

# RIJEKA-ZAGREB MOTORWAY

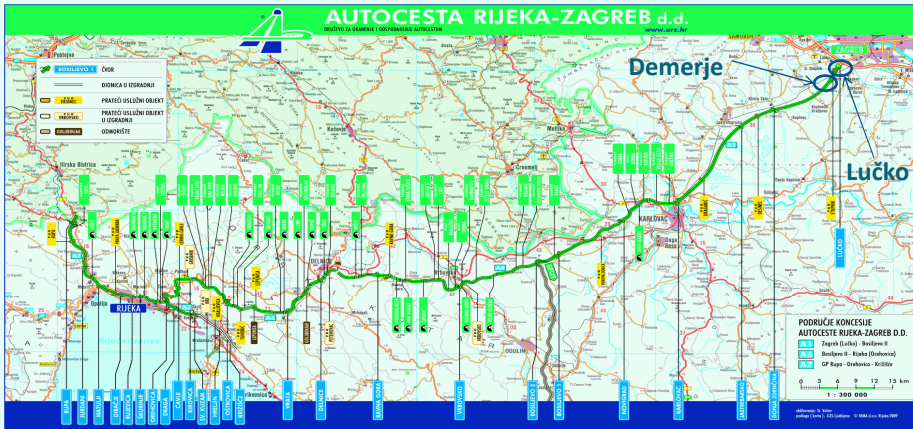
## Cashless toll collection solution – toll plaza Demerje

Oslo, June 2010.





# RIJEKA-ZAGREB MOTORWAY

## AUTOCESTA RIJEKA-ZAGREB d.d.



❖ 182 km   ❖ On European Route E65   ❖ 13 Toll Plazas   ❖ 750 Employees



## Traffic, income and payment method distribution

	2007	2008	2009	Q1/2010
<b>VEHICLES</b>	<b>14.682.222</b>	<b>19.079.235</b>	<b>18.666.087</b>	<b>2.496.027</b>
<b>INCOME (€)</b>	<b>71.995.853</b>	<b>87.837.624</b>	<b>92.322.342</b>	<b>9.456.618</b>
<i>CASH</i>	<i>75,76%</i>	<i>69,42%</i>	<i>64,14%</i>	<i>51,73%</i>
<i>ETC</i>	<i>4,81%</i>	<i>12,34%</i>	<i>16,99%</i>	<i>25,59%</i>
<i>SMART CARD</i>	<i>6,38%</i>	<i>6,44%</i>	<i>7,72%</i>	<i>7,79%</i>
<i>BANK CARD</i>	<i>8,56%</i>	<i>11,80%</i>	<i>11,15%</i>	<i>13,37%</i>



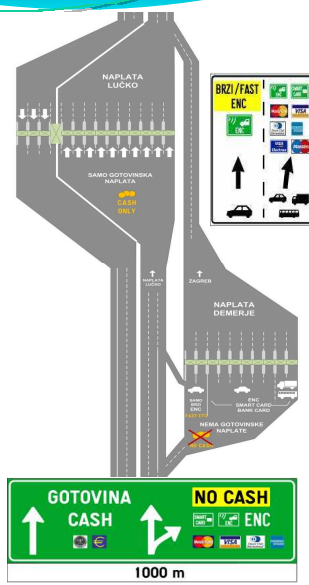


## Southwest entrance to city of Zagreb

- ❖ Toll plaza Lučko was opened in 1971 with 5 lanes
- ❖ It was expended to 12 lanes over the years
- ❖ Capacity of toll plaza Lučko was not sufficient during tourist seasons
- ❖ There was no room for further expansion because of surrounding buildings
- ❖ In order to provide additional lanes it was decided to build a new toll plaza 3km in Rijeka direction
- ❖ New plaza Demerje is built as bypass for non-cash payments while old plaza Lučko is reconfigured for cash payments





## Toll Plaza DEMERJE

- ❖ Opened in June 2009.
- ❖ Automatic cashless payment solution
- ❖ 2 fast ETC lanes and 8 stop and go lanes
- ❖ Supported payment methods: ETC (fast, stop and go), smartcards, credit cards, debit cards, charge cards and fuel cards

## Toll Plaza DEMERJE - capacity

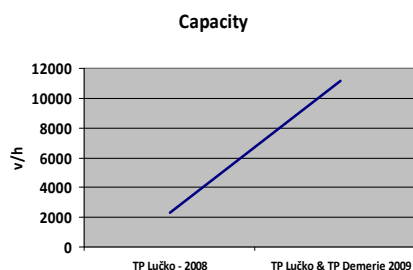
Toll Plaza Demerje	Lanes	Capacity (v/h)	Total capacity (v/h)
“fast ETC” (without stopping $v=40$ (km/h))* (900-1.100 v/h)	2	1.100	2.200
“Regular lanes” *(700-900 v/h)	8	900	7.200
<b>Total capacity</b>			<b>9.400</b>

## LUČKO + DEMERJE capacity

- ❖ Total exit capacity of combined plazas is 11.150 v/h, which represents an increase of 4.8 times compared with Lučko capacity in 2008

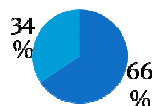
Toll Plaza	Capacity (v/h)
Lučko	1.750
Demerje	9.400
<b>Total</b>	<b>11.150</b>



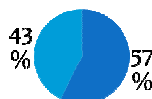
## Traffic share – combined plazas

Toll Plaza	Q3/2009	Q4/2009	Q1/2010
Zagreb - Lučko	1.423.100	619.752	483.127
Zagreb - Demerje	749.120	466.960	375.564

Q3/2009



Q4/2009



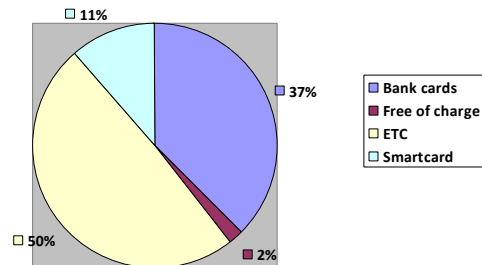
Q1/2010



■ Zagreb - Lučko  
■ Zagreb - Demerje



## Toll Plaza DEMERJE – payment methods



❖ Distribution of payment methods on toll plaza Demerje:

- ETC (50%)
- Bank cards (37%)
- Smartcards (11%)



## Built for the Future

- ❖ Payment methods are gradually shifting from cash to electronic payment
- ❖ Both domestic and foreign drivers are recognizing the advantages of much faster traffic flow with electronic payment methods
- ❖ Electronic payment methods will continue to grow and shift more traffic to Demerje
- ❖ Rijeka-Zagreb Motorway is adapting its toll system to improve quality of toll service
- ❖ Avoiding congestions makes us driver friendly and environment friendly



# Thank You

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