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**news**

Tuesday 27 December 2005

**2006 will see new Toll Collect system in Serbia**

The Serbian road directorate, responsible for construction and maintenance of all highways in the Republic, is modernising the country's tolling process by introducing a new Toll Collect system which comprises some completely new features concerning vehicle detection and classification, license plate recognition and microwave based dedicated short range communications (DSRC).

This system was developed by the Serbian company, Institute Mihailo Pupin, which won the tender for modernization of Toll Collect systems on highways in Serbia against international competition. Solutions provided by Mihailo Pupin Institute were judged technically superior and several times cheaper and the system is fully compliant with EU recommendations and standards for electronic tolling interoperability.

Highway users will be able to choose toll payment method - cash, credit card or electronic payment. When the vehicle is approaching the pay toll booth its presence, direction, class and license plate number are detected by the system. At the same time a picture of every vehicle is taken, time and place of entering the Toll Collect system and the method way of payment are also determined. All this data is than recorded to OBU or magnetic ticket.

Upon leaving the highway not only is the payment procedure is carried out but also double checking of all the data written on OBU is performed. The amount due is calculated based on the vehicle category and distance travelled and it is deducted from the prepaid sum written on OBU.

Mihailo Pupin claims its enforcement procedure is going to reduce violation rate to negligible levels.

Construction works are already in progress and the new system is expected to be fully operational by spring 2006 on some stretches of Serbian highways, and the rest of the highway network will be covered by the end of the same year.

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## Srbija će u 2006. imati novi sistem naplate putarine

Republička direkcija za puteve odgovorna je za izgradnju i održavanje svih autoputeva u Republici i modernizuje sistem naplate putarine u zemlji tako što uvodi nov sistem naplate putarine koji će imati potpuno nove karakteristike vezane za detektovanje i klasifikaciju vozila, prepoznavanje registarskih tablica i kratkodometnu komunikaciju (DSRC) zasnovanu na mikrotalasima.

Ovaj sistem je razvila srpska kompanija Institut Mihailo Pupin koja je dobila na tenderu za modernizaciju sistema naplate putarine na autoputevima u Srbiji naspram međunarodne konkurencije. Rešenja koja je pružio Institut Mihailo Pupin su ocenjena kao nekoliko puta jeftinija a sistem je u potpunosti u skladu sa preporukama i standardima EU za interoperabilnost elektronske naplate putarine.

Korisnici puteva će biti u mogućnosti da biraju metod plaćanja putarine – gotovina, kreditna kartica ili elektronsko plaćanje. Kada se vozilo približava mestu naplate putarine, sistem detektuje njegovo prisustvo, pravac, klasu i broj registarskih tablica. U isto vreme se fotografise svako vozilo, a takođe se utvrđuju i vreme i mesto ulaska u sistem naplate putarine kao i način plaćanja. Svi ovi podaci se onda beleže na OBU ili magnetnu traku.

Po izlasku sa autoputa ne samo da se vrši procedura plaćanja već i ponovna provera svih podataka zabeleženih na OBU. Suma koja treba da se plati se određuje na osnovu kategorije vozila i udaljenosti putovanja i oduzima se od unapred plaćene sume zabeležene na OBU.

Mihailo Pupin tvrdi da će njihova procedura sprovođenja smanjiti stepen kršenja na zanemarljiv nivo.

Radovi na izgradnji su već u toku i očekuje se da novi sistem bude potpuno funkcionalan do proleća 2006. na pojedinim deonicama srpskih autoputeva, dok će ostatak mreže autoputeva biti pokriven do kraja iste godine.