

TOLL ROADS IN BELARUS

students gr. 101041-14 Koshel E.A, Supranovich V.Y.
Supervisor – cand. of tech. sciences, docent Pilgun T.V.

BelToll is an electronic toll collection system (ETC), valid from 1st July 2013 in the Republic of Belarus. The system is using the world's proven microwave technology based on Dedicated Short Range Communication (DSRC). It allows road users to pay toll without stopping at toll plazas. Along the toll road network, gantries fitted with antennas, enable the communication between the transceivers and the special devices, called on-board units (OBU), which are mounted on the windscreen of the vehicles.

The direct communication of the so-called multi-lane-free-flow facility (MLFF) between the device in the vehicle, on-board unit (OBU), and the toll gantries allows fully automatic calculation of the toll when passing underneath the toll portals.

When drivers pass underneath the terminals of payment the electronic toll collection system will automatically draw money from the driver's OBU user account, established upon registration in the system. Neither the speed needs to be reduced nor has a special lane to be used. This means moving traffic for all road users! Starting from 1 November, 2016, the total length of toll roads will thus amount to km 1,614. Vehicles with a maximum laden weight not exceeding 3.5 tons registered in the countries of the Eurasian Economic Union (Belarus, Russia, Kazakhstan, Kyrgyzstan and Armenia) shall be exempt from toll payment.

Using toll roads within the BelToll system shall be paid by drivers of the following vehicle categories:

- motor vehicles with a maximum laden weight exceeding 3.5 tons;
- motor vehicles with a maximum laden weight not exceeding 3.5 tons registered outside the Eurasian Economic Union.
- Despite the fact that the system has been functioning for more than 4 years, there are a number of negative aspects of its use.