrete works have been completed on both banks - 8A structure, the length of which is about 595 meters, 8B structure, the length of which is about 700 meters (except for three spans, the construction of which is carried out only after the installation of the steel part of the bridge) and 8C structure, the length of which is 86 meters.

Final works are underway on these structures, so by the end of the season, waterproofing will be completed, one layer of asphalt will be cast and safety barriers will be installed.

Works on road construction, that is, planned construction of 900 m of the left Bypass lane, from the Bridge to Lipak tunnel have been completed.

Works on the construction of drainage system and installation of public lighting, electrical and telecommunications infrastructure are underway.



4,900 tons of steel were purchased and processed for the construction of steel bridge - 8 structure over the river, the length of which is to be 586 meters.

After completion of production in Kopeks MIN Niš and Mostogradnja - Batajnica plants, about 85% of structure parts were transported to the construction site and to the Belgrade Shipyard where pre-assembly is performed.

Works on river piers are underway - installation of tools for commencement of installation of abutments on river piers.

Steel structure installation technology provides for a combination of three installation methods: two structure spans (S4 to S6) will be mounted by pushing from the river bank; abutments will be mounted on S1, S2 and S3 piers by free cantilever method, while three structure parts, the length of which is 70 meters, will be lifted from the river.

These structure parts are assembled in the Belgrade Shipyard and in accordance with the designs of shipbuilding engineers, will be transformed into a vessel and transported to Ostružnica, where they will be erected and mounted by means of derrick cranes.

This is a unique process that has never been applied in Serbia and the region so far.

Realization of these complicated installation methods will require at least 12 months, so the works should be completed by summer 2019.





## Works on Belgrade Bypass, section from the Bridge over the Sava River at Ostružnica to Bubanj Potok continued

Aleksandar Vučić, the President of the Republic of Serbia, Prof. Zorana Mihajlović, PhD, Deputy Prime Minister and Minister of Construction, Transport and Infrastructure, Zoran Radojičić, Mayor of Belgrade, Li Manchang, Ambassador of the People's Republic of China to Serbia, Eldar Hasanov, Ambassador of the Republic of Azerbaijan to Serbia, Zoran Drobnjak, Acting Director of the PE "Roads of Serbia" and the Contractors marked the commencement of works on B section of Belgrade Bypass, from the Bridge over the Sava River at Ostružnica to Bubanj Potok before a number of media teams.

These works include the construction of a full motorway profile on B section - Sectors 4, 5 and 6, the length of which is 19.5 kilometres, or 20.4 kilometres including approach roads.

Works on Sector 4 (the Bridge over the Sava River at Ostružnica - "Orlovača" Interchange), the length of which is 7.7 kilometres include the construction of the left motorway lane, "Lipak" and "Železnik" tunnel equipping, the second phase of construction of bridges 9, 10 and 11 and the remaining works of the second phase on the construction of "Orlovača" Interchange.

Works on Sector 5 ("Orlovača" Interchange - exit from "Straževica" tunnel), the length of which is 3.1 kilometres include the construction of the left motorway lane, the left tube of



"Straževica" tunnel and bridges no. 13, 14 and 15.

Works on Sector 6 ("Straževica" tunnel - Bubanj potok), the length of which is 9.6 kilometres include the construction of both motorway lanes (full profile) from "Straževica" tunnel to Bubanj potok, "Beli Potok" tunnel, "Avala" Interchange and "Bubanj potok" Interchange and bridges no. 16 and 17.

"Every kilometre of roads constructed, especially of Belgrade Bypass is of huge importance for our country and all our citizens. This will connect South Banat and Podunavlje District, thus avoiding congestion through Novi Beograd, Zemun, over the Gazela Bridge and all other bridges, as well as through the Municipality of Voždovac. Through easier, faster and better throughput, we will win a major battle and competition with Romania and Bulgaria by taking over the passengers travelling to Greece or Turkey", said the President of Serbia, Aleksandar Vučić.

Deputy Prime Minister emphasized the significance of the Bypass construction, because freight traffic will be relocated from the centre of Belgrade after 30 years. She also added that owing to the construction of more than 200 kilometres of the motorway, transit traffic is brought back to Serbia, as evidenced by the fact that now we have almost 20 million vehicles on our roads.

Belgrade Bypass is crucial for Serbia. It will result not only in connection of Corridor 10 and 11 but also in relocation of not only passenger, but primarily freight transport outside the city centre which shall lead to ecological improvement of Belgrade.

The value of the works is 207 million euros. The works are to be performed by Chinese company called Power Construction Corporation of China Ltd., whereby Azerbaijani company Az-Virt Belgrade Branch is a subcontractor. The deadline for completion is 36 months.

The effects of the abovementioned improvements will reflect on reduced travel time for transit traffic flows which will be diverted to the Bypass, as well as for initial and end flows using the Bypass; reduced congestion on the segment of the core network of urban roads under the most intensive traffic; reduced number of traffic accidents on the core network of urban roads under the most intensive traffic; reduced costs of vehicle exploitation; reduced toxic gases and noise in the narrow city area.





## Third Serbian Road Congress

The Third Serbian Road Congress was held on June 14 and 15, 2018 in Belgrade, at the "Crowne Plaza" Hotel, organized by "Via-Vita" Road Association of Serbia and Public Enterprise "Roads of Serbia".

As in previous years, traditionally, this was a rare opportunity to bring together road and traffic engineering experts and share valuable experiences and the latest scientific and professional knowledge, new methods and technologies, all in order to improve road network and road economy for the benefit of economy and society as a whole.

The Road Congress covered the following topics:

- Planning and Design - Examples and experiences;
- Planning and Design - New Technologies;
- Road Management, Construction and Maintenance;
- ITS and New Traffic Technologies;
- Road Traffic Efficiency and Safety;
- Sustainable Development and Environmental Protection.

Prof. Zorana Mihajlović, PhD, Deputy Prime Minister of Serbia and Minister of Construction, Transport and Infrastructure opened the Congress and announced a new investment



cycle in road economy worth several billion euros, to be launched next year.

"One of the main projects, the construction of which will begin next year, is the construction of Niš - Merdare - Priština motorway, with the first section from Niš to Pločnik, which is nearly 40 kilometres long", said Mihajlović.

She pointed out that, apart from development of road network and new projects, the reform of PE "Roads of Serbia" will be carried out, which should be completed next year, in order to ensure having the highest quality roads.

"Next year, we will be able to speak proudly of the Reform of Roads of Serbia", said the Deputy Prime Minister to reporters.

Slavoljub Tubić, Assistant Director invited the companies to prepare for a new road maintenance philosophy where a much larger and more active role is expected of the contractors who will have to be able to bring the road network to a higher level at the very beginning and later to raise money on the basis of simpler maintenance.

## The First Generation of Road Safety Auditors and Road Safety Inspectors

PE "Roads of Serbia", with the support of the World Bank, the Ministry of Construction, Transport and Infrastructure and the Road Traffic Safety Agency, organized professional training for traffic safety auditors and inspectors, as well as certification testing in the period from May 21 to June 19, 2018.

Certification of the first generation of traffic safety auditors and inspectors was realized through the Road Rehabilitation and Safety Project.

The training comprised four modules, such as:

- Road Safety Engineering,
- Safe Road Design,

### The first on-line test on the website of PE "Roads of Serbia"

On its website, PE "Roads of Serbia" organized for the first time taking "entrance" qualification on-line test for all those who want to apply for training. The site was previously provided with an on-line application, and later with a test, based on which 40 candidates with the best score achieved were selected for the training.



- Road Safety Audit in Phases 3 and 4 (Road Safety Inspection) and
- Road Safety Audit in Phases 1 and 2 (Road Safety Audit).

The training candidates were civil engineers, transport and traffic engineers from private and public sectors, Universities, the Ministry of Construction, Transport and Infrastructure, Ministry of Interior, Road Traffic Safety Agency, Public Enterprise "Roads of Serbia", as well as representatives from local self-governments.

The candidates demonstrated a thorough knowledge, with 95% of the participants passing

the inspector part, and 88% of the participants passing the auditor part.

The Road Traffic Safety Agency, designated as a competent institution by the European Directive 2008/96/EC, and the Law on Public Roads is further in charge of issuance of licenses to Traffic Safety Auditors and Inspectors.

By this training, the Republic of Serbia has received a strong group of Traffic Safety Auditors and Inspectors, thus establishing the legal framework for the implementation of the European Directive 2008/96/EC on road infrastructure safety management in order to increase road network safety and which provides for road safety inspection during "the entire life cycle of the road".



## President Vučić, Prime Minister Brnabić and Vice President Mihajlović visited works on the construction of the bridge on Surčin-Obrenovac section

The Republic of Serbia will soon have the greatest motorway network completed in total length in the region, more kilometres of motorways completed than all the countries in the region, said Aleksandar Vučić, President of Serbia during his visit to the works on the bridge over the Sava and the Kolubara River at Obrenovac on May 24, 2018. The works were also visited by Ana Brnabić, Prime Minister, Prof. Zorana Mihajlović, PhD, Deputy Prime Minister and Minister of Construction, Li Manchang, Ambassador of the People's Republic of China to Serbia, Zoran Đorđević, Minister of Labour, Employment, Veteran and Social Affairs, Zoran Drobnjak, Acting Director of the PE "Roads of Serbia" and Siniša Mali, Mayor of Belgrade, representatives of the Ministry, local self-government of Obrenovac and Contractors.

### Large-scale and high-quality projects increase the country's GDP

"Large-scale infrastructure projects like Corridor 11 are very important for our country and we will not stop on that development strategy", said President Vučić and explained that, according to a rather demanding project, there are two bridges being built at the mouth of the Kolubara River in Sava, with three traffic lanes, the total length of which is 1,581 meters.

The President stressed that during his first visit to the construction site a year ago there was not one of the piers nor anything that is so magnificent today, that complicated works are being carried out in a very difficult part of the Sava River with calculated thousand-year water average so that floods could never damage the structures nor the population.

President Vučić said that there is too much work ahead of us and that the construction of Ruma - Šabac motorway, Šabac - Loznica ex-



pressway, Belgrade - Zrenjanin - Novi Sad and Bypass to Bubanj potok, including the rough part - from Bubanj potok to Vinča is planned in the following three years.

During her first visit to this construction site, Ana Brnabić, Prime Minister pointed out that each new infrastructure project demonstrates increase of gross domestic product, that our country is being built and developed, and that large-scale infrastructure projects are especially important for the arrival of investors and economic progress of the country.

Brnabić added that, owing to all reforms launched in 2014, this Government was able to invest 128 billion dinars in infrastructure projects and that additional, larger budget is planned for 2019.

"When this motorway is completed, people will be able to travel from Obrenovac to New Belgrade in 15 minutes. There will be no more congestion at the Fair, Ostružnica, Umka, or



landslides. People will arrive from Obrenovac to Yuri Gagarin street in Novi Beograd in 15 minutes, which will be a new way of life organization", said Prof. Zorana Mihajlović, PhD, Deputy Prime Minister of the Republic of Serbia.

The completion of the motorway from Belgrade to Užice will allow for one and a half hour journey between these two cities and another fifteen minutes to Zlatibor, instead of four or five hours as it is now, added Mihajlović, Deputy Prime Minister.

Li Manchang, Ambassador of the People's Republic of China to Serbia could not hide his satisfaction with the speed of bridge construction and pointed out that Chinese and Serbian companies are a good example of friendly relations and constructive cooperation between the two countries and that such project represents an eternal symbol of excellent cooperation and friendship between China and Serbia, which is a good example to be followed by other countries.



## Toll collection development strategy

To the end of raising the quality of maintenance and development of the road network, PE "Roads of Serbia" has developed a toll collection development strategy, which entails:

- Following of EU trends of development and modernization of the toll collection technology;
- Affirmation of toll collection without stopping;
- Expansion of the existing toll stations;
- Construction of new toll stations on all sections featuring the conditions for the implementation of toll collection;
- Establishment of centralized management of the toll collection system and its supervision through an optical cable (the test phase is being carried out on Šid-Šimanovci section)
- Expansion of the sales network for the users of ETC;
- Expansion of services for the users of ETC, interoperability and online services;



- Raising safety by implementing automatic calculation of the average speed between two toll collection points.

### 274,600 ETC users

Electronic toll collection, the fastest and cheapest form of toll payment, is being used by more and more users of Serbian roads.

The number of ETC devices is increasing every year and currently there are 274,600 users registered in the toll collection system.

Statistics show that at this moment every third vehicle makes toll payment by electronic means.

The number of freight vehicles using electronic toll collection has also increased to 70.20% of the total number of freight vehicles using motorways subject to toll collection.

The share of ETC in total revenue realized from toll collection for the period from January to September 2018 is **43,86%**.

### Expansion of the existing toll stations

The expansion of toll stations is carried out in order to increase throughput and provide separate traffic lanes for electronic toll collection. By adapting toll stations, users of electronic toll collection will be allowed to pass through the toll stations without stopping.

PE "Roads of Serbia" plans to expand 16 existing toll stations - Mali Požarevac, Jagodina, Pojate, Aleksinački rudnici, Aleksinac, Kuzmin, Preljina and Stara Pazova, as well as "B" and "N" sides of Vodanj, Markovac, Požarevac and Bačočina toll stations.

### Construction of new toll stations

Accelerated construction of the motorway network through Serbia provides for 22 new toll stations, thus creating the conditions for closed

### Motorway User Notification System - "VMS Variable Message Signs"

Sector for Toll Collection has implemented a pilot project for the installation of 12 variable message signs for users of motorways subject to toll collection on: situation at toll stations, congestion, traffic diversion, weather conditions and all other useful information for traffic participants.

Modern and efficient notification of participants and placement of important information to traffic participants is one of the main priorities of the Sector for Toll Collection.

toll collection system operation on all motorway sections subject to toll collection.

The priority is the construction of 12 toll stations on IA Category State Road number 1 (E-75), IA Category State Road number 4 (E-80) and IA Category State Road number 2 (E-763), namely lateral toll stations: Niš-Jug, Prokuplje-Merošina, Doljevac, Brestovac, Leskovac-Centar, Leskovac-Jug, Bujanovac 1 and Bujanovac 2, Niš-Sever, Niš-Istok and Niš-Malča and temporary front toll station Obrenovac.

### A constant trend of vehicle flow and revenue increase

The period from 2009 until 2017 is marked by a constant increase in total number of vehicles on motorways in the Republic of Serbia. The number of vehicles increased by 51.3%, with consequent toll collection revenue increase. In 2017, a record-breaking revenue of around 20.67 billion dinars was realized, which is 6.93 billion dinars or 50.5% higher when compared to the revenue realized in 2009.

**Toll collection rate in the Republic of Serbia is among the highest in Europe, amounting to 99.90% in 2017.**





## PE "Roads of Serbia" at "Lovefest" in Vrnjačka Banja

PE "Roads of Serbia" participated for the first time in "Lovefest" in order to jointly appeal with the Road Traffic Safety Agency to the importance of respecting traffic regulations and responsible traffic conduct.

Love Festival was a great opportunity to draw attention of young people to significance of traffic safety, something which constitutes our joint mission and aspiration.

More than 100,000 people from the region visited the three-day festival, and this number serves as a proof that this musical event takes a form of world-famous festival.

Exhibition space of the Road Traffic Safety Agency and PE "Roads of Serbia" was visited by a few hundred of young people to whom our promoters distributed leaflets, and who had an opportunity to educate themselves in a fun way through "drunk room", driving or alcohol simulator and with stage makeup in traffic and dangers they are exposed to when driving under the influence of alcohol or opiate.

By our motto **"Somebody loves you... Drive carefully"** we wanted to reach awareness of young population and show novice drivers the significance of compliance with traffic regulations and responsible traffic conduct, because in such a manner one takes care not only of their



own lives, but also of lives of other traffic participants.

The festival represented an opportunity for our enterprise to inform all interested persons of

modernization of road sector, electric car chargers, free internet along sections of Serbian motorways, and all the other services available to road users so as to increase their satisfaction.

## Joint action – success guaranteed

Through joint efforts and participation in Belgrade and Novi Sad Fairs and the festival in Vrnjačka Banja, the Sector for Toll Collection and Public Relations Department significantly contributed to the achievement of the most important goal of PE "Roads of Serbia" - user satisfaction.

Jointly designed and organized actions of PE "Roads of Serbia" at "DDOR BG Car Show" in March and at the 85th International Agricultural Fair in Novi Sad in May, attracted numerous

visitors to the event, interested citizens and domestic and foreign business partners.

The engagement by the Sector for Toll Collection and Public Relations Department was continued at Lovefest in Vrnjačka Banja, where they together with the Road Traffic Safety Agency appealed primarily to the younger generations to act responsibly in traffic.

All the benefits for users of the roads subject to toll payment in Serbia were presented at the fairs and the festival. Promotional corpo-

rate material and leaflets on electronic toll collection, free internet along motorway sections and electric car chargers informed the citizens in a vivid way about the advantages of the activities of PE "Roads of Serbia" in road sector modernization. For the purpose of emphasizing the significance of traffic safety, a leaflet with a slogan on motorway portals saying "Somebody loves you ... Drive carefully" was specially prepared for "Lovefest".

Events attracting a multitude of people from Serbia and abroad have proven to be an excellent opportunity for direct and informal contact with citizens and quick and prompt response to their questions and requests as well as for attracting new users of electronic toll collection as the fastest, most comfortable and due to various discounts, financially most profitable way of toll payment. Therefore, people could top up or purchase ETC devices at the fairs, while numerous visitors had the opportunity to receive it as a gift by participating in prize games or by filling out a survey on the use of PE "Roads of Serbia" mobile application, which enables quick and easy access to all essential information on road conditions.

Thanks to proactive work of the Public Relations Department and its daily quality cooperation with media and reporters, all the activities of PE "Roads of Serbia" at the fairs and the festival were covered by the media to a significant extent.







## Being up for the task

High standards have been set up in the **Department for Internal Control of Tolling Supervision and Automatic Data Processing** since its establishment.

Preventive action and detection of possible irregularities in work, providing expert assistance in launching initiatives for upgrading the operations and work process by proposing specific recommendations and measures in order to improve work efficiency and effectiveness, opti-

mal use of resources, greater involvement of staff and better organization, on the basis of findings from regular and extraordinary reviews and other tasks ordered by the Director - have been part of complex work and responsible activities of the Department for almost three years.

The fact that the Department for Internal Control of Tolling Supervision and Automatic Data Processing completed all activities defined by the Annual Business Plan in the period from

January to July 2018 proves that the Department is up for the task required.

Based on two regular and five extraordinary reviews performed within the Tolling Supervision and Automatic Data Processing Department with 737 documents being reviewed, reports with summary of findings were prepared and 24 recommendations were provided for improvement of work process in organizational units subject to review or inspection.

## PE "Roads of Serbia" marks the European Day Without a Road Death

PE "Roads of Serbia" marked the European Day Without a Road Death - EDWARD Project, entering the third year of realization, with its goal - a day without fatalities in traffic. The project, launched by the European Traffic Police Network (TISPOL organization) and supported by the European Commission, was realized during the European Mobility Week, which runs from September 16 to September 22, 2018.

By taking part in this campaign, PE "Roads of Serbia" wants all traffic participants to think

about the risks, how to reduce them and increase safety on the roads.

To this end and in order to inform the public, PE "Roads of Serbia" showed warning messages along motorways in Serbia, on ports with displays with variable traffic signalization, on Wednesday, September 19, at 10:00 am, as follows: "Drive carefully!", "No speed - no alcohol - no mobile phones during driving" and "Seat belt protects your life!"



**#ProjectEDWARD**



## Integrated management systems at a high level of business compliance



In June 2018, PE "Roads of Serbia" successfully realized a transitional and second supervisory inspection of Integrated Management Systems according to the requirements of ISO 9001: 2015 for Quality Management System and the requirements of OHSAS 18001: 2008 for Occupational Health and Safety Management System.

Evaluators of MSC (Management Systems Certification) certification body from Belgrade performed this inspection and confirmed a high level of conformity of business processes with requirements of both standards, emphasizing that the level of application of ISO 9001: 2015 is quite above other public enterprises that implemented the same standard.

During the inspection, all participants showed extraordinary commitment in their field of work on the Integrated Management System and readiness to upgrade their business pro-

cesses in creative workshops through continuous improvements.

Such commitment in terms of Integrated Management Systems, not only to improvement of processes, but also wider, resulted in the adoption of the **Code of Ethics** of the Enterprise.

In order to spread corporate culture, documents were defined through creative workshops and cooperation with representatives of all organizational units within the Enterprise.

The paper entitled *Integrated Management Systems and Business Excellence in PE "Roads of Serbia"*, presented at the Third Serbian Road Congress in June 2018, certainly speaks of dedication and significance of all employees in the Enterprise.

Plans for further development of the IMS are based on a good foundation, that is, on a well-established management system that provides the possibility of setting future standards

### Benchmarking Workshop - "Good practice examples"

Given that in 2017 PE "Roads of Serbia" won National Award for Business Excellence entitled "Quality Oscar" in three categories - Strategy, Partnership and Resources and Results with Users, Benchmarking Workshop was organized in cooperation with the Institute for Standardization, with management representatives of Integrated Management Systems and employees engaged in these tasks, representatives of the Director Head Office and Public Relations Department participating in the above workshop where work results were presented as examples of good practice.

Presenting the activities of the Enterprise, Zoran Pešović, Executive Director, emphasized the importance of document entitled **"Long- and mid-term Business Strategy and Development Plan 2017-2027"** which was highly evaluated by all institutions and which enabled communication channels to be recognized for effective implementation of the strategy, not only towards users, but also towards interested parties.

Great progress was pointed out as regards the efforts aimed at improvement of business processes of the Enterprise through involvement of employees in creative workshops as a way of strengthening cross-sectoral cooperation.

such as environmental protection, information security management, traffic safety and which enables development and integration thereof.

## Expansion of Road Weather Information System of PE "Roads of Serbia"

Modernization and expansion of Road Weather Information System (RWIS), a system for winter maintenance support, is a set of technologies that use historical and current meteorological data on weather conditions on the road in order to make timely decisions in winter maintenance.

RWIS is the basic tool for preventive winter maintenance, by means of which measures and procedures for preventing the formation of slippery pavements are implemented.

Currently, there are six weather stations in the road network of Serbia, which are part of the RWIS, while there are three weather stations in the integration phase.

The expansion of coverage provides for a certain number of new weather stations, to be implemented into the RWIS, which would enable the coverage of important parts of the road

network of the Republic of Serbia, in accordance with the needs and requirements.

In order to collect relevant input parameters for implementation of the project for installation of 60 road weather stations and integration thereof into the Road Weather Information System (RWIS), PE "Roads of Serbia" initiated preparatory activities implying visits to micro locations in the territory of the Republic of Serbia.

All relevant stakeholders of our Enterprise and the Republic Hydrometeorological Service of Serbia were appointed as part of project preparation, for the purpose of cooperation in terms of exchange of meteorological data.

Testing of "Road Users", free mobile application, is underway, the purpose of which is to collect information provided by traffic participants in order to improve the service level.







## PE "Roads of Serbia" and prudential business

PE "Roads of Serbia" intends to significantly reduce the cost of electricity, which at this time amounts to 230 million dinars per year, by 7% over the period of next seven years in comparison with the reference year, by means of modern, centralized control of electricity metering with time monitoring of consumption for each facility.

Monitoring of reliable operation of outdoor lighting shall be carried out by direct monitoring of consumption of electricity of outdoor lighting, which is an expert control system.

In highly automated infrastructure systems, with centralized (remote) control, exploitation costs are controlled, which is significant both for the operations of PE "Roads of Serbia", as well as for users, i.e., population.

First of all, it is necessary to carry out energy rehabilitation in all facilities owned by the Enterprise, so-called "Zero phase", bearing in mind the fact that the regulator expects this from PE "Roads of Serbia".

For example, 4.5 million dinars are provided for energy rehabilitation of the "Gazela" commercial space for this year.

By finalizing the register of electrical devices of all facilities subject to electricity payment by PE "Roads of Serbia", access to the condition of the system will be enabled, whereby the management will be able to consider the development plan for the upcoming period.

About 2.5 million dinars have been spent for the realization of this important project, which brings savings of more than 10 million dinars to the Enterprise only in the first half of 2018.

For each facility defined as power consuming, minimum (required) values of electricity consumption for each seasonal mode of operation (summer, autumn, winter, spring) are determined, which is a warning limit in case of unnecessary power consumption, whereby the main dispatcher, financial and maintenance sector of PE "Roads of Serbia" would be alarmed.

Also, in 2018, the sum of 300 million dinars is provided for the replacement of existing lamps with LED lamps at "Belgrade" Toll Station, at Vrčin - "Nikola Tesla" Airport.

Supply and installation of a control system for electricity consumption measuring (kWh and kVAR) is planned for all facilities in the Enterprise, during 2019, as well as to enable online control of the specified parameters through central (computer) system and management mobile phones.

A special emphasis is placed on the application of the study of replacing the existing lamps with LED lamps equipped with remote control.

Return on Investment is expected within a maximum of six years, consequently permanently reducing high maintenance and electricity costs, and in particular realizing savings for the taxpayers of the Republic of Serbia.

In this way, continuous control of system operation is achieved with the alarm of exceeding the approved costs of electricity consumption at each moment, as well as control of accuracy of electricity meters.

Exploitation costs of the Enterprise will be significantly reduced, while at the same time remote control (switching on/off) of the outdoor lighting, tunnel ventilation, etc. will be enabled, without going to the site.

In addition, in case of any facilities not paying their electricity bills, remote disconnection thereof would be possible.

If, however, the planned electricity consumption for any facility within the system of PE "Roads of Serbia" is exceeded, a warning will be issued.

**All this clearly shows that the intention of PE "Roads of Serbia" is - to reduce the costs of electricity at the structures we control!**

Prudential business, application of global experiences, analysis and monitoring as well as implementation of good global and European practice all aim at reducing the consumption to less than 200 million dinars, all in line with the instructions and assistance provided by UNDP, Ministry of Mining and Energy.

Our wish and intention is to implement this Program, given that the price of electricity is still a social category, meaning that prices are expected to increase, thus saving the country's resources.



## New look of the old Novi Sad road

Completion of works on complete reconstruction and extension of the road by at least one meter, in accordance with modern road traffic standards, the commencement of which was ceremoniously announced before Imre Kern, State Secretary at the Ministry of Construction, Transport and Infrastructure, Igor Mirović, President of the Provincial Government, Zoran Drobniak, Acting Director of PE "Roads of Serbia" and representatives of the Contractors in late April 2018, resulted in worn-out IIA Category State Road No. 100 being transformed into a modern road.

The new look of the old Novi Sad road, around 7-km-long section from Sremski Karlovci to Banstol, will allow for a safer and faster journey for over 5,000 vehicles, which is average daily number of vehicles passing through this route. Also, passenger and freight traffic flow is expected to increase by 20%.

"Rehabilitation of this road is a very important infrastructure project, not only for Vojvodi-



ternative to the motorway, but it connects the Municipality of Indija and Municipality of Irig. Moreover, it is especially important for tourism, as it leads to the excursion sites and monasteries of Fruška gora.

After more than half a century, this road has finally seen reconstruction according to the standards of the 21st century, in which PE "Roads of Serbia" invested almost 240 million dinars for works performed by "Sremput" from Ruma and "Baumeister" from Belgrade.

The contracted works included the installation of a new pavement instead of the existing, concrete one, the length of which is 3.9 km, rehabilitation and reinforcement of the pavement structure for the remaining 2.9 km, extension of the road surface to 7.2 meters, as well as construction of a new drainage system and new asphalt along the whole section. The works were carried out in two phases, with full compliance with the deadlines and traffic was enabled again on the new, modern road in late September 2018.

na, but also for the entire Serbia, and it is one of the first specific tasks resulting from the agreement and cooperation of the relevant Ministry and the Provincial Government", said Imre Kern, State Secretary on the occasion of marking the commencement of works. This section, together with the road from Banstol to the "Norcev" Hotel towards Iriški venac, will form a large reconstructed traffic ring at Fruška gora", said Igor Mirović, President of the Provincial Government.

IIA Category State Road No. 100 has always been significant. In the past, this road, built of concrete slabs, in phases, was the first modern road in the entire territory of the then country before the Second World War. Until the construction of Corridor 10, it represented the shortest and geographically most favourable traffic connection between the Western Europe and the Middle East. Today, it is not only an al-





## Good preparation - the basis for faster construction of motorways

Proper commencement of motorway construction is not possible without high quality and thoroughly implemented land expropriation. Successfully completed land expropriation on the Serbian motorway route conducted by the Sector for Legal, Staff and Common Affairs enabled the construction of 337.6 km of motorways, namely 257.5 km in total on Corridor 10, and 80.1 km in total on Corridor 11, or E-763 motorway.

As part of required, systematic preparations for the realization of large-scale infrastructure projects during all previous years, expropriation procedure continued in 2018 with equal intensity.

The route of the future motorway from Niš to Merdare, total length of which is 77 km, contains 3,920 parcels, with total area of 420 hectares and is divided into two sectors, namely Sector 1 - from Niš to Pločnik, which is 39.5 km long and Sector 2 - from Pločnik to Merdare, which is 37.5 km long. Design and engineering documentation is ready for expropriation for Sector 1, while it is being prepared for Sector 2.

Sector 1, Niš - Pločnik section is subject to land subdivision process in the Municipalities of Merošina and Prokuplje, while expropriation procedure is ongoing for parcels for which no division was required.

The Project owner, our Sector for Legal, Staff and Common Affairs expects the entire expropriation process to be completed by spring 2019.

Preparations have been made for the planned construction of Fruška gora Corridor - from Ruma to Novi Sad, the total length of which is 17 km. The process of land subdivision and expropriation is ongoing in the Municipalities of Ruma, Irig and Novi Sad. There are 830 parcels on this section, the total area of which is 106 hectares. Expectations are the same, that is, the whole expropriation procedure is expected to be completed by spring of 2019.

In addition to the expropriation procedure for the construction of motorway sections,



the Sector implements the expropriation necessary for the rehabilitation of state roads on the following sections: Topola-Bučin grob, Mali Zvornik - Gračanica, Gračanica - Ljubovića, Banja Koviljača - Mali Zvornik, Irig - Ruma and Lazarevac - Arandelovac.

The same process shall be conducted for the reconstruction of state roads on Kosjerić-Varda section, upgrading of front toll station in Stara Pazova and bypass around Bačka Palanka, hence the Sector for Legal, Staff and Common Affairs continues working at the same pace.

## Increased level of traffic services in Užice

Due to opening of the roundabout in the centre of Užice to traffic, at the intersection of IB Category State Road No. 28 and IIA Category State Road No. 174, safety has been significantly improved, traffic flow has been accelerated on this busy road, and urban and aesthetically pleasing appearance of the city at that location have been achieved.

Over the period of three months, extensive works were carried out, including replacement of pavement structure, asphalt surfacing and improvement of surface water drainage system.

During the above works, traffic was partially relocated to the surrounding roads, while the construction site was opened only for necessary traffic.





## Professional development of employees in Occupational Safety and Health Department

PE "Roads of Serbia", in cooperation with the College of Vocational Studies - Belgrade Polytechnic, organized in June 2018 professional development of employees in Occupational Safety and Health Department.

This professional development of employees was based on national and international organization of occupational safety and health system through international agreements, national laws, regulations and directives, while the training was carried out in a modern and quality manner in accordance with trends in the field of occupational safety and health.

The aim of realization of the program of professional development and training of employees was the acquisition of abilities to apply new regulations and good practice in the subject area, apply the requirements of general and special occupational safety and health measures, as well as to remove observations from OHSAS monitoring system.

The employees who attended this training have improved professional competencies in the field of occupational safety and health and quality of their work by applying acquired knowledge and at the same time they have received certificates of attendance.



### Successful fire protection training and testing

In the period from July 9 to September 20, 2018, the employees of PE "Roads of Serbia", assisted by specially trained colleagues from the Department for Safety, Health, Fire Protection and Rescue at Work, successfully completed basic training and practical testing in the field of fire protection, as required by the Law on Fire Protection.

The training consisted of lectures with presentations, practical demonstration of how to use fire extinguishers and test. Topics presented during the training include: obligations of the Company in the field of fire protection; basics of burning processes; causes of fire and fire ex-

tinguishing; modern technical systems for fire detection and extinguishing and specifics of PE "Roads of Serbia" as an enterprise and of its facilities.

Fire protection training is extremely important given that all the employees were enabled to gain knowledge and master practical skills which makes them able to properly and timely respond to emergencies both in business and private environment.

In addition to this training, the working environment was examined, training of the employees in the field of Occupational Safety and Health and First Aid are being prepared, and medical examinations of employees are underway.



## Development of lay-by area on Corridor 10



In July 2018, PE "Roads of Serbia" completed works on the development of a new lay-by area on Corridor 10, named "Krežbinac" after nearby village, on the section of IA Category State Road No. 1 (E-75) from Paraćin to Pojate, in the direction from Belgrade to Niš.

In addition to new parking lot, this lay-by area provides passengers on Corridor 10 with tables and chairs, toilets and garbage bins.

Within the project of road modernization in the Republic of Serbia, especially of motorways on European corridors, PE "Roads of Serbia" systematically works on the reconstruction and furnishing of lay-by areas on Corridor 10, thus in the following period all lay-by areas from Horgoš and Batrovac to Preševo will be equally designed in terms of construction and equipped.



## Workers' Sports Games "Putarijada 2018"

Organized by the Confederation of Autonomous Trade Unions of Serbia – Autonomous Trade Union of Serbian Road Workers, 23rd Workers' Sports Games "Putarijada 2018" was held at Zlatibor from June 28 until July 1, 2018, with a number of amateurs from road industry taking part.

Beginning of Workers' Sports Games was ceremoniously marked by celebration of Vidovdan, feast day of Serbian road workers.

"Putarijada 2018" gathered more than 750 employees from 23 road companies competing for medals in 9 sports disciplines.

Our employees won gold medals in chess and table tennis in both categories - men's and women's and third place in men's futsal.



This year, our Enterprise won the fourth place as a team. The first place went to the team of PZP (Road Construction Company) "Kragujevac", the second to the team of "Strabag" - Zaječar Branch, and the third to the team of "Highway Institute" from Belgrade.

Besides sports events, labour productive competition in paving was traditionally held

as part of "Putarijada", where PZP (Road Construction Company) "Kragujevac" won the first place, PZP (Road Construction Company) "Belgrade" won the second place and the third place went to PZP (Road Construction Company) "Požarevac".

"Kosmetput Inženjering" d.o.o. won the "fair play" cup.



## New summer experience in "Sokobanja" camp

This year, Independent Trade Union of our Enterprise organized a camp at Sokobanja for the children of our employees.

The camp was an opportunity for 200 kids to enjoy the charms of nature, gain an unforgettable experience by socializing with new friends, participating in well-organized sports, entertainment and educational programme. The children's smiles were far greater evidence than words while visiting cultural contents, swimming in Aqua Park or enjoying evening outings in the discotheque.

Ten days went by quickly, and after returning, the children recounted campsite events to their parents, looking forward to visiting the camp again next year.