

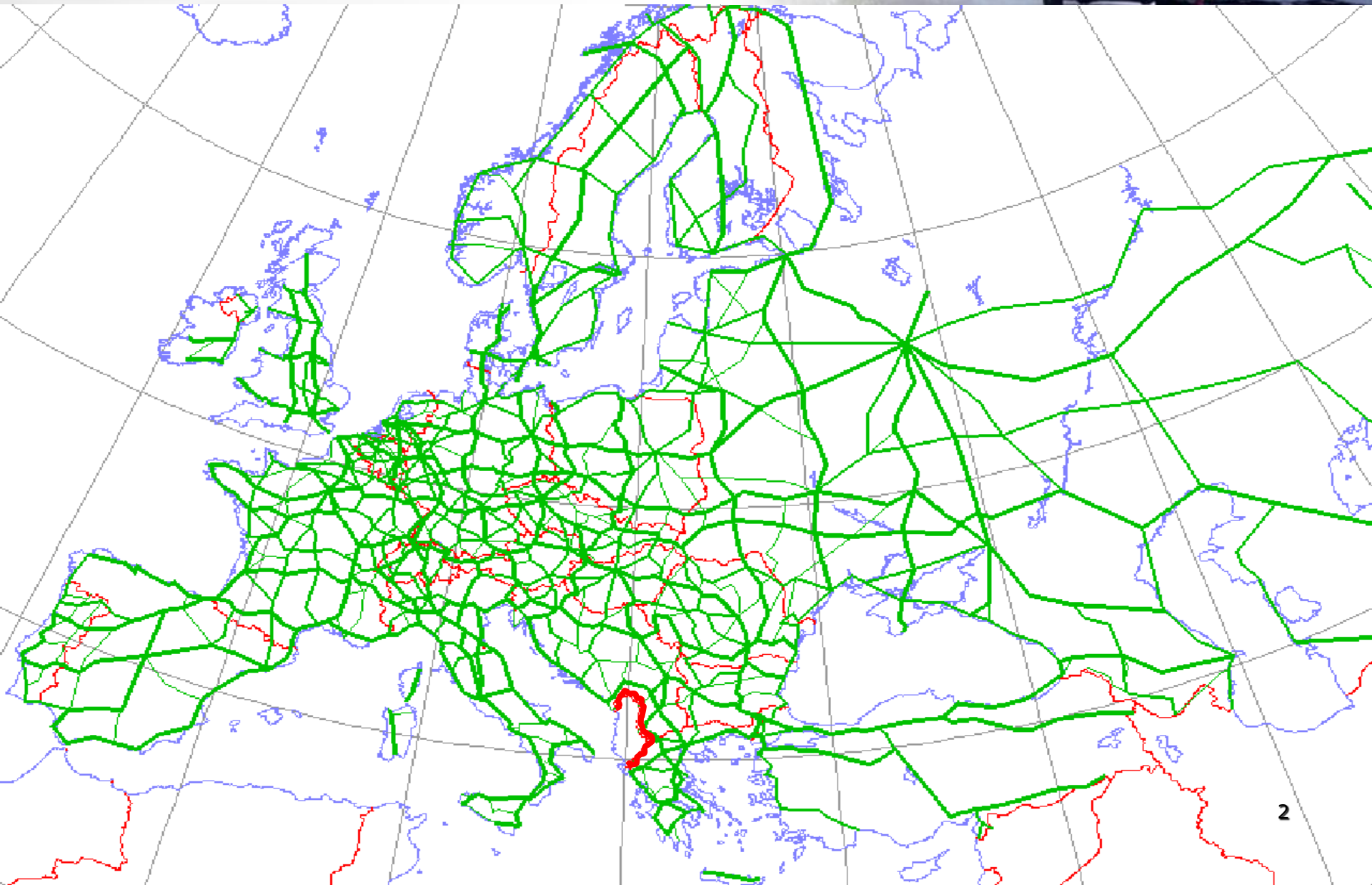
ALBANIAN TRANSPORT INFRASTRUCTURE, PROSPECTIVS AND EUROPEAN INTEGRATION

*By: Faruk KABA
Ph.D. Civ. Eng.*



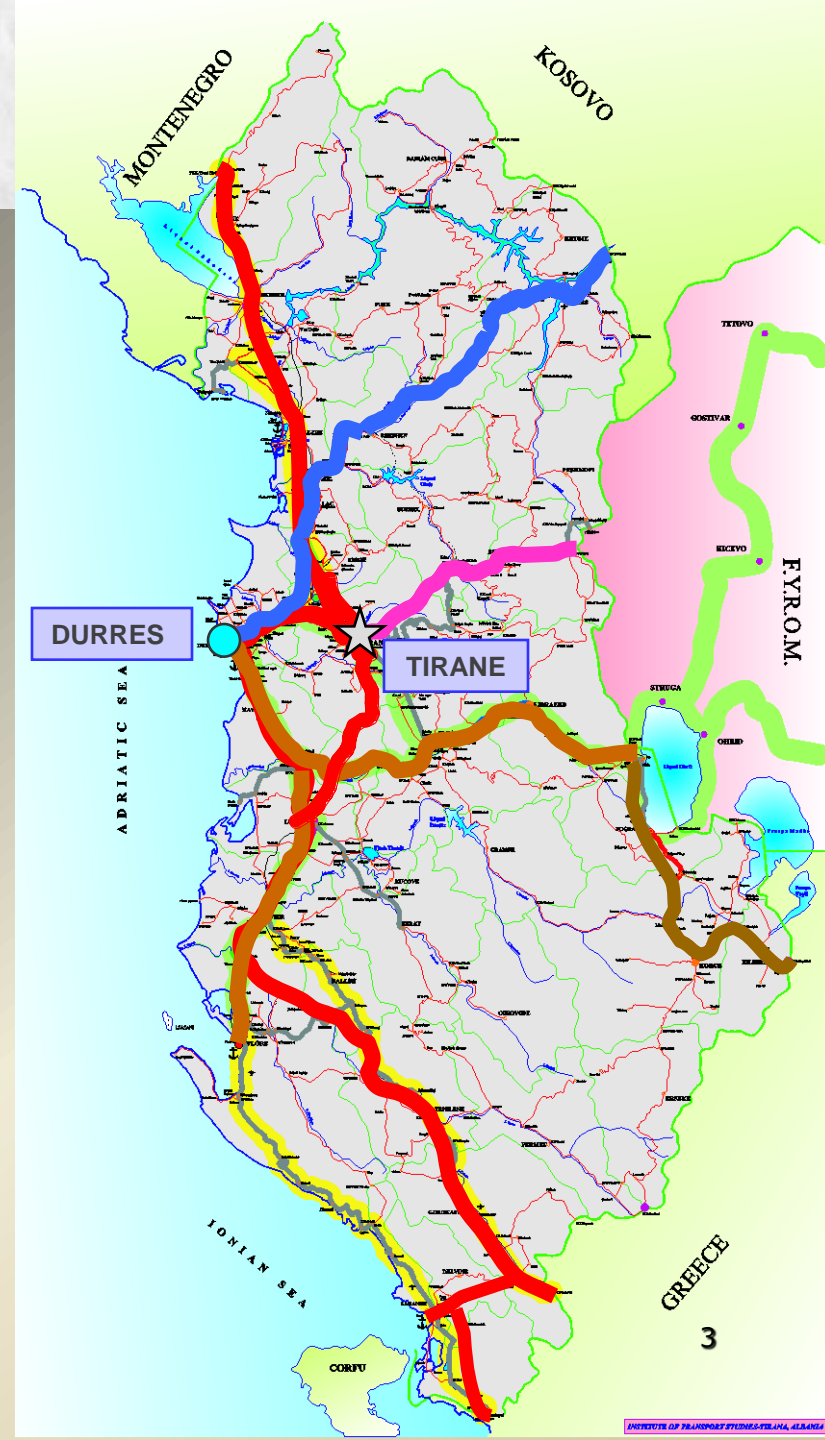
Tirana, 2012

THE MAIN PANEUROPEAN NETWORK



PRIORITIES ON THE ROAD NETWORK OF ALBANIA

- **East-West Corridor**
 - 260 km The main section
 - 96 km Other branches
- **North-South Corridor**
 - 339 km The main Section
 - 72 km Other branches
- **Durres–Morine (Albania to Kosovo) Corridor**
 - 169 km Motorway
- **Road of Arberit (Albania-Macedonia) Corridor**
 - 72,6 km Highway



NORTH - SOUTH CORRIDOR

- **Main section**

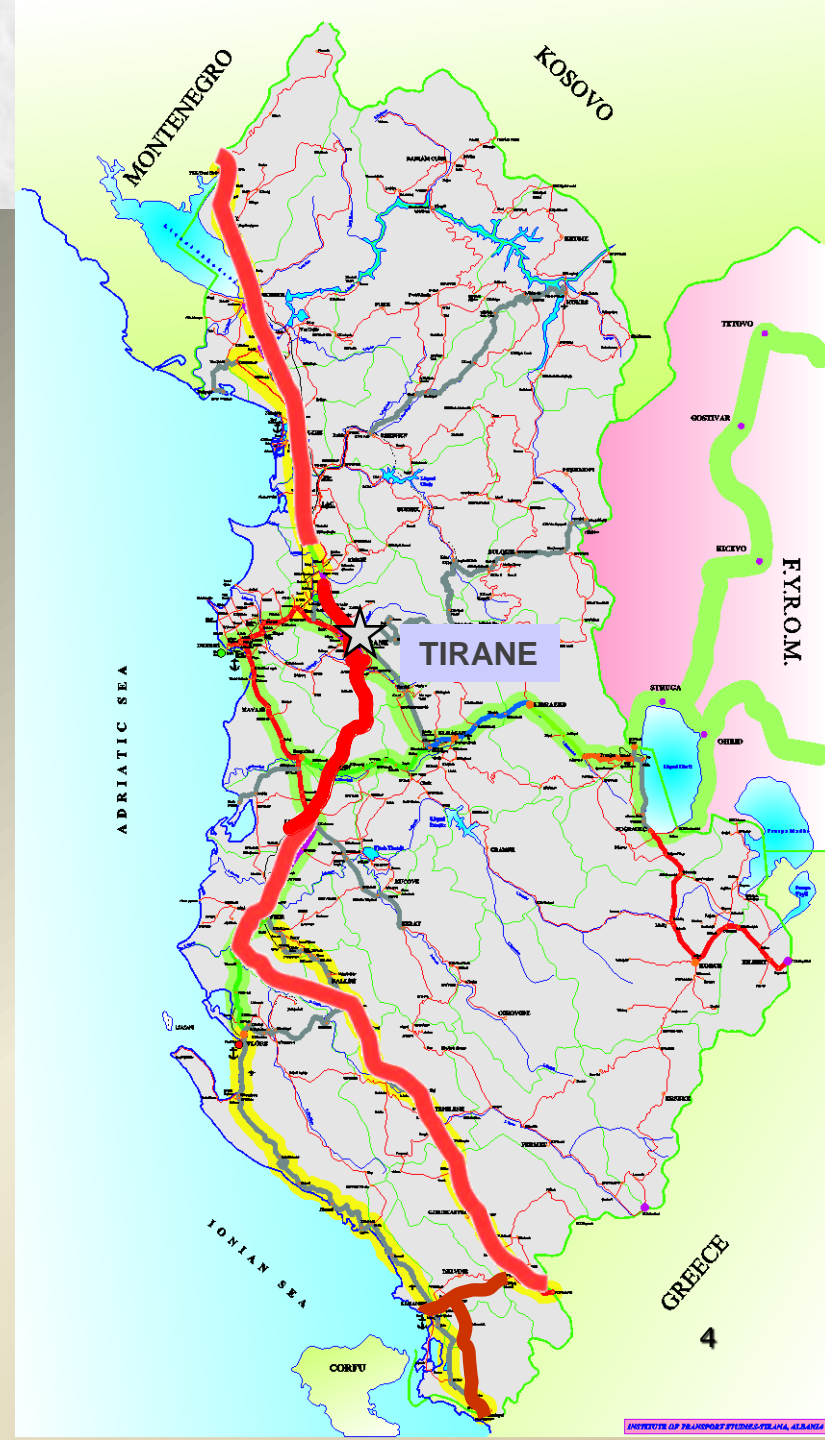
Hani Hotit-Shkoder-Lezhe-Milot-Thumane-Rrogozhine-Lushnje-Fier-Levan-Tepelene-Gjirokaster-Kakavije
(339 km)

- **The central section:**

Thumane-Rrogozhine is launched
by concession, nearly 600 Mio Eur
(BOT project) (64 km)

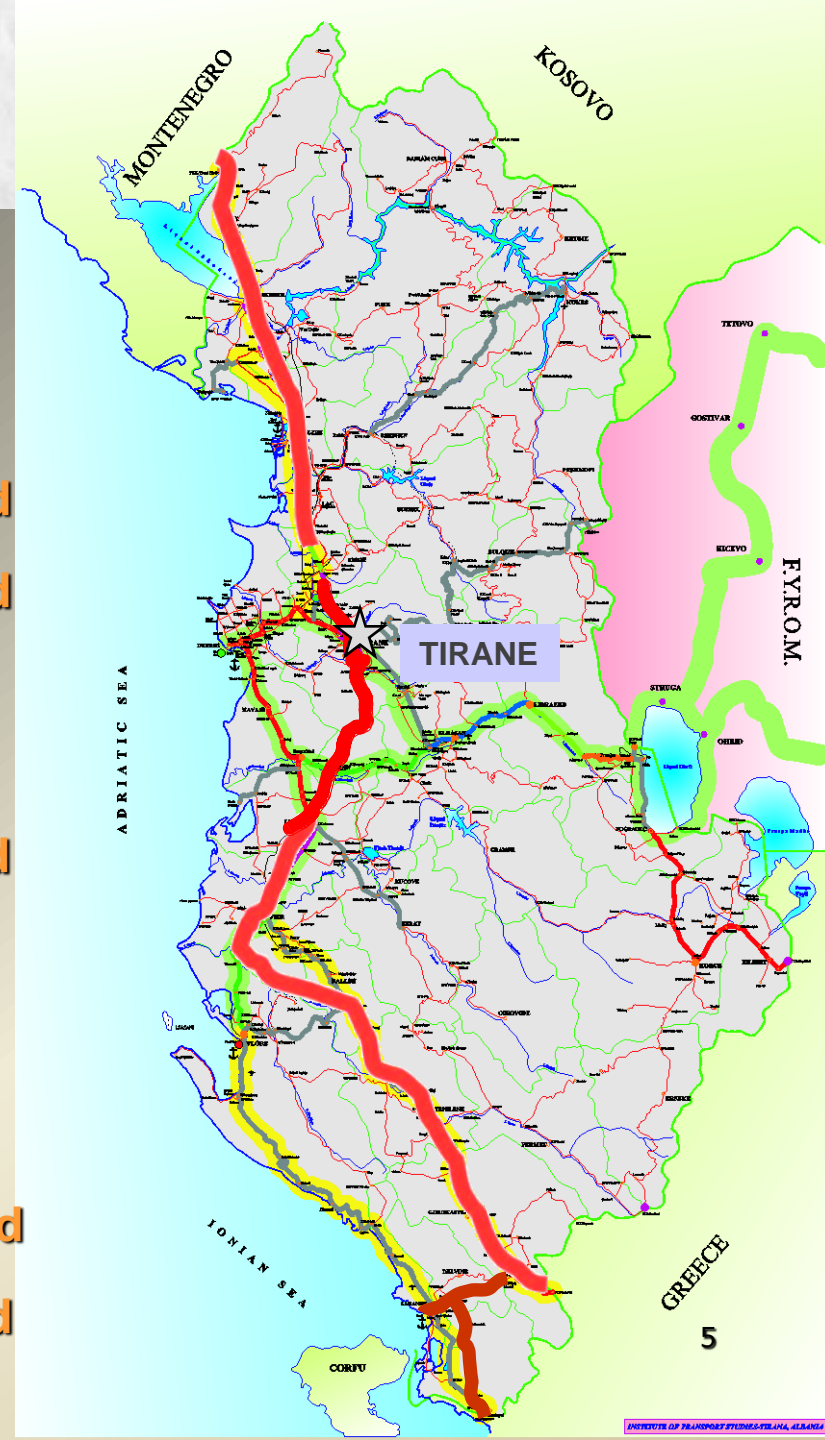
- **The main branch:**

Sarande-Konispol-Jergucat
(72 km)



NORTH - SOUTH CORRIDOR

- Hani Hotit-Shkoder 41 km-will be completed(2012)
- Shkoder-Lezhe 32 km-completed
- Lezhe-Milot-F Kruje 35 km-completed
- Thumane-Rrogozhine (BOT) 64 km-tender procedures for BOT
- Rrogozhine-Lushnje 12 km-completed
- Lushnje-Fier 26 km-completed
- Fier-Levan-Tepelene 72 km-2012
- Tepelene-Gjirokaster 28 km-completed
- Gjirokaster-Kakavie 29 km-completed
- Jorguc-Sarande-Konis 72 km tend proced



EAST-WEST CORRIDOR (Part of 8th Paneuropean Corridor)

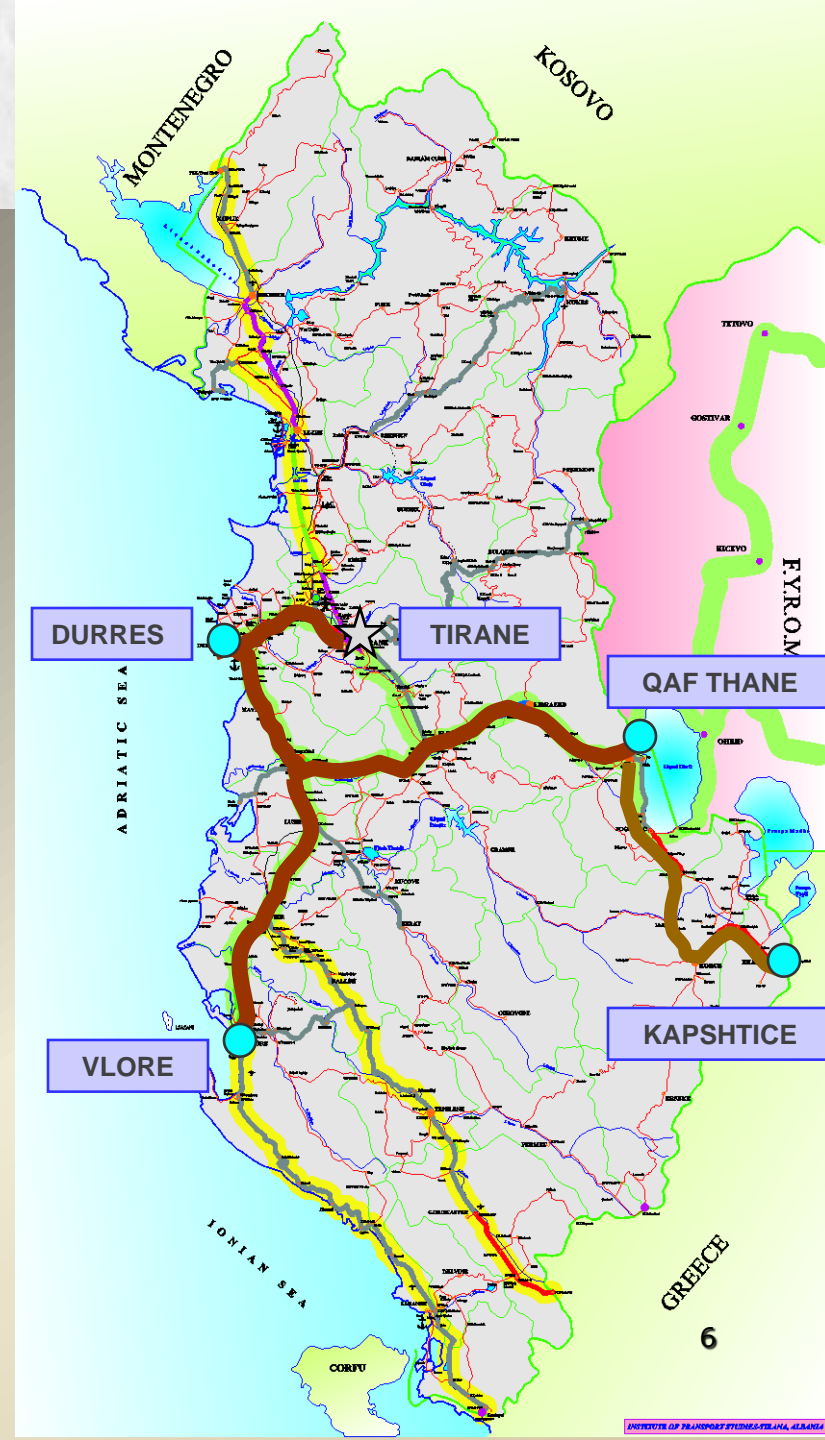
- First Main section (First phase-single carriageway)

Durres-Tirane-Rrogozhine-Elbasan-
Qafe Thane (183 km)

- Second Main Section (double carriageway) Vlore-Fier-Lushnje-Rrogozhine (77 km)

- Branches:

Qafe Thane-Pogradec-Korce-Kapshtice
(96 km)



8th PANEUROPEAN CORRIDOR

Infrastructure Steering Group
 Map of ongoing Regional Transport Projects in South East Europe
 DRAFT - June 2003



8th CORRIDOR in ALBANIA

TIRANE - DURRES Section

- 34 km
- double carriageway



8th CORRIDOR in ALBANIA

DURRES - RROGOZHINE Section

- 33 km
- single carriageway, under construction to become double carriageway



8th CORRIDOR in ALBANIA

RROGOZHINE – LUSHNJE

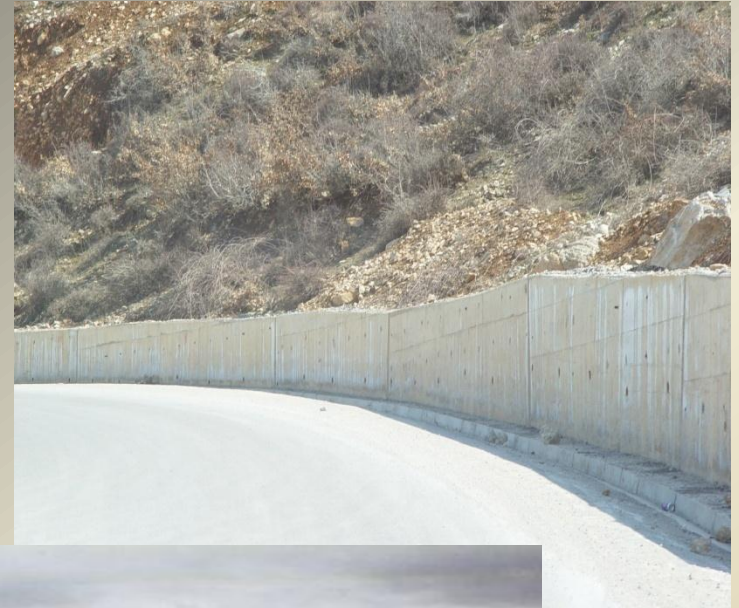
- 18 km
- 4 lanes (double carriageway)



8th CORRIDOR in ALBANIA

RROGOZHINE – ELBASAN

- 45 km
- single carriageway



8th CORRIDOR in ALBANIA

QUKES – QAFE THANE

- 20 km
- single carriageway



8th CORRIDOR in ALBANIA

LIBRAZHD-QUKES

- 21 km
- single carriageway



8th CORRIDOR in ALBANIA

KORCE – KAPSHTICE

- 36 km
- single carriageway



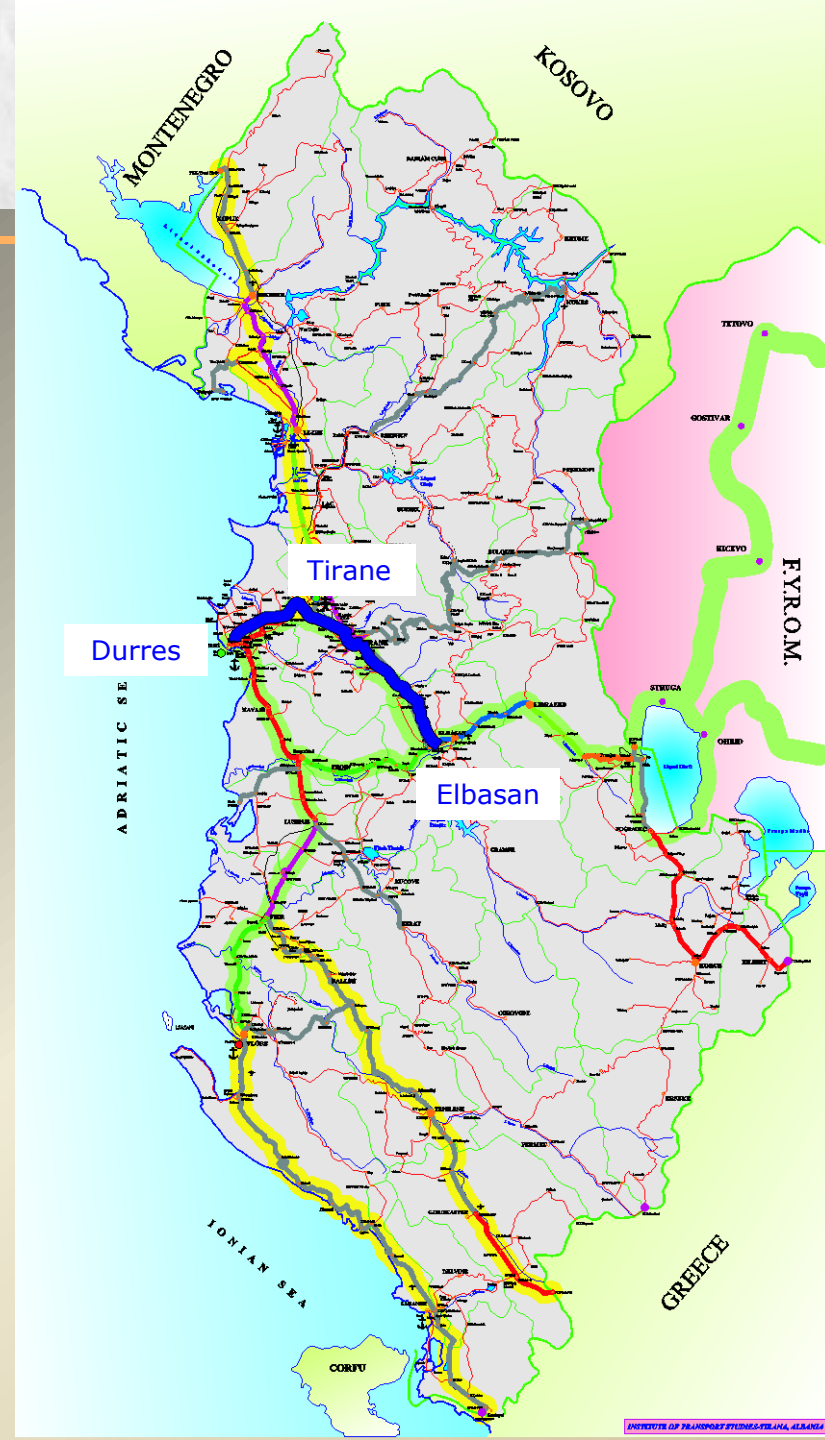
Durres-Tirane-Elbasan Motorway

DURRES-TIRANE (Future Plan)

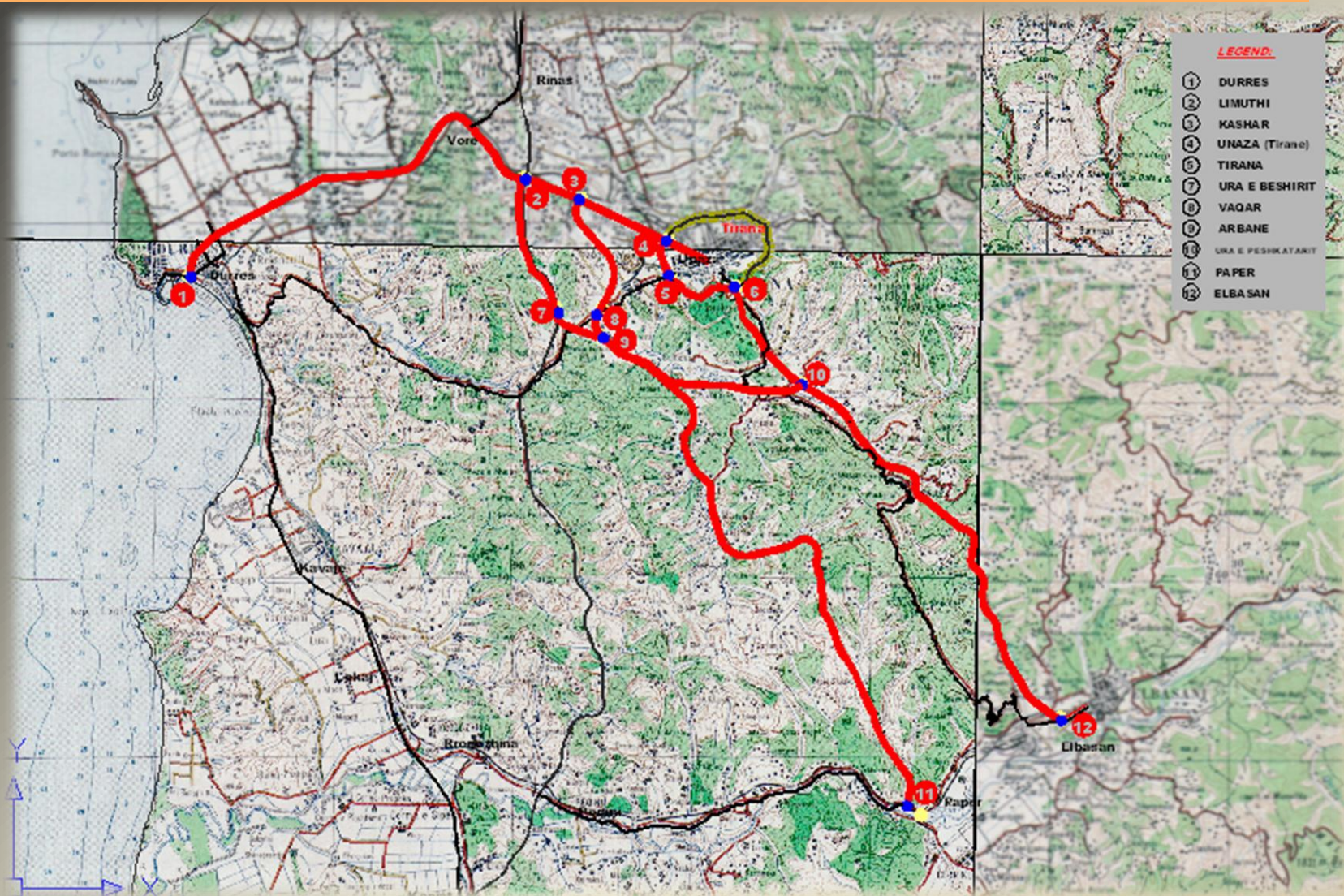
- 36 km (30 km new construction)
- Becoming Toll Motorway 6 (3X3) lanes Motorway
- Estimated construction cost: 150 Mio EUR

TIRANE-ELBASAN (under construction)

- 39 km (32 km new construction)
- 4 (2x2) lanes Motorway
- Estimated construction cost 320 Mio EUR
- Double tunnel 2.4x2, the main construction



Durres-Tirane-Elbasan Motorway (Alternatives)



TIRANE – ELBASAN – BERAT – MEMALIAJ (South central axis)



TIRANE-ELBASAN-BERAT-MEMALIAJ

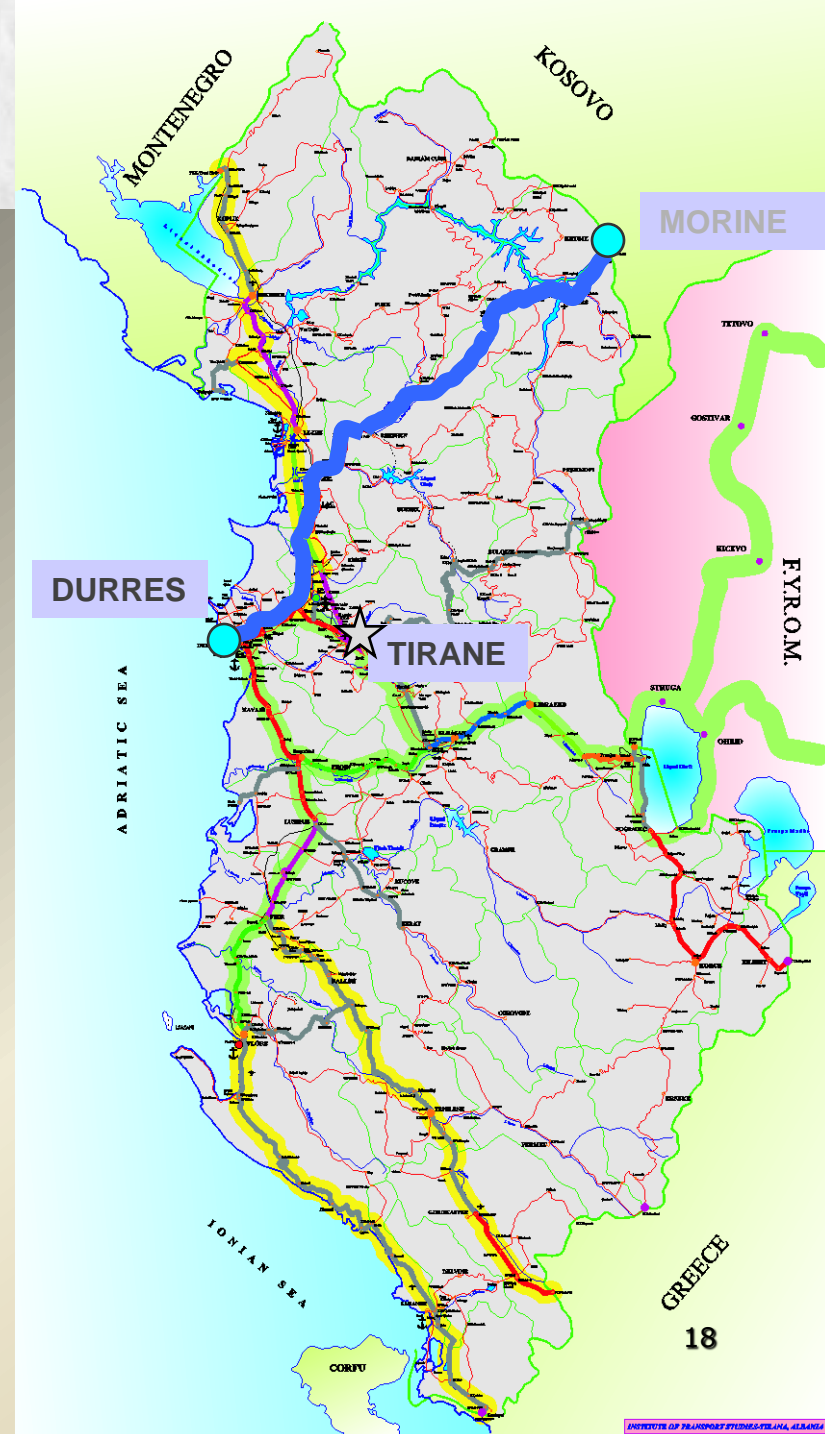
New Corridor – 135 Km

- Tirana-Elbasan, full motorway, in Construction stage
- Elbasan-Ura Vajguore, in design process
- Ura Vajguore-Berat-Memaliaj, under Feasibility study and design process
- Estimated construction cost not yet available

KOSOVO CORRIDOR (Durrës-Milot-Morinë 169 km)

Full 4 Lane Motorway

1. Durrës-Milot existing highway-59 km
2. Milot-Rreshen 26 km completed single carriageway (World Bank financed)
3. Rreshen-Kalimash 55 km completed double carriageway (GOA financed)
4. Kalimash-Morinë 29 km completed (some civil works remain) (GOA financed)



**8th CORRIDOR AND
DURRES-MORINE MOTORWAY**



Corridor no 8

Corridor no 10

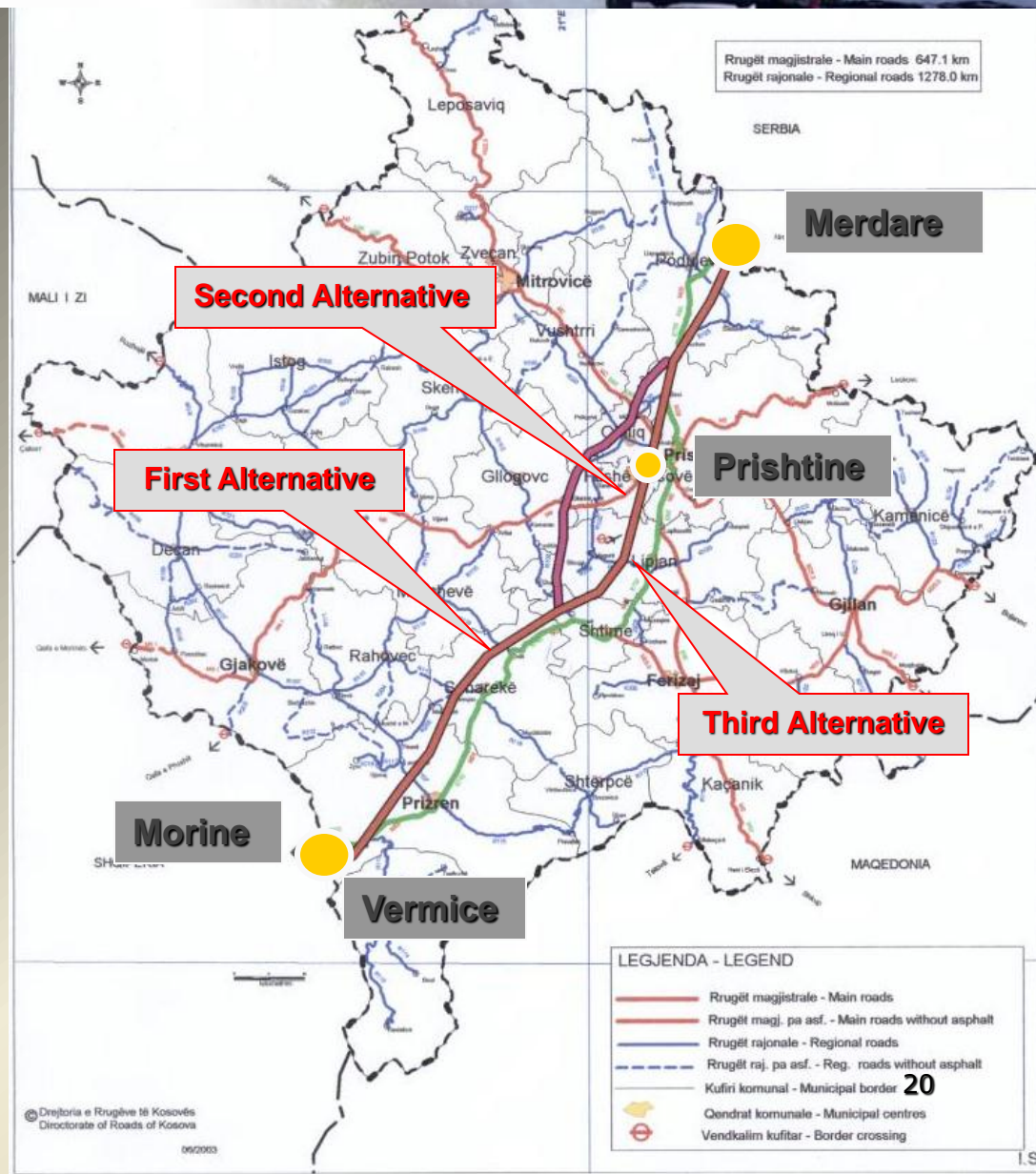
DURRES-MORINE CORRIDOR IN REGIONAL PLAN

4 lane MOTORWAY
(117 km long)

**MERDARE - PRISHTINE-
PRIZREN – VERMICE**

37 km all ready finished
80 KM under construction

- Feasibility study (financed by W Bank)-2006
- Detailed design (financed by Gov of Kosovo)-2003/06



DURRES-MORINE CORRIDOR



Investment of nearly 1.0 Billion Eur



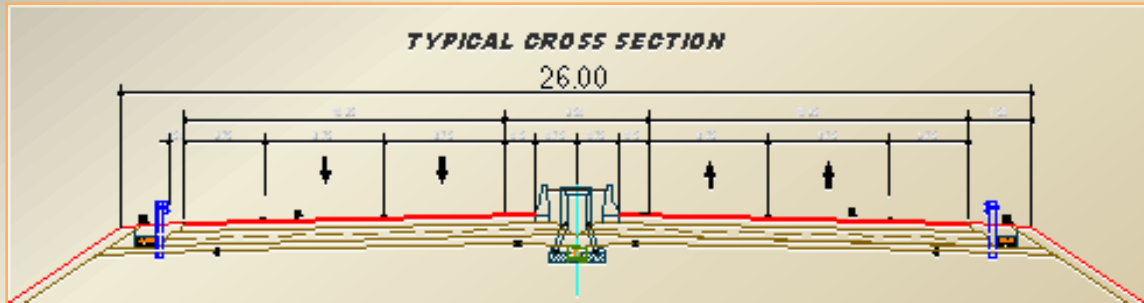
DURRES-MORINE CORRIDOR



DURRES-MORINE CORRIDOR



**5.6 km Long
Double Tube Tunnel**



CORRIDOR OF ARBERIT ROAD

Arberit Highway - 72,6 km long

Main Section:

Tirane-Shupal-Qaf Murrize-Ura Vashes-
Plani Bardhe-Bulqize-Ura Cerenecit-
Gjorice-Diber

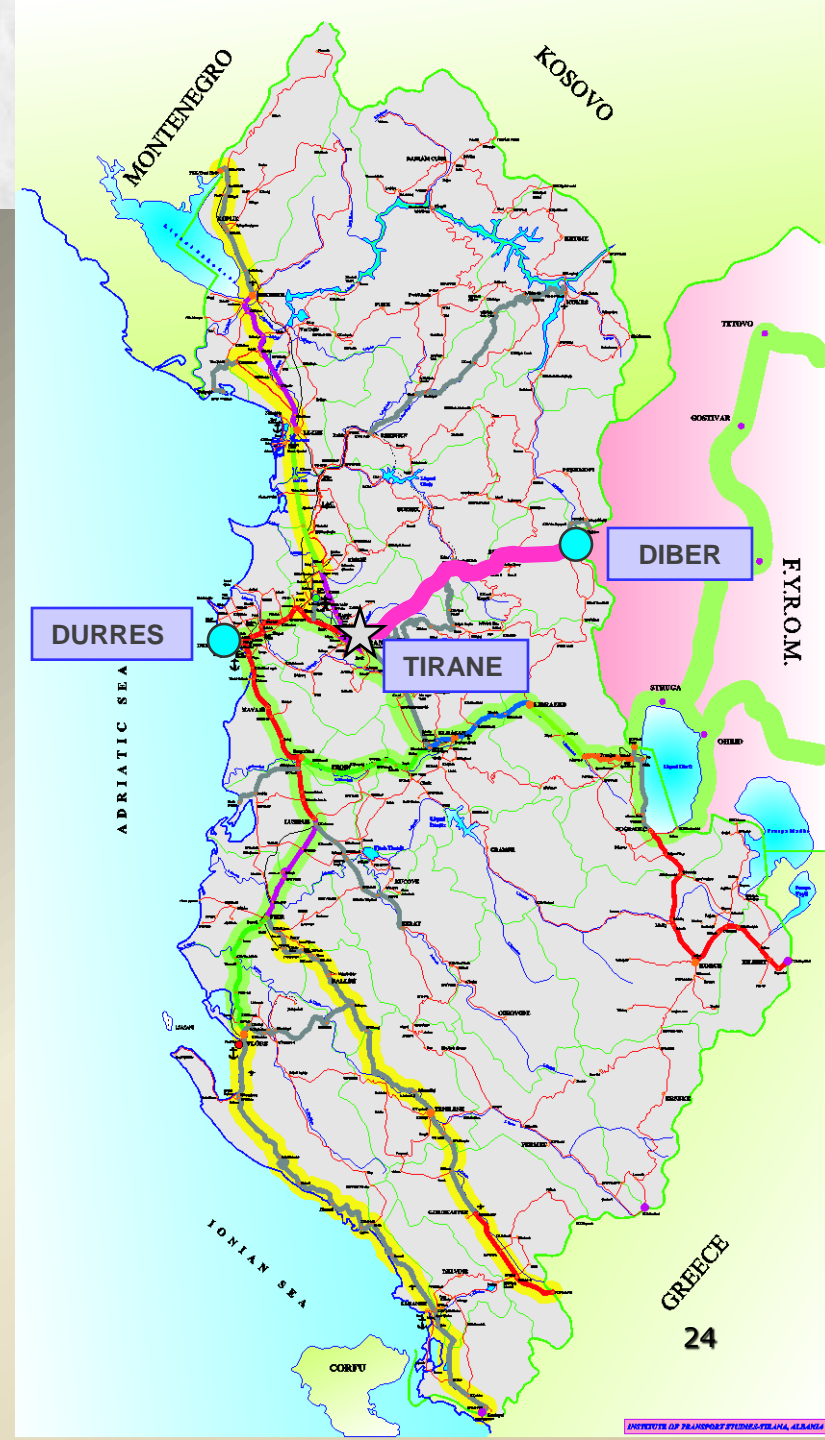
(Border with Macedonia)

(72.6 km)

Branches:

Ura Cerenecit-Shupenze-Ura Topojanit-
Maqellare-Bllate

(15 km)



ROAD OF ARBERIT

Branch of 8th CORRIDOR

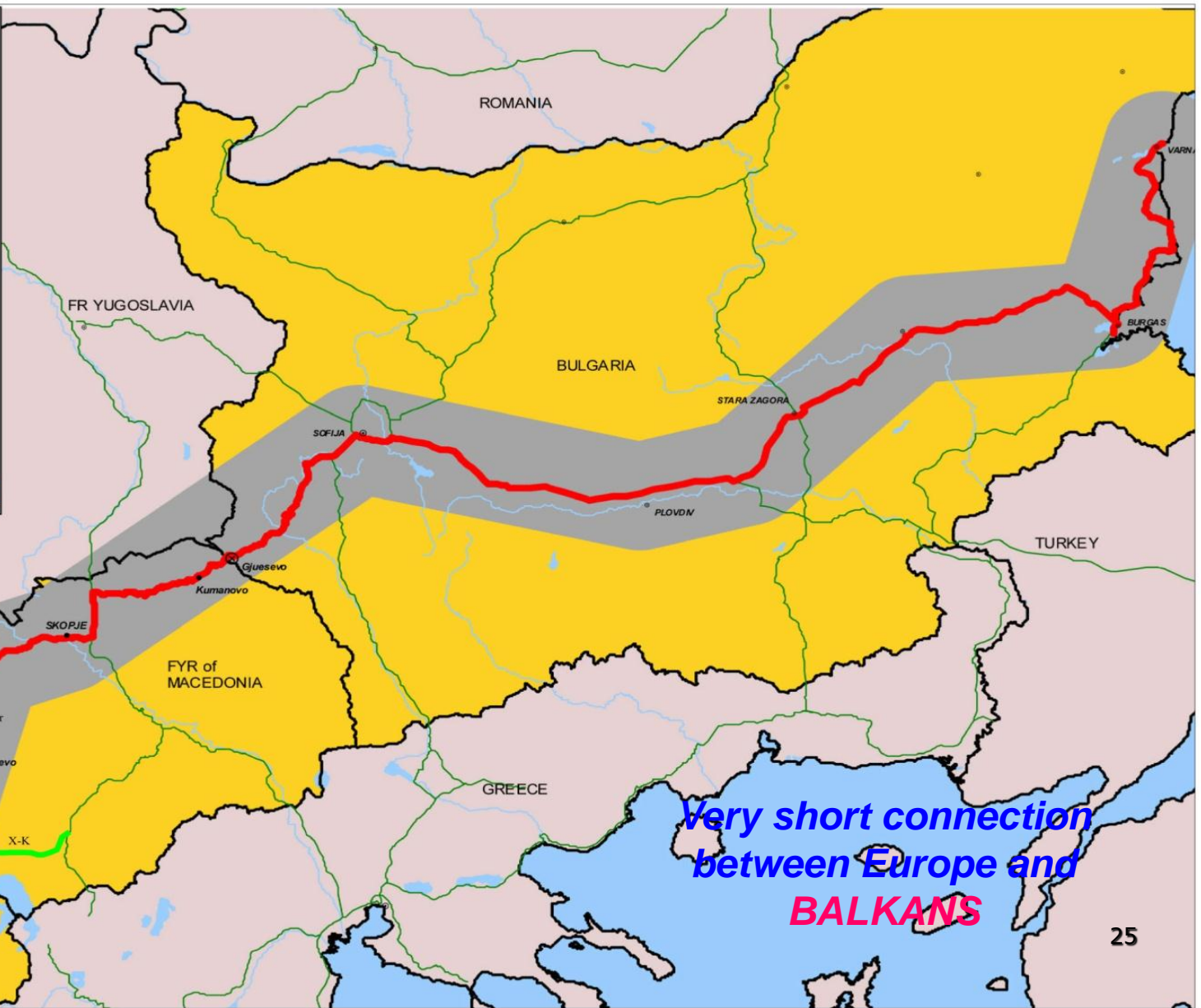


CORRIDOR VIII ROAD NETWORK

- Corridor VIII
- Corridor VIII Road Present Alignment
- Pan-European Transport Networks (TEN, TINA, Corridors)
- Cities (> than 100.000 inhab.)
- Rivers, Sea
- National boundaries
- Corridor VIII Countries
- Other Countries

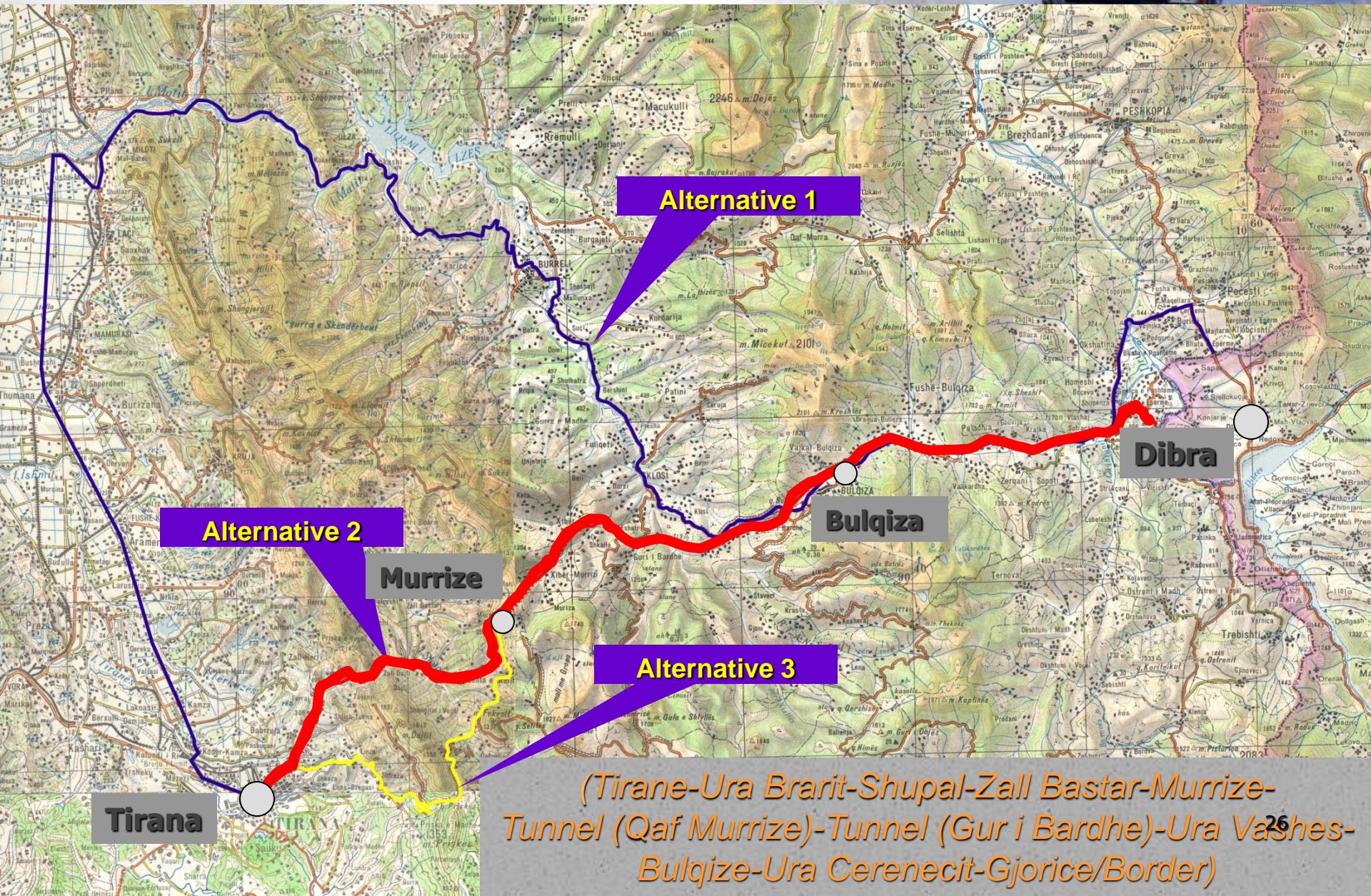
© Copyright The European Commission
TINA VIENNA - Transport Strategies, March 2002

TINA



Very short connection
between Europe and
BALKANS

ALTERNATIVES of ROAD of ARBERI



Alternative 1

Alternative 2

Alternative 3

Tirana

Murrize

Bulqiza

Dibra

(Tirane-Ura Brarit-Shupal-Zall Bastar-Murrize-Tunnel (Qaf Murrize)-Tunnel (Gur i Bardhe)-Ura Vashes-Bulqize-Ura Cerenecit-Gjorice/Border)

PROJECT OF ARBERI ROAD

(The main issues)



- Total Length

(Tirane-Gjorice/Border): 72.6 km

- Width 10.5m

- Total Construction Cost

Around 300 Mio Eur

- Cost/km:

4.13 Mio Eur/km

TRANSPORT DEMANDS AND NATIONAL CHARACTERISTICS

- Population: 3.4 Mio (yearly increase = 0.6%)
- Heterogeneous development: *3 different development prospective zones:*
 - *High (Tirane - Durrës Region): 7% of GDP, yearly increasing rate*
 - *Medium (Sea Zone + Elbasan District): 6% of GDP, yearly increasing rate*
 - *Low (rest of Albania): 4% of GDP, yearly increasing rate.*
- International, regional and transit traffic
 - *Foreign Partners: Italy and Greece (in total 70%) + other EC countries (in total 20%)*
 - *Low rate of international and transit traffic increasing*
 - *New prospective after finishing of : North-South Corridor, East-West Corridor, Kosovo Corridor and ARBERIT Corridor*

ALBANIAN ROAD NETWORK



- Total road network length: **~ 18 000 km**
- Roads under Administration of Road Agency: **3 600 km**
- Roads under Administration of Local Government: **10 900 km**

3 400 Km – National Roads

10 740 Km – Other Roads

140 Km – Motorways

95 Km – Four lane facilities highways



ROAD NETWORK OF ALBANIA



ROADS IN POOR/BAD CONDITIONS:

- *15 % of national roads (2 200 km)*
- *35 % of rural roads (6 000 km)*
- *25 % of urban roads (1 800 km)*

In total 2600 km of roads in poor / bad conditions or
“unmaintenable”

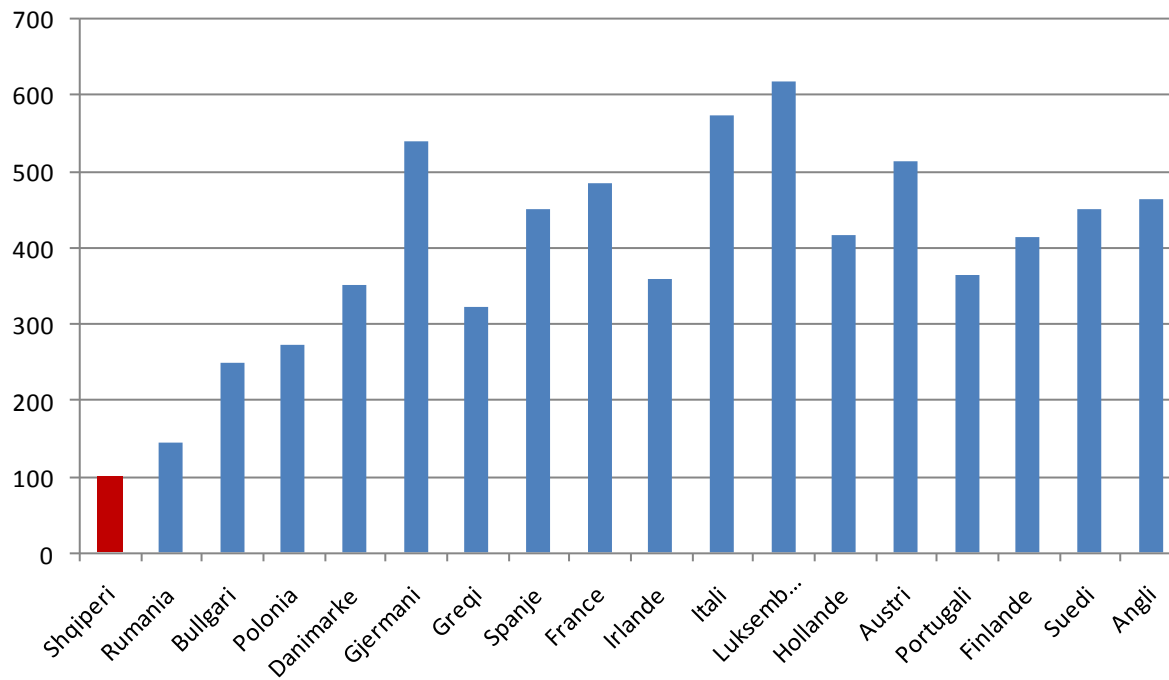
Traffic Volume:

- **North-South Corridor : *(Tirane-Durres) 36 000 - 28 000 AADT***
(Tirane-Durres road)
- **East-West Corridor: *from 3 100 to 8 200 AADT***

COMPARING WITH EUROPEAN COUNTRIES



No. of vehicles / 000 inhabitants





- ⇒ How many kilometers of **Motorway** should we have?
- ⇒ How many kilometers of **Cat Ist** and **IInd** should we have?
- ⇒ How many kilometers of **Cat IIIrd** and **IInd** should we have?

MOTORWAYS



MALËSI E MADHËTROPOJË



No	Emerimi i sek. rrugor autostra	Gjatesi ne Km	Kushtimi ne / Mio€uro	Ndertuar ose jo	Viti i ndertim.	Mundesia per koncesion	Totali per financim nga shteti Km/ MIO €uro
1	Shkoder-Lezhe	35	75	~1/2	2015	Financuar	35/75
2	Lezhe-Velipoje	28	100	-	-	Koncesion ose PPP	-
3	Thumane-Lezhe	22	44	~ 1/2	?	-	-
4	Thumane-Rrogozhine+Deg Tirane	73	320	-	?	Financuar	-
5	Rrogozhine-Lushnje	17	9	Ndertuar	2005	Financuar	-
6	Lushnje-Fier	28	24	Ne proces	2005/06	Financuar	-
7	Fier-Vlore	38	140	Vetem projekti	~	Koncesion ose PPP	-
8	Tirane-Durres	35	60	~1/2	~	Koncesion ose PPP	-
9	Koridori Durres (Milot)-Morine a)Milot-Rreshen b)Rreshen-Kalimash c)Kalimash-Morine	111 26 55 30	570 80 320 170	- - - -	2005/09	Financuar	- - -
10	Rrogozhine-Qaf Thane	113	600	-	?	Koncesion ose PPP	-
11	Tirane-Tapize	7	40	-	?	Koncesion ose PPP	-
TOTALI:		KM 507					Km 35/ M Euro 75

Ist and IInd CATEGORY ROADS



No	Emerimi i seksionit rrugor	Gjatesi ne Km	Kushtimi ne / Mio Euro	Ndertuar ose jo	Parashikimi i ndertimit, viti	Mundesia koncesion	Totali per financim nga shteti Km/ MIO Euro
1	Shkoder-HaniHotit	35	35	Jo	2007	Financuar	Coop It
2	Tirane-Elbasan	42	130	Jo	~	Koncesion ose PPP	-
3	Tirane-Diber	73	120	-	~	Pjeserisht financuar	-
4	Ndroq-Plepa	16	25	Jo	2009	-	16/25
5	Plepa-Rrogozhine	30	30	Po	-	Financuar	-
6	Rrogozh-Divjake	22	22	Po	2004/05	Ndertuar	-
7	Lushnje-Berat	39	45	Jo	2009/11	-	39/45
8	UraVajg-Kucove-Cerrik-Paper	44	28	Jo	2011/13	-	44/28
9	Qaf Thanë-Pogradec	32	32	Jo	2006/08	-	-
10	Pogradec-Korce	38	70	-	2008/09	Pjeserisht ndertuar	38/70
11	Korce-Kapeshtice	36	36	Po	-	Ndertuar	-
12	Rruga e Patokut	11	8	Po	2007/08	Ndertuar	?Banka Islamik
13	Rruga e Semanit	17	10	jo	2012	-	17/10
14	Fier(Levan)-Tepelene	65	70	jo	~	Financuar	Fin EIB
15	Tepelene-Gjirokaster	27	20	Po	2005	Ndertuar	Fin EIB
16	Gjirokast-Kakavie	31	25	Po	2003	Ndertuar	-
17	Vlore-Ura Palases	54	35	Po	-	Ndertuar	-
18	UraPalases-Sarande	76	80	Po	2006/10	Ndertuar	76/80
19	Muzine-Sarande	34	20	Jo	2008	-	?
20	Sarande-Konispol	40	25	Jo	~2013	Financuar	40/25
21	Vlore-Pocem-Povel	41	25	Jo	~2015	-	41/25
22	Fier-Patos	9	6	Jo	~2021	-	9/6
TOTALI:		Km 812					Km320/M Euro 314

IIIrd CATEGORY ROADS



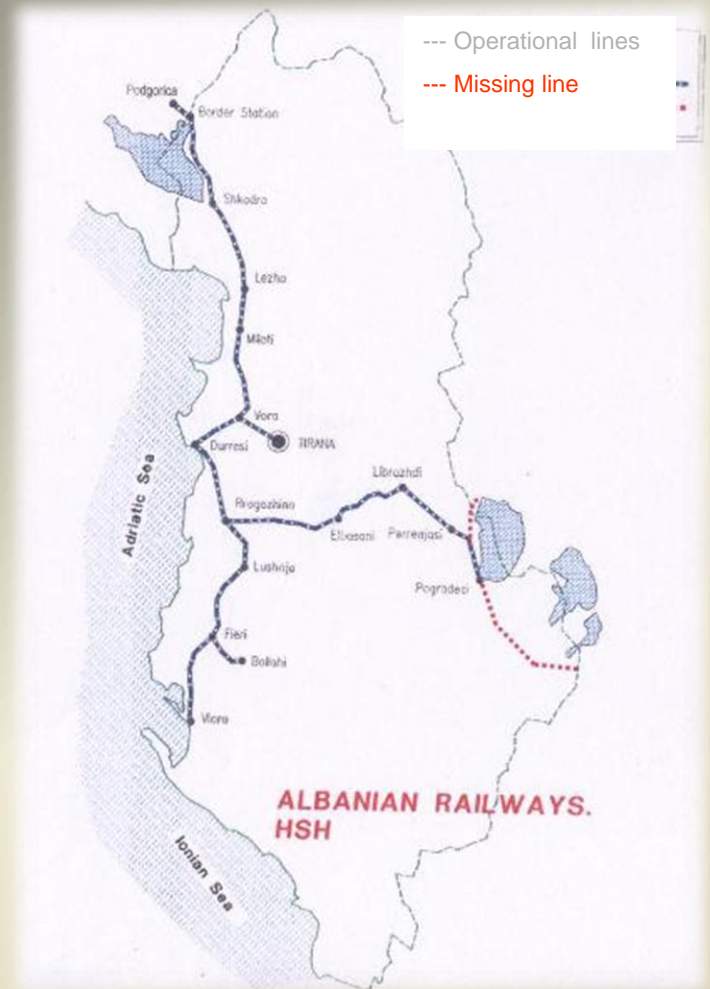
No	Emerimi i seksionit rrugor	Gjatesi Km	Kushti mi ne / Mio €uro	Ndertuar ose jo	Viti i nderti mit	Totali per finan nga shteti/Km /MIO€uro
1	Shkoder-Muriqan	13	6	Po	2004	
2	Shkoder-Koman-B.Curri-QafMorine	125	95	Jo	2016	125/95
3	VauDejes-Puke	35	21	Jo	200?	35/21
4	FushKruje-Kruje	11	5	Proçes	2009	11/5
5	Kukes-Krume-B.Curri	102	50	Jo	2018	102/50
6	Kukes-Peshkopi	83	40	Proces	2020	83/40
7	Rreshen-Burrel-Klos	54	24	Jo	2019	54/24
8	Librazhd-Strebleve-Ura Cerencit	70	35	Proces	2012	70/35
9	Elbasan-Gramsh-Maliq	120	75	Jo	2023	120/75
10	Korce-Erseke-TreUrat-Permet-Tepelene	167	85	Proces	2017	167/85
11	Berat- Memaliaj	55	42	Jo	2021	55/42
12	Berat-Çorovode	48		Proces	?	
13	Vlore-Kuc-Borsh	84	60	Jo	2021	84/60
14	Gjirok(Kardhiq)-Skerfices-Delvine	64	25	Proces	?	64/25
	<i>Totali:</i>	1021				36 Km 903/M Euro 559

RAILWAY NETWORK



Infrastructure Indicators

- **Length of main line** **447 km**
- **Length of secondary line** **230 km**
- **Border Station** **BAJZA**
- **Terminal Stations** **Pogradec, Vlore**
- **Maximum gradient** **18 %**
- **Gauge** **1435 mm**



ALBANIAN RAILWAYS DATA



- *Passenger transport :* **1.5 mln / year**
- *Freight transport :* **0.4 mln ton / year**
- *Locomotives :* **25 units**
- *Passenger coaches :* **66 units**
- *Freight wagons :* **225 units**

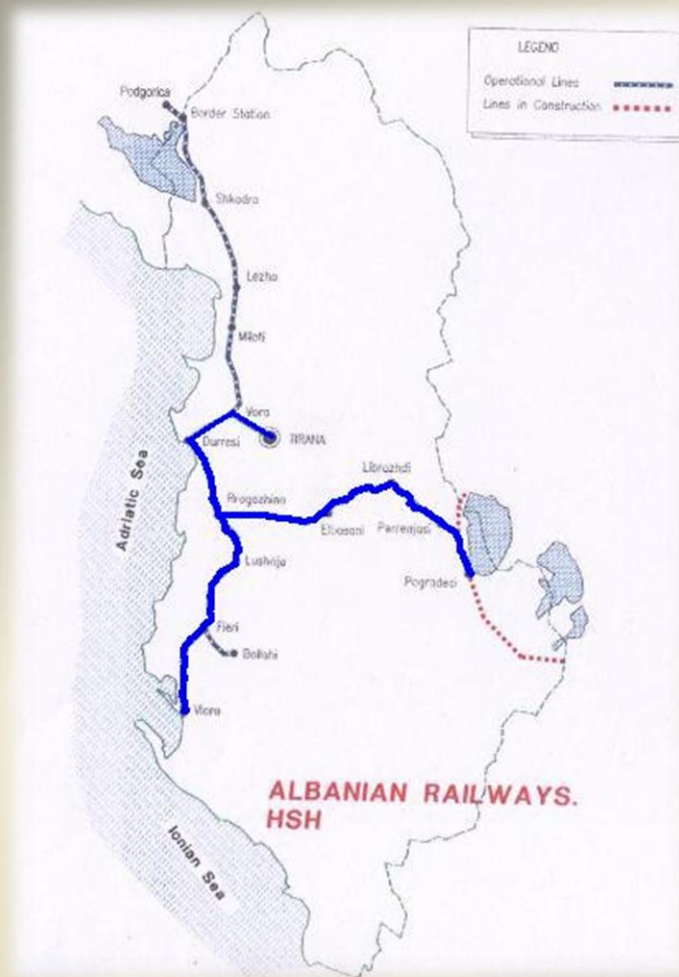
PRIORITY PROJECTS REQUIRING FINANCING

CORRIDOR VIII

MODERNISATION OF EXISTING LINE

DURRES-VLORE
RROGOZHINE-POGRADEC

LENGTH : 230 KM



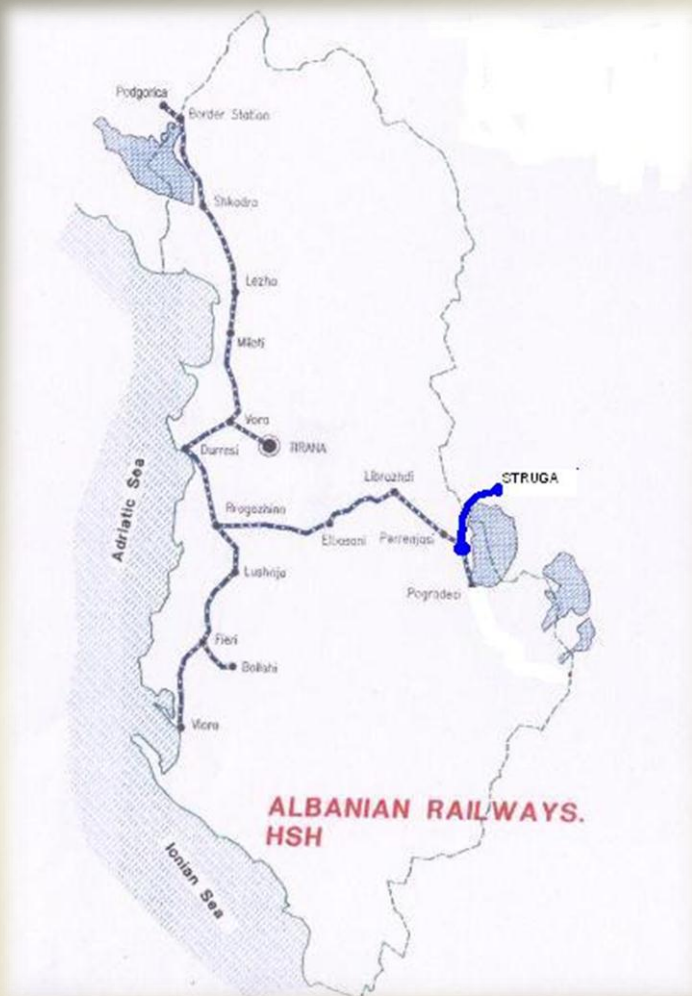
PRIORITY PROJECTS REQUIRING FINANCING

CORRIDOR VIII

CONSTRUCTION OF A NEW RAILWAY LINE

LIN-STATE BORDER to Republic of MACEDONIA

LENGTH : 2.8 KM
COST : 10 MLN EUR

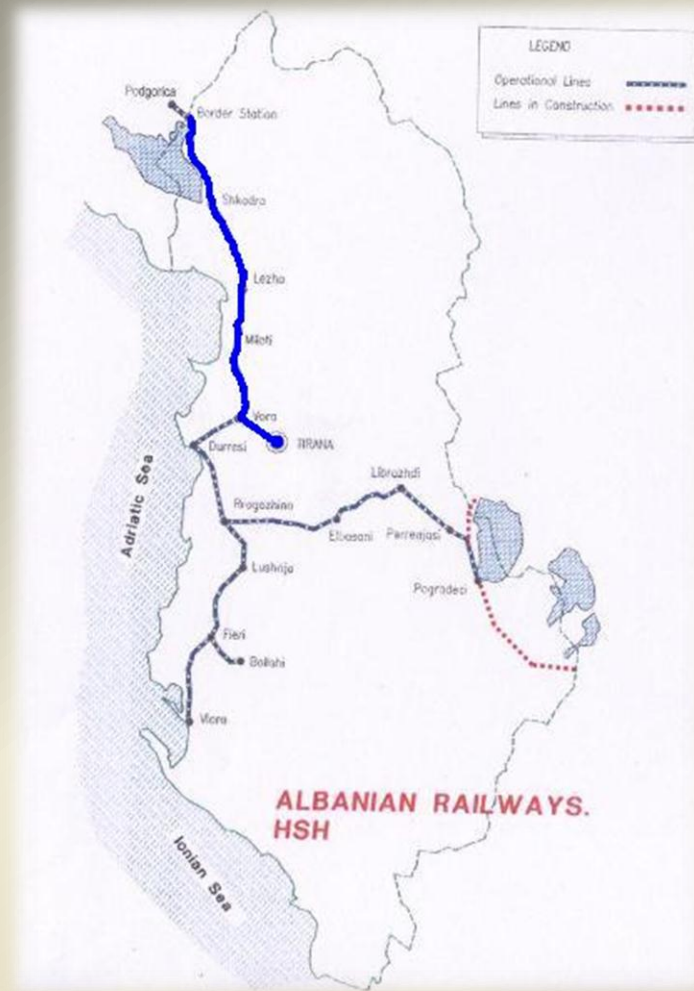


PRIORITY PROJECTS REQUIRING FINANCING

MODERNISATION OF EXISTING LINE

TIRANE-BAJZE
STATE BORDER to Montenegro

Length : 140 KM



PORTS AND WATER TRANSPORT

(The main issues)

- Albania have a sea shore line of 320 km long and 4 main frights and passengers Ports under the authority of Ministry of PWT&T

- One main Port: Durres(78% of total transport volume)

- 90 % imports and 10% exports

Transportation (cargo) volume for 4 Ports in Tons, 1999-2003

	Year				
	1999	2000	2001	2002	2003
Port of Durres					
Imports	1.448.677	1.614.337	1.809.300	2.041.216	2.427.708
Exports	108.540	131.500	149.713	136.908	243.413
TOTAL	1.557.217	1745.917	1.959.013	2.178.124	2.671.121
Port of Vlora					
Imports	366.826	526.700	591.800	496.400	331.100
Exports	0	0	0	7.000	21.400
TOTAL	366.826	526.700	591.800	503.470	352.300
Port of Shengjin					
Imports	175.400	227.700	255.500	344.230	306.900
Exports	7.700	4.500	6.900	2.600	9.900
TOTAL	183.100	232.200	362.400	346.830	316.800
Port of Saranda					
Imports	47.200	60.400	51.600	60.630	82.100
Exports	0	0	0	0	0
TOTAL	47.200	60.400	51.600	60.630	82.100

PORTS AND WATER TRANSPORT

(The main issues)



- **Specialization of the 4 main Ports:**

- ❖ *Durres:* *Containers and the main Terminal for frights and passengers*
- ❖ *Vlora:* *Petrol and industrial products oriented (AMBO Project)*
- ❖ *Saranda:* *Tourist Port oriented*
- ❖ *Shengjin:* *Fishing Port oriented*

- **Development for the Management and Maintenance Systems of Infrastructure and Equipments**

SEA PORTS

Shengjin

SEA PORTS

- *Durres*
- *Vlora*
- *Shengjin*
- *Saranda*

Durres

Vlora

Saranda



DURRES PORT



- The main Gate of 8th Pan-European Corridor
- Multi-Modal Containers Terminal
- Construction of Quays in Ferries Terminal



DURRES PORT

The main and biggest Port in Albania and the gateway of Corridor no. 8th

It's situated in SW part of the city of Duress and 36 km West of Tirana.

DPA is a joint stock Company Where 100% of shares belong to the government.

- The port has 11 wharfs**
- Road and Railway access**
- Water area**
- Land area**
- Length of the quay**
- Water Depth in the basin**
- Cargo volume over**

67 Ha

80 Ha

2.2 km

7.5 - 11.5 m

3 Mio Ton/Year

PASSANGERS TERMINAL IN DURRES PORT



Total Construction Cost

- 21 Mio EUR

Financing

- EIB & EBRD

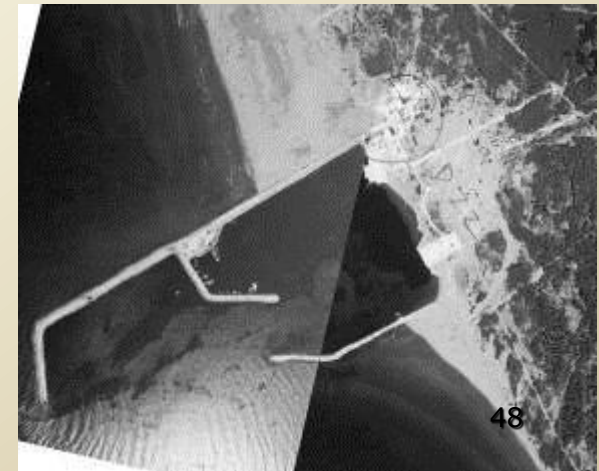


VLORA SEAPORT

- Gate of 8th Pan-European Corridor

Implementation of Master plan of Vlora Port:

- Construction of ferry terminal
- Construction of cargo pier
- Construction of port superstructure
- Overall cost of Master plan 31 Mio Euro.
- Italian Cooperation 15,3 Mio Euro



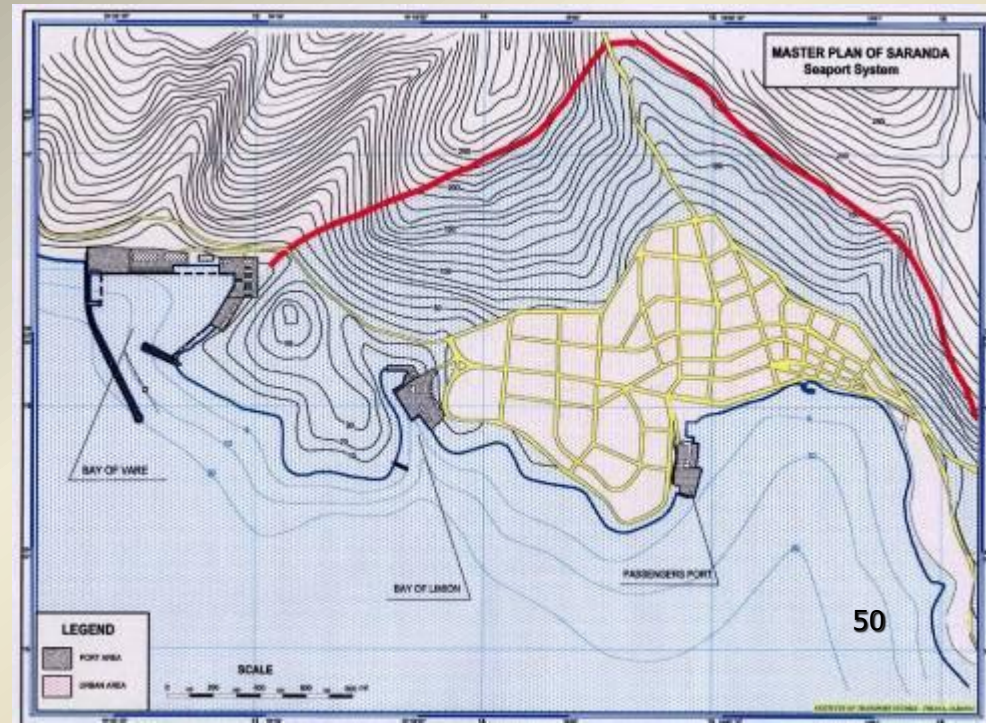
SHENGJIN SEAPORT

- Master Plan financed by WB
- Rehabilitation of Port financed by GOA



SARANDA SEAPORT

- Tourism Oriented Priority
- Master Plan financed by WB



CIVIL AVIATION AND AIRPORTS



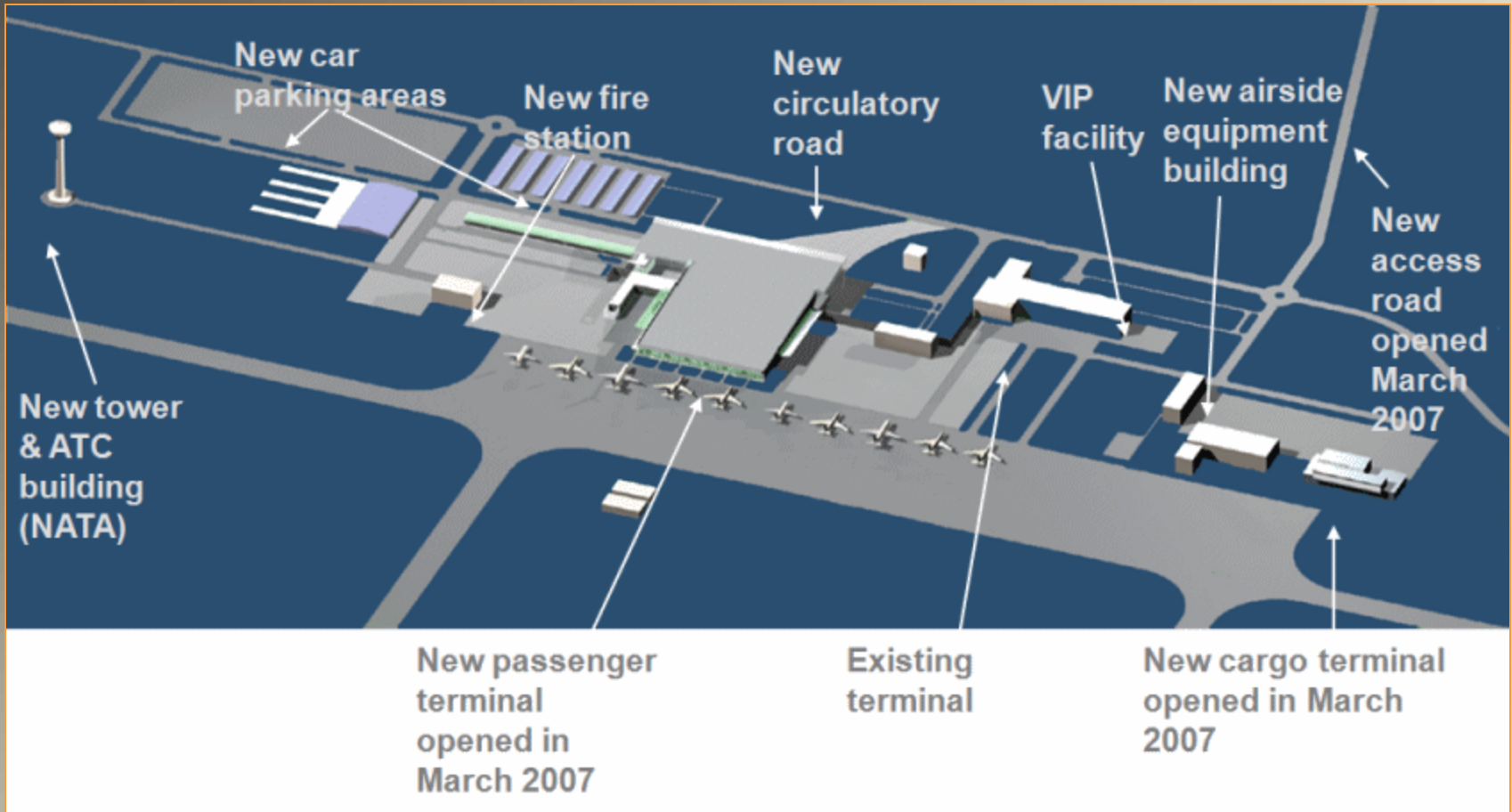
Infrastructure and facilities:

- *Tirana International Airport*
- *BOT Concession to a German Concessionaire, since 2004. There were 600 000 passengers during 2004*
- *New modern Terminal for 3 Million passengers/year, foreseen up to 2024*
- *Only during 2007 were 1,1 Million passengers*
- *Another new Airport in Kukes (North Albania)*
- *No regular internal civil aviation service*

Traffic:

- *~ 9 times more passengers/year than 12 years ago*
- *more than 60 flights/day*
- *10 Italian cities with direct connection*

CIVIL AVIATION AND AIRPORTS



CIVIL AVIATION AND AIRPORTS



TRANSPORT INFRASTRUCTURE MODERNISATION CHALLENGE FOR ALBANIA



Thank you!