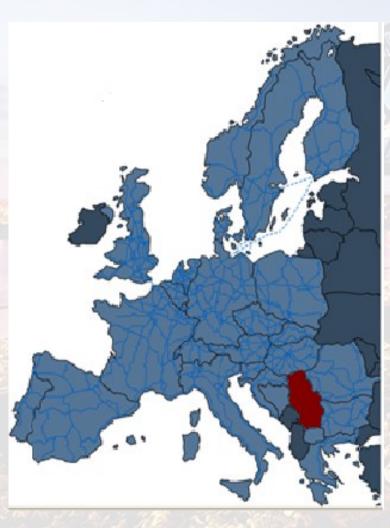


"SERBIN RAILWAYS" jsc

2013, April







INFRASTRUCTURE

>3809 km of railway

network >3162 km in service

- > 283 km double track lines 7.5 % of network
- > 1286 km electrified 33% of network
- > 875 km of lines along Corridor X
- Maximum designed speed 120 km/h
- ▶ 690 stations/stops, 334 tunnels, 981 bridges,

2136 level crossings

- 9.47 million tons of goods transported in 2012
- ► 16.63 million of passengers transported in 2012





SCOPE OF ACTIVITIES OF JSC "Serbian Railways"

1985 -2011 PASSENGER SERVICE VOLUME

in national and international traffic in thousands







SCOPE OF ACTIVITIES OF JSC "Serbian Railways"

1985 -2011

FREIGHT SERVICE VOLUME

in national and international traffic in thousand of tons







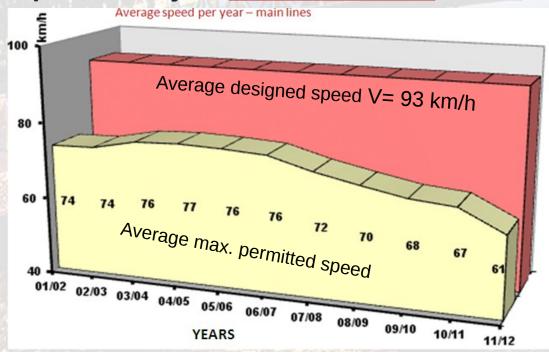
There is an increasing difference between:

Average designed speed

and

Real average maximum permitted speed

In 2012, prescribed average speeds on main lines of "Serbian Railways"JSC have been 66% out of average designed speeds i.e. they are <u>NEARLY 1/3 LOWER</u>.



ESTIMATION

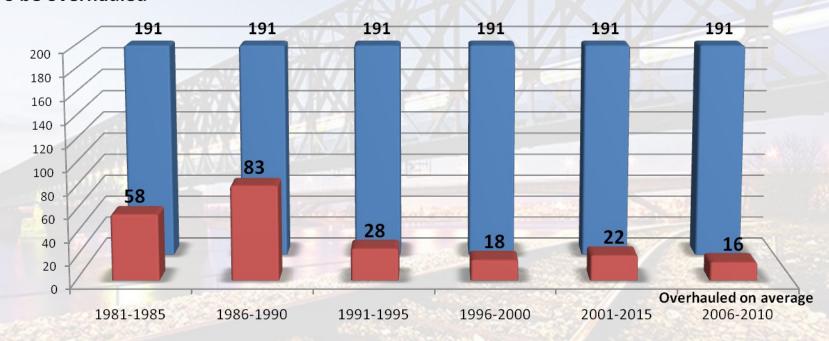
Rehabilitation of weak spots on the network of JSC "Serbian Railways" requires approx. 350 million €





OVERHAUL OF LINES: 1981 - 2010

To be overhauled



- 191 km is required to undergo a general repair
- 38 km or 20% were overhauled on average from 1981 to 2010

While 11% out of the required lines were totally overhauled in

- We plan to enter this cycle in the following 5 years





General Master Plan (TMP) in Serbia

Lists of the projects in MP resulted from the analysis of the current condition and envisaged development.

MINIMUM INVESTMENT SCENARIO comprises the existing network and projects underway or the ones whereof implementation has been decided upon.

DEVELOPMENT SCENARIO includes all identified development projects along with the forecasts for future traffic along the network.

Minimum Scenario Costs (2009-2027)

Transport mode	Investmen t	Maintena nce	Total costs million €	
Railways	112	212 8	2240	
Roads	336	4600	4936	
Airports	66	250	316	
Waterways	9	43	52	
Intermodal	17	9	26	
TOTAL	540	7030	7570	

Development Scenario Costs (2009-2027)

Transport mode	Investme nt	Maintenanc e	Total costs million €	
Railways	5100	234	7446	
Roads	8707	6 5044	13751	
Airports	105	270	376	
Waterways	349	126	475	
Intermodal	88	48	136	
TOTAL	14349	7833	22183	

The data clearly indicate that MAINTENANCE OF RAILWAY INFRASTRUCTURE

SHOULD BE PRIORITY, whereas the modernisation will depend on the decision of the State and its orientation towards the investment in railways in the period 2009 - 2027





Modernisation of railway lines of "Serbian Railways"JSC

First stage

1. Stara Pazova -Novi Sad

Double track line Length **45 km**

Budget - 340 mil €

2. Stalać - Dunis

Double track line

Length 18 km

Budget - 105 mil €

3. Niš - Dimitrovgrad

Reconstruction and electrification

Length 106 km

Budget - 120 mil €

4. Niš -Preševo

Major overhaul with upgrading

of certain sections

Length 166 km

Budget - 270 mil €

5. Beograd Centar - Pančevo

Double track line

Length 16 km

Budget - 55 mil €

6. Pančevo - Vršac

Modernization and electrification

Length 80 km

Budget - 50 mil €

7. Resnik - Vrbnica

Major overhaul

Length 285 km

Budget - 250 mil €

8. Valjevo - Loznica

Construction of the new line

Length 68 km

Budget - 259 mil €

Second stage

1. Novi Sad - Subotica

Reconstruction of the existing and construction of the second track

Length 110 km

Budget – 360 mil €

2. Resnik - Velika Plana

Construction of new double track line

Length 76 km

Budget - 370 mil €

Total budget:

I stage.....1 233 mil € II stage......730 mil



Σ 1 963







This is our choice

The result of the first and second stage implementation:

- 1)Elimination of "weak spots" and general upgrading of technical characteristics of the lines. Setting the conditions for providing quality service.
- 2)Construction of 154.5 km of new lines. New length of the lines in operation- 3316.5 km.
- 3)Construction of the second track on the existing lines in the length of 257.5 km TOTALLY 540.5 km i.e. 16% of lines in operation
- 4) Electrification of 254 km i.e. totally 46 % of network in operation.
- 5) By gradual usage of materials obtained by overhaul regional lines would be maintained.





The establishment of THE SYSTEM FOR THE ANALYSIS OF TRACK CONDITION IN SERBIA- Railway Management System (RMS)

Source of finance: Donation of the EU Delegation to the Republic of Serbia amounting EUR 3,000,000

Contractor: "Italferr", Rome, as selected by the donator

Deadline for works completion: October 2013

OBJECTIVE:

Establishment of a completely computerised maintenance and contruction of railway infrastructure management system.

The implementation of this system will:

- enable quick recording and marking of railway infrastruc
- quick and efficient control over civil engineering works
- give assistance in line maintenance and reconstruction
- reduce costs relating to maintenance a
- facilitate future investment projects





CONSTRUCTION OF THE BRIDGE over the Danube River in Novi Sad at the site of the demolished "Žeželj Bridge"

Source of finance: EU - IPA fund EUR 26.2 mil. and the Republic of Serbia EUR 19.1 mil.

PROJECT VALUE: EUR 45.3 million.

Commencement of Works: April 2012

Deadline for Works Completion: November 2013

The bridge will be 450 m long, 31 m wide with 2 carriage ways, 2railway tracks and 2 sidewalks







RAILWAY REHABILITATION PROJECT II

Source of Finance: European Investment Bank EIB

Reconstruction and modernisation of the Gilje - Ćuprija - Paraćin

section of the Belgrade -Niš Railway Line

Construction of the double-track bridge over the Velika Morava River

– span is 322 meters

TOTAL VALUE OF WORKS 8.9 mil. €

Deadline for completion of works by the end of 2013

Construction of the new double track line in the length of 10.5 km.

Civil engineering part: 16.162.200 €, The contract is signed, work in progress

Electrical & technical part: 6.500.000 € Tender is und

TOTAL VALUE OF WORKS 45 mil. €.

Deadline for completion of works: 2014



CORRIDOR X- EBRD IV

Source of Finance:

European Bank for Reconstruction and Development EBRD

ender is underway – tender opening on 08.10.2012

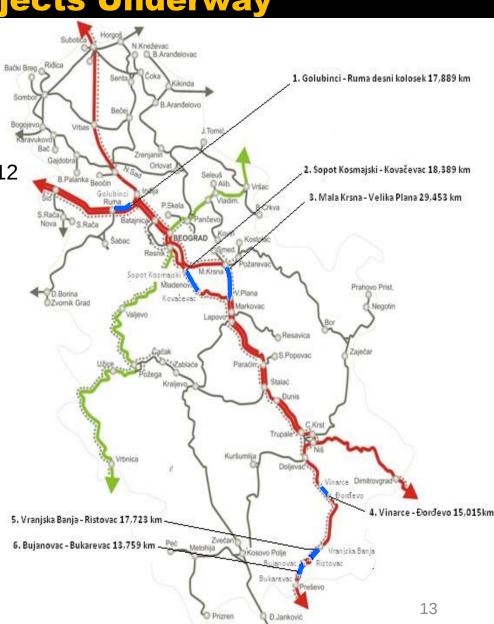
1. Procurement of material for reconstruction of 6 sections of Corridor X the length of approx 112 km

TOTAL VALUE 30 mil. €

Deadline for works completion: 2014

2. Procurement of track maintenance machines TOTAL VALUE 5 mil. €.







EHABILITATION OF LINES – EBRD V –Contract signed on January 2012

Purce of Finance: European Bank for Reconstruction and Development Reconstruction and modernization of section Beograd-Resnik

Procurement of material and executing of works

oan Vators 95 Little 27 €nil. €

2. Rehabilitation of civil engineering and electrical & technical Tender issuing 2013. Infrastructure on Corridor X

- 2.1 Station Mala Krsna
- 2.2 Lapovo- Bagrdan left and right track
- 2.3 Paraćin Ćićevac right track
- 2.4 Ćićevac Stalać left track

Procurement of material and executing of works

TOTAL VALUE 21 mil. €

3. Rehabilitation of electrical & technical facilities on Corridor X

Procurement of material

TOTAL VALUE 20 mil. €

4. Procurement of machines for maintenance of civil engineering and electrical & technical infrastructure

TOTAL VALUE (8+4) 12 mil. €



Railway station BEOGRAD CENTAR

hase 1 construction of infrastructure for train movement acceptance, dispatching and control

ource of Finance: Kuwait Fund for Arab Economic Development



Dinars (a





Construction of Telecommunications Infrastructure on ŽS network

TOTAL VALUE: 24 mil. €

The plan is to install the fiber-optic cables along the regional and main lines in the total length of 2 013 km in 3 phases.

Contract for phase 1 was signed in January 2011

Phase 1: 444 kilometers Belgrade Railway Node

Belgrade - Niš 230 km

Belgrade - Šid 101 km

ESTIMATED VALUE OF WORKS 5.33 mil. €.





ROLLING STOCK Projects Underway

1. Procurement of 12 DMUs

- Source of finance: **Eurofim**a
- Budget 43 million CHF
- All 12 DMUs have been delivered by company Metrovagonmash from Russia

2. Procurement of 21 EMUs

- Source of finance **EBRD III**
- Contract signed in May 2009
- Budget 100 million EUR
- Tender ended
- EMUs will be delivered in 2014 and 2015 by company Stadler from Swiss





INFRASTRUCTURE Future Projects

	Project	Potential Source of Finance	Loan Value		
	1.1 Modernization of line Stara Pazova – Novi Sad	Loan from the Russian Federation Government	840 mil.USD for infrastructure Projects		
1	 1.2 Line doubling Pančevački Most – Pančevo Main Station 1.3 Executing of works on 6 sections of Corridor X in the length of approx. 112 km 1.4 Overhaul of Serbian part of line Beograd – Bar 				
2	Overhaul and electrification of line Niš – Dimitrovgrad	Czech Export Bank	120 mil. €		

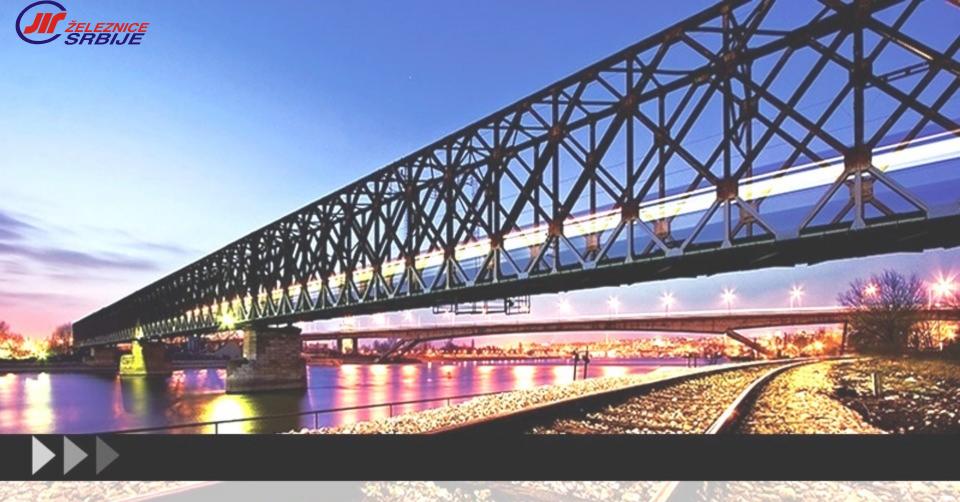


ROLLING STOCK Future Projects

- 1. Procurement of 15 multisystem locomotives
 - Source of finance EBRD IV
 - Budget 64 million EUR
 - Contract signed in September 2010
 - Tender is underway

2. Procurement of additional DMUs





Thank you for your attention!

April 2013