

Electromobility+



Electromobility+ Information Event

Brokerage Session

13 January 2011



Recommendations for Presentations

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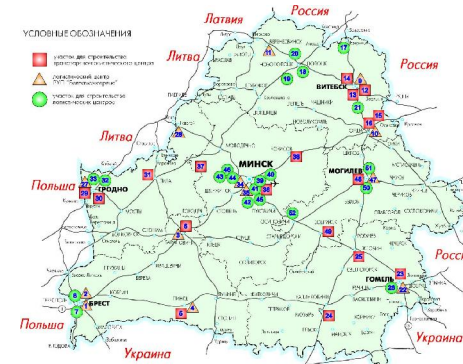
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- **Energy and environmental policy approach**
- **Objective: ensuring of Common Normative Transport Space**

EU transport legislation is essential different by structure and application principles from normative base, acting in Republic of Belarus and other post-USSR countries. Forming of harmonized legal space promotes development of international economic relations, that for one's turn will approach Belarus to EU standards. Joining of our country to general regulations, applied in international traffic of passengers, takes a special place in this process. Forming of harmonized legal space promotes development of international economic relations, that for one's turn will approach Belarus to EU standards. Joining of our country to general regulations, applied in international traffic of passengers, takes a special place in this process. Addition of Republic of Belarus to the system of international compacts and conventions, related to public conveyances, as well as garmonization with EU approaches of standards and technologies in the sphere of long-distance traffic of passengers will create real prerequisites for functioning of general market of transport services



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- **Energy and environmental policy approach**
- **Objective: reliable and safety transport motion**

The main objective of the this two projects is to research and develop road safety transportation systems. It means the elaboration of smart and adaptable transport communication service platform for further improving of the integrated approaches to safety, considering together the infrastructure, vehicles, drivers and other transport users. The first system is an active safety transport one, connecting transport means in the common information space with possibility of interchange of information about their technical state (if it is dangerous), and makes it possible to correct motion of vehicles (or stop at all) in compliance with taken information. The information about difficult conditions can be transmitted from vehicles to service centers for coordination of transport motion and re-orientation of transport flows.

One of the most important problems of city transport systems elaboration is seeking of right balance between economically essential infrastructure development and equally legitimate planning requirements based on environmental and other policy objectives. The so-called cooperative systems based on vehicle-to-vehicle and vehicle-to-infrastructure communications can in the longer term improve considerably the efficiency of city transport motion management and so lead to Carbon Economy. The second approach is the self-tested and self-improved system on the base of data about motion velocity of urban and municipal transport. Such approach makes it possible to define the place of traffic jams, as well as to estimate their extensions.



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• Technology based innovations

We are ready to work in the following directions:

- Modeling, elaboration, making and testing of traction motors (on permanent magnets and inductor) and their control systems;
- Electric motor & sensors design and manufacture;
- Test bench actuator;
- Distributed electric on-board system with intellectual peripheral mechatronic modules;
- Studying of materials and technologies in the sphere of construction and design of a hybrid power drive with electronic control system for a city-bus;
- Development of Acoustic Noise Compensation System for vehicles;
- Development and production of a motor-wheel with improved technical characteristics



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Thank you for attention!