



KLASTER ŽELEZNICA ZA JUGOISTOČNU EVROPU

RAIL CLUSTER FOR SOUTH-EAST EUROPE

# ***SEE RAIL Perspective***

RAIL CLUSTER FOR SOUTH-EAST EUROPE QUARTERLY NEWSLETTER | Year IV, issue 15, Dec. 2019 [www.rcsee.org](http://www.rcsee.org)



**N 15**

**04/2019**





### s. 3 - 10 | FACTORY NEWS

**B&H:** Study on Current Condition of B&H Railways

**Croatia:** Conference "Railway Projects in Croatia"

**Serbia:** New Projects on Serbian Railways

**Serbia:** Srbija Voz purchases new trains with EBRD Loan

**Slovenia:** Conference on the opening of the Amber Corridor

**Montenegro:** AD Montecargo reconstructing 60 freight cars

### s. 11 - 14 RCSEE and Member Activities

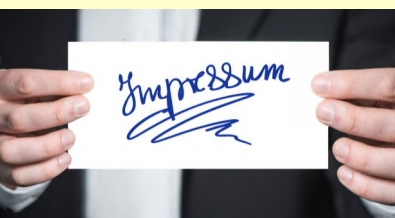
✓ Greetings to new RCSEE Member from Belgium



✓ Director BCRRE From UK Alex Burrows RCSEE Guest in Belgrade



✓ RCSEE the Most Active Participant of INNORail 2019



**Editor in Chief:** Milan Vučković

**Translation and marketing:** Marko Radović

**Design and LayOut:** BSN | [www.bsn.rs](http://www.bsn.rs)

**Editorial:** Andrijana Stefanovski, Dragoljub Rajić, Lela Ignjatović and Marko Radović

**Publisher:** Business Support Network / Mreža za poslovnu podršku (BSN)

Strumička 100, 11050 Beograd | E-mail: [info@bsn.rs](mailto:info@bsn.rs) | PIB: 108639092 | MB: 28151829

(Photo on the cover page: SEE Mobility 2019)

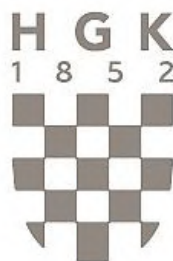
## Study on Current State of Railway Sector and Infrastructure in Bosnia and Herzegovina

**December, Sarajevo, B&H** (Photo: ŽBIH): In the end of 2019 three railway experts finished an analysis titled “State of Railway Sector and Infrastructure in B&H With a View on Railway Corridor Vc and Route 9a”. In this issue we will publish an abstract of the survey. Those who wish to read a full analysis can contact authors on one of the following e-mails: **Zlatko Bevanda, B.Sc.C.E.** [zlatkobevanda@gmail.com](mailto:zlatkobevanda@gmail.com) (Mr. Bevanda is a member of RCSEE), **Boško Ristić, B.Sc.E.E.** [bosko.ristic67@gmail.com](mailto:bosko.ristic67@gmail.com) or **Prof. Igor Marković, PhD** via e-mail [igor.nastava@gmail.com](mailto:igor.nastava@gmail.com)

We would like to remind that Mr. Zlatko Bevanda and Mr. Boško Ristić are experts in *Bosnia and Herzegovina Railways Public Corporation* and Mr. Igor Marković is an expert of *Railways of Federation B&H*.

**Abstract:** Loan agreements from the European Bank for Reconstruction and Development (EBRD 23376) and from the European Investment Bank (EIB 35418) of December 2005, provided loan funds for financing of regional projects for the rehabilitation of railways in Bosnia and Herzegovina II. The total loan amount is 156 million EUROS. These funds have been spent on several important projects for the rehabilitation of railway infrastructure. There are currently no new loans for continuation of the investment even though there is a possibility of co-financing 50% of the value of the proposed railway projects through the WBIF investment grant. One of the conditions is that the WBIF application should be accompanied by a credit arrangement between BiH and international financial institutions involved in WBIF. The financial resources invested in the maintenance and reconstruction of the railway infrastructure are insufficient and that situation lasts for years. An analysis of existing contractual relations between the Entity Government and Infrastructure Manager has shown that these Contracts are not being prepared in accordance with Directive 2012/34. It is necessary to define financing models for the railway sector. The Transport Community Agreement supports the development of indicative extension of the TEN-T Comprehensive and Core Network on the Western Balkans area in accordance with Regulation of the Commission (EU) 2016/758 as set out in Annex I. 1. It is important to note that Bosnia and Herzegovina, under the Transport Community Agreement, has a duty to transpose EU Directive of the fourth Railways package into the local legislation, in particular in the area of interoperability and safety of the railway system, which will require the establishment of an independent investigation and accident authority as well as a national safety authority. Considering the geographic position, the existing and planned new railway lines, Bosnia and Herzegovina has a perspective if it succeeds in carrying out the reconstruction of the railway infrastructure and reorganizing the railway sector in line with the EU regulations.





**CROATIAN CHAMBER OF ECONOMY  
THE SUPPORT YOU NEED WHEN CHOOSING**

# Croatia Your Business Partner

**CROATIAN CHAMBER OF ECONOMY  
HEADQUARTERS**

Rooseveltovej trg 2, HR – 10000 Zagreb  
Tel.: +385 1 4561 555  
E-mail: hgk@hgk.hr

**REPRESENTATIVE OFFICE  
IN THE REPUBLIC OF SERBIA**

Topnički venac 19-21, RS – 11000 Belgrade  
Tel.: +381 11 2028 036  
E-mail: hgkbeograd@hgk.hr

Free info phone: +385 800 1852

You can download our publication here:



English



French



German





### “Railway Projects in Croatia” Conference Held

**October, Zagreb:** Organized by Austrian Foreign Trade Office and Croatian Association of Railway Engineers, conference “Railway Projects in Croatia” was held on 3rd of October 2019.

Conference aimed at networking Croatian and Austrian railway companies, that have ambitions to participate in modernization of Croatian railway system. Fifteen Croatian and Austrian companies presented their products and services, among them **Končar Elektroindustrija, King ICT, Elektrokem, Siemens Mobility, Strabag, Kontron Transportation Austria, Thales, Voestalpine** and others. Before the company presentations, and after the introduction speeches of the representatives of Austrian Trade Office, Croatian Ministry of Sea, Transport and Infrastructure and Association of Railway Engineers, opening presentation were held by the dean of faculty of Transport **Tomislav Mlinarić**, Director of Department of Development, Preparation and Implementation of Investments and EU Funds of Croatian Railways Infrastructure **Mirko Franović** and **Tomislava Prpića** on behalf of the Association of Railway Engineers.

After the conference participants visited the construction site of the project of modernization and electrification of Zaprešić – Zabok railway, where the company representatives were introduced to the way and dynamics of works in the Novi Dvori and Zabok train stations.



(Source: site **HŽ Infrastruktura**)

**Railway  
Gazette**  
INTERNATIONAL

**25%  
OFF**

## Why subscribe to Railway Gazette International magazine?

Get behind the news to understand the deeper trends that are shaping the rail sector. Our editorial breadth is unmatched in the market, giving you the essential insight to inform your business decisions.

### Each month, we bring you:

- **Analysis** – our premium digest of in-depth reporting keeps you on top of policy across the world
- **Technical features** – detailed case studies of the latest innovations in rail technology
- **Regional focus** – an unmatched insight into rail investment around the world
- **Forum** – people news, training and skills initiatives, reader community

**Stay ahead, stay informed.**

**Subscribe today with 25% off**

Subscribe securely online:  
[www.railwaygazette.imbmsubscriptions.com/RGPA19](http://www.railwaygazette.imbmsubscriptions.com/RGPA19)

Call: +44 (0) 1293 312093 and quote RGPA19

Email: [railwaygazette@subscriptionhelpline.co.uk](mailto:railwaygazette@subscriptionhelpline.co.uk) and quote RGPA19





Velika cesta 41,  
10020 Zagreb, Croatia



Tel: +385 1 6011 700  
Fax: +385 1 3666 078



[www.altpro.hr](http://www.altpro.hr)



[altpro@altpro.hr](mailto:altpro@altpro.hr)

Since 1994 **ALTPRO** has innovated, developed and produced signalling and safety equipment for railway vehicles and infrastructure. Dedication to the railway safety has made **ALTPRO** a global company with systems installed on 6 continents and 48 countries of the world.

Visit us at the fair SEE Mobility 2019 to see why we can be the origin of your safety.



Origin of your safety.





## New Projects on Serbian Railways and Construction of Belgrade Metro

**December, Belgrade:** Even though the winter is approaching, new investments and infrastructure works have began at Serbian railways, as well as entering into pre-phase of construction of Belgrade Metro.

Serbian Railways Infrastructure published a public call for tender procedure for construction of new railway line Sobovica-Lužnice-Krak Batočina in Kragujevac, a total length of 16.06 km.

This newly constructed railway corridor will extend from the industrial zone Sobovica-Lužnice to the Lapovo-Kragujevac-Kraljevo railways line, and one of its purposes is to, apart from transport of passengers, and materials for industry and population, enables the transport of trams manufactured in Siemens Mobility d.o.o. Cerovac factory.

Also, works on the construction of new container terminal began in the Belgrade Makis marshalling yard, which will have two new railways lines with a total length of 2.4 km. Value of works is 5.5 mil EUR, and the funds were provided by Serbian Government. Deadline for completion of works is 270 days.

Finally, public company „Belgrade Metro and Train“ opened a public procurement procedure for technical and consulting services on the planned construction of the first two lines of Belgrade metro, with which the project of metro construction will enter preparation phase.

General project, which was prepared by French company Egis Rail, defines two metro lines. Works are divided into three phases. First phase includes writing the documentation for part of line 1, which will be 16.7 km long with 18 stops, between Železnik and Karaburma and the documentation for the depo in Makis.

Company chosen for technical and consulting services will have the task of implementing activities necessary for the creation of technical documentation and oversight in the preparatory phase of construction of Belgrade Metro.





**ESIM**

**RAILWAY DIAGNOSTIC SYSTEM  
SIGNALLING SYSTEM  
ELECTRIC TRACTION**

credit: magstudio | magstudio.it



**SIEMENS**

*Ingenuity for life*



## Siemens Vectron locomotives – future of Mobility in Serbia

Changing the face of railways in Serbia with  
state-of-the-art solutions from Siemens.





## Srbija Voz (Serbian Railways) Purchasing New Trains With EBRD Loan

**November, Belgrade** (source: Serbian Railways): European Bank for Renewal and Development (EBRD) has announced that the Serbian national company for railway passenger transport *Srbija Voz* will purchase up to 18 new trains, using the loan of this bank of 100 million EUR.

New electrical trains will have four cars and will operate on regional railways, providing passengers with an alternative to road transport and will contribute to the reduction in greenhouse emissions, the press release states.

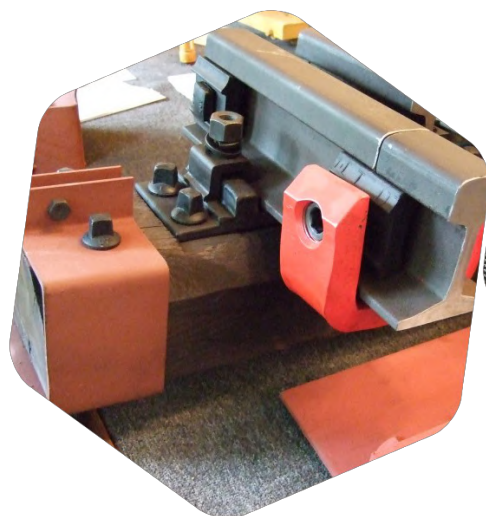
Acting Director General of *Srbija Voz* **Jugoslav Jović** thanked the Government of Serbia and the Ministries of Finance and Construction, Transport and Infrastructure on assistance that enabled *Srbija Voz* to implement another EBRD-financed project. "his project will improve the organization, quality and cost-effectiveness of passenger transport services in regional rail transport, and will enable safer and more comfortable rail transport for passengers" said Jović.

Up to now, EBRD has extended over 1 billion EUR to Serbia for investments in sustainable infrastructure. It is one of the key partners for modernization and development of Serbian railways, through the loans for purchase of new passenger and freight cars, upgrade and expansion of railway depo in Zemun, as well as for improvements in company's IT systems, energy management and ticket sales.



# DIV

## BETONSKI PRAGOVI



**DIV GROUP**

BRODOGRAĐEVNA INDUSTRIJA SPLIT d.d. • DIV BRODOGRADNJA  
DIV • MIN DIV SVRLJIG a.d. • DIV BETONSKI PRAGOVI • DIV-TVIK • TVIK-DIV

[www.divgroup.eu](http://www.divgroup.eu)





## Slovenia

## Conference on the opening of the Amber Corridor

**September, Koper:** Slovenia has an extremely geostrategic position in Europe. Four of the eleven rail freight corridors, which are the backbone of the trans-European transport network, cross the country. On Tuesday 17 and Wednesday 18 September representatives of RFC 11 and Slovenian Railways organized a conference at the Pretorje Palace in Koper when the corridor was opened. It was attended by key representatives of the European Union, representatives of the ministries of the countries crossed by the corridor, carriers and other stakeholders.

European Commissioner and other distinguished guests of the Conference attended the opening of the corridor. European Commissioner for Transport **Violeta Bulc** attended and welcomed the integration of the four countries and the solutions offered by the corridor in the management of rail freight in Europe. In addition to the conference, specific areas were presented by SŽ-Infrastruktura Director **Matjaž Kranjc**, Luka Koper President **Dimitrij Zadel**, State Secretary at the Ministry of Infrastructure **Nina Mauhler**, representatives of the infrastructure managers of neighboring countries, representatives of carriers, and Director of the Amber Corridor **Gerhard Troche** and Head of the Amber Corridor Administration **Andrea Mosóczy**.

The first corridor created at the initiative of the Member States The Amber Corridor is the first to be established in Europe at the initiative of the Member States, **Slovenia, Hungary, Slovakia** and **Poland**. In 2016, the two countries agreed to establish a corridor linking their industrial centers with the port of Koper. The corridor also has good connections to the east, and thus to Belarus, Russia and China, and the arm extending to eastern European countries via the Hungarian Kelebia station to Serbia.



## Montenegro

## AD Montecargo Currently Reconstructing 60 Freight Cars

**October, Podgorica:** Within the Plan of optimisation of rolling stock owned by **Montecargo AD** company a contract with partner company **"Alemani Trade"** from Belgrade was signed that took upon itself the obligation to finance investment maintenance of 60 freight cars of **Eas** series.

"This is the first time in the period of independent functioning of Montecargo AD that investment maintenance is realized through public-private partnership with all the benefits of this procedure

The subject is the repairs of cars that were not exploited for a long period of time due to the expiry date of revision and bad technical state caused also by vandalism and devastations" claims the press release of Montecargo.

"Special quality to the realization of this work is found in the fact that AD Montecargo, and with it the state of Montenegro, as a major shareholder, will have 60 Eas freight cars with no direct investments. Financing of this investment maintenance was taken over by Alemani Trade company, and the contract stipulates that they may use the freight cars owned by AD Montecargo in the next three years, after which they will be returned to Montecargo for further use", the press release says.

In the last year, Montecargo AD invested millions in electro and diesel locomotives, and is planning to continue that investment dynamics in 2020.

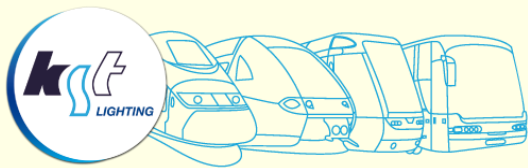


## PHOTO TIME MACHINE:



First generation of Yugoslav gastarbeiters traveling home during Christmas holidays in 1969  
(Photo: picture-alliance /dpa)

## GREETINGS TO NEW RCSEE MEMBER:



KST Lighting, Wandre, Belgium:  
[www.kst-lighting.com/](http://www.kst-lighting.com/)



### Visit of BCRRE Director to RCRRE and Belgrade Faculty of Transport

**Alexander Burrows**, director of **Birmingham Centre for Railway Research and Education – BCRRE** was a guest of RCSEE in Belgrade.

Apart from the discussion on intensifying and expanding the cooperation of our cluster and BCRRE, on November 5<sup>th</sup>, Mr. Burrows was also a guest of Belgrade Faculty of Transport. During his visit, he presented the wide activities of BCRRE and cooperation of this university center with other international universities and private sector. The presentation was held to the professors and students of the Faculty, representatives of our cluster (**Milan Vučković** and **Marko Radović**), and the representatives of Zagreb Faculty of Transport (**Doc. dr. sc. Marjana Petrović**).

After the presentation, Mr. Burrows met with dr Nebojša

Bojović, Dean of Belgrade Faculty of Transport, together with his co-workers and previously mentioned RCSEE representatives.

By the end of the year there concrete steps should be made for the future cooperation between BCRRE and Faculty of Transport through joint cooperation agreement, which will generate important joint projects of experts and students from Birmingham and Belgrade, in cooperation with the private sector in the region with the support of our cluster.

Our dear guest Alex from Birmingham also had an opportunity to get to know the history and culture of Belgrade, and also to attend the football game between Red Star and Tottenham Hotspur in the group phase of Championship League.



Alexander Burrows, BCRRE







# LUKINTEHNIK

Lukintehnik d.o.o.

Indire Gandhi 7, 11010 Belgrade, Serbia

Tel: +381 11 6893 231, Mob: +381 69 620 018

office@ltehnik.com

## Lukintehnik d.o.o. – Representation Office of the world leading companies in the field of railway infrastructure.

The company LUKINTEHNIK is a family company established in 1997. and to this day successfully operates with clients in the territory of Serbia, Montenegro and Bosnia and Herzegovina. The main activity of the company is the representation of the world's leading companies in the field of railway infrastructure, such as PLASSER & THEURER - Austria, GETZNER Werkstoffe GmbH - Austria and ROBEL-Germany. Our services include technical and commercial support to our customers from the selection of new large and small handheld machines, through "after-sales" support in maintaining existing machines and components up to the realization of procurement of spare parts, as well as training of personnel with the help of experienced technicians from the factories of the PLASSER & THEURER and ROBEL in Austria and Germany. In order to reduce vibration, reduce the cost of ongoing machinery maintenance and increase the quality of the superstructure, we are at your service together with the world leader in the field, GETZNER Werkstoffe GmbH. As the Representative Office of the company Getzner since 2013, we have made a significant contribution to the recognition of elastomeric materials and their applications in cases of a coating of the concrete sleepers (as a revolutionary solution), optimising of transition zones (tunnels, bridges, switches) and tram traffic as a significant benefit and essential component of the superstructure. Our team stands for you from the point of estimation and selection of elastomers to the realization and installation of elastomeric materials, as well as on new and existing railway sections.





## RCSEE Most Active Participant at Innorail 2019 in Budapest

**Railway Cluster for Southeast Europe (RCSEE)** was the most active participant of three-day event Innorail 2019 in Budapest, a conference and exhibition held from 12<sup>th</sup> to 14<sup>th</sup> of November 2019.

In the exhibition, RCSEE was represented through a joint booth, largest at the event, where five cluster members from four countries presented themselves: **Altpro** (Croatia), **ELPA** and **CGS Labs** (Slovenia), **Minel GE** (Serbia) and **MV Automation Systems** (Germany) as well as **ERCI**, European Railway Clusters Initiative.

RCSEE representatives and team members **Dragoljub Rajić**, **Milan Vučković**, **Marko Radović** and **Jovan Marković** had an opportunity for many meetings with companies, institutions and universities from throughout Europe, and had an opportunity to present railway sector of Serbia and the region as participants at the conference

itself.

Apart from them, railway sector in Croatia and ongoing projects were presented by **Marjana Petrović** from Zagreb **Faculty of Transport and Traffic Sciences**, also a member of our cluster, at the conference part named “V4+9 Cross-Border Innorail” (supported by the Visegrad fund from Bratislava).

In a terrific atmosphere of mutual support between all actors at the joint RCSEE stand came a high level of cooperation and positive synergy.

Finally, we should remind that RCSEE was one of the “Professional partners” of this event that gathered over 2000 experts and company representatives from all over Europe.

*Photos: RCSEE@ & InnoRail 2019*



Marko Radović, RCSEE



Marjana Petrović, FPZ



Jovan Marković, član RCSEE



8 billion  
passengers each year benefit  
from Thales technologies

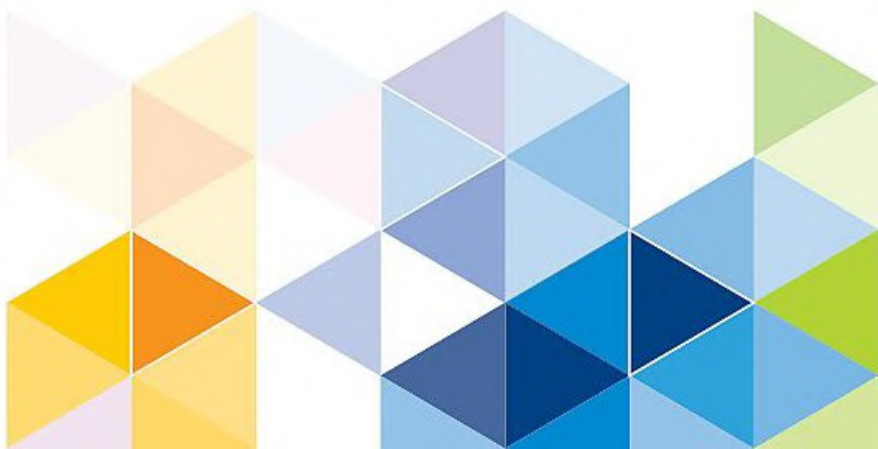


# KONČAR



tradition.  
knowledge.  
responsibility.

[www.koncar.com](http://www.koncar.com)

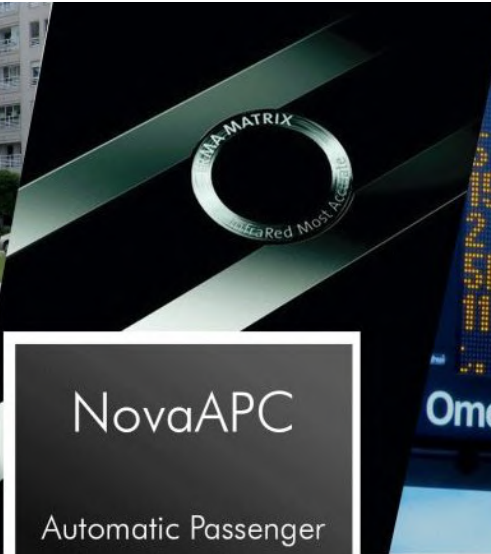






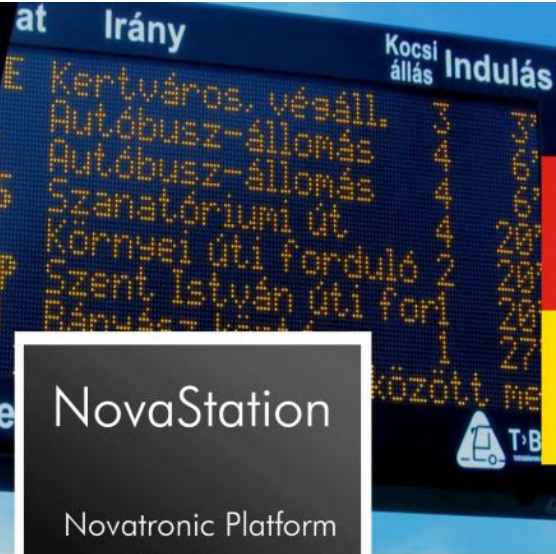
## NovaBus

On-board Passenger  
Information Systems



## NovaAPC

Automatic Passenger  
Counting System



## NovaStation

Novatronic Platform  
Displays

Novatronic provides innovative passenger information solutions for public transport since 1993. Our goal is to provide passengers with reliable real time information, securing easy-going traveling.

Novatronic is highly specialized in production of passenger information systems (for buses, trains and trams), platform displays (train, bus and tram stations) and automatic passenger counting systems.

Our solutions includes LED destination and stationary displays, TFT and LED interior displays as well as control units and Back-Office Software. Novatronic passenger information systems are advanced, reliable, easy-to-install, use and maintain.

