



## Automotive center centar za vozila

d.o.o. Sarajevo

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### WHO WE ARE:

The company "Automotive center – centar za vozila" – AMC was formed in 2006 by prominent researchers and scholars in the field of motor vehicles in Bosnia and Herzegovina. It was designed with the aim of monitoring the current European regulations for motor vehicles and their participation in various forms of transport such as the transport of dangerous goods in accordance with the ADR agreement, the transportation of perishable goods in accordance with the ATP agreement and international transport in accordance with the ECMT resolutions. From the beginning of 2009, the company has been participating in the EU FP7 project TransBonus as a non-governmental partner. In late 2009, the Ministry of Transport and Communications of Bosnia and Herzegovina appointed AMC as a professional institution for performing the administrative and technical services in the area of vehicle certification in Bosnia and Herzegovina.

### COLLABORATION INTERESTS:

Given the wide range of interests in the field of automotive and transport, AMC can play a significant role as project partner in the research projects being conducted within the framework of EU FP7 and other international programs. AMC is able to provide scientific research and experimental services and could play the role of project coordinator in some less complex projects.

### AREAS FOR R&D COLLABORATION:

Given the respectable experience of the associates in research activities in the field of automotive industry and transport, areas for further research and possible cooperation in research projects include the:

- use of alternative fuels for motor vehicles,
- optimisation of fuel consumption on individual vehicle

routes,

- improving the process of approval and certification of the vehicles
- development of modern systems to increase active and passive safety of the vehicle,
- electric and hybrid cars,
- transport organisation and management;

### MAIN ACHIEVEMENTS:

Associates of the Automotive center – AMC have made a huge contribution in defining the technical aspects of legislation and standards in the field of automotive and transport, conducted by the Ministry of Transport and Communications of Bosnia and Herzegovina and the Institute for Standardisation of Bosnia and Herzegovina. In addition to continuous monitoring of technical conditions of the vehicles from Bosnia and Herzegovina, the greatest activity was conducted in the area of use of LPG fuel and defining the optimum (ECO) drive for light delivery vehicles, and in launching safe driving training for drivers of large transport systems.

### WHAT MAKES US A GOOD PARTNER?

AMC's participation in the EU FP7 project TransBonus showed the seriousness of the organisation as a partner. Thanks to the active participation of AMC's experts within TransBonus, the project has allowed for the introduction of AMC to the high quality of work, needed to successfully develop and implement future proposals and projects within the FP7 programme.

### EU PROJECTS:

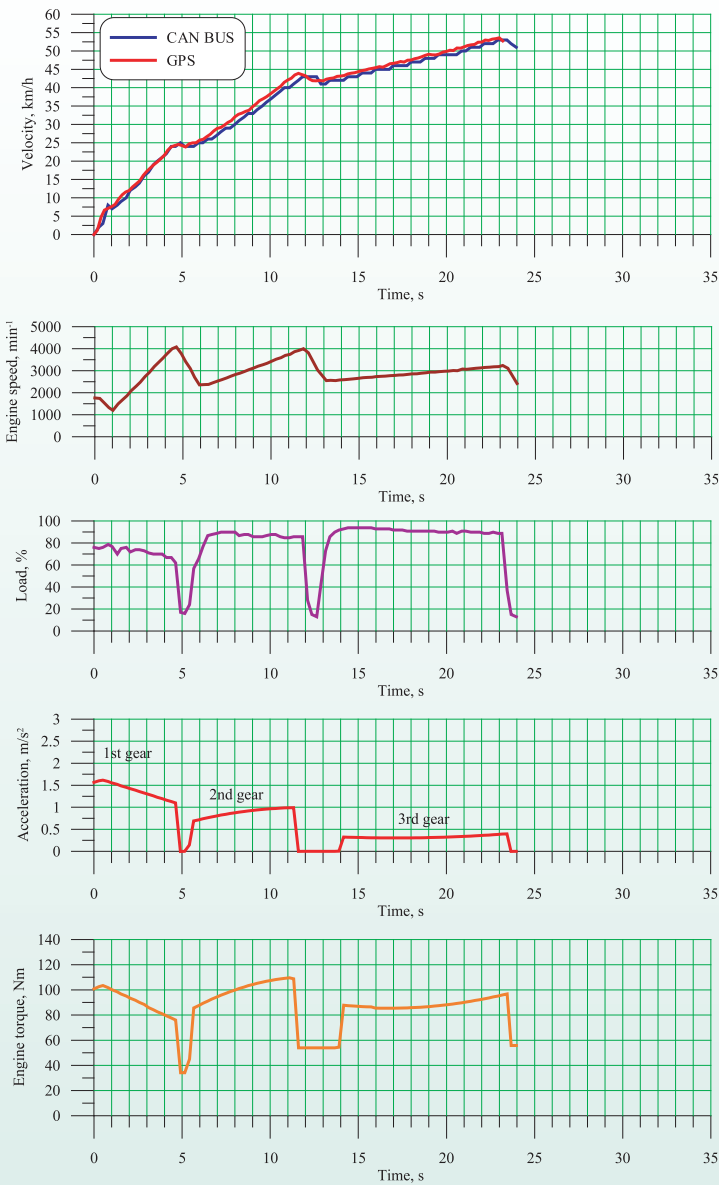
Transport EU-Western Balkan Network for Training, Support and Promotion of Cooperation in FP7 research activities (TransBonus), funded by FP7, 2009-2010

### OTHER PROJECTS:

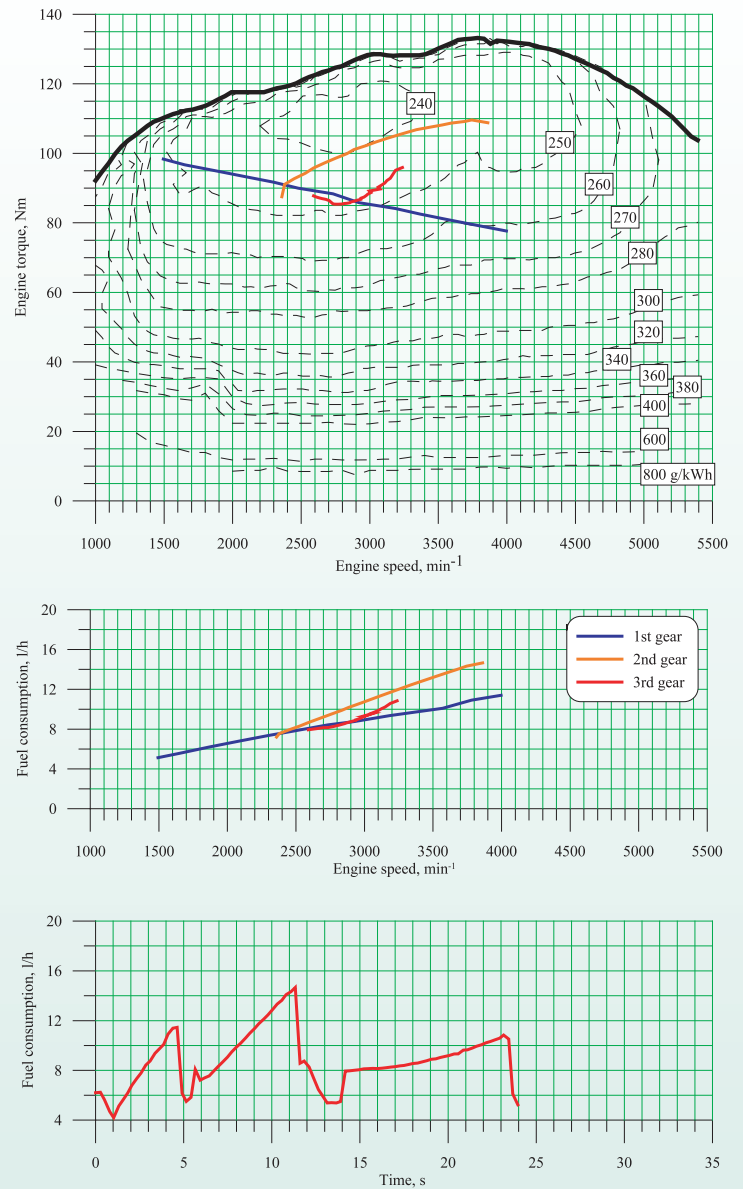
- Automotive center – centar za vozila: "Škola sigurne vožnje" ("School of safe driving"), Sarajevo, October 2009, financed by Coca Cola – HBC d.o.o. Sarajevo
- Automotive center – centar za vozila: "Definisanje optimalne potrošnje goriva za vozilo VW Caddy 1.4 MPI" ("Definition of optimal fuel consumption for the vehicle VW Caddy 1.4 MPI"), Sarajevo, December 2008, financed by Coca Cola – HBC d.o.o. Sarajevo
- Automotive center – centar za vozila: "Opravdanost korištenja LPG kao alternativnog goriva u lakim dostavnim vozilima firme Coca Cola HBC B-H d.o.o. Sarajevo" ("Justification for LPG use as alternative fuel in delivery motor vehicles for Coca Cola HBC B-H d.o.o Sarajevo"), Sarajevo, February 2008, financed by Coca Cola – HBC d.o.o. Sarajevo

**Figure 1.** Stability test of the light duty vehicle during curve maneuver





**Figure 2.** Engine and motor vehicle characteristics during acceleration up to 4000 RPM driving uphill along the road grade of 4.29 %



**Figure 3.** Efficiency of the engine torque and the fuel consumption during the acceleration up to 4000 RPM driving uphill along the road grade of 4.29 %

**OTHER INFORMATION:**

**Name of the organisation:** Automotive center – Centar za vozila Sarajevo  
**Organisation type:** Research and legislation  
**Name of the research department:** Automotive and transport  
**Number of researchers:** 15  
**Working languages:** Bosnian, Serbian, Croatian, English  
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