



AIBDiM - Active Intelligent Road and Bridge Restrain Systems

The aim of the project AIBDiM -Active Intelligent Road and Bridge Restrain Systems is to develop new - in the world - an active, intelligent road barrier. Its use in particularly dangerous places on the roads, bridges and tunnels will highly increase the road safety. Implementation of the invention for the industry production will increase the competitiveness of Polish producers and contribute to the strengthening of cooperation between science and economy.

The main research goal of the project is to develop and implement an universal, active, intelligent road barriers, intended to restrain and referral the vehicle on the right track after the collision, while maintaining safety of the vehicle occupants and other road users.

Active barrier adjust their absorption capacity to vehicle mass: car, bus, truck.

Implementation in:

- dangerous places on roads,
- bridges,
- tunnels, etc.

This barrier, equipped with electronics and modern design solutions will, in contrast to the currently used passive protection systems, in an intelligent way, actively regulate the level of impact energy absorption of different weight vehicles - car, bus, truck.

Developed engineering idea has been tested for patent purity and is an invention, within the meaning of the Industrial Property Law Act. The project uses received by Road and Bridge Research Institute on 25 March 2009 accreditation in crash tests. Accreditation was awarded by the Polish Centre for Accreditation (AB 1025).

The aim of the Institute is to carry out the project in such a way that immediately after the completion of the work, the result could be implemented into production. Therefore, the result of the implementation will be the production documentation, which is the attitude of the sales of domestic and foreign licensing.

Unique on a world wide scale construction of an active, intelligent road barrier has an influence on:

- Decrease of the negative consequences of a vehicle's collision with road barriers,
- Increase of the safety of persons situated inside a vehicle,
- Reduction of the reaction time taken by the rescue services,
- Improvement of the chances of survival for victims of accidents,
- Decrease of the total number of accidents and related costs.

The project provides a significant amount of crash tests, using an experimental testing ground, which guarantees high quality of work and practical results.

The project is conducted in accordance with PN-EN ISO / IEC 17025:2005 norm, for which the Road and Bridge Research Institute is accredited.

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www.aibdim.edu.pl

Project leader: Michał Karkowski

e-mail: mkarkowski@ibdim.edu.pl

phone +4822 39 00 201

Donation for innovation

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