

CONNECTIVITY AGENDA

Co-financing of Investment Projects in the Western Balkans in 2015



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European Commissioner for Neighbourhood Policy and Enlargement Negotiations

Dear Reader,

One year ago, the leaders of the Western Balkans Six (WB6) – Albania, Bosnia and Herzegovina, the former Yugoslav Republic of Macedonia, Kosovo*, Montenegro and Serbia – met in Berlin to bring a new dynamism to regional cooperation. Since then, the European Commission has been working with them on concrete measures that benefit citizens throughout the region.

Building and connecting transport and energy infrastructure is a driver for growth and jobs, and helps attract investments. It creates links and opportunities for businesses and people, as well as contributing to good neighbourly relations in the region. This is why we have put connectivity at the heart of our agenda, to improve links within the Western Balkans and with the EU.

Last April the WB6 agreed on core transport networks in line with EU recommendations. Concerning energy, priority projects were identified based on the work of the energy community to facilitate integration of power systems and to improve and diversify gas supply. This is a major step forward, clearly focusing investment efforts on projects that respond to pressing needs and are also realistic.

But improving transport and energy systems is not just about building roads, railways, power lines or gas pipelines. The WB6 needs to step up efforts to implement accompanying measures to open markets, create a transparent regulatory framework that builds investor confidence, and remove barriers so utilities are managed effectively and efficiently, and consumers get great value for money.

The WB6 are already moving in this direction for both transport and energy and have agreed on a number of measures to improve management of infrastructure, trade facilitation and more open markets. The thinking is equally joined-up: in transport, road-building work will be accompanied by improvements in border crossing procedures; and in energy, the regional power market envisaged is designed to integrate the growing renewable energy generation capacity in the Western Balkans.

All of these measures will help attract the investments needed to build infrastructure in the region, complementing the EU's own contribution. And even more so these investments do ultimately help build bridges between the countries and their people. They are creating new opportunities on cooperation focusing on what unites them rather than what divided them. Working together to address shared challenges the WB6 develop mutual trust which is so much necessary for reconciliation, good neighbourly relations and the prosperity of the region. These are key ingredients for the countries to advance on their path towards EU membership. Our shared connectivity agenda is thus part and parcel of our broader accession strategy.

The European Union has set aside up to \notin 1 billion for connectivity investment projects and technical assistance for the period of 2014-2020. The 10 priority projects identified so far are described in this folder. I am pleased to share with you these examples of our commitment to help drive forward the connectivity agenda.

The Vienna Summit will be a further milestone for the mutual integration of our partners and a further step for them to the EU.

*This designation is without prejudice to positions on status, and is in line with UNSCR 1244/1999 and the ICJ Opinion on the Kosovo declaration of independence.

Connectivity Agenda

Improving connectivity within the Western Balkans, as well as between the Western Balkans and the European Union, is a key factor for growth and jobs and will bring clear benefits for the region's economies and citizens. The Western Balkans Six (WB6) has made the connectivity agenda one of its highest priorities, with a special emphasis on the preparation and financing of concrete regional infrastructure investment projects, but also on the implementation of technical standards and soft measures such as aligning/simplifying border crossing procedures, railway reforms, information systems, road safety and maintenance schemes, unbundling and third party access.

The National Investment Committees (NICs) are responsible for defining and managing the prioritised Single Project Pipelines, and serve as a basis for programming of all available financing sources (including national and other donors). The European Commission will, via the Western Balkans Investment Framework (WBIF), co-finance mature energy projects from the PECIs list (Projects of the Energy Community Interest) and mature transport projects from the TEN-T (Trans-European Transport) Core Network, together with loans from the international financial institutions.

The Western Balkans Investment Framework (WBIF)

The WBIF is a joint blending facility of the European Commission, participating Financial Institutions (FIs), bilateral donors and Western Balkans countries to deliver funding for strategic investment projects in beneficiary countries. Eligible sectors include infrastructure development within the environment, energy, transport and social sectors as well as private sector development.

The WBIF was jointly launched in December 2009 by the European Commission, together with the Council of Europe Development Bank (CEB), the European Bank for Reconstruction and Development (EBRD), the European Investment Bank (EIB) - the partner IFIs, and the bilateral donors. KfW and the World Bank subsequently joined the Framework.

JOINT PARTNERSHIP OF:









Connectivity: creating links and building networks for business and people

WELL-DEVELOPED AND INTERCONNECTED TRANSPORT AND ENERGY INFRASTRUCTURE IS VITAL TO **REGIONAL COOPERATION, ECONOMIC GROWTH AND ATTRACTING NEW INVESTMENT.**





Investment

Political will

Common goal

Æ

Governments must identify credible sector strategies and set up national investment committees that help prioritise strategic and viable investment projects.

Investments are needed for building roads, railways, power lines and gas pipelines. In order to maximise their added value, they must be accompanied by measures such as opening of the markets and a transparent regulatory framework. The Western Balkans Investment Framework helps plan and coordinate the funding required to turn investments into concrete actions.

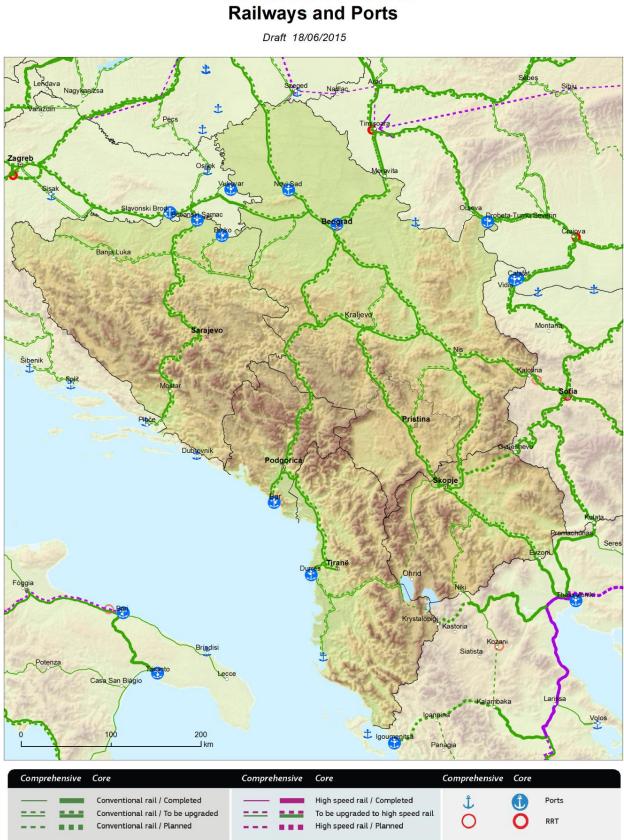
> The connectivity agenda will result in a more cost-efficient movement of goods and services in the Western Balkans, as well as between the region and the European Union. This will increase the region's competitiveness and job creation potential. It will also lead to greater energy security and better neighbourly relations.

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Enlargement Negotiations





Indicative Extension of TEN-T to Western Balkans Core Network Definition Railways and Ports



Inland Waterways / To be upgraded 🔳 🔳 🗧 Inland Waterways / Planned

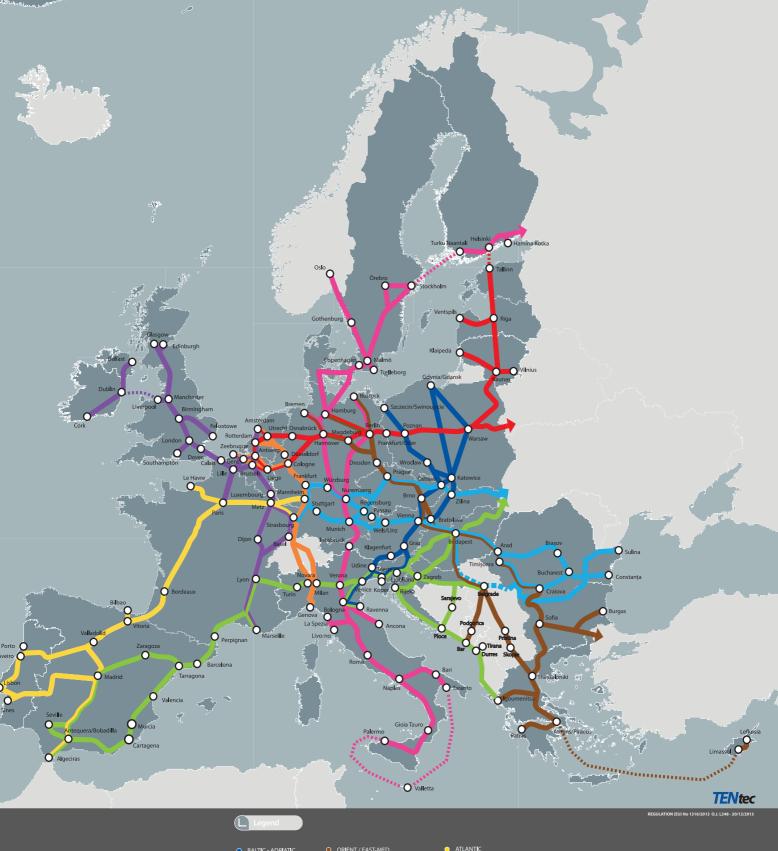
Indicative Extension of TEN-T to Western Balkans

TENtec

TRANS-EUROPEAN TRANSPORT NETWORK Commission

TEN-T CORE NETWORK CORRIDORS

European



- . RHINE ALPINE
- RHINE DANUBE



CORE NETWORK CORRIDORS OF THE TRANS-EUROPEAN TRANSPORT NETWORK (TEN-T)

Indicative Extension of the Core Network Corridors in the Western Balkans

EXTENDING THE TRANS-EUROPEAN TRANSPORT NETWORK (TEN-T)

The vision for Trans-European Transport Networks (TEN-T) reflect that rail, road, air and sea transport links are seen as key drivers not just for closer integration between Member States and their peoples, but also for increasing economic competitiveness.

The TEN-T has two layers: the "core network", which carries the most important passenger and goods flows; and the "comprehensive network", which ensures access to the core network. The "core network corridors" facilitate the development of the core network.

In June 2015, WB6 Transport Ministers met with EU Transport Commissioner, Violeta Bulc, at the TEN-T Days in Riga, and tentatively identified three core network corridors to be extended for the Western Balkans as well as priority projects along sections of these corridors for possible EU funding over the next six years.

Extending the core network corridors to the Western Balkans ensures closer integration with the EU as well as the basis for leveraging investment in infrastructure, such as EU support through the Western Balkans Investment Framework and the Connecting Europe Facility.

The core network corridors, once completed, will provide quality transport services for citizens and businesses, with seamless integration within the region as well as with the EU. The priority projects will help remove bottlenecks, promote interoperability, and build missing cross-border connections.

MEDITERRANEAN CORRIDOR – PRE-IDENTIFIED PROJECTS

Rijeka – Zagreb – Belgrade/Sarajevo – Ploce || Rijeka – Ploce – Bar – Tirana/Dürres – Igoumenitsa

Croatia/Montenegro border – Bar – Montenegro/Albania border – Lezhe – Albania/Greece border	Road	Studies (feasiblity study, detail design, EIA) and works.	
Albania/Montenegro border – Lezhe –Tirana – Albania/Greece border	Road	Studies and works for sections Thumane – Kashar/Vore, Lezhe bypass and Tirana bypass. Studies ongoing, works needed on Tepelena bypass.	
Croatia/Bosnia and Herzegovina border – Sarajevo – Ploce	Road	Works for the following sections: Odžak – Svilaj, border crossing and cross-border bridge Svilaj over Sava River; Odžak – Vukosavlje – Podnovlje – Rudanka – Doboj south; Tarčin-Konjic; Mostar North – Počitelj.	
Bosanski Šamac/Šamac – Sarajevo	Rail	Works for the section Sarajevo – Podlugovi (BA).	
Sarajevo Airport	Airport	Works for increasing operational capacity.	

OTHER SECTIONS ON THE CORE NETWORK - PRE-IDENTIFIED PROJECTS

Croatia/Bosnia and Herzegovina border – Gradiška – Banja Luka – Travnik	Road	Works for border crossing and cross-border bridge Gradiška over Sava River.
Niš – Dimitrovgrad – Serbia/Bulgaria border	Rail	Works for section Prosek – Staničenje – Dimitrovgrad. Studies and works for electrification and upgrading of signalling of section Niš – Dimitrovgrad. Studies for bypass Niš.
Kičevo – Gostivar	Road	Works for construction of motorway.

ORIENT / EAST-MED CORRIDOR – PRE-IDENTIFIED PROJECTS

Budapest – Belgrade – Podgorica – Bar 1	Belgrade – Ni	š – Kumanovo / Pristina – Skopje – Thessaloniki		
Belgrade – Novi Sad – Serbia/Hungary border	Rail	Studies and works for reconstruction and modernization of the existing line and construction of second track from Novi Sad to the border with Hungary.		
Belgrade – Niš	Rail	Studies and works for reconstruction and modernization of existing line and construction of the second track on the section Stalać – Djunis.		
Belgrade node	Road	Works for completion of Belgrade by-pass section Strazevica – Bubanj Potok.		
Niš – Pristina	Road	Studies and works for reconstruction of the road Niš – Pristina.		
Pristina – Kosovo*/the former Yugoslav Republic of Macedonia border	Road	Works for motorway construction.		
Serbia/the former Yugoslav Republic of Macedonia border	Rail	Construction of the joint border station (Tabanovce).		
Beljakovce – the former Yugoslav Republic of Macedonia/Bulgaria border	Rail	Works for section Beljakovce to Kriva Palanka. Studies ongoing, works for construction of section Kriva Palanka border with Bulgaria.		
Rankovce – Kriva Palanka – the former Yugoslav Republic of Macedonia/Bulgaria border	Road	Studies ongoing, works for sections Rankovce – Kriva Palanka. Studies and works for section Kriva Palanka – Deve Bair (bord- with Bulgaria).		
Belgrade – (Vrbnica) – Bar	Rail	Works needed for upgrading of existing line (overhaul of superstructure, tunnels, bridges, signalization) of the section Vrbnica (Serbia/Montenegro border) – Bar (Montenegro)		
Kraljevo – Pristina – Gorce Petrov	Rail	Works for section Fushë Kosovë/Kosovo Polje - Border Statior with the former Yugoslav Republic of Macedonia. Studies and works for section Fushë Kosovë/Kosovo Polje – Leshak.		
Belgrade – Bar	Road	Studies (preliminary design, detail design and EIA) and works for the section Mateševo-Andrijevica. Studies (preliminary design, detail design and EIA) for by-pass Podgorica (Capital – Smokovac – Farmaci).		

RHINE/DANUBE CORRIDOR – PRE-IDENTIFIED PROJECTS

Vukovar – Novi Sad – Belgrade – Drobeta-Turnu Severin/Brčko – Sisak

Sava	IWW	Studies and works for rehabilitation of the Sava River Waterway (Sisak – Brčko – Belgrade).
Sava	IWW	Works for demining of the Sava River right bank from the confluence of Drina River to the confluence of Una River.
Port of Brčko	Riverport	Reconstruction and upgrading of functional facilities in the Port of Brčko.
Danube	IWW	Studies and works for river training and dredging works on critical sectors of the Serbia/Hungary joint stretch.
Danube	IWW	Works for river training and dredging works on 6 critical sectors on the Danube River including supervision and environmental monitoring of works between Bačka Palanka and Belgrade.

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CONNECTIVITY AGENDA

Co-financing of Investment Projects in the Western Balkans in 2015¹

#	Reference	Beneficiary	IFI	Description / Title	Investment € million	Grant € million	Grant in %
IPA	IPA/WBIF 2015 Co-financing					144.9	27%
ENERGY PROJECTS							
1	WBIF CF 1001 ALB ENE	Albania	KfW	Albania – the former Yugoslav Republic of Macedonia Power Interconnection (I): Grid Section in Albania	70	14	20%
2	WBIF CF 1002 MKD ENE	the former Yugoslav Republic of Macedonia	EBRD	Albania – the former Yugoslav Republic of Macedonia Power Interconnection (II): Grid Section in the former Yugoslav Republic of Macedonia	49	12	24%
3	WBIF CF 1015 MNE ENE	Montenegro	KfW	Trans-Balkan Electricity Corridor (I): Grid Section in Montenegro	127	25	20%
4	WBIF CF 1003 SER ENE	Serbia	KfW	Trans-Balkan Electricity Corridor (II): Grid Section in Serbia	28	6.6	24%
TR/	ANSPORT PROJECTS						
5	WBIF CF 1006 BIH TRA	Bosnia and Herzegovina	EIB	Mediterranean Corridor (CVc): Bosnia and Herzegovina – Croatia Road Interconnection	109	22	20%
6	WBIF CF 1009 BIH TRA	Bosnia and Herzegovina ²	EIB	Mediterranean Corridor (R2a): Bosnia and Herzegovina – Croatia Road Interconnection	34.4	6.8	20%
7	WBIF CF 1010 KOS TRA	Kosovo*	EBRD	Orient/East-Med Corridor (R10): the former Yugoslav Republic of Macedonia – Kosovo* – Serbia Rail Interconnection	80.9	38.5	48%
8	WBIF CF 1008 MNE TRA	Montenegro	EIB	Orient/East-Med Corridor (R4): Montenegro – Serbia Rail Interconnection	40	20	50%
IPA 2015 Serbia				78.2	62.5	80%	
9	IPA 2015/038-442	Serbia	n/a	Orient/East-Med Corridor (CX): Serbia – the former Yugoslav Republic of Macedonia Rail Interconnection	62.7	47	75%
10	IPA 2015/038-442	Serbia	n/a	Orient/East-Med Corridor (CX): Intermodal Terminal in Belgrade, Serbia	15.5	13.8	89%
Tota	Total					205.7	33%

¹Subject to a final decision by the budgetary authorities.

²This investment project in Bosnia and Herzegovina is subject to a full assessment by the national investment committee in the beginning of September 2015.

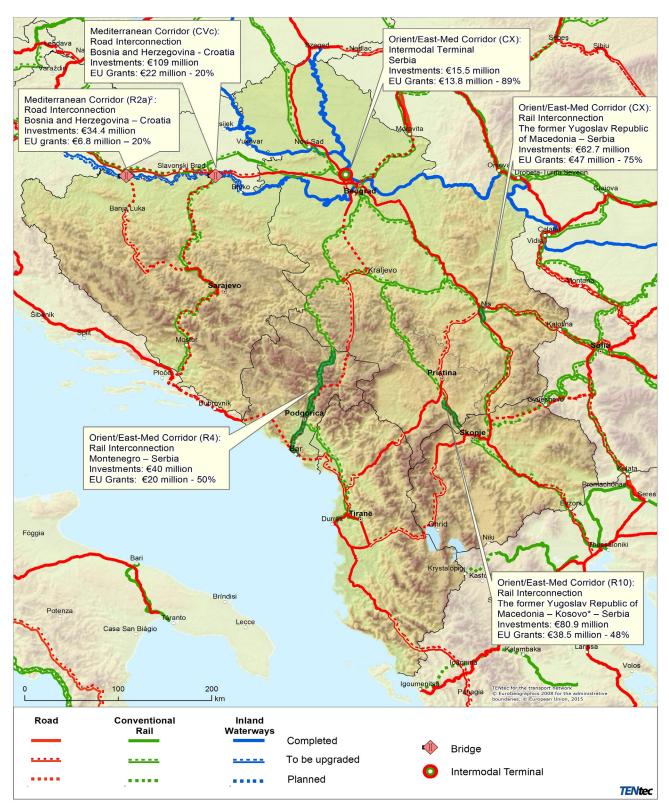
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Regional Core Transport Network

2015 Investment Projects Co-financed through the Instrument for Pre-accession Assistance/ Western Balkans Investment Framework¹



¹Subject to a final decision by the budgetary authorities.

² This investment project in Bosnia and Herzegovina is subject to a full assessment by the national investment committee in the beginning of September 2015. *This designation is without prejudice to positions on status, and is in line with UNSCR 1244/1999 and the ICJ Opinion on the Kosovo Declaration of Independence.





Electricity Infrastructure Projects of Energy Community Interest (PECIs)

2015 Investment Projects Co-financed through the Instrument for Pre-accession Assistance/ Western Balkans Investment Framework¹







Albania – the former Yugoslav Republic of Macedonia Power Interconnection (I): Grid Section in Albania

This project is part of the European Commission's initiative to establish an East – West electricity transmission corridor between Bulgaria, the former Yugoslav Republic of Macedonia, Albania, Montenegro and Italy.

The section between Bulgaria and the former Yugoslav Republic of Macedonia has been completed, and the construction of the submarine cable between Italy and Montenegro is underway. In addition, a new 400 kV connection between Albania and Montenegro is now in operation while an undersea cable between Albania and Italy is in the planning stages.

In Albania a 400 kV transmission system will connect Fier to Elbasan and from there to the border with the former Yugoslav Republic of Macedonia. Two substations will be upgraded as part of the project¹.

Modern substation in Elbasan, Albania.

Results:

- Albanian power transmission system integrated into the European energy market.
- Approximately 130 km of 400 kV overhead transmission line from Fier to the border with the former Yugoslav Republic of Macedonia.
- Fier and Elbasan substations upgraded.



Existing 400 kV transmission lines in Elbasan, Albania.

Partners:

- Transmission System Operator in Albania (OST sh.a.)
- The Ministry of Energy and Industry, Albania
- The Ministry of Finance, Albania

EU contribution:

- €14 million (20% of investment cost)
- €2.53 million (project identification and preparation costs)

Estimated total investment:

• €70 million

Estimated KfW loan:

• €50 million

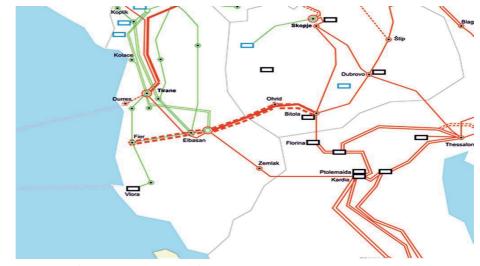
Beneficiary contribution:

• €5 million

Other grants:

• €1 million

¹ Subject to a final decision by the budgetary authorities.



Albania - the former Yugoslav Republic of Macedonia electricity transmission interconnections.

Estimated Start Date:

• First quarter 2017

Estimated End Date:

• June 2020

Estimated Loan Repayment Period:

• 11 years

load and several new generation sources added to the Albanian grid have put a strain on existing transmission systems, leading to frequent interruptions in electricity supply to domestic and industrial consumers alike.

Significant increases in annual power

The existing transmission systems would not be able to cope with the new power generation sources planned for development in southern Albania (e.g. hydropower plants in Devoll, Vjosa, and Osumi river cascades and new gaspowered electricity plants).

The new high voltage supply system will make the power supply system in Southern Albania more reliable and help connect the Albanian power transmission systems to the wider region. At least 800,000 people and numerous industries in the Fier and Berat/Kucova and Elbasan region will benefit from uninterrupted electricity supply.

The European Commission and the European Bank for Reconstruction and Development provided financial assistance for the project identification and preparation phases, as part of the Western Balkans Investment Framework.

The project is now at detailed design stage and the preparation phase is due to be completed in 2016.

No population resettlement will be needed and impact on biodiversity will be minimal since the new facilities will be built on degraded parklands or agricultural land with low productivity.

Benefits

- The investment is expected to generate an additional €314.7 million to Albanian Gross Domestic Product.
- At least 800,000 people and numerous industries in the southern part of Albania will benefit from uninterrupted electricity supply.
- Reduced transmission loses, leading to lower electricity prices for Albanian consumers, industry and investors.
- Secure power supply in Albania by eliminating overloads in the system and so reducing the outages.
- Reduced CO₂ emissions in Albania through increased capacity for production of renewable energy.





Albania – the former Yugoslav Republic of Macedonia Power Interconnection (II): Grid Section in the former Yugoslav Republic of Macedonia

Partners:

 Electricity Transmission System Operator of Macedonia (A.D. MEPSO)

EU contribution:

- €12 million (24%, out of which €9 million investment and €3 million technical assistance costs)
- €1.8 million (project preparation costs)

Estimated total investment:

• €49 million

Estimated EBRD loan:

• €37 million

This project is part of the European Commission's initiative to establish an East - West electricity transmission corridor between Bulgaria, the former Yugoslav Republic of Macedonia. Albania, Montenegro and Italy. The section between Bulgaria and the former Yugoslav Republic of Macedonia has been completed, and the construction of a submarine cable between Italy and Montenegro is underway. In addition, a new 400kV connection between Albania and Montenegro is now in operation while an undersea cable connecting Albania and Italy is also planned for the medium term.

Investments¹ in the former Yugoslav Republic of Macedonia include a 400 kV transmission system from Bitola to Ohrid and from there to the border with Albania. It will thus complete the 400 kV electricity ring between Albania, the former Yugoslav Republic of Macedonia and Greece.



Existing 400 kV lines in the former Yugslav Republic of Macedonia

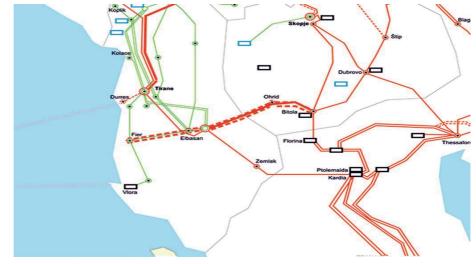
Results:

- Balanced energy market between the former Yugoslav Republic of Macedonia and Albania.
- 95 km of 400 kV overhead transmission line between Bitola and the border with Albania (via the Bitola – Resen – Ohrid – Struga corridor).
- Bitola substation upgraded and new Ohrid substation built and operational.



View of existing 110 and 400 kV transmission lines.

¹ Subject to a final decision by the budgetary authorities.



Albania - the former Yugoslav Republic of Macedonia Power Interconnections.

Estimated Start Date:

• First quarter 2017

Estimated End Date:

• June 2020

Estimated Loan Repayment Period:

12 years

Electricity generation in Albania is predominantly based on hydropower, while approximately 85% of the power generated in the former Yugoslav Republic of Macedonia is from coal. Connecting the two systems will help to balance the two power markets and enable more efficient management of the reserve and emergency capacities in both countries. Moreover, the new transmission line will trigger better and less expensive energy supply to residents and businesses in the former Yugoslav Republic of Macedonia by normalising voltage levels, stabilising load flow and frequency fluctuations, and decreasing technical losses in the overall transmission system.

The new high voltage supply system will thus not only help complete the connection with the wider region but also improve the capacity and reliability of the power supply system in the former Yugoslav Republic of Macedonia.

The European Commission and the European Bank for Reconstruction and Development provided financial assistance for the project identification and preparation phases under the Western Balkans Investment Framework.

The section from Bitola to the border with Albania is now at detailed design stage; the project preparation phase is due to be completed in 2016. Construction will not involve population resettlement and will have a minimal impact on existing biodiversity.

Benefits

- At least 270 jobs created by MEPSO and its contractors for the duration of building works, i.e. a minimum of 36 months.
- Reduced transmission loses leading to lower electricity prices for householders, industry and investors in the former Yugoslav Republic of Macedonia.
- Power supply in both countries secured by eliminating overloads in the existing systems and thus reducing the outages.





Trans-Balkan Electricity Corridor (I): Grid Section in Montenegro

Partners:

- Montenegro Electricity Transmission Company (CGES a.d.)
- Ministry of Finance, Montenegro

EU contribution:

- €25 million (20% of investment cost)
- €3.5 million (project identification and preparation costs)

Estimated total investment:

• €127 million

Estimated KfW loan:

• €25 million

Estimated EBRD loan:

• €60 million

Beneficiary contribution and other grants:

• €17 million

This project contributes to the establishment of a Western Balkans regional electricity market through the creation of a 400 kV transmission corridor between Montenegro, Serbia and Bosnia and Herzegovina. The corridor would be further linked to the European Union via the Italy – Montenegro submarine cable which is due to be completed in 2017.

The investments¹ in Montenegro comprise the construction of a new 400 kV transmission line from Lasta to Pljevlja and then to the border with Serbia, including the construction of a new substation in Lastva, the grid connection from Lastva substation to the existing 400kV Podgorica – Trebinje line, and the upgrade of the 400/220/110 kV substation in Pljevlja. The project include the cost of dismantling the existing 220 kV overhead lines between the substation in Pljevlja and the Montenegro/Serbia border.



3D representation of the new 400/110/35 kV substation in Lastava.

Results:

- Montenegrin power transmission system integrated into the wider European energy market.
- Approximately 165 km long 400 kV overhead transmission line from Lasta to Pljevlja and then to the border with Serbia.
- A new 400kV substation in Lastva and upgraded substation in Pljevlja.



View of existing 400 kV transmission lines along the Trans-Balkan Corridor.

¹ Subject to a final decision by the budgetary authorities.



Existing and planned transmission corridors in Montenegro.

Estimated Start Date:

Last quarter of 2017

Estimated End Date:

• End of 2020

Estimated Loan Repayment Period:

12 years

Energy

The planned investments will reduce CGES's operational and maintenance costs. They will also help normalise voltage levels, stabilise load flows and frequency fluctuations, and decrease technical losses in the overall transmission system. The project will thus improve the quality and security of the electricity supply to Montenegro and the wider region.

The investment in Montenegro will be coordinated with similar projects in Serbia and Bosnia and Herzegovina: construction of new 400kV overhead transmission lines in Serbia and Bosnia and Herzegovina; decommissioning of existing 220kV lines in Serbia; and upgrading of substations in Bajina Bašta (Serbia) and Višegrad (Bosnia and Herzegovina). The entire corridor is expected to be completed by 2023.

The European Commission, together with KfW Development Bank and the European Bank for Reconstruction and Development, provided financial assistance for project identification and preparation, under the Western Balkans Investment Framework.

The feasibility study and preliminary conceptual designs for the Montenegrin project were completed in early 2015. No population resettlement will be required since the new facilities will be built on, or in the vicinity of, existing transmission corridors. Specific mitigation measures have been identified for sections where the new investment may lead to forest fragmentation, with potential knock-on effects on the fauna and flora.

- Social welfare benefits associated with the investment on the Montenegrin part are estimated at €7.5 million in 2018 and €5 million in 2023.
- Reduced transmission losses and additional electricity generators on the grid, leading to lower electricity prices for residents, industry and investors.
- Secure power supply in Montenegro by eliminating overloads in the system and so reducing outages.





Trans-Balkan Electricity Corridor (II): Grid Section in Serbia

Partners:

- Electricity Transmission System Operator in Serbia (JP EMS)
- Ministry of Mining and Energy, Serbia

EU contribution:

 €6.6 million (24%, out of which €5.6 million investment and €1 million technical assistance costs)

Estimated total investment:

• €28 million

Estimated KfW loan:

• €14.27 million

Beneficiary (national) contribution:

• €7.13 million

This project¹ contributes to the establishment of a Trans-Balkan Power Corridor that would connect the electricity transmission systems from Serbia, Montenegro, Bosnia and Herzegovina to Croatia, Hungary, Romania and Italy through either 400 kV overhead lines or submarine cable. A new 400 kV transmission line between Kraljevo and Kragujevac will be built and the substation in Kraljevo will be upgraded to 400 kV. These investments are needed because the existing transmission system is seriously out-dated and thus prone to system failures and high operational and maintenance costs.

The Kragujevac – Kraljevo section is on the list of Projects of Energy Community Interest, being located in one of the Energy Community Treaty Contracting Parties (Western Balkans countries, Moldova, and Ukraine). It will upgrade the electricity distribution system in Central and Western Serbia and interconnect it with systems in the neighbouring EU states.



Low voltage transmission lines on the Kraguevac – Kraljevo route

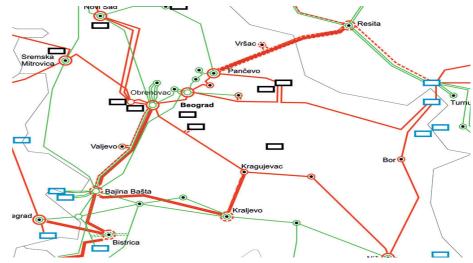
Results:

- Secure and stable electricity supply to Central and Western Serbia and to the wider region by enabling interconnection with other transmission systems in the Western Balkans and the neighbouring EU states.
- Approximately 59.4 km of 400 kV overhead transmission line from Kragujevac to Kraljevo.
- Upgrade of the existing substation in Kraljevo (Kraljevo 3) to 400/220/110 kV.



View of existing 400 kV transmission lines in Kraguevac.

¹ Subject to a final decision by the budgetary authorities.



Existing and planned electricity transmission lines along the Trans-Balkan Corridor in Serbia.

Estimated Start Date:

• First half of 2016

Estimated End Date:

End of 2018

Estimated Loan Repayment Period:

12 years

Energy

This project improves the security of the electricity supply for the one million residents of Zlatiborski, Moravički, Rasinski and Raški districts, who are now connected, via 220 kV lines, to the hydropower plant of Bajina Bašta and the 400/220/110 kV substation in Niš. Moreover, the new transmission line is expected to reduce EMS's network losses by approximately 7,000 MWh/year, equating to annual savings of around €380,000.

Other investments in the Serbian electricity transmission network are being considered to capitalize on or complement the new Kragujevac -Kraljevo section of the planned Trans-Balkan Corridor. These include building 400 kV transmission lines (with ancillary upgrades of substations, if appropriate) from Pančevo to Resita (Romania), from Kraljevo to Bajina Bašta, and from Bajina Bašta to Višegrad and then to the border with Montenegro and undersea to Italy. EMS also plans to build a 400 kV interconnection between Serbia and Hungary.

The feasibility study together with the preliminary designs for the project are now complete. The new development will have a low to moderate social and environmental impact since the new facilities will be built in close proximity to the existing transmission corridors. Statutory planning and land expropriation issues should be resolved by October 2015 and the construction permit granted by the end of 2015. The upgraded substation and overhead transmission line are due to become operational by 2020.

- Secure power supply in Western and Central Serbia for 1.05 million consumers (15% of the total population of Serbia) by eliminating overloads in the existing system and thus reducing outages.
- Reduction of transmission losses by approximately 7,000 MWh/year, i.e. savings of around €380,000/year.
- CO₂ emissions reduced by 5,832 tonnes/year.





Mediterranean Corridor (CVc): Bosnia and Herzegovina – Croatia Road Interconnection

Partners:

- Federal Ministry of Transport and Communications, Bosnia and Herzegovina
- PC Motorways of the Federation of Bosnia and Herzegovina (JP Autoceste FBiH d.o.o.)

EU contribution:

- €22 million (20% of investment cost)
- €2.5 million (project preparation support)

Estimated total investment:

• €109 million

Estimated EIB loan:

• €45 million

Beneficiary contribution and other grants:

• €42 million

The Mediterranean Corridor links the Iberian Peninsula with the Hungarian – Ukrainian border. Its extension into the Western Balkans connects Central Europe, specifically Hungary and eastern Croatia, to Bosnia and Herzegovina and the Adriatic Sea.

The longest section of the Mediterranean Corridor (CVc) runs through Bosnia and Herzegovina – approximately 340 km in total. It consisted largely of two-lane roads until the early 2000s when a major road upgrading programme started on most of its route.

This investment project¹ concerns the construction of a border crossing, a cross-border bridge over the River Sava, as well as 10 km of motorway on the Svilaj – Odžak section that is being built between Bosnia and Herzegovina and Croatia, along the Mediterranean Corridor (CVc).



View of Corridor Vc in the vicinity of Sarajevo, Bosnia and Herzegovina.

Results:

- Modern and efficient border crossing facilities on the Svilaj – Odžak section of the Mediterranean Corridor (CVc).
- 600m cross-border bridge over the River Sava.
- Completion of the Svilaj Odžak motorway section, including the cross-border areas.



Upgraded interchange on Corridor Vc, Bosnia and Herzegovina.

¹ Subject to a final decision by the budgetary authorities.

ransport



Map of Bosnia and Herzegovina - Croatia Section of the Mediterranean Corridor (CVc).

Estimated Start Date:

• Mid 2016

Estimated End Date:

• End of 2017

Estimated Loan Repayment Period:

• 25 years

Fransport

The road network in Bosnia and Herzegovina covers more than 8,000 km, more than 1,000 km of which are European routes. Most of this network has been designed to accommodate a two-way single carriageway with a maximum speed of 80kph. Traffic lane width varied from 3.50 to 3.75m, and road shoulders from 0.5 to 1m wide. As average daily traffic volumes grew to with 9.700 vehicles. over а corresponding increase in freight volumes, Bosnia and Herzegovina embarked on a motorway construction programme in cooperation with its neighbours. It has been actively supported by the European Union and its partners, particularly under the Western Balkans Investment Framework.

The Svilaj - Odžak section is part of the motorway designed and partially built by Bosnia and Herzegovina along the Mediterranean Corridor (CVc) to Croatia. The route will accommodate 2x2 traffic lanes and speeds of 120kph. Construction works are ongoing for this section. The new bridge over the Sava and the border crossing facilities funded under this project will allow even increased traffic volumes to flow Relving smoothly. on existing infrastructure would undoubtedly have resulted in serious bottlenecks.

The funding granted to Bosnia and Herzegovina will be complemented and coordinated with EU financing allocated to the Croatian part of the project under Regional Funds.

- Secure and efficient transport by road for an annual average daily traffic gradually increased to more than 9,799 vehicles per day.
- 2x2 traffic lanes and speeds of 120kph replacing single carriageways limited to of 80kph.
- Future border crossing delays avoided by the new bridge over the River Sava and modern border crossing facilities.
- Passenger and freight carrying capacity significantly improved, with reduced travel time.
- Lower operational and maintenance costs for motorway operators and users.
- The investment will facilitate trade, regional integration and sustainable growth and thus have a positive impact on the broader economy of Bosnia and Herzegovina.





Mediterranean Corridor (R2a): Bosnia and Herzegovina – Croatia Interconnection¹

Partners:

- Ministry of Transport and Communications of Republika Srpska, Bosnia and Herzegovina
- Motorways Company of the Republic of Srpska (JP Autoputevi Republike Srpske)

EU contribution:

- €6.8 million (20% of investment cost)
- €0.6 million (project preparation and institutional support)

Estimated total investment:

- €34.4 million
- €34.4 million

Estimated EIB loan:

 €10.8 million (out of an existing €65 million loan)

Beneficiary contribution and other grants:

• €16.8 million



The extension of the Mediterranean Corridor into the Western Balkans along Route 2a (R2a) spans 239 km, from Okučani in Croatia to Banja Luka and Lašva in Bosnia and Herzegovina. It connects Bosnia and Herzegovina (the Republic of Srpska) to the main transport routes in Croatia leading to the Adriatic ports.

The Mediterranean Corridor (R2a) integrates the Western Balkans into the transport flows which link the Iberian Peninsula to the Hungarian – Ukrainian border. Consequently, it accounts for most of the freight and passenger traffic in the Republic of Srpska, Bosnia and Herzegovina.

The present investment project² concerns the construction of a border crossing, a cross-border bridge over the River Sava, as well as motorway connections on the Banja Luka – Gradiška section.



View of Banja Luka – Gradiska motorway, Bosnia and Herzegovina.

Results:

- Completion of the Banja Luka Gradiška motorway section, including the cross-border areas.
- Modern and efficient border crossing facilities on the Banja Luka – Gradiška section of the Mediterranean Corridor (R2a).
- Cross-border bridge in Gradiška.



Upgraded interchange in Mahovljanska, Bosnia and Herzegovina.

¹ This investment project in Bosnia and Herzegovina is subject to a full assessment by the national investment committee in the beginning of September 2015.

² Subject to a final decision by the budgetary authorities.



Map of Bosnia and Herzegovina - Croatia Section of Route 2a, with Gradiška Bridge.

Estimated Start Date:

First quarter of 2017

Estimated End Date:

• End of 2018

Estimated Loan Repayment Period:

17 years

Fransport

Mediterranean Corridor (R2a) currently runs through the urban area of Gradiška for approximately 2km, with the existing 260m two-way bridge over the Sava leading to a small car park in the centre of the town. On the Croatian side the bridge carries traffic to a much larger parking and clearance area located to the east of the much smaller town of Stara Gradiška.

The new bridge will be built about 3 km to the west of the existing bridge and outside the urban area of Gradiška. It has been designed to accommodate a significant increase in overall traffic, projected to rise from 12,000 vehicles per day today to about 28,450 in 2024.

The new border crossing facilities will ease social and environmental pressures on Gradiška, by diverting traffic outside the city centre. It will also trigger reductions in journey times and vehicle operating costs.

Building the new bridge is expected to reduce border crossing times from 5 to 2 minutes for cars and from 30 to 12 minutes for trucks. It will adequately accommodate the traffic generated by the commissioning of a new motorway on this route in November 2011.

The overall costs of this project includes half of the shorter version of the bridge ($\in 10$ million), border crossing facilities ($\in 16$ million), as well motorway connections ($\in 8.4$ million).

Financing arrangements include €10.8 million from an overall €65 million EIB loan already in place for this motorway.

Estimates suggest economic benefits to the economies of Bosnia and Herzegovina and Croatia could reach €79 million by 2024.

The funding granted to Bosnia and Herzegovina will be complemented and coordinated with EU financing allocated to the Croatian part of the project under Regional Funds.

- Safe and efficient road transport for more than 2,400 vehicles/day.
- Passenger and freight carrying capacity significantly improved, along with reduced travel time.
- Faster border crossing for cars and trucks between Bosnia and Herzegovina and Croatia.
- Lower operational and maintenance costs for motorway users and operators.
- The investment is designed to facilitate trade, regional integration and sustainable growth and thus have a positive impact on the broader economy of Bosnia and Herzegovina.





Orient/East-Med Corridor (R10): the former Yugoslav Republic of Macedonia – Kosovo* – Serbia Rail Interconnection

Partners:

- Kosovo Railways JSC (InfraKos Sh. A.)
- Ministry of
 Infrastructure and the
 Ministry of Finance,
 Kosovo

EU contribution:

- €38.5 million (48% of investment cost)
- €7.54 million (project preparation and implementation support)

Estimated total investment:

• €80.9 million

Estimated EBRD loan:

• €19.2 million

Estimated EIB loan:

• €19.2 million

The Orient/East-Med Corridor (R10) crosses Kosovo from the north to the south, from the border with the former Yugoslav Republic of Macedonia to the one with Serbia, and constitutes Kosovo's sole connection to the wider region by rail. The entire track is in poor condition, with serious structural limitations that do not allow for traffic in excess of 60km/h and in some areas 20 km/h.

This route is part of the Core Network Corridors of the Trans-European Transport network (TEN-T) extension into the Western Balkans and South East Europe Transport Observatory (SEETO)'s Comprehensive Network. It is thus part of the long-term sustainable development plans of the European Union and its partners.

This investment project¹ will enable outdated switches, tracks and trackbed, culverts, bridges and tunnels along the Fushë Kosovë / Kosovo Polje – border with the former Yugoslav Republic of Macedonia route to be replaced or renovated.



Freight transport on Route 10.

Results:

- Railway network in Kosovo integrated into the Orient/East-Med Corridor, connecting the Western Balkans to Austria, Greece and Bulgaria.
- Railway transport systems in Kosovo interconnected to those in the former Yugoslav Republic of Macedonia and Serbia.
- Approximately 64 km of railway track fully rehabilitated.



Passenger transport on Railway Route 10, close to Fushë Kosovë / Kosovo Polje.

¹ Subject to a final decision by the budgetary authorities.

ransport

*This designation is without prejudice to positions on status, and is in line with UNSCR 1244/1999 and the ICJ Opinion on the Kosovo Declaration of Independence.



Map of the Orient/East-Med Corridor (R10).

EBRD grant:

€0.8 million (project implementation support)

Estimated Start Date:

• Last quarter 2015

Estimated End Date:

• End of 2017

Estimated Loan Repayment Period:

20 years

Fransport

The Orient/East-Med Corridor (R10) is 256 km long, out of which 148 km are in Kosovo. It connects Kraljevo (Serbia) to Pristina (Kosovo) and Gorce Petrov (the former Yugoslav Republic of Macedonia). The first railway tracks were built in 1936 and the route was regularly maintained until the 1990s. No major investment has been made since then.

The rail connection with Serbia is no longer in operation (Fushë Kosovë/Kosovo Polje – Podujevë/ Podujevo) since the Merdare tunnel, on the border, was demolished in the 1990s, cutting cargo and passenger links from Pristina to Belgrade.

The route will be renovated in three phases:

- Fushë Kosovë/Kosovo Poljeborder with the former Yugoslav Republic of Macedonia
- Fushë Kosovë/Kosovo Polje Mitrovicë/Mitrovica
- Mitrovicë/Mitrovica border with Serbia.

All three sections are due to be completed by 2020.

This investment project concerns phase 1 only. With connections to the Orient/East-Med Corridor, passenger numbers on this railway route in Kosovo could reach one million and freight 206.8 million tonnes/year by 2040. This project will give rise to an interoperable railway route in Kosovo providing safe transport services to people and businesses in the region and wider Europe.

The feasibility study and preliminary designs for the project have been completed. The new development will significant not have social or environmental impacts as the new facilities will be built on the route of the existing rail track. Detailed designs are being prepared and are due to be completed in the first quarter of 2016. Construction could start in the last quarter of 2016 and be finalised by the end of 2020.

- Secure and efficient rail transport for approximately 50% of the population of Kosovo.
- An investment of €80.9 million that is expected to bring at least double that amount into the local economy in the medium to long term.
- Passenger and cargo rail capacity and travel time significantly improved.
- Reduced CO2 emissions.





Orient/East-Med Corridor (R4): Montenegro – Serbia Rail Interconnection

Partners:

- Railway Infrastructure of Montenegro (ŽICG AD)
- Ministry of Transport and Maritime Affairs, Montenegro

EU contribution:

- €20 million (50% of investment cost)
- €1 million (project preparation support)

Estimated total investment:

• €40 million

Estimated EIB loan:

• €20 million

The extension of the Orient/East-Med Corridor into the Western Balkans along Route 4 is approximately 580 km long and runs from Vršac (Serbia – Romania border) to Belgrade (Serbia) and then to Podgorica and Bar (Montenegro). Bar – Vrbnica (the latter at the Montenegro – Serbia border) is the most important section of the Montenegrin rail network, carrying about 20% of all passengers and about 60% of cargo. Rail as a whole is an important part of the Montenegrin economy, accounting for almost 60% of all freight and 10% of passenger travel.

The Bar – Vrbnica route opened to traffic in 1976 and since then there has been no major overhaul of the signalling systems, nor of the 91 concrete bridges located on the route.

With this investment project¹, signalling systems covering approximately 9 km of line will be replaced in Podgorica, and about 5.3 km of bridges on the Vrbnica – Bar section will be renovated.



View of the longest bridge on the Podgorica – Bar railway line, on Mala Rijeka. **Results:**

- 167 km of electrified railway track between the port of Bar and the Serbian border at Vrbnica become fully functional.
- Modern signalling on approximately 9 km of railway line and 5.5 km of renovated bridges.
- Completion of a multimodal maritime-rail transport route from the port of Bar to the wider Western Balkans region.



Old and new passenger fleet in Podgorica Station, commuting between Belgrade and the Port of Bar.

¹ Subject to a final decision by the budgetary authorities.

ransport



Map of Bar - Vrbnica route, Montenegro.

Estimated Start Date:

Last quarter of 2015

Estimated End Date:

• End of 2017

Estimated Loan Repayment Period:

15 years

Fransport

The Bar – Vrbnica railway line was constructed as part of the railway corridor to Belgrade and opened to traffic more than 40 years ago. The original design speed was 75-100 km/hour and the design axle load was for 22.5 tonnes.

The overhead electrical supply system was installed in 1976 and the original capacity of the line was about 80 trains per direction per day on the Podgorica – Bar line. Today, there are only 68 trains on the Podgorica – Bar line, and both speeds and cargo loads have declined.

Structural weaknesses and poor signalling have led to speed restrictions being introduced on about two thirds of the line, reducing capacity significantly compared to when it was first built.

The line also poses important safety risks: a total of 210 emergencies were recorded in the period January 2008 to December 2012. Moreover, faulty signals reduce the reliability of the system and caused about 250 hours of lost operation in 2012.

As part of a separate, but complementary, investment due to be implemented between 2015 and 2019, signalling will be replaced on around 11 km of line in Bar.

The Government of Montenegro has budgeted for further modernization

works on the railway track for the 2014 – 2020 period.

Detailed designs for the signalling system in Podgorica have now been prepared. Additional EU assistance is being provided for designing structural improvements to the bridges, for any additional studies required and for tendering the works.

- Enhanced security and efficiency of rail transport for around 750,000 passengers using the Bar – Vrbnica railway route on an annual basis.
- Passenger and cargo rail carrying capacity considerably increased, and travel times reduced.
- Lower operational and maintenance costs for the railway operators, giving better services to passengers and cargo operators alike.
- The investment will facilitate regional trade and integration and thus have a positive impact on the economy in the region.
- CO₂ emissions will be reduced.





Orient/East-Med Corridor (CX): Serbia – the former Yugoslav Republic of Macedonia Rail Interconnection

The Orient/East-Med Corridor (CX) runs between Salzburg in Austria and Thessaloniki in Greece. On its main course, it branches out to Slovenia, Croatia, Serbia, and the former Yugoslav Republic of Macedonia. Conditions of the railway tracks on this corridor vary, but large sections of the route can accommodate maximum travel speeds of only 60 km/h.

Serbia's rail network comprises 3,819 km of track. Its backbone is located along the Orient/East-Med Corridor and includes the Šid – Belgrade – Niš – Preševo route into the former Yugoslav Republic of Macedonia.

With this investment project¹ 23.4 km of railway track will be fully renovated, from Niš to Brestovac, towards Preševo, including signalling and telecommunication systems. The upgrade will enable travel speed and axle load to be increased to 120 km/h and 225 KN respectively.



Passenger train on the Brestovac - Niš railway route.

Results:

- 23.4 km of railway track from Niš to Brestovac upgraded to modern standards.
- Increase in passenger and freight travel speed from 60 km/h to 120 km/h throughout the Niš – Brestovac railway section.



Railway station in Niš, Serbia.

Partners:

- Ministry of Construction, Transport and Infrastructure, Serbia
- JSC Serbian Railways
 Infrastructure
 (Železnice Srbije
 Akcionarsko Društvo)
- Central Finance and Contracting Unit (CFCU) - Ministry of Finance, Serbia

EU contribution:

- €47 million (75% of investment cost)
- €1.5 million (project preparation support)

Estimated total investment:

• €62.7 million

Beneficiary contribution:

• €15.7 million

¹ Subject to a final decision by the budgetary authorities.

ransport



Map of Niš - Skopje Rail Interconnection.

Estimated Start Date:

• End of 2016

Estimated End Date:

• End of 2019

Transport

The Orient/East-Med Corridor (CX) routes in Serbia account for 872 km of track in total, which is 23% of the entire Serbian railway network. Train speed exceeds 100 km/h on only 3.2% of the track and on roughly 50% of lines speeds are limited to 60 km/h.

The Niš – Brestovac section is part of the 151 km long single-track Niš – Preševo railway line, which connects Serbia to the former Yugoslav Republic of Macedonia, and further to Greece, along the Orient/East-Med Corridor (CX). The line was built in the period 1886 – 1888 and has been regularly maintained since then, albeit to a lesser extent in the 1990s. It has not been subject to any complete overhaul until the 2000s.

Moreover, the signalling and train control system on this section has been in use for more than 50 years which jeopardises transport safety and slows travel speeds.

The bulk of inland freight in Serbia is transported by rail, similar to Montenegro but unlike most of the other Western Balkans states or EU-28. In 2013/2014 alone, an average of 3,000 million tonne-km was accounted for by rail, while inland waterways represented 700 million tonne-km and road 2.800 million tonne-km. Renovating the railway network in Serbia is thus essential to support and boost the national economy, allowing

people, goods and capital to move more freely in the region.

- Domestic and international train travels to increase by 57% by 2020.
- Increased economic growth as most inland freight in Serbia is transported by rail.
- Safe and secure rail transport for both freight and passengers.
- Modern signalling and train control systems in accordance with EU standards.
- Shorter travel times.
- Reduced operational and maintenance costs for railway operators.
- Improved trade flows with countries in the region and thus a positive impact on the broader economy of Serbia.





Orient/East-Med Corridor (CX): Intermodal Terminal in Belgrade, Serbia

Partners:

- Ministry of Construction, Transport and Infrastructure, Serbia
- Central Finance and Contracting Unit (CFCU) - Ministry of Finance, Serbia
- City of Belgrade

EU contribution:

- €13.8 million (89% of investment cost)
- €2 million (project preparation support)

Estimated total

- investment:
- €15.5 million

Beneficiary contribution:

• €1.7 million

The bulk of inland freight in Serbia is transported by rail, with the Serbian railway network catering to most domestic and international freight operators active in the region. Rail freight accounted for about 3,000 million tonne-km, compared to 2,800 million tonne-km by road and 700 million tonne-km on inland waterways, according to recent statistical data.

Located at the crossroads of important international transport corridors, Serbia sought to improve freight efficiencies and capacities by creating intermodal transport facilities. The present investment project¹ involves the construction of an intermodal terminal in Batajnica, Belgrade, with rail access, road access, storage area for intermodal transport units, buildings for the terminal operator and customs authority, and parking places for road freight vehicles.



Passenger train stationed in Batajnica Station.

Results:

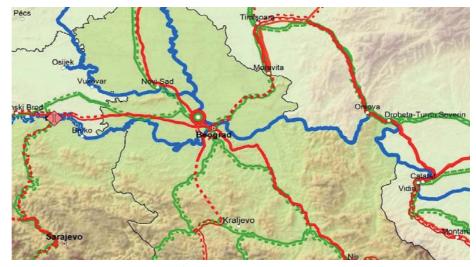
- A modern intermodal terminal in Batajnica, Belgrade, on the Orient/East-Med Corridor (CX) and at the crossroads of major international freight routes.
- Increase in intermodal unit transhipment capacities in Serbia from 27,000 TEU to 107,000 TEU per year.



View of Orient/East-Med Corridor (CX) from Batajnica, Belgrade.

ransport

¹ Subject to a final decision by the budgetary authorities.



Map of project location, in the context of major transport corridors.

Estimated Start Date:

• First quarter of 2016

Estimated End Date:

• End of 2019

Transport

There are three partly developed intermodal terminals in Serbia: one terminal near the central railway station in Belgrade (the ZIT /Railway Integral Transport), with a capacity of 10,000 TEU/year; a second terminal in the port of Belgrade, 12,000 TEU/year; and a third one in the port of Pančevo, for up to 5,000 TEU/year. There are no rolling road terminals or terminals for the transhipment of freight from and to large vessels (Ro-Ro) in Serbia. However, some facilities are in place in ZIT and in the ports in Novi Sad, Belgrade, Pančevo and Prahovo which would allow for Ro-Ro transhipment.

The new terminal in Batajnica will be located in the main industrial/service area of Belgrade, at the crossroads of major international combined transport routes: CE 70 Šid – Beograd – Niš Dimitrovgrad; CE 79 Beograd – Bar (Ancona/Bari) and CE 85 Subotica – Beograd – Niš – Preševo. The existing railway lines going through Batajnica are an integral part of the Orient/East-Med Corridor (CX).

The terminal will be able to accommodate 80,000 TEU/year, with the possibility of adding capacity if needed. A new public body will be set up to operate the terminal. The European Union will also support institutional capacity building of the operator through specific assistance under a separate action. The planned investment in Batajnica is complemented by other EU-funded actions aiming to improve connectivity in the region along core network corridors of the Trans-European Transport network.

- Freight capacities significantly increased (by 80,000 TEU/year) as well as efficiency in travel times along the Orient/East-Med Corridor (CX).
- The investment will facilitate domestic and international freight trade, regional integration and sustainable growth and thus have a positive impact on the broader economy of Serbia.
- Reduction of CO₂ emissions by enabling modes of transport with lower fossil fuel consumption.

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