

CROATIA NATIONAL REPORT ON MOTORWAYS 2016

I Current State of the Network

As on 31 December 2016, the total length of the motorway network in Croatia amounted to **1,313.8 km**. Motorways are operated by 4 companies:

- Hrvatske autoceste d.o.o. (operates motorways A1, A3, A4, A5, A10, A11 and St.Ilija tunnel),
- BINA-ISTRA d.d. (it operates the so called Istrian Y - A8 and A9),
- Autocesta Rijeka - Zagreb d.d. (operates motorways A6, A7, part of A1, the Krk Bridge and part of D6 State Road from Novigrad to Netretić) and
- Autocesta Zagreb - Macelj d.o.o. (operates motorway A2).

	Company	2015 Total network	2016 Total network	Total network plan for 2017
1.	HAC d.o.o.*	925.80	925.80	925.80
2.	ARZ d.d.*	187.03	187.03	187.03
3.	BINA-ISTRA d.d.	141.00	141.00	141.00
4.	AZM d.o.o.	60.00	60.00	60.00
TOTAL		1,289.43	1,313.83	1,313.83

**revised km according to km of network in service*

OPENING OF NEW FAST ROAD SECTIONS IN 2016

There were 12.50 km of new fast road section opened to traffic in 2016 but this section was handed over to Public Roads Authority for operation and maintenance as state road therefore motorway network did not increase in 2016.

In 2016, the following fast road stretch was open to traffic:

NEW SECTIONS OPENED IN 2016

Fast road	Section	Km	Date of opening to traffic
DC10 Križevci-Vrbovec	Gradec - Križevci	12.50*	On the 2 nd of September 2016

**section of the state road which are not integrated in motorway network of HAC since after the completion of works done by HAC they were handed over to HC (Croatian Roads Authority)*

Tunnels and Bridges on the Network

Company	Km of Tunnels	Km of Bridges	Total Tunnels and Bridges
HAC	31.63	8.51	40.14
ARZ	12.88	14.56	27.44
BINA ISTRRA	5.31	9.36	14.67
AZM*	3.50	7.87	11.37
TOTAL	53.32	38.84	93.62

*revised number of km of tunnels (length in sole one direction)

II Works in Progress

On 31 December 2016, the works were in progress on:

- 7.0 km of motorways
- 10.60 km of fast roads,
- 1.20 km of link roads

WORKS IN PROGRESS ON 31 DECEMBER 2016

Motorway	Section	Km	Description
A5 Beli Manastir - Osijek -B&H border	Bridge Drava	2.50	Construction work and supervision
	Osijek Interch. - Bridge Drava	3.80	
	Bridge Sava	0.70	
Fast road: DC12 Podravina Y	Vrbovec 2 - Farkaševac	10.60*	Construction work and supervision
Link road Karamatići - Port of Ploče	Entry to the Port of Ploče	1.20*	Construction work and supervision

In 2017, road works will be completed on the total of:

- 10.60 km of fast roads,
- 1.20 km of link roads

THE FOLLOWING SECTIONS WILL BE OPENED TO TRAFFIC IN 2017

Motorway	Section	Km	Opening to traffic scheduled
Fast road: DC12 Podravina Y	Vrbovec - Farkaševac	10.60*	By the end 2017
Link road Karamatići - Port of Ploče	Entry to the Port of Ploče	1.20*	By the end of May 2017

**sections of state roads which will not be integrated in motorway network of HAC but after the completion of works done by HAC they will be handed over to HC (Croatian Roads Authority)*

In addition to the continuation of work from the previous year, the following new work will start in 2017:

- 17.50 km of new motorways
- 10.68 km of widening to full profile

START OF NEW WORK IN 2017.			
Motorway	Section	Km	Description
A5 Beli Manastir - Osijek - B&H	Drava Bridge - Beli Manastir Section	17.50	Construction work and supervision
A8 Kanfanar - Matulji	Rogovići - Cerovlje *	10.68*	Widening to full profile

*plan (assuming the realization of investment in phase 2B1)

III Cost of Investment and Financing

The total of HRK 221.20 million (€ 29.38 million) was invested in the construction of new motorways in 2016, while HRK 155.11 million (€ 20.38 million) was invested into sections under traffic.

- in mio HRK

Company	Investments in 2016		Plan for 2017	
	Into new sections	Into existing sections	Into new sections	Into existing sections
HAC	221,20	93,40	237,98	325,75
ARZ*	0,00	26,52	0,00	127,64
BINA ISTRA	0,00	24.49	127,77	24,96
AZM	0,00	10.70	0,00	15.40
TOTAL	221,20	155,11	365,75	493,75
TOTAL INVESTMENTS	376,31		859,50	

- in mio EUR

Company	Investments in 2016		Plan for 2017	
	Into new sections	Into existing sections	Into new sections	Into existing sections
HAC***	29.38	12.27	31.60	43.26
ARZ*	0.00	3.48	0.00	16.95
BINA ISTRA	0.00	3.22	16.97	3.31
AZM	0.00	1.41	0.00	2.04
TOTAL	29.38	20.38	48.57	65.57
TOTAL INVESTMENTS	49.76		114.14	

The investment amounts are based on the temporary report for 2016

**1 EUR=7.61 HRK (Annual average exchange rate in 2015, Source: Croatian National Bank)

1 EUR=7.53 HRK (Annual average exchange rate in 2016, Source: Croatian National Bank)

***HAC: Investment amount for the year 2016 is based on temporary report and for the year 2017 is based on Draft Plan of construction and maintenance approved on the 31st January 2017 by the Supervisory Board of the Company and submitted to Ministry of the Sea, Transport, and Infrastructure for final approval by the Croatian Government.

Source of investments financing in 2016 (%)	HAC	ARZ	BINA ISTR	AZM
Loans	32.80	0	0	0
proper resources	0	0	0	0
Revenues from tolls and other revenues	0	93.55	53.3	70
Revenues from fuel HRK 0.20/l i.e. EUR 0.026/l	54.40	0	0	0
Reimbursable and non-reimbursable state funding	0	0	46.7	30
EU funds	12.80	6.45	0	0
TOTAL	100	100	100	100

IV Traffic

In 2016 all motorway companies experienced increase in traffic when compared to the previous year. The total traffic of all vehicles increased by 8,01 % in comparison with the previous year.

- number of vehicles in toll collection zones

Company	2015		2016				Total (16/15)
	Light vehicles	Heavy vehicles	Light vehicles	%	Heavy vehicles	%	
	(IA+I+II)	(III+IV)	(IA+I+II)	(16/15)	(III+IV)	(16/15)	
HAC	30.981.611	4.594.567	33.797.887	9,09	5.022.564	9,32	9,12
ARZ	17.904.051	1.991.560	19.159.313	7,01	2.182.413	9,58	7,27
BINA ISTR	7.810.914	682.081	8.338.141	6,75	729.034	6,88	6,76
AZM	5.721.187	716.557	6.051.203	5,77	760.766	6,17	5,81
TOTAL	62.417.763	7.984.765	67.346.544	7,90	8.694.777	8,89	8,01
TOTAL TRAFFIC	70.402.528		76.041.321				8,01

GDP 2015/2014 (%)	Traffic 2015/2014 (%)	CPI 2015/2014 (%)	GDP 2016/2015 (%)	Traffic 2016/2015 (%)	CPI 2016/2015 (%)
1.6	7.2	-0.6	2.9*	8.01	0.2

* Flash estimate (source: Central Bureau of Statistics)

V Tolling

The closed toll collection system, with several entrances and exit points, is predominantly operated in the Republic of Croatia. Motorway usage is charged per mileage and vehicle category. At the entrance to the motorway, the user takes an entry card (or the entry is recorded on their ETC device) and the payment is made on exit toll stations per the length of travel.

The open toll collection system is used on Bregana - Zagreb Motorway, on the Krk Bridge, on Rupa-Rijeka and on the St.Ilija Tunnel.

1 EUR = 7.53 HRK

AVERAGE TOLL RATE PER KM (with VAT)		
Existing systems	Light vehicles (Category I)	
	HRK/km	€/km
Closed system	0.497	0.063
Open system	0.480	0.065
Ratio categories I : IV closed tolling system	1 : 4.3	
	Trucks (Category IV)	
	HRK/km	€/km
Closed system	2.173	0.288
Open system	1.945	0.255
Ratio categories I : IV open tolling system	1 : 4	

Motorcycles (category IA) pay 60% of the toll charged for category I vehicles.

On all motorways, toll can be paid in cash (HRK and €), by credit and debit cards, by INA card, by SMART cards. Electronic toll collection (ETC) system is available on all motorways except on the Zagreb-Macelj Motorway (A2).

VAT on tolls is 25%.

TECHNOLOGY OF ELECTRONIC TOLL COLLECTION SYSTEM IN USE

The toll collection systems of HAC, ARZ and BINA ISTRA network has a stop and go system that integrates electronic toll collection (ETC).

The technology of electronic toll collection is in accordance with the legal provisions: DSRC 5.8 GHz

Communication standards: Physical Layer ENV 12795 and ENV 12253

Data Link Layer ENV 12834 and ENV 13372

Application standards: Application Layer ISO14906 EFC

Transaction models: PISTA and TIS are in use, with openness to other transactional models in accordance with relevant standards.

HAC

The Government of the Republic of Croatia started a process aiming to transformation of the existing tolling system on motorways into system that will enable electronic tolling without barriers, improvement of road safety and traffic flow levels, that will be acceptable and non-discriminatory for all groups of users paying the toll and will ensure to motorway operators

optimum costs and revenues regarding tolling and that will be interoperable with future EETS service. New tolling system should be implemented by 2020 at the latest.

ARZ

Future ARZ projects are focused on the need to increase the flow of toll stations by introducing more fast toll lanes without stopping (currently there are two) and to introduce new products based on electronic tags and ANPR modules.

BINA-ISTRA D.D.

The Istrian Y network has a closed toll system. Users have at their disposal a total of 108 toll lanes, of which 45 are entry lanes and 63 are exit lanes. Payment can be made in cash in HRK and EUR (only for non-residents), with bank cards or Bina Istra ETC devices.

For users who travel frequently, Bina Istra has prepared special offers with significant discounts on toll rates depending on the package chosen. The discounts can be obtained by using the Bina Istra ETC device, which is compatible with the networks of other motorway concessionaires in Croatia - ARZ and HAC.

During low traffic intensity, toll collection at most toll stations runs in automatic mode without the presence of a toll collector.

Bina-Istra ETC subscribers can use the Internet or SMS subscription to see the balance of their accounts and subscription expiry time and can also obtain the listing of passes through toll stations. In addition, they can replenish their accounts and fill in and print invoices for payments via bank transfer. At Bina-Istra toll collection points, toll can be paid by all credit and debit cards, and by INA card and the ETC device.

Furthermore, users who already own an ETC device can additionally register devices already bought at HAC and ARZ with the BINA-ISTRA toll collection system and in this way become Bina-Istra subscribers (this is valid for frequent users entitled to average discount of 30 to 50% , depending on the section used) or to register their credit cards for an ETC device (applicable to non-frequent users).

Toll rates

HRVATSKE AUTOCESTE D.O.O. (HAC)

In 2016 HAC did not change its toll rates nor has it introduced new products for users.

AUTOCESTA RIJEKA-ZAGREB D.D. (ARZ)

In 2016 the toll rates did not change on the motorway network under ARZ concession scheme nor new products for users were introduced.

AUTOCESTA ZAGREB-MACELJ D.O.O. (AZM)

In 2016 toll rates did not change. For prepaid toll payments via SMART card the discount of 25% is calculated for categories I and II and 13% for categories III and IV (for amounts more than HRK 2,000.00). In addition to SMART card, payments can also be made via debit and credit cards, and by INA card.

BINA-ISTRA D.D.

As of 1.1.2016. new toll tariffs have been applied on the Istrian Y motorway, adjusted for inflation rate for the last 12 months, which resulted in average increase of toll rates on the Istrian Y by 1.2%.

The summer tariffs have been applied on Istrian Y also this summer (from 1.6.-30.9.2016.). This special tariff was approved by the Ministry of the Sea, Transport and Infrastructure and represents full toll tariff increased by 10%.

For subscribers and local population using ETC device tolls remain unchanged. Since summer 2015 BINA ISTRRA has proposed to its users a new ETC package called EASY, offering a general discount of 10% without time limit.

ETC users still have the possibility to qualify for a series of discounts on the regular toll price. Bina-Istra ETC subscribers can use the Internet or SMS subscription to see the balance of their accounts and subscription expiry time and can also obtain the listing of passes through toll stations. In addition, they can replenish their accounts and fill in and print invoices for payments via bank transfer.

To improve services for its users, in 2016 the company launched several projects whose implementation is expected in 2017.

VI Toll Revenues (without VAT)

In 2016, the total toll revenues amounted to **EUR 344.612.482** which represents an increase of toll revenues by **7.52 percent** when compared to the previous year.

Company		2015		2016		% (16/15)
		HRK	€	HRK	€	
1.	HAC	1.484.405.026	195.059.793	1.597.133.131	212.102.673	7.59
2.	ARZ	539.448.602	70.886.807	580.808.706	77.132.630	7.67
3.	BINA-ISTRRA	186.318.178	24.483.335	204.138.095	27.109.973	9.56
4.	AZM	203.266.719	26.710.476	212.852.058	28.267.206	4.72
TOTAL		2.413.438.525	317.140.411	2.594.931.990	344.612.482	7.52

Toll revenues are based on the temporary reports for 2016

**1 EUR=7.61 HRK (Annual average exchange rate in 2015, Source: Croatian National Bank)*

1 EUR=7.53 HRK (Annual average exchange rate in 2016, Source: Croatian National Bank)

Toll revenues breakdown for light vehicles and heavy vehicles

	2016 (in EUR*)					
	Light vehicles	Heavy vehicles	Total	LV%	HV%	%
	(IA+I+II)	(III+IV)		(16/15)	(16/15)	(16/15)
HAC	145.803.054	66.299.620	212.102.673	7.34	8.15	7.59
ARZ	56.771.925	20.360.705	77.132.630	6.56	10.87	7.67
BINA ISTRRA	21.419.619	5.690.354	27.109.973	9.94	8.18	9.56
AZM	19.217.911	9.049.295	28.267.206	4.32	5.56	4.72
TOTAL	243.212.508	101.399.974	344.612.482	7.14	8.45	7.52

VII Traffic Safety

The total of 2,397 traffic accidents, with 36 fatalities and 551 injuries was registered in 2016. The total number of all traffic accidents registered in 2016 increased by 4.86 % and total number of fatalities increased by 89.47 %, when compared to the previous year.

Number of traffic accidents	2015					2016					%
	HAC 925 km	BINA ISTRA*** 141 km	ARZ 187 km	AZM 60 km	CROATIA 1313 km	HAC 925 km	BINA ISTRA*** 141 km	ARZ 187 km	AZM 60 km	CROATIA 1313 km	
with fatalities	12	2	4	0	18	20	4	3	0	27	50.00
with injured	212	9	70	16	307	219	14	65	17	315	2.61
with material damage	1.546	64	241	110	1.961	1.596	65	284	110	2.055	4.79
Total number of traffic accidents	1.770	75	315	126	2.286	1.835	83	352	127	2.397	4.86
Total number of injuries	400	10	121	18	549	388	40	94	29	551	0.36
Total number of fatalities	13	2	4	0	19	28	4	4	0	36	89.47

Traffic accidents are observed on the totality of the motorway network

Main safety ratios

	10 ⁹ vehicles/km in 2016					change 2016/2015 in %				
	HAC* 911 km	BINA ISTRA*** 100 km	ARZ** 146 km	AZM 60 km	CROATIA 1217 km	HAC* 911 km	BINA ISTRA*** 100 km	ARZ** 146 km	AZM 60 km	CROATIA 1217 km
Personal injury rate	47.81	11.83	54.47	44.49	45.49	-5.18	-6.33	-2.10	0.38	5.14
Fatal accident rate	4.36	0	2.77	0	3.90	52.98	/	39.20	-100	38.67
Rate of dead	6.11	0	3.69	0	5.20	97.73	/	85.43	-100	75.16

* km of the network maintained used for calculating the safety figures

**ARZ safety ratios refer to A1 and A6 motorways i.e. to 146,5 km, while table with traffic accidents include the total ARZ network i.e. 187,03 km

*** BINA ISTRA figures are revised for 2015 according to the new methodology of calculation of the transport operation and figures on traffic accidents are given for the total network of Istrian Y (both motorway and semi motorway) while safety ratios are given only for stretches in full motorway profile in order to be comparable with other concessionaires.

VIII Long and Medium Term Development Program

According to the Roads Act, the construction and maintenance of motorways is planned:

- In the long term, through the public road development strategy
- In the medium term, through four-year Public Road Construction and Maintenance Programmes passed by the Government of the Republic of Croatia based on the proposal of the Ministry of Sea, Transport and Infrastructure,
- Annually, through construction and maintenance plans defined by individual motorway operating companies.

In 2014 the Croatian Parliament adopted final draft of the Strategy of Transport Development of the Republic of Croatia for the period 2014-2030 and adoption of new Strategy for the mentioned period is under preparation.

The Government of the Republic of Croatia adopted in total four four-year Public Road Construction and Maintenance Programs (2001-2004, 2005-2008, 2009-2012, 2013-2016). Adoption of a new for year Programme for 2017-2020 in under process.

Croatia will finish realisation of defined strategic goals (attainment of planned regular maintenance of roads, ensuring that the total core road network matches the up to date transport standards and completion of the necessary planned motorway and fast roads network).

AUTOCESTA RIJEKA-ZAGREB D.D.

Construction/Diversion of the State Road D6 from Novigrad Interchange to Lišnica of total length of 4.440 m is planned.

BINA -ISTRA d.d.

- Widening to full motorway profile on the Pazin-Učka Tunnel Section (Phase 2B1) i.e. completion of the Istrian Y project
- Construction of second tube of Učka Tunnel
- Debt refinancing

AUTOCESTA ZAGREB-MACELJ d.o.o.

Long term project of AZM is the upgrade of the Krapina-Đurmanec Section of the total length of 3,7 km to the full motorway profile and introduction of ETC toll payment.

According to Draft Public Road Construction and Maintenance Program 2017-2020 the following motorways and express roads are to be completed and opened to traffic:

A5 Beli Manastir - Osijek - B&H Border Section

- Bridge over the Drava River
- Osijek-Beli Manastir Section
- Sava Bridge

A3 Bregana -Zagreb-Lipovac

- Lipovljani interchange

A8 Kanfanar - Matulji Motorway

- Rogovići - Vranja Section- widening to the full motorway profile

Link road TS Karamatići- Port of Ploče

- Entry to the Port of Ploče

DC 12 Podravina Y (Bjelovar)

- Vrbovec 2 - Farkaševac Section

Start of construction of the “Ranžirni” Overpass on the A11 Motorway Zagreb - Sisak in 2020.

CROCODILE II CROATIA is joint ITS project involving state roads and motorway operators having for goal to ensure coordinated traffic management and control that will result in providing high quality information to users on one of the most important road corridors in the enlarged Europe.

For the exchange of data and information on european level DATEX II protocol will be used.

DATEX II is a protocol for information exchange between TMCC centers, roads information centers, road service providers and users.

Details about the project

- Start of project: 2016
- End of project: 2019
- Value of the project: 10.956.000,00 EUR
- Co-funding by EU: 9.312.600,00 EUR

Partners

Project Applicant

Ministry of the Sea, Transport and Infrastructure

Implementation Bodies

Hrvatske autoceste d.o.o.

Autocesta Rijeka-Zagreb d.d.

Autocesta Zagreb-Macelj d.o.o.

Bina-Istra d.d.

Hrvatske ceste d.o.o.

IX Significant activities in 2016 and plans for 2017

HRVATSKE AUTOCESTE D.O.O.

In 2016 the company was focused on:

In 2016 Company opened to traffic 12,5 km of fast state road from Gradec to Križevci and handed it over to Croatian Roads Authority for operation.

In 2016 works were under way as follows:

1. On A5 Motorway Beli Manastir - Osijek - border with Bosnia and Herzegovina, construction of Drava Bridge and Sava bridge on 3.8 km long stretch from Osijek to Drava Bridge.
2. Construction and equipment of D10 State road Gradec - Križevci, works were completed and section was handed over to Croatian Roads Authority for operation.
3. Construction of DC12 state road from Vrbovec 2 Interch. to Farkaševac.
4. Construction of entry to the Port of Ploče
5. Construction of Lipovljani interchange on A3 Motorway Bregana - Zagreb - Lipovac.

In addition, heavy maintenance works that included renewal and reconstruction of pavement and structures, cleaning up of; cuttings, water drainage system, road equipment and road signs, works on TMCC centres and different systems as to prolongate their life and improve quality and safety of motorway as well as regular maintenance works in compliance with regulations and standards for regular maintenance.

In 2017 the main works will be as follows:

1. On A5 Motorway Beli Manastir - Osijek - border with Bosnia and Herzegovina, construction and equipment the stretch Osijek Interch. to Drava Bridge of total length of 3.8 km, construction of motorway stretch from Drava Bridge towards Beli Manastir in total length of 800 m, start of works on construction of overpass and road crossings on Drava - Beli Manastir stretch, construction works on Sava Bridge and completion of works on Drava Bridge.
2. Completion of works and equipment of state road DC12 Vrbovec 2 Interch. - Farkaševac to be handed over to Croatian Roads Authority.
3. On A3 Motorway Bregana - Zagreb - Lipovac construction of noise protection walls in compliance with Noise Protection Action Plan and construction of Lipovljani Interchange.
4. Upgrade and modernising of toll collection system.

As in the previous years regular and heavy maintenance works are also planned in 2017. In addition to the activities from the last year and which will be continued also during this year, in 2017 will start introduction of ITS system in TMCC centres (implementation of ITS Directive and DATEX II protocol), upgrade of tunnels with requirements of the Directive 2004/54/EC), harmonizing of safety and protection fences with new regulation requirements, revitalizing of road side facilities and optimizing of motorway lighting on HAC network in the framework of the National Energy Efficiency Action Plan.

In addition to the investments under its own responsibility, Hrvatske autoceste motorway company acts on behalf of the Ministry of Finances and manages the construction of 40 border crossing points defined by the Schengen Action Plan of the Government of the Republic of Croatia.

AUTOCESTA RIJEKA-ZAGREB D.D.

Activities of the company for the year 2017:

Activities of the Company set in the year 2016 continue also in 2017 and include:

- investments relating to the rehabilitation and maintenance of existing facilities on the motorway and of the motorway itself
- maintenance of equipment as well as
- investments into heavy maintenance.

Projects undertaken by ARZ and planned for the year 2017 include improvement of service to users and of road safety level (better traffic flow, reduction of bottle necks, modernizing of traffic management system and prevention of accidents, investments in protection fences, environment protection investments in noise protection walls, reconstruction of the existing lighting system and migration to more energy efficient lighting).

Some of major projects of the company:

a) Master plan for development of the motorway Zagreb-Karlovac, project is co-financed with 85 % of EU Regional Development Fund through Operational Programme for Transport 2007-2013. Company ARZ participate with 15 % together with partners such as Zagreb County, Municipality of Karlovac, Municipality of Jastrebarsko, Community of Klinča Sela and Community of Stupnik. Masterplan defines key problems on the motorway section, identifies goals, measures, and projects to be carried out on the Zagreb-Karlovac Section as to improve service to users, traffic flow and road safety. Project plan was set for period from 2017 to 2020 and includes following activities: noise protection walls, setting up of protection fences, feasibility study on extension of the capacity of the motorway.

b) LIFE DINALP BEAR project „Population level management and conservation of brown bears in northern Dinaric Mountains and the Alps“. Project is financed by EU funds in the framework of EU programme LIFE+. Goals of the project which are under responsibility of ARZ are mainly to increase road safety, improve motorway impact on nature and systematic approach to handle incident situation involving animals. In 2017 it is planned to reinforce intervention team for brown

bears on motorway, monitor the marked bears, evaluate efficiency of measures undertaken as to prevent traffic accidents with animals, maintain the existing electric fences, doors and barriers along the motorway and other equipment provided in the framework of this project.

- c) **JOINT ITS CROCODILE II CROATIA PROJECT**
- d) **Construction of the Interchange Trinajstići**
- e) **Reconstruction of the Interchange Matulji**

BINA -ISTRA d.d.

In 2016 the company's activities were focused on:

For second year in a row Bina Istra proposes to its users new ETC subscription model with unlimited duration of funds available on their accounts and 10% discount on toll price and feedback from users is positive.

During 2016 Bina Istra presented application for mobile phones offering to users gathered information about weather forecast, conditions on Istrian Y motorway, road assistance including automatic localisation on the motorway, possibility for ETC users to access to their personal accounts and about general organizing travel information.

In addition, Bina Istra aims to provide to its users an efficient post-sale service through independent Client Service available for any kind of queries that users of Istrian Y might have. Client Service will have its free info phone 0800 600 601, where calls will be accepted and processed 24 hours a day.

Bina Istra will continue with project of achieving the full interoperability of ETC system which is planned to be implemented in 2 phases:

- interoperability of ETC devices among all motorway companies in Croatia
- interoperability of ETC on EU level

For the purpose to achieve interoperability on national level and the Company has agreed and signed end 2016 an MoU with ARZ company to reach technical and operational preconditions to improve service to users in terms of providing partial interoperability.

For the year 2017 the company has set following objectives:

Company plans to achieve financial closing of the phase 2B1 and to launch works on widening the Rogovići-Cerovlje section to full motorway profile (10.68 km).

In the long term, Bina Istra plans the construction of widening to full motorway profile of the section Pazin- Učka Tunnel (phase 2B1) i.e. completion of the Istrian Y motorway. The construction of the second tube of Učka tunnel is also envisaged as well as company's debt refinancing.

AUTOCESTA ZAGREB-MACELJ D.O.O.

The short-term objectives of the company include:

Regular and periodic maintenance, lowering the number of traffic accidents, energy savings, environmental protection.

KEY DATA FOR 2016

CROATIA	2016
The total length of network according to concession agreement, in km, as on 31/12/2016	1.313,8
2 x 1 lanes not including the stopping lane	72.5
2 x 2 lanes not including the stopping lane	1.220,6
2 x 3 lanes not including the stopping lane	20.8
2 x 4 lanes not including the stopping lane	0
Number of km opened to traffic in 2016	
MOTORWAYS	0
SEMI-MOTORWAYS/FAST ROADS	12.5*
Number of km under construction as on 31/12/2016	
MOTORWAYS	7
SEMI-MOTORWAYS/FAST ROADS	10.6**
LINK ROADS	1.2
Planned opening of new sections in 2017, in km	
MOTORWAYS	0
SEMI-MOTORWAYS/FAST ROADS	10.6**
LINK ROADS	1.2
Annual toll collection revenues in 2016, in EUR	344.612.482
Full time employees	3.442
AADT LIGHT VEHICLES	12.960
AADT TRUCKS	1.885
AADT LV + HV	14.845
Total number of accidents	2.397
Number of accidents with injuries	315
Number of fatalities	36
Number of kilometres travelled (10 ⁶ x km)	6.923,7
Number of toll stations	109
Number of toll collection lanes	726
Number of ETC lanes	497***
Number of ETC subscribers	320.159
Number of roadside rest areas (with filling stations)	75
Number of rest areas	123
Number of restaurants	24
Number of hotels	10

* Section of the State Road DC10 that was handed over for operation to HC (Croatian Roads Authority)

** Section of the State Road DC12 to be handed over for operation to HC (Croatian Roads Authority) after completion

***The Autocesta Zagreb-Macelj d.o.o. has not yet introduced the ETC