

REPUBLIC OF TURKEY MINISTRY OF TRANSPORT, MARITIME AFFAIRS & COMMUNICATIONS GENERAL DIRECTORATE OF HIGHWAYS



PRIORITY ROAD INFRASTRUCTURE PROJECTS OF TURKEY

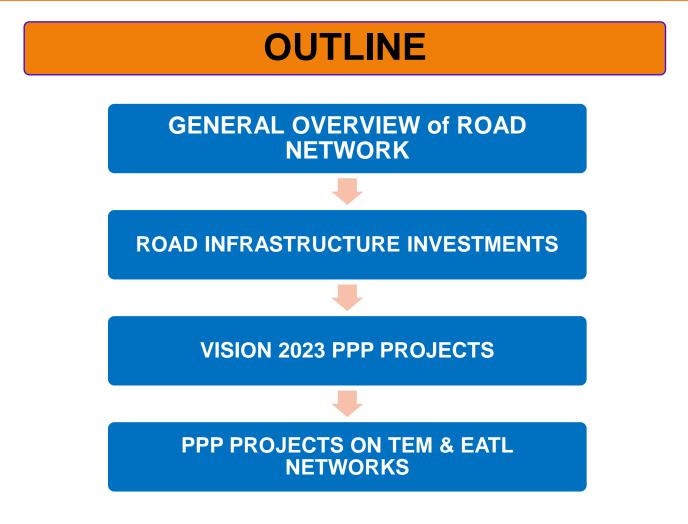
GENEVA, 10 Sep 2013

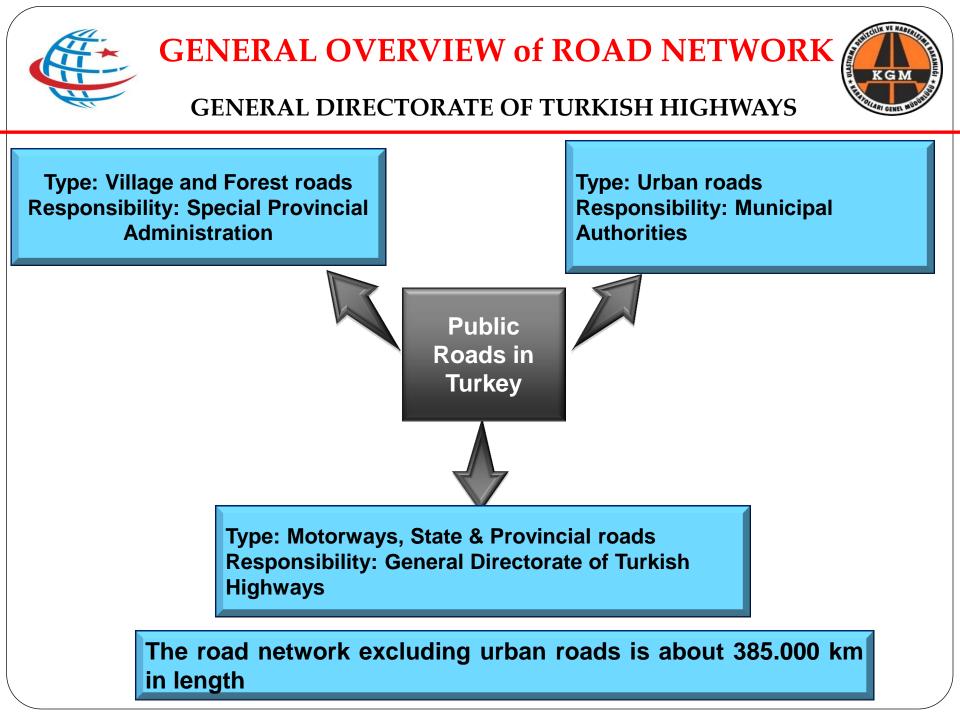


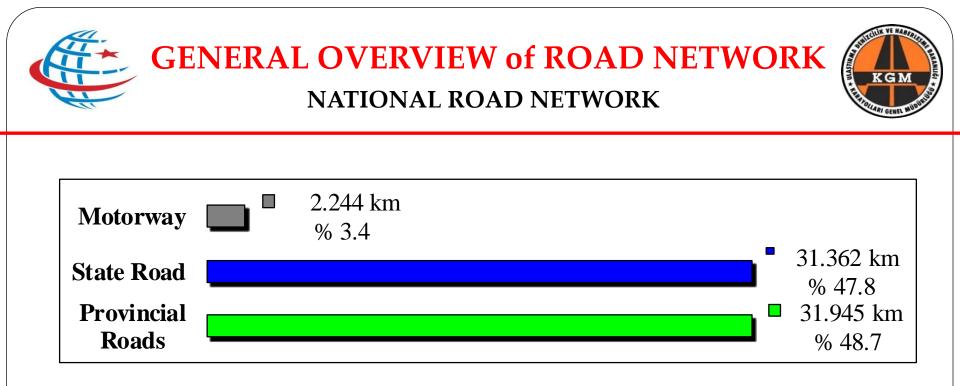
MINISTRY OF TRANSPORT MARITIME AFFAIRS AND COMMUNICATIONS



GENERAL DIRECTORATE OF HIGHWAYS







- The density of road network excluding urban roads is close to 50 km / 100 km²
- ➤ Total asset value of Motorway, State & Provincial Roads is approxiamately 62 Billion €
- > The density of motorways per 1000 km² is 2.85
- EU 15 average of 17 and the new EU members average of 2.7.

TOTAL NATIONAL ROAD NETWORK (KM): 65.551

ROAD NETWORK WITH DUAL CARRIAGEWAY (KM)				
TOTAL	22.396			



GENERAL OVERVIEW of ROAD NETWORK



NATIONAL ROAD NETWORK

Turkish Road Network under General Directorate of Turkish Highways' responsibility.



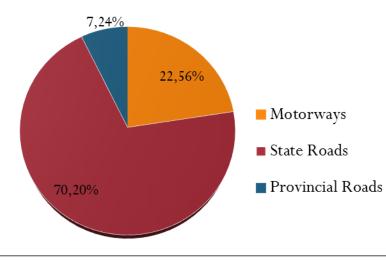
GENERAL OVERVIEW of ROAD NETWORK

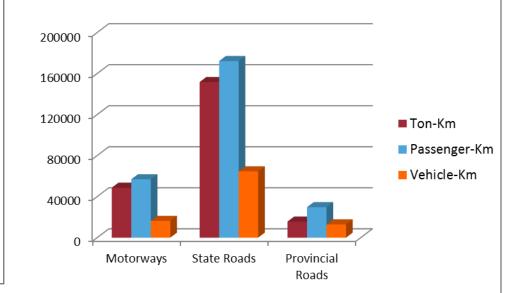


DOMESTIC PASSENGER AND FREIGHT ROAD TRANSPORT

	Passenger and Freight Road Transport-2012								
		Motorways		State Roads		Provincial Roads		TOTAL	
		(Million)	%	(Million)	%	(Million)	%	(Million)	%
-	Ton-Km	48 751	22,56	151 722	70,20	15650	7,24	216 123	100
	Passenger-Km	56 923	21,99	172 226	66,53	29725	11,48	258 874	100
	Vehicle-Km	16 379	17,42	64 661	68.80	12949	13,78	93 989	100

Freight Road Transport in 2012 (Ton-Km)

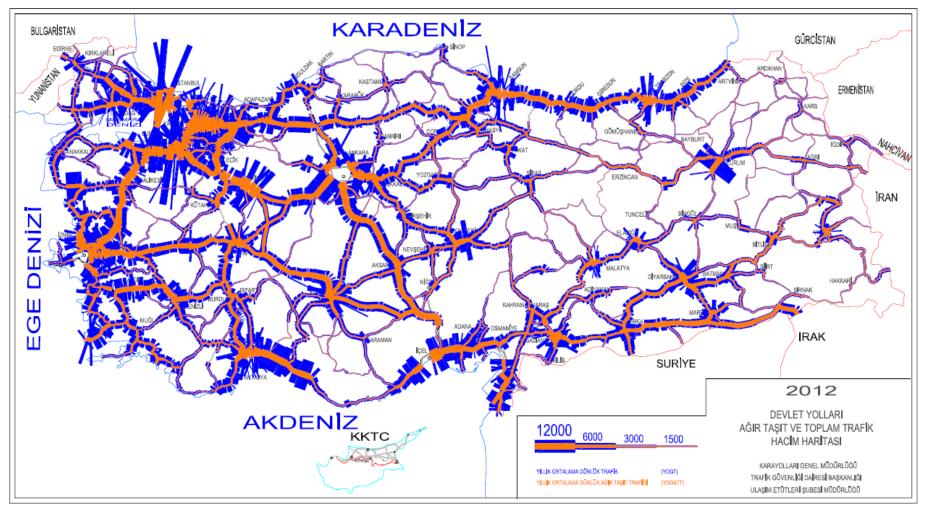




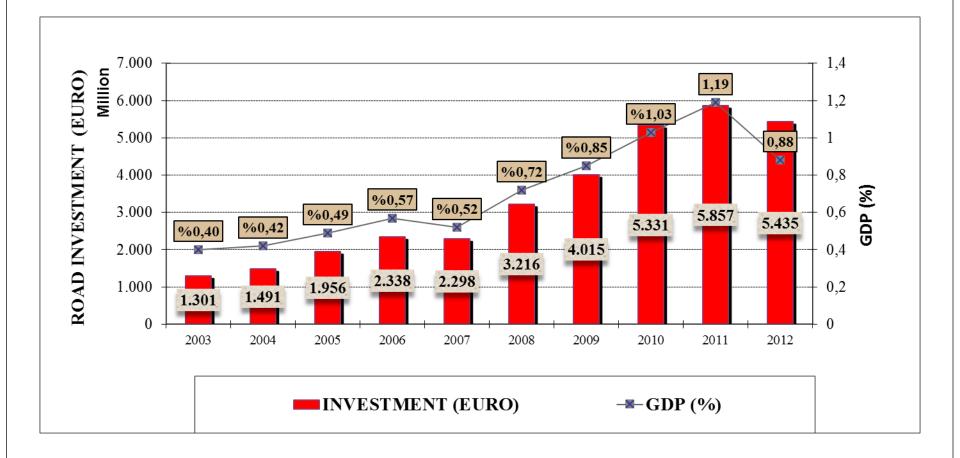
• Total 79 % increase in vehicle-km in the period of 2003 and 2012

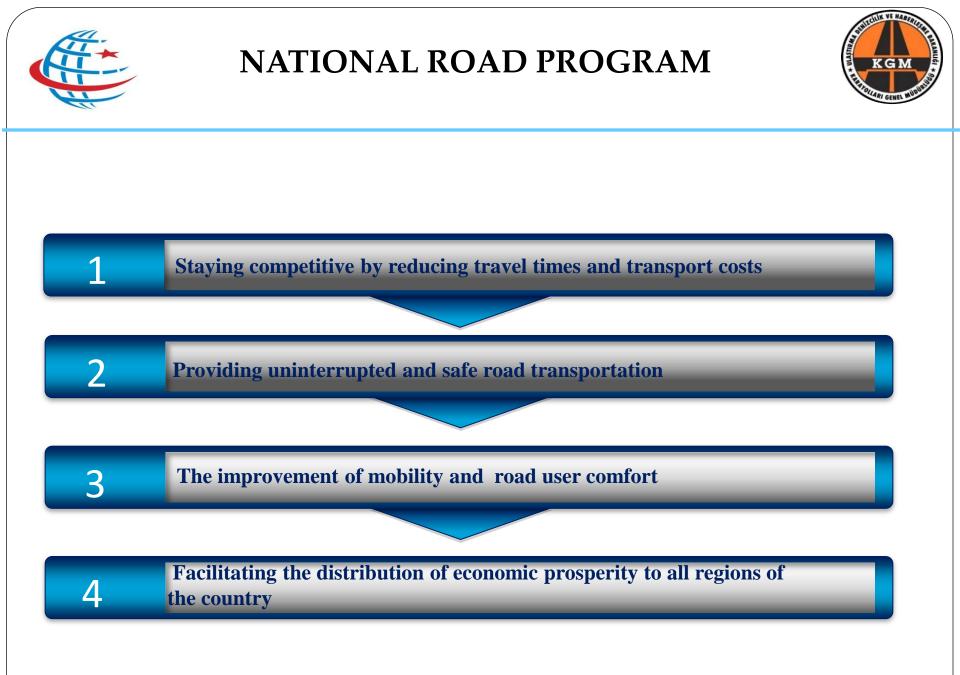


The percentage of heavy vehicles varies from 25 % to 50 % on Turkish Roads





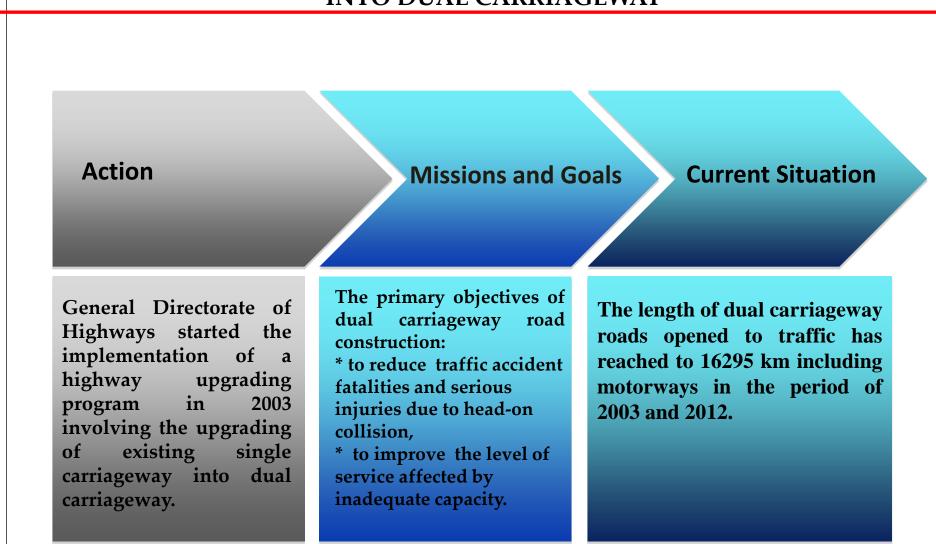


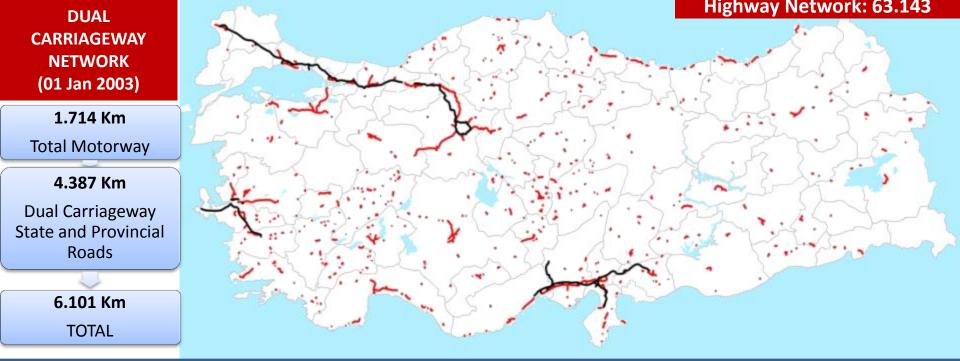




ROAD INFRASTRUCTURE INVESTMENTS CONVERSION OF SINGLE CARRIAGEWAY ROADS INTO DUAL CARRIAGEWAY









2.244 Km

Total Motorway

20.152 Km

Dual Carriageway State and Provincial Roads

> **22.396 Km** TOTAL





<u>D 300 HIGHWAY</u>: Çeşme-İzmir-Afyon-Konya-Nevşehir–Kayseri-Malatya-Elazığ-Bingöl-Muş-Bitlis-Van-Kapıköy Border Gate Total Length : 1920 km



	DUAL CARRIAGEWAY	SINGLE CARRIAGEWAY	TOTAL
IN OPERATION	8.299	524	8.823
UNDER CONSTRUCTION	1.251	224	1.475
WILL BE TENDERED	1.163	288	1.451
TOTAL	10.713	1.036	11.749



ROAD INFRASTRUCTURE INVESTMENTS MOTORWAYS



R Α G Е 0 R G AZERBAL SINOP 0 KIRKLARELİ GE ~ EDIRNE ARDAHAN ⊃ BG BARTIN ш G ZONGULDAK KASTAMONU SAMSUN ARTVIN 8 EE RİZE TRABZON G[€] GR ORDU AR KARABÜK KARS Kınalı Ayr. GIRESUN R TEKIRDAĞ IZMIT М ISTANBUL DÜZCE E YALOVA AMASYA BOLU CANKIRI ADAPAZARI GÜMÜŞHANE CORUM CANAKKALE ERZURUM IĞDIR NANCIZ BAYBURT TOKAT AĞRI BURSA BILECIK ANKARA YOZGAT ESKİŞEHİR ERZÍNCAN BALIKESIR KIRIKKALE SIVAS KÜTAHYA TUNCELI BINGÖL KIRŞEHİR P IR ELAZIĞ MUS VAN MANISA P UŞAK NEVSEHIR BITLIS KAYSER AFYON Z **IZMIR** AKSARAY MALATYA SIIRT DIYARBAKIR HAKKARI BATMAN AYDIN KONYA SIRNAK NIĞDE ADIYAMAN KEMERHISAR ISPARTA KAHRAMANMARAS DENIZLI BURDUR MARDIN Q POZANTI MUĞLA IRQ OSMANIYE **SANLIURFA** ADANA KARAMAN GAZIANTEP ANTALYA KILIS MERSIN MOTORWAY NETWORK ANTAKYA IN OPERATION..... 2244 KM



ROAD INFRASTRUCTURE INVESTMENTS MOTORWAYS



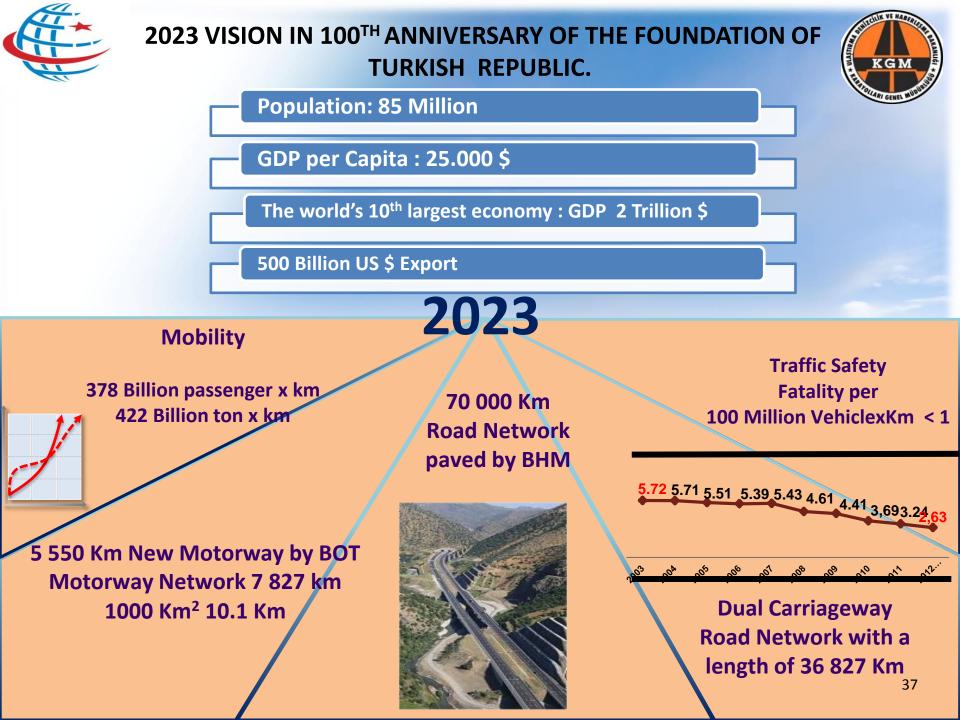














BUILD-OPERATE-TRANSFER PROJECTS 2023





YİD PROJELERİ KAPSAMINDA YAPIM ÇALIŞMALARINA BAŞLANAN PROJELER (KM)

1 -	Gebze-Orhangazi-İzmir Otoyolu .	421
2/a -	Kuzey Marmara Otoyolu /Odayeri-Paşaköy Kesimi (3.Bogaz Köp.Dahil)	95
3 -	Sabuncubeli Tüneli	7
	YİD PROJELERİ KAPSAMINDA PLANLANAN PROJELER	523
4 -	Ankara-Niğde Otoyolu	342
5 -	Ankara-Kırıkkale-Delice-Samsun Otoyolu	472
6 -	Aydın-Denizli-Burdur Otoyolu	330
7 -	Ankara-İzmir Otoyolu	535
2/b -	Kuzey Marmara Otoyolu	319

8 - Kınalı-Tekirdağ-Çanakkale-Balıkesir Otoyolu	359
	000
9 - Afyonkarahisar-Antalya-Alanya Otoyolu	490
10 - Sivrihisar-Bursa Otoyolu	202
11 - Şanlıurfa-Habur Otoyolu (Diyarbakır Bağlantısı Dahil)	442
12a- Gerede-Merzifon-Gürbulak Otoyolu Projesi, Gerede-Merzifon Kesimi	357
12b- Gerede-Merzifon-Gürbulak Otoyolu Projesi, Merzifon-Gürbulak Kesimi	919
	4.767
MİLLİ BÜTÇEYLE YAPILMASI PLANLANAN PROJELER	
13 - Yalova - İzmit Otoyolu	81
14 - Mersin-Silifke (Taşucu) Otoyolu	98
15 ⁻ Çiğli-Aliağa-Çandarlı Otoyolu	81
	260

5.550 KM

5.290 KM TOPLAM





ISTANBUL -IZMIR MOTORWAY (INCLUDING IZMIT BAY CROSSING AND CONNECTING ROADS)

Investment Cost is 6.3 Billion US \$

 NORTHERN MARMARA MOTORWAY, ODAYERİ PAŞAKÖY SECTION (INCLUDING 3. SUSPENSION BRIDGE) PROJECT

Investment Cost is 2.5 Billion US \$

SABUNCUBELİ TUNNEL PROJECT
Investment Cost is 55 Million US \$



İSTANBUL -İZMİR MOTORWAY (421 Km) (INCLUDING İZMİT BAY CROSSING AND CONNECTING ROADS)





- ✓ İstanbul-İzmir Motorway is one of the biggest Build Operate Transfer (BOT) projects in the world which includes World 4th suspension bridge (İzmit Bay Bridge)with a longest central mid span 1550 m.
- ✓ Project consists of 2682 m suspension bridge, 377 km motorway + 44 km connecting roads,
- ✓ Total investment cost of the project is about 6,3 billion USD)
- The BOT Contract was signed at 27.09.2010. According to contract, the contractor will build the project in 7 years, and operate the motorway for 15 years and 4 months.
- ✓ Length of the road between Gebze-İzmir will be shorten by 90 km. Travel time from



GEBZE-ORHANGAZİ-İZMİR MOTORWAY

(INCLUDING İZMİT BAY CROSSING AND CONNECTING ROADS)



Motorway Length	377 km
Connecting Road Length	44 km
Suspension Bridge Length	2 682 m
Mid Span	1 550 m
Approach Viaduct	1 378 m
Number of Viaducts	30
Total Viaduct Length	18 212 m
Number of Tunnels	2
Total Tunnel Length	5 142 m
Number of Bridges	199
Toll Plazas	20
Service Facilities	11
Parking Lots	7
Interchanges	25



NORTH MARMARA MOTORWAY (including 3rd suspension bridge, Yavuz Sultan Selim Bridge)





> 3rd Strait Suspension Bridge :1875 meter long with a mid span 1408 m.

> 59 m platform width (2x4 lane highway and 2x1 lane railway) and 322 m tower height.

NORTH MARMARA MOTORWAY

(including 3rd suspension bridge, Yavuz Sultan Selim Bridge) SOME INFORMATION OF IMPLEMENTION CONTRACT

- The longest suspension motor way bridge with railway in the world.
- Signed at 20.04.2012.
- Start :May 2013 Finish: 2015.
- Construction & Operation:10 years 2 months 20 days.
- Construction period: 2 years and 6 months
- Operation period :7 years, 8 months and 20
- Total Investment Amount: 2.5 billion \$
- Bridge Toll Price for car : 3 \$
- Motorway Toll Price for car :0.08 \$/km





ROAD INFRASTRUCTURE INVESTMENTS

KGM

TEM NETWORK 2013



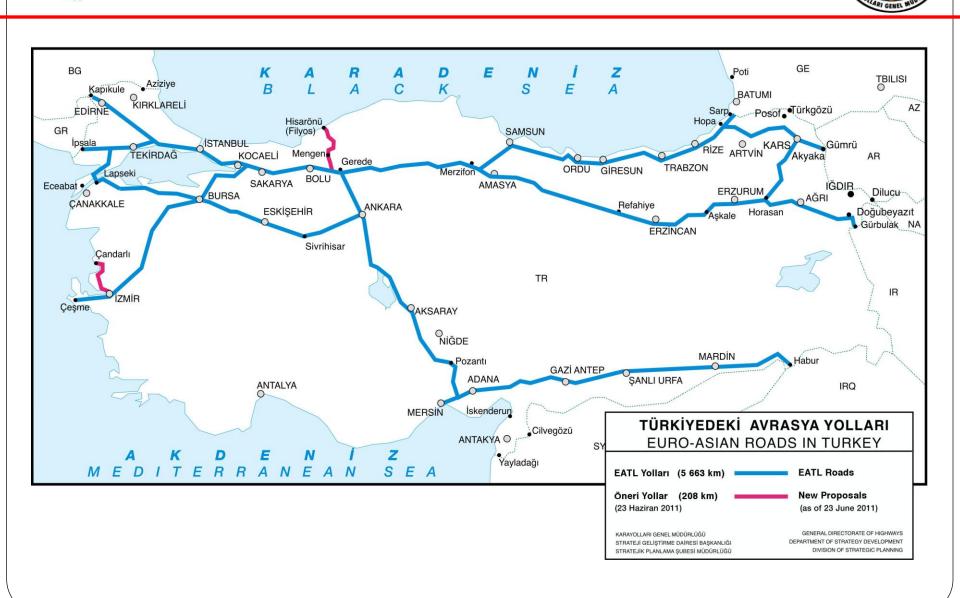
- > Total length of TEM road network 6941 km composing of 28 % of TEM Network
- > Almost all TEM network is in dual carriageway standards with Bituminous Asphalt Hot Mix. (2013)
- İstanbul-İzmir Motorway with a length of 421 Km and section having a length of 95 km of North Marmara Motorway (incl. 3rd strait bridge) are under construction by BOT



EATL ROUTES IN TURKEY

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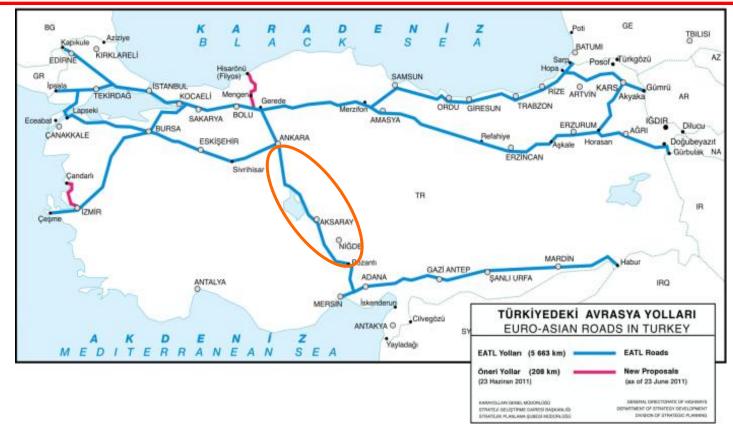
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ANKARA-NİĞDE MOTORWAY PROJECT





- Part of TEM network & EATL Routes.
- > 285 km motorway (2x3 lanes) + 57 km connecting roads (2x2 lanes),
- ➢ Total Length:342 km.
- Cost: 1.7 Billion USD
- Feasibility and design works were completed.
- Finish: 2016.



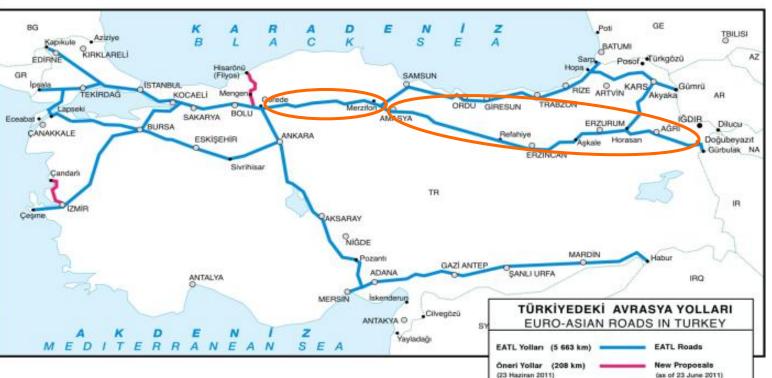
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GEREDE-MERZİFON-GÜRBULAK MOTORWAY PROJECT

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ARI GENEL



NAMESLAW GENES WORDFLOOD

TRAFELÉ DELÉCTIVAE DAIRESI BASKARA (D

DEMINAL DIRECTORATE OF HEIMING

WITHENE OF STRATEGY DEVELOPMENT DIVISION OF STRATEGIC PLANEING

- Consist of two sections : Gerede-Merzifon & Merzifon-Gürbulak.
- Gerede-Merzifon: 357 km, 2,6 Billion US \$
- Merzifon-Gürbulak: 919 km, 7,1 Billion US \$
- Design of the project is still continuing.

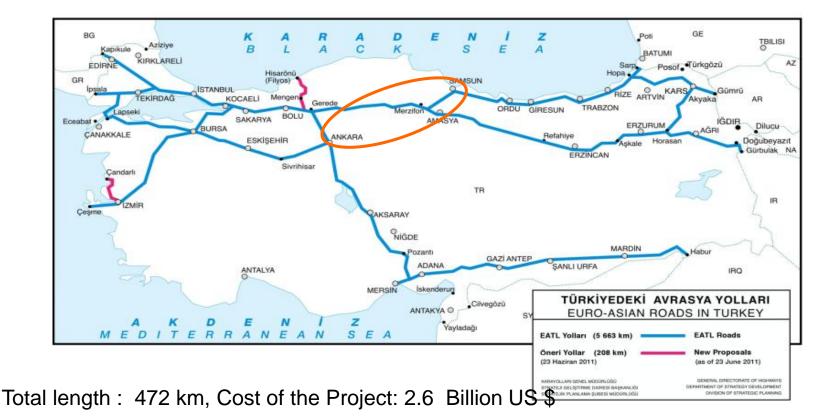
Finish: Gerede-Merzifon 2018 Merzifon-Gürbulak 2023



ANKARA-KIRIKKALE-DELİCE-SAMSUN MOTORWAY PROJECT

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GENE



- Consist of two sections Ankara-Kırıkkale-Delice & Delice-Samsun
- Feasibility studies are continuing within the framework of project consultancy contract.
- Finish: 2018.

THANK YOU VERY MUCH

Mücahit ARMAN Head of Strategic Development Department General Directorate of Turkish Highways Ministry of Transport, Maritime Affairs and Communications marman@kgm.gov.tr