

RESULTS FACT SHEET

INDICATOR TR-B-8: TIME-DISTANCE BETWEEN TOWNS

DEFINITION - OBJECTIVE

This indicator determines the time-distance between towns in Zone IV when using road transport via Egnatia motorway. Time-distance between towns is a main indicator for assessing town accessibility; it is also an important indicator for calculating the cost of transportation of goods and the overall cost.

RESULTS - ASSESSMENT

In June 2006 the Observatory made measurements along most routes between towns and terminal stations in Egnatia Motorway Impact Zone. These routes are:

- (a) Egnatia Motorway sections that have been given to traffic (453 km),
- (b) The alternative road network between the national road network sections that are used to connect interchanges of the “under construction” Egnatia Motorway, for example the route Metsovo-Grevena via Milia and Krania.
- (c) The national road network without Egnatia Motorway.

The measurements show the following total time-distances for the overall route Igoumenitsa-Kipi:

- 8 hours and 35 minutes via Egnatia Motorway and alternative road network.
- 11 hours and 40 minutes via national road network (without the Egnatia Motorway).

Having about 70% of the Egnatia Motorway given to traffic, the measurements results show that the total time-distance between the two edges Igoumenitsa and Kipi has already been reduced by 3 hours

The completion of the other works in the under construction sections of Egnatia Motorway and the whole motorway’s opening to traffic will reduce by 2 more hours the time-distance from Igoumenitsa to Kipi. It is expected that the final time-distance between the two edges of Egnatia Motorway (670km) will be 6 hours and 30 minutes.

The main results of the measurements that took place in 2006 are presented in the following table.

TIME-DISTANCE BETWEEN TOWNS AND TERMINAL STATIONS, <u>June 2006</u>			
FROM	TO	ROUTE	ROUTE TIME
Thessaloniki	Ioannina	Via Egnatia motorway and alternative road network	4 hours
Thessaloniki	Ioannina	Via national road network without Egnatia motorway (through Konitsa - Pentalofos - Kastania - Veria)	5 hours and 30 minutes
Ioannina	Igoumenitsa	Via Egnatia motorway and alternative road network	1 hour and 15 minutes
Ioannina	Igoumenitsa	Via national road network without Egnatia motorway	1 hour and 40 minutes
Grevena	Metsovo	Via alternative road network (through Krania - Milia)	1 hour
Metsovo	Ioannina	Via Egnatia motorway and alternative road network	50 minutes
Ioannina	Kakavia cross-border station (Greece-Albania)	Vertical axis, national road network	50 minutes
Thessaloniki	Alexandroupolis	Via Egnatia motorway and alternative road network	3 hours and 25 minutes
Thessaloniki	Alexandroupolis	Via national road network without Egnatia motorway ¹	4 hours and 30 minutes
Alexandroupolis	Kipoi cross-border station (Greece-Turkey)	Via Egnatia motorway	20 minutes
Alexandroupolis	Ormenio cross-border station (Greece-Bulgaria)	Vertical axis	1 hour and 45 minutes
Thessaloniki	Ormenio cross-border station (Greece-Bulgaria)	Via Egnatia motorway and alternative road network	5 hours
Thessaloniki	Ormenio cross-border station (Greece-Bulgaria)	Via national road network without Egnatia motorway ²	6 hours and 15 minutes
Thessaloniki	Ormenio cross-border station (Greece-Bulgaria)	Via national road network through the alternative route of special natural beauty Sapes - Metaxades - Ormenio cross-border station ³	6 hours and 40 minutes
Thessaloniki	Exochi cross-border station (Greece - Bulgaria)	Via Egnatia motorway and vertical axis Drama-Exochi	2 hours and 35 minutes

¹ Including Egnatia's sections I/C TITAN - I/C Serres, A/K Mesti - I/C Alexandroupoli.

² Including Egnatia's sections I/C TITAN - I/C Serres, I/C Mesti - I/C Alexandroupoli, I/C Alexandroupoli - I/C Ardanio. (I/C Mesti - Border Station Ormenio: 167 km).

³ I/C Mesti - Sapes - Metaxadesç - Dikea - Border Station Ormenio: 150 km.

TIME-DISTANCE BETWEEN TOWN centers AND INTERCHANGES OF EGNATIA MOTORWAY, <u>June 2006</u>		
FROM	TO	ROUTE TIME
Thessaloniki	Kalochoi I/C	8 minutes
Veria	Veria I/C	7 minutes
Kozani	Kozani I/C	14 minutes
Kozani	Kalamia I/C	12 minutes
Grevena	Grevena I/C	8 minutes
Metsovo	Metsovo I/C	4 minutes
Ioannina	Ioannina I/C	13 minutes
Igoumenitsa centre	Igoumenitsa port	3 minutes
Kavala	Agios Syllas I/C	8 minutes
Xanthi	Vafeika I/C	6 minutes
Komotini	West Komotini I/C	7 minutes
Komotini	East Komotini I/C	7 minutes
Alexandroupolis	Alexandroupolis I/C	4 minutes

With the assistance of available measurements and the traffic model of EGNATIA ODOS A.E. three maps of isochronic curves were drafted, which indicate the estimated reduction of travel time - compared to the situation before the construction of the Egnatia motorway - to be achieved from Igoumenitsa, Thessaloniki and Alexandroupoli to all other areas upon completion of the motorway.

Map 1 indicates that the completion of the Egnatia Motorway shall result in reducing the time-distance between Igoumenitsa and Ioannina by 45 minutes, whereas the distance between Igoumenitsa and the towns of West Macedonia (Grevena, Kastoria, Kozani) will be reduced by 1.5 to 2 hours.

As seen in Map 2 the travel time from Thessaloniki to Igoumenitsa will be reduced by more than 3 hours while the travel time from Thessaloniki to Kipi (Greek-Turkish borders) will be reduced by 2 hours. The travel time between Thessaloniki and the towns of West Macedonia will be reduced by 1 to 1.5 hours.

As seen in Map 3 the travel time from Alexandroupoli to Kavalla is expected to be reduced by 1 hour, while Asprovalta and the eastern coasts of the Prefecture of Chalkidiki will be reached by 1.5 hour sooner.

METADATA

Sources - Methodology

The measurements of the time-distance between towns refer to the town centers and not the interchanges linking with the national road network. The measurements were conducted by the Observatory in June 2006 using the method of the “floating car”, at a speed commensurate to the traffic flow and in conformance with the allowed limits.

Based on the periodic measurements, the Observatory develops a register of time-distance between towns and terminal stations, which is available to the interested organizations and citizens.

The isochronic zones of time-distance change were created by using data from the traffic model of EGNATIA ODOS A.E. (Traffic & Telematics Dept.), using the I.D.W (Inverse Distance Weighted) technique in the GIS of the Observatory.

Scientific research-measurement processing: Traffic & Telematics Department - Operations, Exploitation, and Maintenance Division of EGNATIA ODOS A.E.

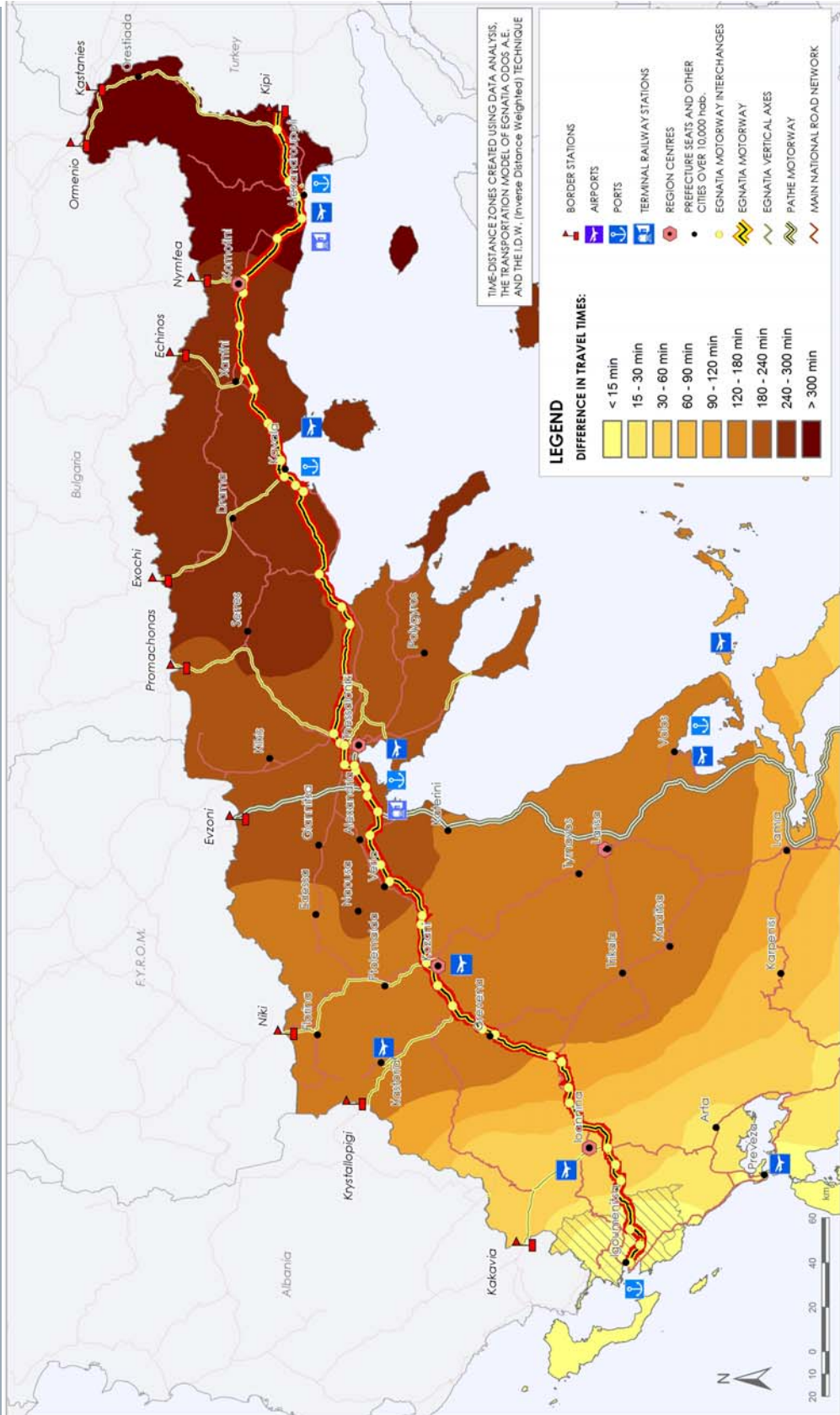
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Email: traffic@egnatia.gr

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June 2007

Map 1: Estimated time-distance savings from Igoumenitsa to all other destinations upon the completion of Egnatia motorway

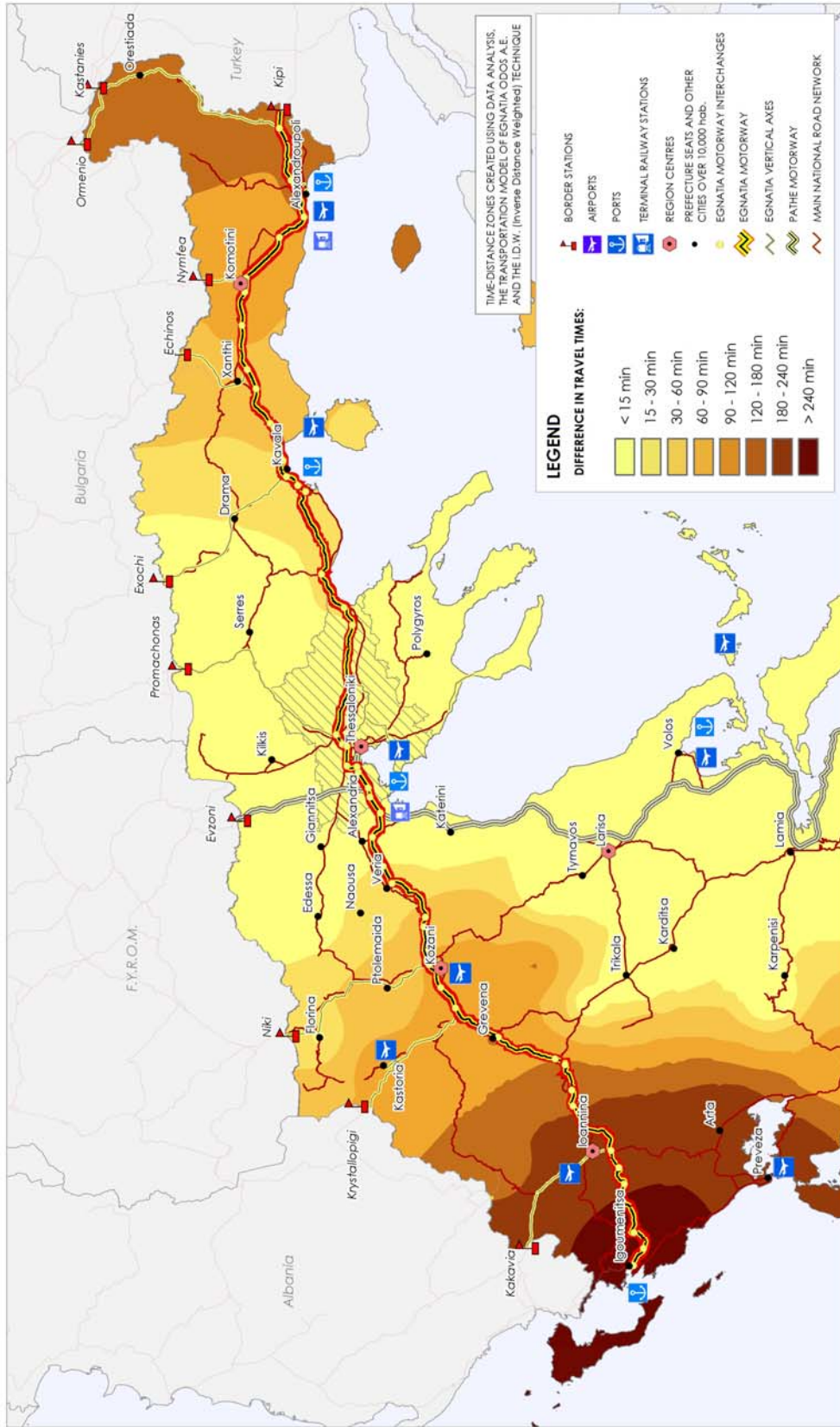


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June 2007

Map 1: Estimated time-distance savings from Thessaloniki to all other destinations upon the completion of Egnatia motorway

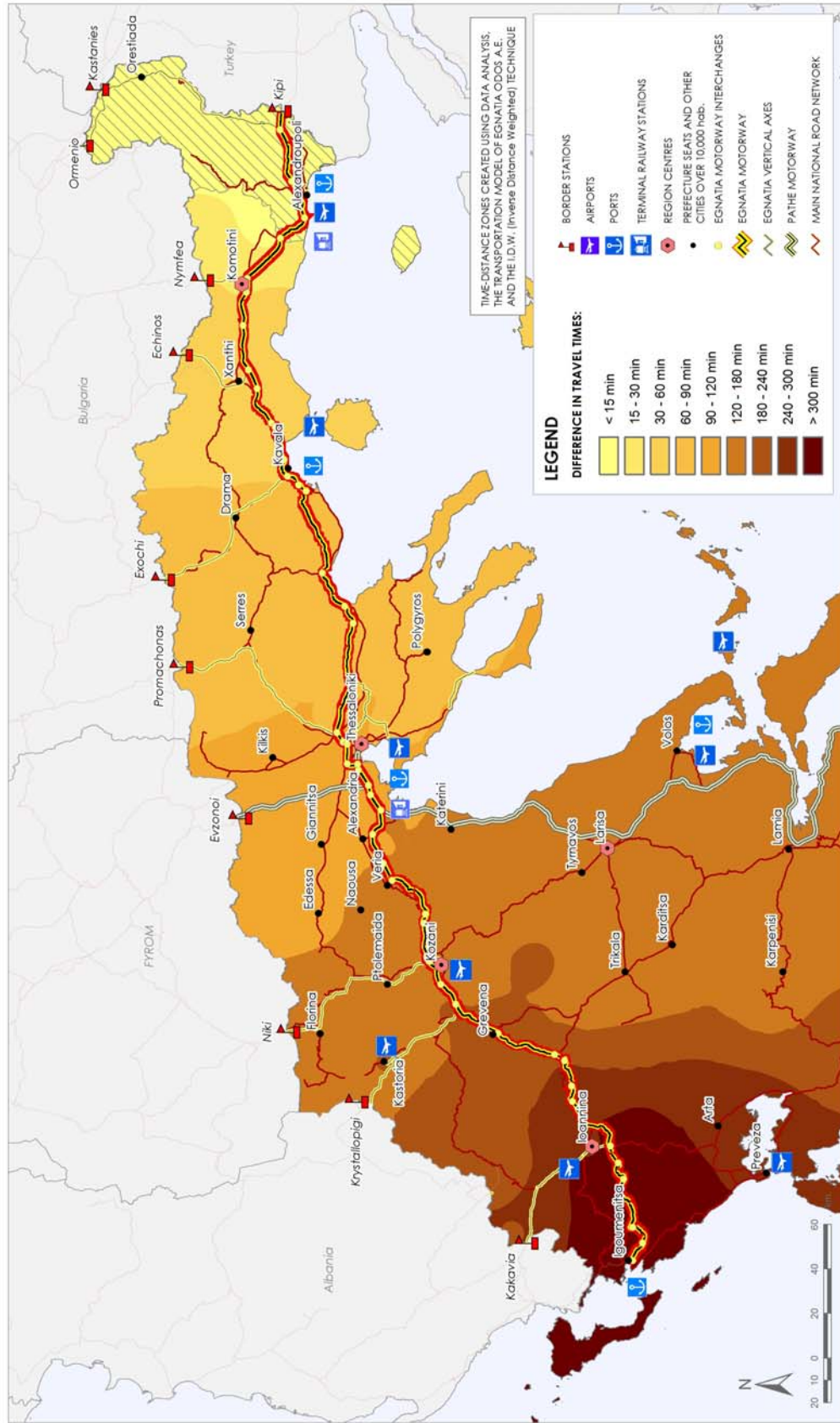


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Map 1 : Estimated time-distance savings from Alexandroupolis to all other destinations upon the completion of Egnatia motorway



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 DATA SOURCE: DIVISION OF OPERATION, TRAFFIC DEPARTMENT, EGNATIA ODOS A.E.
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