



NAMA Seeking Support for Implementation

A.1 Party	Republic of Serbia	
A.2 Title of Mitigation Action	Rehabilitation of arterial roads in Serbia	
A.3 Description of mitigation action	<p>This action includes rehabilitation of the 19 different arterial road sections throughout Serbia. Total length of all proposed road sections is 324 km. Sections are located in different part of Serbia. The most of them belong to the southern-east region. Selected roads sections are very important for everyday transport of humans and goods, but with serious damages on the road surface (pavement) and very high Roughness Index (IRI). Mitigation target is to improve the efficiency and operation of these roads and reduce CO2 emissions from road vehicles. Decreasing of CO2 emissions will be ensured through improved fuel consumption level (-3.64%) by all vehicles that is achieved by running speed of 60 km/h, or the International Roughness Index (IRI) of the proposed roads are improved up to the value of 2.0 m/km.</p>	
A.4 Sector	<input type="checkbox"/> Energy supply <input type="checkbox"/> Residential and Commercial buildings <input type="checkbox"/> Agriculture <input type="checkbox"/> Waste management	<input checked="" type="checkbox"/> Transport and its Infrastructure <input type="checkbox"/> Industry <input type="checkbox"/> Forestry
A.5 Technology	<input type="checkbox"/> Bioenergy <input checked="" type="checkbox"/> Energy Efficiency <input type="checkbox"/> Hydropower <input type="checkbox"/> Wind energy <input type="checkbox"/> Carbon Capture and Storage	<input type="checkbox"/> Cleaner Fuels <input type="checkbox"/> Geothermal energy <input type="checkbox"/> Solar energy <input type="checkbox"/> Ocean energy <input type="checkbox"/> Other <Pls enter Other text here>
A.6 Type of action	<input type="checkbox"/> National/ Sectoral goal <input type="checkbox"/> Strategy <input type="checkbox"/> National/Sectoral policy or program <input type="checkbox"/> Project: Investment in machinery <input checked="" type="checkbox"/> Project: Investment in infrastructure <input type="checkbox"/> Other: <Pls enter Other text here>	
B National Implementing Entity		
B.1 Name	Public Enterprise "Roads of Serbia"	
B.2.1 Contact Person	Mr. Zoran Drobnjak	
B.2.2 Address	11000 Belgrade, Bulevar kralja Aleksandra 282, SERBIA	
B.2.3 Phone	+381 11 30 40 701	
B.2.4 Email	office@putevi-srbije.rs	



B.3.1 Contact Person Slavoljub Tubic

Deputy General Manager

(alternative Contact Person 1)

B.3.2 Address 11000 Belgrade, Bulevar kralja Aleksandra 282, SERBIA

B.3.3 Phone +381 11 30 34 744

B.3.4 Email slavoljub.tubic@putevi-srbije.rs

B.4.1 Contact Person Igor Radovic

(alternative Contact Person 2)

B.4.2 Address 11000 Belgrade, Bulevar kralja Aleksandra 282, SERBIA

B.4.3 Phone +381 60 840 2302

B.4.4 Email igor.radovic@putevi-arbije.rs

C. Expected timeframe for the implementation of the mitigation action

C.1 Number of years for completion 6

C.2 Expected start year of implementation 2014

D.1 Used Currency Euro

E Cost

E.1 Estimated full cost of implementation 130,213,084.11

E.2 Estimated incremental cost of implementation 9,114,915.89

F Support required for the implementation of the mitigation action

F.1.1 Amount of financial support 139,328,000.00

F.1.2 Type of required financial support

- | | |
|--|---|
| <input type="checkbox"/> Loan (sovereign) | <input type="checkbox"/> Loan (Private) |
| <input type="checkbox"/> Concessional loan | <input type="checkbox"/> Debt Swap |
| <input checked="" type="checkbox"/> Grant | <input type="checkbox"/> Equity |
| <input type="checkbox"/> Guarantee | <input type="checkbox"/> Carbon finance |
| <input type="checkbox"/> FDI | <input type="checkbox"/> Others: |

F.1.3 Comments on Financial Support It could be subject of negotiations

F.2.1 Amount of Technological Support 0.00

F.2.2 Comments on Technological Support <Pls enter Comments here>

F.3.1 Amount of capacity building support 0.00 \$ (Dollars)
 man/hours

F.3.2 Type of required capacity building support Institutional development
 Human capital
 Systemic (policies, legislative, regulatory, etc)



F.3.3 Comments on Capacity Building Support <Pls enter Comments here>

G Estimated emission reductions

G.1 Amount 2,617.00

G.2 Unit MtCO₂e/yr

G.3 Comments Total reduction: 5,234 tCO₂e (20 years)

Methodology applied for estimation: Computer Programme to calculate Emissions from Road Transport (COPERT 4)

H.1 Other indicators of implementation :

I.1 Other relevant information including benefits for local sustainable development

Economic development of the region : improved infrastructure will ensure higher level on transport service on rehabilitated roads, not only regarding travel time and safety but also by reducing CO₂ emission and fuel consumption.

Creation of local employment opportunities: during rehabilitation works many temporary working places will be open for local residents.

Education and awareness raise: -

Reduction of fuel consumption: direct impact of rehabilitated roads on fuel consumption will be indirectly confirmed and estimated by measuring CO₂ emissions along road sections which are subject of proposed Serbian Arterial Road Rehabilitation Project. During project implementation a systematic measurement of CO₂ emissions will be established, including activities before, during and after road rehabilitation works. Environmental monitoring is consisting part of proposed project.

J Links to National Policies and other NAMAs

J.1 Relevant National Policies In line with:

- o Law on air protection ("Official Gazette of RS", 36/09)
- o Law on planning and construction ("Official Gazette of RS" No. 72/2009, 81/2009)
- o Law on nature protection ("Official Gazette of RS", 36/09)
- o Law on environmental protection ("Official Gazette of RS" No. 135/04, 36/09, 72/09)
- o Law on EIA ("Official Gazette of RS" No. 135/2004, 36/2009)
- o Law on waste management ("Official Gazette of RS", 36/09)



- o Law on noise protection (“Official Gazette of RS”, 36/09)
- o Law on water (“Official Gazette of RS”, 46/91, 53/93, 67/93, 48/94, 54/96, 101/05)

Regulations established on the basis of the Law on EIA include the following:

- o Decree on establishing the List of Projects for which the Impact Assessment is mandatory and the List of projects for which the EIA can be requested (“Official Gazette of RS” No. 114/08)
- o Rulebook on the contents of requests for the necessity of Impact Assessment and on the contents of requests for specification of scope and contents of the EIS (“Official Gazette of RS” No. 69/05)
- o Rulebook on the contents of the EIS (“Official Gazette of RS” No. 69/05)
- o Rulebook on the procedure of public inspection, presentation and public consultation about the EIS (“Official Gazette of RS” No. 69/05)
- o Regulations on permitted noise level in the environment (“Official Gazette of RS” No. 54/92)