

Newsletter 09

HIGHLIGHTS:

Database of dangerous locations on state roads

Roads maintenance – in accordance with conditions and funds

Public invitation for the construction of “Petlovo brdo” Interchange and “Orlovača” Interchange (Phase II)

Presence of our Enterprise in the media in the previous year

PE “Roads of Serbia” Website – increasing number of visitors



On Tuesday, March 26, 2013, at the premises of the Government of the Republic of Serbia in Belgrade, Contract on Business and Technical Cooperation in the field of traffic safety was signed which represents one of the most significant contracts with which all important factors are involved in the establishment of a stable system of management, safety, quality and application of new knowledge in the field of traffic. The purpose is to continue with the already established trend regarding the reduction of the number of fatalities and thus drastically reduce and avoid the consequences of daily crashes on the roads in the Republic of Serbia.

As Acting Director General Zoran Drobnyak, one of the Contract signees highlighted, “Roads of Serbia” would provide EUR 370 million for the rehabilitation and reconstruction of roads in the Republic of Serbia in the following four years primarily for the purpose of increasing traffic safety from the World Bank, European Investment Bank (EIB) and European Bank for Reconstruction and Development (EBRD) loans.

According to the statement of the Minister Milutin Mrkonjić, such attitude is the guarantee “that the level of traffic safety and culture will significantly improve due to large knowledge and references of all the signees to the Contract which they invest as a large professional capital in a set of obligations specified in the signed Contract”.

Beside the Minister of Traffic Milutin Mrkonjić, the Cooperation Contract was also signed by Acting Director General of the PE “Roads of Serbia” Zoran Drobnyak, Director of the Road Traffic Safety Agency Stojadin Jovanović, AMSS Secretary General Aleksandar Nikačević, Dean of the Faculty of Transport and Traffic Engineering prof. dr Branimir Stanić, Dean of the Faculty of Technical Sciences from the University of Novi Sad prof. dr Rade Doroslovački and Dean of the Academy of Criminalistic and Police Studies in Belgrade prof. dr Goran Milošević.

Database of dangerous locations on state roads

Determination of the cause of each individual traffic accident on a certain location is fundamental for setting the measures for preventive activities for the purpose of the elimination of future occurrence of traffic accidents. Existence of the locations on which a larger number of traffic accidents occur on certain road sections has caused the need for the necessary road safety inspections on those sections and determination of possible causes of traffic accidents.

In the Sector for Traffic Control Information Systems database of dangerous locations is established for the needs of users – competent sectors, which enables preventive activities with the purpose of increased traffic safety on state roads.

In the database, dangerous locations are ranked in accordance with the Methodology for identification and management of dangerous locations – “black spots” on the state roads in the Republic of Serbia. The criterion of Weight Factor of traffic accidents (TA) was used for ranking dangerous locations, calculated as follows $\text{Weight Factor} = 1 \times \text{TA with light injuries} + 13 \times \text{TA with severe injuries} + 99 \times \text{TA with}$

fatalities. Data for thirty highest ranked dangerous locations are on the made list of the collected data on dangerous locations on state roads.

From the aspect of functionality, the database enables data users – competent organizational units of the PE “Roads of Serbia” to properly manage their business processes. The database enables the “recognition” of problems, regular monitoring of the safety situation, monitoring of the implemented measures and their effects as well as the production of various reports. The database of dangerous locations contains a line of features: detailed data about the road and traffic accidents, diagrams of traffic accidents, road works, adequate photos and video clips.

Establishment of the database of dangerous locations on state roads is a fundamental step towards the establishment of an efficient system for the management of dangerous locations. Thus, the PE “Roads of Serbia” in cooperation with the Ministry of Traffic is involved in mutual realization of the project for establishing unique database significant for traffic safety.

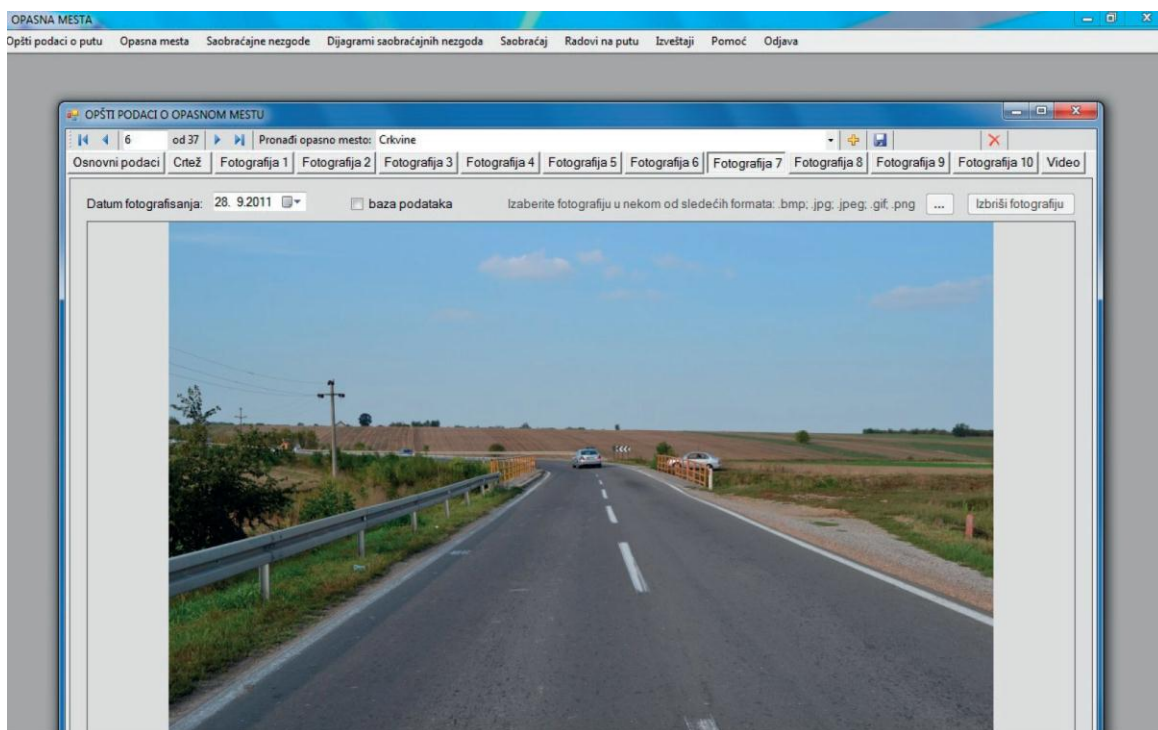
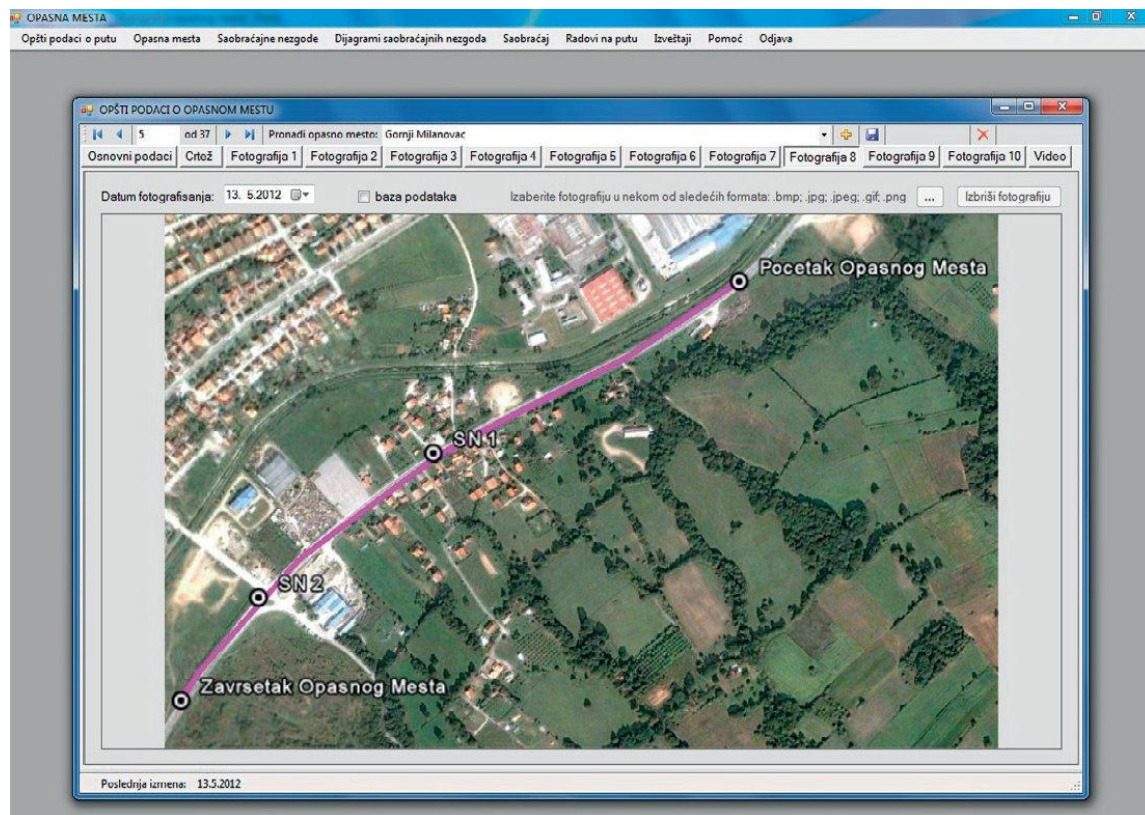


Photo of dangerous location

OPASNA MESTA PO OPŠTINAMA

Naziv opštine	Naziv opasnog mesta	ID ukrštanja	Naziv deonice puta
Savski Venac	Bulevar vojvode Mišića - Ruska	5001	
Zemun	Batajnica 0002 - Pukovnika Milenka Pavlovića 153A	5002	
Lajkovac	Čelije		Čelije-Županjac
Lazarevac	Čelije 2		Čelije-Županjac
Gornji Milanovac	Gornji Milanovac		Nevade-Gornji Milanovac
Mladenovac	Crkvine		Mladenovac 2 Međulužje
Batočina	Brzan	5003	
Topola	Božumja		Topola 2-Gornja Trnava
Prokuplje	Prokuplje 1		Potočić 1 (Donja Toponica)-Potočić 2 (Mala Plana)
Prokuplje	Prokuplje 2		Potočić 1 (Donja Toponica)-Potočić 2 (Mala Plana)
Jagodina	Pojate auto-put		Ražanj 1 (autoput)-Pojate (autoput)
Batočina	Batočina raskrsnica	5004	
Požarevac	Požarevac, Zabelska raskrsnica	5005	
Surdulica	Surdulica - Samokovo		Žitorade Surdulica
Vranje	Prevalac, raskrsnica M1 - put za Vranjsku Banju	5006	
Vranje	Kržince-tunel		Džep-Vladičin Han 1 (autoput)
Ljig	Ljig - Adamovića krivina		Poljanica-Ljig 1
Lajkovac	Čelije Ljig		Čelije-Županjac
Loznica	Lozničko polje	5007	
Laskovac	Laskovac most na Južnoj Moravi		Nomanica-Vlasotince

Diagram of dangerous location



Drawing of dangerous location



Report on dangerous locations by municipalities

Roads maintenance – in accordance with conditions and funds



During the operation of the Winter Service 2012/2013, about 2000 people, 679 road vehicles and trucks and 309 heavy machines for snow removal were in the state of alert on daily basis.

Prior to the Winter Service 2012/2013, the amount of salt was 72,500 tons and the amount of crushed stone aggregate was about 160,000 tons. Salt use was maximally rationalized both from economic and environmental reasons.

For the needs of winter maintenance, 24 road companies were engaged which were in charge of I and II category state roads as well as 2 companies rendering services.

Due to mild winter, routine maintenance was also performed in terms of pothole patching with cold asphalt mass, maintenance of drainage system and signs repair and maintenance.

Works Plan for 2013 is based primarily on routine maintenance of I and II category state roads, as in previous years.

Planned works for 2013 in the Sector for Maintenance of I and II Category State Roads include routine maintenance of roads and structures as well as routine maintenance of electric power installations in the total amount of about RSD 6 billion.

Due to the lack of funds, planned works for 2013 regarding periodic maintenance which include remedy and rehabilitation of I and II category state roads as well as structures will be implemented only on the sections where the works started last year in order to be completed this year in the total amount of RSD 2.6 billion.

“Winter, so what!”



For some people, snow means joy and winter idyll, however for the Department for Public Relations snow means much more work and far less sleep. At any time of day and night, the Department employees are ready to inform the media, Serbian Automobile Association and the Republic of Serbia Center for Informing and consequently the citizens via these institutions about road conditions in the Republic of Serbia. Our announcements and reports which are sent on regular basis three times a day, and exceptionally as needed, are valuable guidelines for the persons who started their journeys with no idea what conditions are awaiting them on the road.

During the winter season 2012/2013, the Department sent 814 Winter Service Reports on the condition of state roads in Serbia. Beside the present road conditions, our reports also contain information on weather forecast as well as possible warnings regarding ice, rockfalls, snow drifts, etc.



Communication with journalists has always been important for us, especially during the winter period, therefore we are always cooperative towards all who need adequate interlocutor or answers. By the means of this Newsletter as well we are informing the citizens about the plans, work of winter service, available machines, etc.

Sector for Maintenance, Winter Service Team, journalists, Serbian Automobile Association, Republic of Serbia Center for Informing and Department for Public Relations compose a big team with the same objective: to maintain uninterrupted traffic, provide the citizens with all required

information and alleviate as much as possible, at times really heavy conditions for traveling imposed by winter.

Planning and designing



In the first three months of this year, the Sector for Strategy, Designing and Development completed the implementation of the Contract on the preparation of Modification and amendment to design documents of E-80 motorway for the section Prosek – Crvena Reka for the purpose of constructing motorways in the Republic of Serbia.

Public procurements for the preparation of Final Design for the Upgrade of E-75 Motorway, section Mali Požarevac – Pojate are ongoing as well as the

work on the preparation of tender procedure for the preparation of Final Design for access to “staggered” petrol station “Biljača” on both sides of the motorway and motel “Biljača” on the left side, section Levosoje – Bukurevac.



Concerning designs for the network of II category state roads, one design is being reviewed at the moment and the review of two Final Designs for roads upgrade and professional control of the Preliminary Design for IB category state road No. 13 (M-21) for the sections E-75 motorway – Hrtkovci and Hrtkovci – river Sava are ongoing.

Preparation of Preliminary Design for Prokuplje Bypass is in the final phase as well as the public procurement for making Preliminary Design for IB category state road No. 23 (M-4) Loznica-Valjevo-Lazarevac, section Iverak – Lajkovac.

Tender is being prepared for making Preliminary Design for bridge over the river Sava near Šabac as well as the tender for making Plan of Detailed Regulation for overpass on II category state road No. 102 (M-22.1) between Bačka Topola and Mali Idoš.

Final Design for improving 4 landslides on I category state roads and for 5 landslides on II category state roads is in the final phase.

The plan is to complete by the end of the year all started activities regarding the making of designs as well as the initiation of Public Procurement for technical control of Final Design for upgrading E-75 motorway section Mali Požarevac - Pojate.

On E-761 motorway Pojate – Preljina, for the sections Pojate – Kruševac and Adrani – Preljina, Preliminary Designs with Feasibility Study are completed and their verification is expected after the adoption of the spatial plan of the special purpose area of E-761 motorway infrastructure corridor, section Pojate-Preljina. The plan is also to initiate Public Procurement and making of Final Design for the upgrade of II category state road No. 150 (M-4), section Markovac – bridge on Velika Morava. If possible, design documents for the remedy of emergency interventions on bridges will be made as well as design documents for the remedy of emergency interventions on landslides.

Concerning the work on plan documents, issuing of conditions and approvals for plan documents on the road network of the Republic of Serbia is done promptly and within legal timeframe as always.

Identification of environmental corridors

For the purpose of reducing the impact of road traffic on noise, the Sector for Strategy, Designing and Development is planning to make maps of equal noise levels for the night period (from 22:00 to 06:00) and 24-hour period (Lden) in 2013 for most rural sections on the network of state roads in Serbia where average annual daily traffic exceeds 6 million vehicles, within the impact zone. These activities are a part of obligations of our country to the European Environment Agency regarding the production of strategic noise maps.

Besides, identification of environmentally important areas and their corridors is ongoing based on the Decree on the Ecological Network for the purpose of fulfilling the requirements of the Bern Convention and EU Directives related with NATURA 2000 areas.

Identification of conflict locations of ecological network and state road network is planned in 2013 for the purpose of determining precise locations where the establishment of ecological crossings would be proposed. These could be in the form of ecological bridges, dedicated passages, tunnels, ditches, guiding facilities, etc. as foreseen in the Rulebook on Special Technical and Technological Solutions Enabling Free and Safe Communication of Wild Animals.

Increasing the level of traffic safety on state roads



Since the Republic of Serbia is strategically devoted to the increase of the level of road traffic safety (with functional integration into the European road network), the Public Enterprise “Roads of Serbia” is undertaking measures for improving traffic safety on state roads in accordance with the development policy and objectives of the Republic of Serbia.

“Project of independent assessments of the impact of roads on the occurrence of traffic accidents with fatalities on the state roads in the Republic of Serbia” is the primary project of the Sector for Strategy, Designing and Development from the Business Program for 2013 regarding traffic safety.



In paragraph 7, Article 156 of the Law on Road Traffic Safety it is defined that “in case of a traffic accident with fatalities, public road manager shall determine the cause, or contribution of the public road to the occurrence, or consequences of the traffic accidents based on the independent assessment within a month as well as take measures for improving the road safety”. In the analysis of traffic safety on state roads, the Law on Road Traffic Safety enables and prescribes this measure for the cases of traffic accidents with fatalities.

Road manager is also obliged to “form an independent expert team which will visit the site, observe all factors and traces of accident occurrence within a month from the accident occurrence or the occurrence of the consequence as well as propose the measures for preventing traffic accidents on that part of the road and make report about this”.

The project should provide such solutions which contribute the improvement of all dangerous locations and situations on state roads, or the increase of the level of traffic safety on the road sections in question.

It is important to mention that the “Project of independent assessments of the impact of roads on the occurrence of traffic accidents with fatalities on the state roads of the Republic of Serbia” is in fact In

Depth Studies of traffic accidents with fatalities, as an appropriate procedure applied in the analyses of road safety in most European countries.

Implementation of In Depth Studies with fatalities should contribute the elimination of causes of accidents occurrence which are directly or indirectly connected with the road and reduction of the number and consequences of traffic accidents on the roads in the Republic of Serbia.

Good analysis and preparation – safe designing and execution of works

In the Department for Technical Preparation, the Sector for Strategy, Designing and Development has prepared and collected data on the change of the prices of materials, fuel and equipment on the market, made analyses of their direct impact on possible increase of prices connected with current work pricelist.



Big attention is paid to internal control of the implementation of procedures set in the ISO 9001:2008 Standard, auditing of pro forma invoices and for the roads construction and reconstruction works, to heavy and routine maintenance of roads and bridges as well as to the works in the Sector for Investments – LOTs.

Statistical data of the Statistical Office of the Republic of Serbia relevant for the work of the Department and Sector have been collected and processed.

Public invitation for the construction of “Petlovo brdo” Interchange and “Orlovača” Interchange (Phase II)

At the end of February 2013, our Enterprise, as Employer, announced Public Invitation for submitting bids for the selection of the most favorable bidder for the construction of “Petlovo brdo” Interchange and “Orlovača” Interchange (Phase II), Lot B5.3, Belgrade Bypass project. The works are financed from the European Investment Bank (EIB) loan.



Grade separated intersection of “half-clover” type is to be constructed on the point where IA category state road No.2 (Main road M-22 – Ibarska magistrala) crosses the Ring Road (regional road R-251) near Belgrade settlement Petlovo Brdo in the close vicinity of “Orlovača” Interchange.

The project includes earthworks and drainage works, construction of road bed and pavement structure, rainwater drainage with 2 treatment plants as well as the construction of 2 bridges (bridge 24a – left and right carriageway), traffic technical and service equipment of the road, interchange lighting, relocation and protection of telecommunication infrastructure, preservation and landscaping of the right-of-way, preservation, reconstruction and relocation of the existing water piping and sewage installations as well as the relocation and preservation of the existing and construction of new gas pipelines and retention wall.

The tender also includes the remaining works on “Orlovača” Interchange on the grade separated intersection of cloverleaf type, which implies the construction of right carriageway of motorway profile on Belgrade Bypass in the interchange zone, works on Ibarska magistrala road where the deviation and newly designed Ibarska magistrala road cross (zone of fitting in legs 1 and 4) and construction works on service lanes on the left and right side. Deadline for the completion of works is 270 calendar days.

E-75 motorway through Belgrade rehabilitation project



As a part of the rehabilitation project of E-75 motorway through Belgrade (IA category state road) in February 2013, drainage system was cleaned on two sections, first at Lasta Interchange, direction towards Niš (section 18) and afterwards at the Emergency Center also in the direction towards Niš (sections 13 and 14).

The works were executed under traffic and emergency lane was closed for traffic in the sections of 50m of length.

QMS

As a part of regular activities regarding the application of quality system management, internal checks were performed throughout the entire Enterprise.

Regarding well established and implemented quality management system ISO 9001:2008, internal checks showed a high degree of harmonization with the requirements of the standard. In the Sectors and organizational units where certain discrepancies or field for improvements were found, measures for their elimination and upgrade were initiated.

One of the most significant improvements initiated after the internal checks, the realization of which is expected by mid-year, is the creation of a new quality system document – Sector Quality Plan. The idea behind this document is to reflect the work of the sector, provide schematic overview of the sector organization, map of procedures, list of activities connected with the quality system as well as internal operation of the sector, outsource list, etc.

This way, a complex system such as the PE “Roads of Serbia” will get an important document which will be useful for all directors of the Sectors in simpler and more effective management and presentation of their organizational unit with clearly defined activities connected with the quality management system.

Apart from the production of this document, modifications of the following procedures are ongoing as well, namely the Procedure of the Sector of Maintenance, Department for Public Relations, Sector for Traffic Control Information Systems, etc. in the sense of optimization and better harmonization with practice.

Quality management system team is available to all employees for the best possible preparation and presentation for control check announced for April by a certification company.

Presence of our Enterprise in the media in the previous year



According to the presence of the PE “Roads of Serbia” in the media in the previous year, 7158 features were published about the Enterprise activities in all media in the Republic of Serbia. Out of this figure, 2251 (31.4%) had a positive tone in the print and electronic media, 4165 (58.2%) were neutral and only 742 (10.4%) were negative. 1368 articles (19.1%) were published in the print media, 2187 features (30.6%) were in electronic media, 2943 features (41.1%) about us were found in the internet media while the agencies broadcast 660 features about the PE “Roads of Serbia” (9.2%).



Most feature articles in the print media appeared in “Večernje novosti”, “Blic” and “Politika”, where most positive features were published in “Večernje novosti” and most negative articles were in “Blic”. The biggest number of features in the electronic media were broadcast by RTS1, Happy TV and Pink, where RTS1 had the

biggest number of positive features and B 92 had the biggest number of negative broadcast features. Among Web portals, the portals www.akter.co.rs, www.b92.net and www.rtv.rs stand out according to the number of positive features, while the biggest number of negative features appeared on www.blic.rs. In the category of agencies, “Tanjug” agency had the biggest number of features.



Result of direct activities of the Department for Public Relations is 5497 published features. The most expressed PR activity is visible in agencies – 87% and electronic media – 85%, in internet media – 77.1%, while in daily print media it is 62.8%, 36.7% are in local print press and 36.4% are in periodic print media.

Topics with the highest publishing and broadcasting frequency and positive features in 2012 were: Maintenance, Investments, Condition on the roads, Winter Service, Toll Collection and Traffic Regime Modification.

Department for Public Relation in figures

24-hour long dedication to obligations, representing our entire working day, is not an easy task. The following figures are the best confirmation!

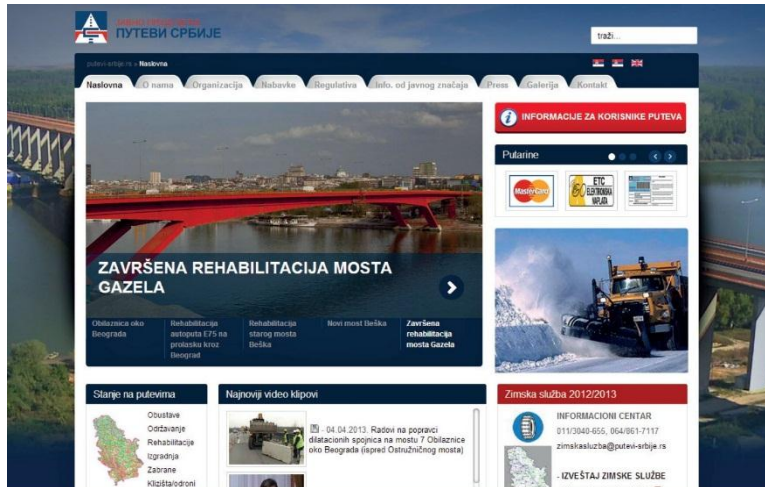
As a part of cooperation with the media, we responded to 351 requests of the journalists. We were directly addressed by 99 citizens and additionally by 88 via the Service for Information of the City of Belgrade (187 in total). Most of these requests were answered the same day they were sent.

We gave 334 announcements about traffic regime modifications, provided interlocutors for 395 interviews, took part in 12 press conferences and 5 presentations and seminars.

Shooting or reporting requests are an inseparable part of our job and in previous year we had 12 such requests.

When all abovementioned figures are divided by 365, namely the number of days in a year, the result is obvious: small Department in terms of the number of employees, a lot of work and big results.

Website of the PE “Roads of Serbia” – increasing number of visitors

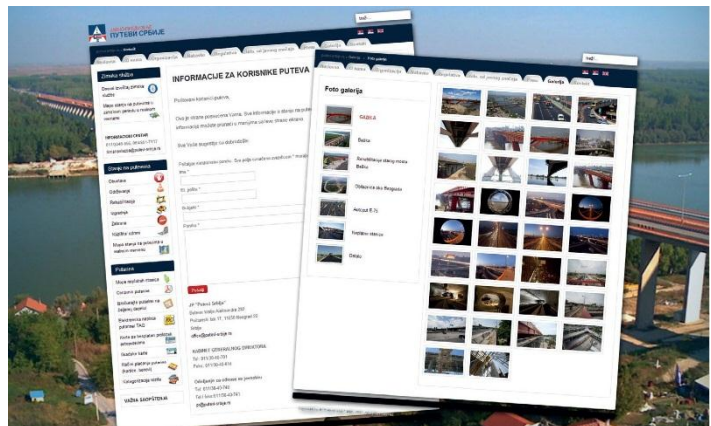


Analysis of visits to the Website of the PE “Roads of Serbia” shows that the number of visits in 2012 increased by 8% compared to 2011.

Total number of recorded visits is over 220,000 with viewing of more than 650,000 pages, implying that every visitor to the Website viewed the average of 3-4 pages.

Web storage increased three times, mostly due to the uploaded video clips, which now take up the biggest part of the Website – over 9GB.

Naturally, the Website is primarily important for visitors from Serbia (number of visitors from our country is over 82.44%) however it is also important for the countries in the region such as Bosnia and Herzegovina, Macedonia, Slovenia, Germany, etc.



Apart from the homepage, the most visited pages are pages on toll, news, winter service reports, information of public importance, works as well as the traffic report map and winter service map.

The number of visits in 24 hours tells that the highest frequency of visits to the Website is during working hours, from 8 to 15.

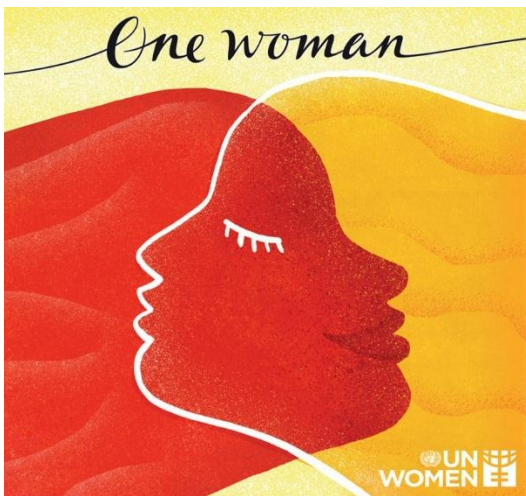
Like in previous analyses, trends of increased use of mobile devices for accessing the Website are noticeable (smart phones, tablets, etc.).

Further, the Website of the PE “Roads of Serbia” with its scope and type of content, speed and updating frequency and used technology is one of better Websites in our region especially among public enterprises and state government authorities.

Our imperative is to upgrade the Website so that it could reach the intended public faster and more easily.

March 8

We celebrated another March 8. International Women’s Day is celebrated every year worldwide, thus our Enterprise joined the celebration. It used to be different earlier. Women’s Day originated as the day of fight for economic, political and social equality between women and men. As of 2010, “UN Women” and “UN Global Compact” initiated “Women’s Empowerment Principles” as a part of support to gender equality. In the process of harmonization of the legislation of the Republic of Serbia with the European Union legislation and the conventions of the International Labor Organization, “Women’s Empowerment Principles” will become a part of our legislation as well.



A woman will hardly ever be entirely equal to a man because nature of many affairs requires physical strength which is attributed to the stronger sex. However, many issues have been equalized since the beginning of the fight for equality.

Although the PE “Roads of Serbia” now employs 2/3 of men and 1/3 of women, one thing is certain – it is impossible to imagine the PE “Roads of Serbia” without women and their persistence, effort and devoted engagement in work!