

CROATIA NATIONAL REPORT ON MOTORWAYS 2011

I Current State of the Network

As on 1 January 2012, the total length of the motorway network in Croatia amounted to **1,250.7 km**. Motorways are operated by 4 companies:

- Hrvatske autoceste d.o.o. (operates motorways A1, A3, A4, A5, A10, A11, A12 and A13),
- BINA-ISTRA d.d. Pula (it operates the so called Istrian Y - A8 and A9),
- Autocesta Rijeka - Zagreb d.d. (operated motorways A6, A7, part of A1, and the Krk Bridge),
- and Autocesta Zagreb - Macelj d.o.o. (operates motorway A2).

	Company	2010 Total network	2011 Total network	Total network plan for 2012
1.	HAC d.o.o.	858.0	868.0	869.5
2.	ARZ d.d.	181.7	181.7	181.7
3.	BINA-ISTRA d.d.	141.0	141.0	141.0
4.	AZM d.o.o.	60.0	60.0	60.0
TOTAL		1,240.7	1,250.7	1,252.2

OPENING OF NEW MOTORWAY SECTIONS IN 2011

New motorways	New semi-motorways	Widening of existing sections to full motorway profile	Total completed network
10.00 km		67,00 km	1.250,7

NEW SECTIONS OPENED IN 2011

Motorway	Section	Km	Description
A1 Zagreb - Split - Dubrovnik	Ravča-Vrgorac	10	Motorway
A8 Kanfanar - Matulji	Kanfanar-Rogovići	18	Widening to full profile
A9 Umag - Pula	Umag-Kanfanar	49	Widening to full profile

II Works in Progress

On 1 January 2012, the works were in progress on:

- 83,5 km of motorways,
- 15,34 km of link roads

WORKS IN PROGRESS ON 1 JANUARY 2012			
Motorway	Section	Km	Description
A1 Zagreb - Split - Dubrovnik	Vrgorac-Ploče Interchange	11	Construction of motorway route and structures
A1 Zagreb - Bosiljevo	Vukova Gorica-Karlovac -Novigrad Interchange	5,34	Construction of Novigrad Interchange and approach road (5.34 km) from Novigrad Interchange to Netretić
			Supply and installation of electrical, traffic and other equipment, and construction of a structure for the Novigrad Interchange and Novigrad-Netretić Link Road
A5 Beli Manastir-Osijek-Svilaj	Sredanci-B&H border	3	Land acquisition and construction of motorway route
A5 Beli Manastir-Osijek-Svilaj	Bridge over the Drava River		Foundation work is under way on the bridge (2,5 km)
A7 Rupa - Rijeka - Križišće - Žuta Lokva	Orehovica-Diračje (Rijeka Bypass)		Final works on solar power plant
A10 B&H border - link to Metković	B&H border-Metković link	1,5	Construction of motorway route and border crossing platform
A11 Zagreb - Sisak	Jakuševac-V. Gorica Interchange	10	Land acquisition, diversion of services, construction work on the motorway route, and Odra viaduct construction
A11 Zagreb - Sisak	Buševac - Lekenik	11	Land acquisition and route construction is finalized
A12 Vrbovec - Križevci - Koprivnica - Gola	Gradec-Kloštar Vojakovački	20	Land acquisition, archaeological explorations, diversion of utilities, construction of road route and structures
A13 Vrbovec - Bjelovar - Virovitica - Terezino Polje	Vrbovec 2-Bjelovar	27	Land acquisition, archaeological explorations, diversion of utilities, construction of road route and structures
Express road	Zagvozd-Baška Voda -link road with sv. Ilija tunnel	10	Start of work relating to tunnel equipment and north-side road

In 2012, road works will be completed on the total of:

- 1,5 km of new motorways
- 15,34 km of link roads

THE FOLLOWING SECTIONS WILL BE OPENED TO TRAFFIC IN 2012			
Motorway	Section	Km	Description
A1 Zagreb - Bosiljevo	Vukova Gorica-Karlovac -Novigrad Interchange	5.34	Construction of Novigrad Interchange and approach road (5.34 km) from Novigrad Interchange to Netretić
A7 Rupa - Rijeka - Križišće - Žuta Lokva	Orehovica - Diračje (Rijeka Bypass)		Completion of solar power plant
A8 Kanfanar - Matulji	Učka Tunnel - Matulji		Anđeli Interchange

A10 Bosnia & Herzegovina Border - Metković Interch.	B&H border - link to Metković	1,5	Due for completion in mid 2012
Express road	Zagvozd - Baška Voda link road with the Sv. Ilija Tunnel	10	Opening to traffic scheduled for June 2012

In addition to the continuation of work from the previous year, the following **new work** will start in 2012:

- 6 km of motorways
- 29 km of widening to full profile
- 5 km of tunnels

START OF NEW WORK IN 2012.			
Motorway	Section	Km	Description
A1 Zagreb - Split - Dubrovnik	Ploče Interchange - link to Metković	6	Bidding procedure is under way
A3 Bregana - Zagreb - Lipovac	Ivanja Reka - V. Kapanica		Construction of Ivanja Reka frontal toll station and Ikea Interchange
A8 Kanfanar - Matulji	Rogovići - Učka Tunnel	29	Widening to full profile
	Učka Tunnel	5	Second tube of Učka Tunnel

III Cost of Investment and Financing

The total of HRK 1,829.70 million (€ 241.39 million) was invested in the construction of new motorways in 2011, while HRK 210.58 million (€ 27.78 million) was invested in sections under traffic.

-in mio HRK

Company	Investment in 2011		Plan for 2012	
	in new sections	in completed sections	in new sections	in completed sections
HAC*	1,294.43	123.21	1,766.63	291.96
ARZ**	29.55	3.94	54.02	112.50
BINA ISTRA	505.72	23.70	265.76	23.70
AZM	0.00	59.73	0.00	90.93
TOTAL	1,829.70	210.58	2,086.41	519.09
TOTAL INVESTMENT	2.040,28		2,605.49	

* In 2011 the entire investment was financed through loans. Individual investment amounts given for 2011 are based on the temporary report for 2011, while the amounts given for 2012 are based on the Construction and Maintenance Plan approved by the HAC Supervisory Board

** The investment amounts are based on the temporary report for 2011

- in mio EUR (1 EUR = 7,58 HRK)

Company	Investment in 2011		Plan for 2012	
	in new sections	in completed sections	in new sections	in completed sections
HAC	170.77	16.25	233.06	38.52
ARZ	3.90	0.52	7.13	14.84
BINA ISTRRA	66.72	3.13	35.06	3.13
AZM	0.00	7.88	0.00	12.00
TOTAL	241.39	27.78	275.25	68.48
TOTAL INVESTMENT	269.17		343.73	

Sources of financing in 2011

Source of financing (%)	HAC	ARZ	BINA ISTRRA	AZM
loan	63	46,6	46	
company's funds			17	
toll revenues	17	43,1	17	100
revenues generated from the price of fuel (HRK 0.60/l i.e. EUR 0,079 /l)	19	0	0	
reimbursable and non-reimbursable state funding	1	10,3	20	
TOTAL	100	100	100	100

IV Traffic

All concessionaires, with the exception of AZM, registered in 2011 a rise in traffic when compared to the previous year, and so the total traffic of all vehicles increased in 2011 by 5.14 percent in comparison with the previous year. This is mainly due to significant increase in traffic on the Bina Istra sections that were opened to traffic in full motorway profile in 2011 whereby the traffic is counted differently.

- number of vehicles in toll collection zones

Company	2010		2011				% Total (11/10)
	Light vehicles (IA+I+II)	Trucks (III+IV)	Light vehicles (IA+I+II)	% (11/10)	Trucks (III+IV)	% (11/10)	
HAC	28.655.480	3.751.193	29.219.908	1,97	3.969.093	5,81	2,41
ARZ	16.388.087	1.706.956	17.275.751	5,42	1.764.400	3,37	5,22
BINA ISTRRA	5.402.286	486.184	6.875.400	27,27	630.550	29,69	27,47
AZM	5.569.339	613.822	5.436.793	-2,38	615.877	0,33	-2,11
TOTAL	56.015.192	6.558.155	58.807.852	4,99	6.979.920	6,43	
TRAFFIC, TOTAL	62.573.347		65.787.722				5,14

GDP 2009/2008 (%)	GDP 2010/2009 (%)	GDP 2011/2010 (%)	Traffic 2010/2009 (%)	Traffic 2011/2010 (%)
-6,0*	-1,2*	0,2**	-0,39	5,14

*revised GDP data based on information provided by the Central Bureau of Statistics.

**GDP growth in the third quarter of 2011, compared to the similar period in the previous year (source: Central Bureau of Statistics)

In 2011, the network was increased by 10 km with respect to 2010, and this by opening of the Ravča - Vrgorac Section on the Zagreb - Split - Dubrovnik (A1) Motorway, and 67 km of roads were widened to the full motorway profile.

V Toll Rates

The closed toll collection system, with several entrance and exit points, is predominantly operated in the Republic of Croatia. The open toll collection system is less used (e.g. on Bregana - Zagreb Motorway, and on the Krk Bridge).

TOLL COLLECTION SYSTEM		
Existing systems	Light vehicles (Category I)	
	HRK/km without VAT	€/km without VAT
Closed system	0.438	0.058
Open system	0.473	0.036
Ratio categories I : IV closed tolling system	1:4.2	
	Trucks (Category IV)	
	HRK/km without VAT	€/km without VAT
Closed system	1.833	0.242
Open system	1.113	0.147
Ratio categories I : IV open tolling system	1:4.4	

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).

HRVATSKE AUTOCESTE D.O.O. (HAC)

In 2011, HAC did not increase the level of toll price.

At HAC toll collection points, toll can be paid in cash (in HRK and in foreign currencies), by credit cards and via prepayment.

Road users that pay toll in advance using the ETC system devices benefit from the 10% discount throughout the year. By purchasing the seasonal ETC subscription, the users benefit from the 23.5% discount in the period from 1 November of the current year to the 31 March of the following year,

while the basic prepaid rate with the 10% percent discount is applied in the remaining periods of the year.

Truck users (categories III and IV) can pay toll via the ETC device that is linked to the credit card. In this way they benefit from the year round 20% discount, while an additional year round discount is applied for vehicles included in the EURO emission categories 4 and 5. Users of category III and IV vehicles with ETC standing order accounts are eligible for the following discounts: 23% for EURO 4 trucks, 25% for EURO 5 trucks, and 20% for other euro-emission categories for trucks, and this based on valid documents confirming that the truck is included in the emission category for which discount is claimed. The ETC prepaid account can be replenished round the clock on toll collection booths of the following toll stations: Bregana, Ivanja Reka, Sveta Helena, Varaždin, Osijek, Đakovo, Sl.Brod-West, Županja, Lipovac, Žuta Lokva, Gospić, Zadar-East, Zadar-West, Šibenik, Dugopolje, Šestanovac and Ravča.

In addition, the amount on the ETC device can be replenished via credit cards at the hac.hr web portal, via mobile device linked to credit card and prepaid account, at 15 sales points during normal working hours, and via SMS voucher to replenish the amount on the ETC device.

The SMS vouchers and ETC packages are readily available at sales points of INA , TIFON , OMV , HAK, BINA ISTRRA, LUK OIL, PETROL I TISAK, while SMS vouchers are also available through ZABA sales points (internet banking, cash machines (ATM), and ZABA kiosks).

BINA-ISTRRA D.D.

The closed toll collection system was introduced at Istrian Y in mid 2011. At that, the toll rates have not been increased, and the users can still benefit from a number of discounts applied on regular toll rates. Bina-Istria prepaid account users are able to see via Internet and SMS the balance on their accounts and account expiry information, the list of passages though toll points, and account replenishment information, and can prepare and print bank transfer invoices. In addition to cash payment, users can pay by all credit and debit cards, INA card, and via the ETC device. Furthermore, users who already have an ETC device can reregister devices already bought at HAC and ARZ with the BINA-ISTRRA toll collection system, and become in this way Bina-Istria subscribers (this is valid for frequent users entitled to 30-50 percent discount, depending on section used) or to register their credit cards for ETC device (applicable to non-frequent users).

AUTOCESTA RIJEKA-ZAGREB D.D. (ARZ)

ARZ did not increase level of its toll rates in 2011.

Toll can be paid by cash, and via credit and debit cards, SMART card, INA card and ETC. A 10 percent discount is granted throughout the year if toll is paid through subscription via SMART card. A seasonal discount of 23.5 percent is granted for seasonal Smart and seasonal ETC during the winter season, from 1 November to 31 March.

A 10 percent discount is granted throughout the year if toll is prepaid via ETC device.

At the discount sale that lasted from 1 January 2011 to 31 December 2011, the commercial ETC devices were sold for the category I vehicles at HRK 1 + VAT = HRK 1.23, subject to minimum toll prepayment of HRK 100 and user registration.

ETC packages can be purchased at FINA (160 offices), PETROL (30 filling stations), TIFON (15 filling stations), and EUROPETROL (19 filling stations). This project, enabling purchase of ETC devices for category I users, has been undertaken to make the product more available to end users, and especially to tourists.

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

AZM did not increase level of toll rates in 2011.

Toll can be paid in cash, via debit and credit cards, INA card and also with SMART card.

A 15 percent discount is granted to categories I and II for toll payment by subscription to SMART card. SMART card subscribers with vehicles belonging to categories III and IV enjoy the year round discount of 10 percent (for purchases in excess of HRK 4,000.00).

VI Toll Revenues (without VAT)

In 2011, the total toll revenues amounted to **2.064.314.720 KN** which represents an increase of toll revenues by 4.18 percent when compared to the previous year.

1 EUR = 7,58 HRK

Company		2010.		2011.		% (11/10)
		HRK	€	HRK	€	
1.	HAC	1.232.212.309	162.560.991	1.257.728.814	165.927.284	2.07
2.	ARZ	447.200.934	58.997.485	472.431.515	62.326.057	5.64
3.	BINA-ISTRA	135.020.590	17.812.743	168.579.984	22.240.103	*24.86
4.	AZM	166.985.990	22.029.814	165.574.407	21.843.589	-0.85
TOTAL		1.981.419.823	261.401.032	2.064.314.720	272.337.034	4.18

* Higher revenues are due to adoption of closed toll collection system on most parts of the network of BINA-ISTRA.

VII Traffic Safety

The total of 2,366 traffic accidents, with 31 fatalities and 367 accidents with injuries, was registered in 2011.

The total number of all traffic accidents registered in 2011 was reduced by 12.08 %, and the number of fatalities fell by 32.61%, when compared to the previous year.

Number of traffic accidents	2010.					2011.				
	HAC 858km	BINA ISTRA 141 km	ARZ 182 km	AZM 60 km	CROATIA 1241 km	HAC 868km	BINA ISTRA 141 km	ARZ 182 km	AZM 60 km	CROATIA 1251 km
- with fatalities	29	3	6	1	39	18	3	5	2	28
- with injured	259	14	105	29	407	260	11	86	10	367
- with material damage	1.548	124	449	124	2.245	1.382	112	391	86	1.971
Total number of traffic accidents	1.836	141	560	154	2.691	1.660	126	482	98	2.366
Total number of fatalities	35	4	6	1	46	21	3	5	2	31

Main safety ratios

	10 ⁹ vehicles/km in 2011					change 2011/2010 in %				
	HAC 868 km	BINA ISTRA 141 km	ARZ 182 km	AZM 60 km	CROATIA 1241 km	HAC 868 km	BINA ISTRA 141 km	ARZ 182 km	AZM 60 km	CROATIA 1241 km
Personal injury rate	66,43	31,8	73,63	30,09	63,16	-2,04	-26,80	-9,88	-65,19	-12,81
Fatal accident rate	4,59	8,56	4,28	6,02	4,82	-39,53	-8,06	-22,18	102,01	-30,58
Rate of dead	5,37	8,57	4,28	6,02	5,34	-41,38	-30,94	-22,18	102,01	-34,83

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 as adopted by the Croatian Parliament,
- 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.

The Croatian Parliament adopted in 1999 the Strategy of Transport Development in the Republic of Croatia.

The Government of the Republic of Croatia adopted three four-year Public Road Construction and Maintenance Programs (2001-2004, 2005-2008, 2009-2012), and by the end of 2012 a new program for the period from 2013 to 2016, and also a new long-term transport development plan should be adopted.

Previous two four-year periods were marked by speedy and intensive motorway construction in the Republic of Croatia. Due to limited funding possibilities caused by global financial crisis and recession the priorities in the current 2009 - 2012 period have shifted to the completion of sections started in previous periods on motorways A1, A5 and A11, to widening of Istrian Y (A8 and A9) to the full motorway profile, and to maintenance and preservation of the existing motorway network, including quality improvements and construction of new roadside service facilities.

Out of the works anticipated in the Public Road Construction and Maintenance Programme (2009-2012), the following sections still remain to be realized:

A1 Zagreb - Split - Dubrovnik Motorway

- Vrgorac-Ploče Interchange Section - construction of motorway route with structures, to be completed after 2012
- Ploče Interchange - Metković Section - preparation of design documents

A2 Zagreb - Macelj Motorway

- Macelj - Krapina Section - completion of the Macelj border crossing with Slovenia

A5 Beli Manastir - Osijek - B&H Border Section

- Sredanci-B&H Border Section - land acquisition and motorway route construction
- Bridge over the Drava River - foundation work

- A7 Rupa - Rijeka - Križišće - Žuta Lokva Motorway**
-Sveti Kuzam-Križišće Section - finalisation of works
- A8 Kanfanar - Matulji Motorway**
- Rogovići - Učka Tunnel Section - preparations for widening to the full motorway profile
- Učka Tunnel - preparations for construction of the second tunnel tube
- A10 B&H Border - Metković Interchange Motorway**
- B&H Border - Metković Interchange Section - construction of motorway route and border crossing platform
- A11 Zagreb - Sisak Motorway**
- Jakuševac-Velika Gorica Interchange Section - completion of land acquisition arrangements, diversion of utilities, construction of motorway route including the Odra Viaduct
- Buševac-Lekenik Section - completion of land acquisition arrangements, and motorway route construction
- A12 Vrbovec - Križevci - Koprivnica - Gola Motorway**
- Gradec- Kloštar Vojakovački Section - land acquisition, diversion of utilities, construction of motorway route with structures
- A13 Vrbovec - Bjelovar - Virovitica - Terezino Polje Motorway**
- Vrbovec 2 Interchange -Bjelovar Section - land acquisition, diversion of utilities, construction of motorway route with structures

IX Significant activities started or completed in 2011 and plans for 2012

HRVATSKE AUTOCESTE d.o.o. (HAC)

Activities related to traffic safety

- a) improvement of traffic statistics and analysis of traffic accidents in order to define dangerous spots, and propose improvement of such spots through appropriate measures and traffic engineering solutions,
- b) improvement of the traffic information system (PIS) for the detection of vehicles driving in wrong direction, in order to enable more efficient work of competent services in the incidental situation known as "vehicle in wrong direction",
- c) several projects for improvement of traffic/technical solutions on some parts of the road, equipment and system, i.e. on spots where safety analyses have shown that such improvements are needed, in order to avoid accidents or reduce their consequences.

Activities related to improvement of services to motorway users

- a) provision of better real-time information about traffic situation and road condition on the oncoming road sections, and this through use of information displays,
- b) improvement of technical and organisational measures for operation of traffic in emergency situations on existing motorways,
- c) redesign of HAC web pages, so as to include useful traffic information.

Activities related to toll collection

Appropriate processes aimed at increasing the share of toll collected via ETC system were initiated in 2011. The trend of including users of vehicle categories III and IV (trucks), started in 2010 by introduction of stimulating and environmental conditions for payment via ETC device coded to a

specific truck licence plate linked to credit cards (Amex, Diners, Mastercard, and Visa), will be continued in 2012 as well as this: by including INA and LUKOIL cards into the ETC standing order accounts for trucks, i.e. by replacement of 9,847 Smart Cards with ETC devices, without any charge. This will increase the part of the ETC truck traffic in the total truck traffic, from 44 % realized in 2011, to the estimated 60 % of the total truck traffic in 2012.

In addition, activities undertaken in 2011 also focused on increasing the number of ETC temporary users belonging to vehicle categories I and II (passenger cars). In this respect, a promotional sale of ETC package was implemented from 15 June to 15 September 2011, when the price of ETC device amounted to HRK 0.00 only. To ensure success of this promotional sale, we devised the commission sale distribution system and concluded contracts about commission sale of ETC packages and SMS vouchers with the greatest oil companies INA, Tifon, OMV, LUKOIL and Petrol, and with the greatest retail network of kiosks owned by Tisak and Slobodna Dalmacija. In addition, we entered into contract with Zagrebačka banka for commission sale of SMS vouchers for replenishment of ETC accounts. We thus created a distribution network that sold, over the above mentioned promotional period, as many as 22,149 of ETC packages, and the said number of new users was included in the ETC toll collection system, which amounts to 13 % of the total number of active ETC devices.

Activities planned in 2012:

- increase of motorway traffic and attraction of through truck traffic (transit traffic) to motorways in the Republic of Croatia. This includes preparation of the Byelaw on European Electronic Toll Collection (Art. 12, Para. 2, and Art. 14, Para. 1. of the Roads Act (Official Gazette 84/11)), and harmonization of existing electronic toll collection protocols with European guidelines. This also includes realization of negotiation on the acceptance of ETC devices for trucks issued by the French Eurotoll, which expressed its intention to open its office in the Republic of Croatia, just like in all EU countries. The said activities and full application of the European electronic toll collection in the Republic of Croatia is to be realized by June 2013, which will ensure implementation of regional interoperability with EU countries and hence it will be possible to pay toll in the Republic of Croatia using the ETC device sold by the EENC service provider from a EU country, and vice versa.
- Pursuant to Article 9, Paragraph 1, Subparagraph 3, of the Roads Act (Official Gazette 84/11), a new byelaw is currently prepared to determine vehicle categories for toll collection, methodology for determining toll rates, and parameters for harmonizing toll rates with cost increase rates. The objective is to unify, for all motorway operators present in the Republic of Croatia, the rules for classification of vehicles in price categories, and to standardise an approach for determining toll rates for toll road sections, i.e. to define methodology for harmonizing toll rates with an increase in the motorway operation and maintenance costs, and for using optimum charging models dependent on specific time intervals, days or seasons in the year, all in order to achieve maximum use of all motorway sections on which tolls are charged.
- Optimization of operating costs in future periods through implementation of the pilot project for the fully automated toll collection at the exit toll lane of the Komin TS on the Zagreb - Goričan Motorway (A4), where it will be confirmed during testing in the first quarter of 2012 whether the system is compliant with toll collection requirements set in the Republic of Croatia. The use of equipment for fully automated toll collection requires definition and development of a special hardware and software package, completely adjusted to HAC needs, and fully compliant with Croatian regulations relating to foreign-currency toll payment by non-residents, and exemption from toll payment based on regulations on traffic safety and use of motorways by vehicles owned by persons with physical disability. According to this pilot project, the automatic toll lane would ensure toll collection without toll attendant, using all payment methods via credit and smart cards, and ETC device, while cash payments would be limited to Croatian currency "kuna" and European currency "euro".

Upon successful implementation of this pilot project, HAC plans to open every new toll motorway section in such a way that toll stations positioned on roads with lower traffic density will be equipped with fully automated toll collection systems, which will contribute to long term optimization of operating costs.

AUTOCESTA RIJEKA-ZAGREB d.d.

In 2011, the company's activities were focused on:

- construction of the Novigrad Interchange with access road from Novigrad Interchange to Netretić
- works on solar power plant at the Rijeka Bypass

The company has set the following objectives for the year 2012:

- completion of the Novigrad Interchange with access road from Novigrad Interchange to Netretić
- completion of work on the solar power plant at the Rijeka Bypass

BINA -ISTRA d.d.

Long-term plans:

- Widening of the Istrian Y route to the full motorway profile (Phase 2A) is currently under way and the stopping lane is systematically being realized on all new sections. However, the stopping lane on the side with lay-bys will be built in Phase 2B, as specified in the written agreement signed between the Government of the Republic of Croatia and Bina-Istra.

The second viaduct over the Limska Draga, as well as the Mirna bridge, will be built in Phase 2B. This phase also includes the second pavement at the Rogovići - Učka Tunnel - Matulji Section, 45 km in length, and construction of the second tube of the Učka Tunnel (5km).

In 2011, the company's activities were directed towards:

- almost 75 km of full profile motorways were opened to traffic (Umag - Kanfanar Section and Kanfanar - Pazin Section)
- in mid 2011, the closed toll collection system was implemented on the entire Istrian Y.
- in the course of 2011, preparations were being made for widening of the Pazin - Učka Tunnel Section to the full motorway profile, including the second tube for the Učka Tunnel.

In 2011, the company has set the following objectives for the oncoming period:

Start construction of the full profile motorway at the Pazin - Učka Tunnel Section, including the second tube for the Učka Tunnel.

AUTOCESTA ZAGREB-MACELJ d.o.o.

Regular activities relating to road safety, service level improvement, environmental protection and optimisation of operating costs are underway. Since the concession area has been set for the entire concession period, there is no room for extension of the network. It is planned to widen the Krapina-Đurmanec sub-section, 3.7 km in length, to the full motorway profile.

As to competition with railway traffic, AZM expects that the road traffic will steadily be increasing as the rail infrastructure in the zone around the concession area has been greatly neglected, and is currently negligible.

In 2011, the company's activities were focused on :

Regular and periodic maintenance, environmental protection, prevention of traffic accidents, and preparation of the strategic noise map for the entire Zagreb - Macelj Motorway.

The company has set the following objectives for 2012:

Regular and periodic maintenance, preparations for introduction of ETC, environmental protection, and noise protection action plans

KEY DATA FOR 2011

CROATIA	2011.
The total length of network according to concession agreement, in km, as on 31/12/2011	1.250,70
2 x 1 lanes not including the stopping lane	47,89
2 x 2 lanes not including the stopping lane	1.182,05
2 x 3 lanes not including the stopping lane	20,75
2 x 4 lanes not including the stopping lane	
Number of km opened to traffic in 2011	
MOTORWAYS	10
SEMI-MOTORWAYS	
WIDENING TO FULL MOTORWAY PROFILE	67
Number of km under construction as on 01/01/2012	
MOTORWAYS	83,5
SEMI-MOTORWAYS	
WIDENING TO FULL MOTORWAY PROFILE	
Planned opening of new sections in 2012, in km	
MOTORWAYS	1,5
SEMI-MOTORWAYS	
WIDENING TO FULL MOTORWAY PROFILE	
Annual toll collection revenues in 2011, in EUR	272.337.034
Full time employees	3.936
AADT LIGHT VEHICLES	11.249
AADT TRUCKS	1.476
AADT LV + T	12.725
Total number of accidents	2.366
Number of accidents with injuries	367
Number of fatalities	31
Number of kilometres travelled (10 ⁶ x km)	5.810,311
Number of toll stations	93
Number of toll collection lanes	638
Number of ETC lanes*	411*
Number of ETC subscribers	196.171
Number of roadside rest areas (with filling stations)	76
Number of rest areas	123
Number of restaurants	18
Number of hotels	8

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