

INDICATOR RESULTS FACTSHEET

TRA05: TIME-DISTANCE

DEFINITION - OBJECTIVE

The indicator assesses time-distances between the cities located in the Egnatia Motorway Impact Zone when using road transport. Time-distance between cities is an essential indicator for the assessment of the cities' accessibility and a basic piece of information, as regards the calculation of goods transportation cost and generalized cost.

RESULTS - ASSESSMENT

In general, the completion of the Egnatia Motorway construction will result in a substantial saving of the time required to travel along Northern Greece. In particular, the trip from Ioannina to Thessaloniki is reduced by approximately 3 hours, from Ioannina to Komotini by more than 4 hours, from Ioannina to Igoumenitsa by 1 hour and from Ioannina to Kipi by more than 4 hours.

Apart from the cities located close to the Egnatia Motorway axis itself, significant will be the impact of the Egnatia Motorway on the reduction of time-distances to and from the provinces of the cities crossed by its vertical axes¹.

The time-distance from Kastoria province to Thessaloniki is reduced by 90 minutes approx., and from Kastoria to Kipi by more than 3 hours. As far as the city of Serres is concerned, the time-distance to Orestiada is reduced by one-and-a-half to two hours, and to Igoumenitsa by more than 5 hours. The time-distance from Serres to Thessaloniki when the Egnatia Motorway is in full operation is reduced by 30 minutes approx. When the Motorway is in full operation, time-distances between Orestiada and Igoumenitsa are reduced by more than 5 hours, and between Orestiada and Thessaloniki by 2 hours approx.

¹ Vertical axes are considered to be the following: (a) Ardania - Ormenio, (b) Thessaloniki - Serres - Promahonas, (e) Siatista - Kastoria - Ieropigi/Krystallopigi.

TIME-DISTANCES (mins) BETWEEN CITIES <u>WITHOUT</u> THE EGNATIA MOTORWAY										
	Igoumenitsa	Ioannina	Grevena	Kozani	Veroia	Thessaloniki	Kavala	Xanthi	Komotini	Alex/poli
Igoumenitsa	0	94	247	268	340	406	524	570	604	665
Ioannina	94	0	162	203	275	341	459	505	539	601
Grevena	247	162	0	49	122	188	306	351	386	448
Kozani	268	203	50	0	79	145	263	308	343	405
Veroia	341	276	123	79	0	66	184	229	264	326
Thessaloniki	409	344	190	147	68	0	135	163	198	260
Kavala	527	462	308	265	186	130	0	36	70	132
Xanthi	572	507	354	311	231	163	36	0	38	100
Komotini	607	542	388	345	266	198	70	38	0	62
Alex/poli	668	603	450	407	327	259	132	100	61	0

TIME-DISTANCES (mins) BETWEEN CITIES <u>WITH</u> THE EGNATIA MOTORWAY										
	Igoumenitsa	Ioannina	Grevena	Kozani	Veroia	Thessaloniki	Kavala	Xanthi	Komotini	Alex/poli
Igoumenitsa	0	45	93	120	143	187	265	293	316	350
Ioannina	45	0	63	91	114	158	236	264	286	312
Grevena	93	63	0	33	56	100	178	206	229	254
Kozani	121	91	33	0	38	82	160	187	210	236
Veroia	144	114	56	38	0	48	126	154	176	202
Thessaloniki	189	159	102	83	49	0	80	128	150	176
Kavala	266	236	179	160	126	85	0	27	50	76
Xanthi	294	264	206	188	154	115	27	0	32	58
Komotini	316	287	229	210	176	130	50	32	0	36
Alex/poli	342	313	255	236	202	162	76	58	36	0

REDUCTION OF TIME-DISTANCES (mins) BETWEEN CITIES <u>WITH</u> THE EGNATIA MOTORWAY										
	Igoumenitsa	Ioannina	Grevena	Kozani	Veroia	Thessaloniki	Kavala	Xanthi	Komotini	Alex/poli
Igoumenitsa	0	49	154	148	197	219	259	277	288	315
Ioannina	49	0	99	112	161	183	223	241	253	289
Grevena	154	99	0	16	66	88	128	145	157	194
Kozani	147	112	17	0	41	63	103	121	133	169
Veroia	197	162	67	41	0	18	58	75	88	124
Thessaloniki	220	185	88	64	19	0	55	35	48	84
Kavala	261	226	129	105	60	45	0	9	20	56
Xanthi	278	243	148	123	77	48	9	0	6	42
Komotini	291	255	159	135	90	68	20	6	0	26
Alex/poli	326	290	195	171	125	97	56	42	25	0

METADATA

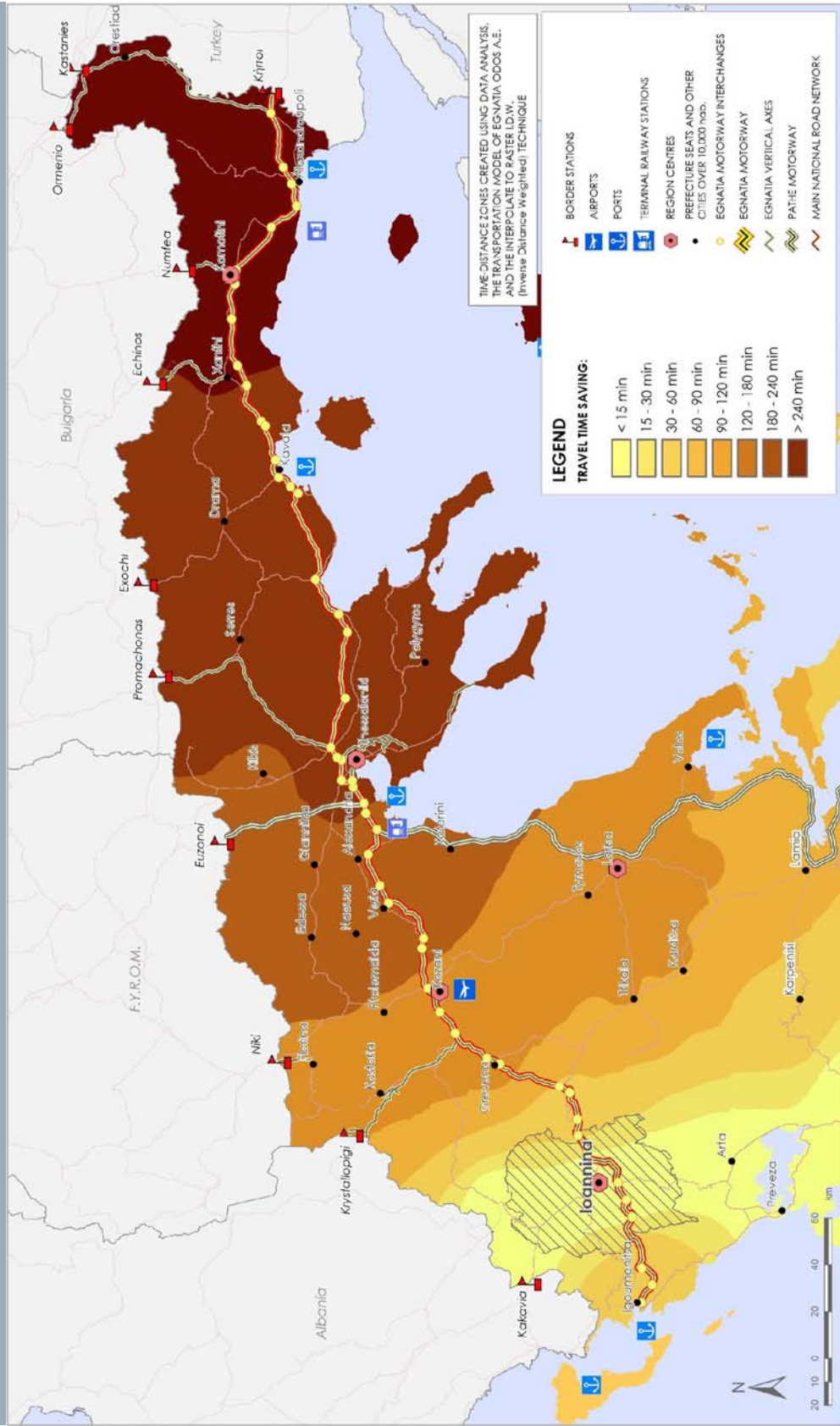
Sources- Methodology

The time-distance change isochrones were created on the basis of data produced by the EGNATIA ODOS A.E. traffic model (Traffic Unit, Operations Department, Operations and Maintenance Division) by application of the IDW (Inverse Distance Weighted) and Kriging techniques on the Observatory's GIS.

URL: http://www.egnatia.gr/flash/operations_traffic_gr.html,

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Map 1: Time-distance change isochrones centered around Ioannina with Egnatia Motorway in full operation



DATE: 09/03/2009
DATA SOURCE: DIVISION OF OPERATION, TRAFFIC DEPARTMENT, EGNATIA ODOS A.E.
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