



ACTUATE

Advanced Training and Education for Safe Eco-driving of Clean Vehicles

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- Safe eco-driving (i.e. correct vehicle handling) reduces energy consumption and optimise operational costs.
- 9 European partners (including five public transport operators and a bus manufacturer) develop, test and introduce safe eco-driving trainings for drivers of clean vehicles.
- Training concepts for professional drivers of different clean vehicle types (trolleybuses, hybrid buses, e buses with "supercapacitors" and trams) will be developed, tested and evaluated.





ACTUATE will develop, test and introduce safe eco-driving trainings and seminar concepts for clean vehicle fleets of public transport operators.

Safe eco-driving has the potential to reduce energy consumption, emissions, operating costs and to increase passenger safety, but is so far only available for diesel-engine vehicles.

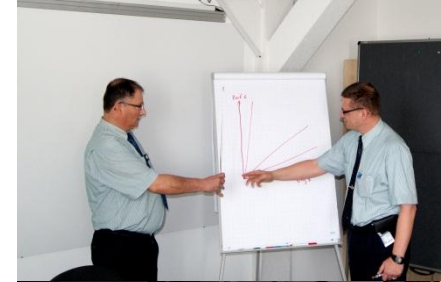
As **key benefits** information material on training and promotion campaigns for safe eco-driving will be provided. All outputs and results of the project – such as minimum training criteria, learning outcomes and training concepts/ materials – will help other public transport providers to educate and train their own drivers in safe eco-driving in a tried and tested manner.



Objectives and Main Steps

Four main objectives:

1. Contribute to European criteria and standards for energy efficient driving and formal bus driver qualification;
2. Enhance the quality of formal bus driver training and expand the training to the special requirements of clean vehicles;
3. Demonstrate the energy saving potentials due to capacity building in energy efficient driving of clean vehicles and
4. Upscale the outcomes for wider up-take at European levels.





Expected Impacts

- Develop training concepts for safe eco-driving for different types of clean vehicles, including trams, trolleybuses, hybrid buses and buses equipped with supercapacitors.
- Conduct 200 training seminars to train around 1.000 drivers across Europe in safe eco-driving techniques for clean vehicles.
- Evaluate the training programme in terms of effectiveness to reduce the energy consumption of clean vehicles operated by public transport operators.
- Achieve energy savings of 5% with regard to diesel fuel consumption of hybrid busses and 5 to 10% with regard to electricity powered vehicles.
- Integrate minimum criteria for safe eco-driving of clean vehicles into training frameworks that govern the training approaches of public transport operators.





ACTUATE – Project Partners

- **Barnimer Busgesellschaft mbH (BBG)**, Eberswalde, Germany
- **Dopravní podnik města Brna a.s., (DPMB)**, Brno, Czech Republic
- **Leipziger Aus- und Weiterbildungsbetriebe GmbH (LAB)**, Leipzig, Germany
- **Leipziger Verkehrsbetriebe GmbH (LVB)**, Leipzig, Germany
- **Rupprecht Consult – Forschung & Beratung GmbH (RC)**, Cologne, Germany
- **Salzburg AG für Energie, Verkehr u. Telekommunikation (SAG)**, Salzburg, Austria
- **Trasporti Pubblici Parma S.p.A. (TEP)**, Parma, Italy
- **TrolleyMotion (TM)**, Austria
- **Van Hool NV (VH)**, Lier, Belgium



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