

RESULTS' FACT SHEET

SET06: ACCESSIBILITY OF TRANSPORT MODES

DEFINITION - OBJECTIVE

This indicator records data on the airports, railway stations and ports located in the Regions of the Egnatia Motorway Impact Zones, and more specifically: (a) their location, (b) their position in an official rating according to their significance, (c) the volume of passenger and commercial traffic they serve, and (d) their distance and time distance from the closest Egnatia Motorway junction.

The indicator monitors the impact of the Egnatia Motorway on the accessibility of other types of transport modes. The optimum connection between the motorway and other transport modes constitutes a basic parameter in developing an integrated system of combined transport.

RESULTS -ASSESSMENT

In the present fact sheet, the indicator presents the rating, as well as the passenger and commercial traffic of the airports and ports within Zone IV¹ of the Egnatia Motorway, and passenger mobility of the railway stations. The information concerning the passenger mobility at airports regards the years 2010-2013 (for the year 2013 the information is temporary and regards only the months from January to July), while as regards the commercial mobility, the information concerns the years 2010 and 2011. As far as the ports are concerned, information is only available for the time period 2000-2011, both as regards the passenger and commercial mobility. Finally and as regards the passenger mobility of the big urban centres, information covers the period 2005-2010.

Within Zone IV, there are 9 airports and 5 ports. Two airports are located in East Macedonia and Thrace (Kavala and Alexandroupoli), one is located in Central Macedonia (Thessaloniki), two in West Macedonia (Kozani and Kastoria), two in Thessaly (Skiathos and Anchialos) and two in Epirus (Ioannina and Aktio).

¹ Zone IV consists of the following Regions located along the Egnatia Motorway: Epirus, Thessaly, West Macedonia, Central Macedonia, East Macedonia & Thrace. As regards the Impact Zones of the Egnatia Motorway see http://observatory.egnatia.gr/02_indicators/02_5_impact_zones.htm

As regards the ports, two of them are located in the Region of East Macedonia and Thrace (Kavala and Alexandroupoli), one in central Macedonia (Thessaloniki), one in Epirus (Igoumenitsa and three smaller ones at Preveza, Parga and Sagiada) and one in Thessaly (Volos).

ACCESSIBILITY OF TRANSPORT MODES				
RATING OF AIRPORTS WITHIN THE IMPACT ZONE IV				
ZONE IV	INTERNATIONAL	STATUTES	NON STATUTES	EXCLUSIVELY INTERNAL
East Macedonia & Thrace	Alexandroupoli			
	Kavala			
Central Macedonia	Thessaloniki			
West Macedonia				Kastoria
				Kozani
Epirus		Ioannina		
		Preveza (Aktio)		
Thessaly		Skiathos	Volos (N. Anchialos)	

Source: Civil Aviation Authority

ACCESSIBILITY OF TRANSPORT MODES		
RATING OF PORTS WITHIN THE IMPACT ZONE IV		
ZONE IV	NATIONAL IMPORTANCE	REGIONAL IMPORTANCE
East Macedonia & Thrace	Alexandroupoli	
	Kavala	
Central Macedonia	Thessaloniki	
West Macedonia		
Epirus	Igoumenitsa	
Thessaly		Volos

Source: Ministry of Mercantile Marine

The national network of railways services 16 out of 24 Prefectures of Zone IV. The areas that are not serviced include the whole Region of Epirus, as well as Kavala, Halkidiki, Grevena and Kastoria.

As regards the **passenger mobility**, there has been a slight, progressive reduction at the **airports** of Zone IV, during the time period 2010-2013 (without taking into account the information concerning the year 2013, as this is temporary and do not refer to the whole year). As regards the separate airports, for the years 2010-2012, only the airports of Thessaloniki and Skiathos showed a slight increase, a fact which may be mainly due to tourism. The higher reduction in the passenger mobility has been recorded at the airport of Ioannina.

In detail and during the years 2010-2012, the two airports of East Macedonia & Thrace Region presented a reduction of passenger mobility, the highest of which was

recorded at the airport of Kavala. The airport of Thessaloniki has had a slight progressive increase in the number of passengers travelling during the same period. The two airports of West Macedonia Region have had the same progress, with a significant increase at first, particularly at the airport of Kozani, during the period 2010-2011, followed by a later reduction, with the airport of Kastoria presenting the highest reduction. During the period 2010-2011, the airports of Thessaly presented the highest passenger increase rates, with the airport of Anchialos presenting the highest increase. However, later on there has been a reduction at the airport of Nea Anchialos, while there has been a slower but continuous increase at the airport of Skiathos. This fact may be due to the tourist mobility during the summer months. As far as the airports in the region of Epirus are concerned, both have shown a reduction during the period 2010-2012.

As regards the information for the year 2013, it is not sufficient to for any comparison with the previous years. It should be pointed out that only in the airports of Zone IV, has there been any increase of mobility during the period April- June, compared with the period January- March. The highest rates of mobility were recorded at the airports of Aktion, Skiathos and Nea Anchialos.

As regards the **cargo mobility** of airports within Zone IV, no safe conclusions can be drawn, due to lack of the necessary data.

COMPARATIVE TABLE OF AIRPORT PASSENGER MOBILITY, 2010-2013						
Region	AIRPORTS	2010	2011	2012	2013 (*)	TOTAL
East Macedonia & Thrace	Alexandroupoli	288.445	238.265	212.419	99.983	839.112
	Kavala	296.194	252.307	203.245	111.699	863.445
Central Macedonia	Thessaloniki	3.910.751	3.958.475	4.006.204	2.290.993	14.166.423
West Macedonia	Kastoria	3.019	5.249	4.619	2.986	15.873
	Kozani	1.692	3.613	3.209	1.948	10.462
Thessaly	Nea Anchialos	54.550	92.574	77.597	44.290	269.011
	Skiathos	230.489	246.658	254.905	139.362	871.414
Epirus	Aktio	292.448	294.156	288.835	162.843	1.038.282
	Ioannina	120.024	88.597	71.191	37.067	316.879
SOURCE: Hellenic Civil Aviation Authority, 9/2013						
(*) For the year 2013, all information refers to domestic and international traffic and is temporary for the months of January - July.						

COMPARATIVE TABLE OF AIRPORT CARGO MOBILITY (*) 2010-2011				
REGION	AIRPORTS	2010	2011	TOTAL
East Macedonia & Thrace	Alexandroupoli(**)	564.181	469.853	1.034.034
	Kavala(***)	589.035	828.444	1.417.479
Central Macedonia	Thessaloniki	8.949.717	7.120.485	16.070.202
West Macedonia	Kastoria	(****)	(****)	
	Kozani	(****)	(****)	
Thessaly	Nea Anchialos	(****)	(****)	
	Skiathos	(****)	(****)	
Epirus	Aktio	(****)	(****)	
	Ioannina	3.790 (****)	(****)	3.790
SOURCE: HELLENIC CIVIL AVIATION SERVICE, 8/2012				
(*) Concerns the arrivals/ departures/ transit of post and cargo				
(**) No data available concerning transit				
(***) No data available concerning transit and departures for the year 2011				
(****) No data available				
(*****) Data available only for departing cargo for the year 2010				

As regards the **passenger mobility** at **ports** all along Zone IV, during the period 2000-2011, there has been a slight reduction of 4,67%. In particular and for the time period 2000-2007, there has been a substantial increase (53,45%) in the number of passengers arriving and departing from its ports. However, during the period 2007-2011 there has been a reduction of -37,88%. As regards each separate port and for the period 2000-2011, the port of Igoumenitsa received the higher number of passengers and presented the most important increase (112,16%). It should be noted that no data is available for this particular port for the year 2000, nor for the overseas mobility for the year 2004. A positive change has been the case of the ports of Volos and Kavala up until 2008, a period for which data is available, with a slight reduction during the year 2009 (as for the years 2010 and 2011 no data is available). On the contrary and for the same period, the ports of Thessaloniki and Alexandroupoli showed a reduction (-73,92% and -4,92% respectively). In detail and for the time period between 2000-2007, all ports showed an increase in the number of passengers travelling. The only exception has been the port of Thessaloniki, showing a substantial reduction of 39,54%. During the period 2007-2011, all ports showed a reduction in the number of passengers with the port of Thessaloniki presenting the highest reduction rate (-56,87%). As regards the port of Kavala and due to lack of information, no conclusions can be drawn for this time period.

COMPARATIVE TABLE OF PORT PASSENGER MOBILITY, 2000-2011

	Igoumenitsa *	Kavala - KOA.**	Volos	Thessaloniki	Alexandroupoli	TOTAL
2000	1.241.916	1.380.409	368.643	248.429	157.422	3.396.819
2001	2.536.841	1.390.512	366.722	231.580	158.146	4.683.801
2002	2.552.499	1.445.901	356.669	218.032	159.452	4.732.553
2003	2.447.969	1.454.229	382.417	201.282	168.800	4.654.697
2004	1.352.369	1.386.653	364.916	209.066	168.604	3.481.608
2005	2.419.803	1.448.099	377.358	217.538	178.203	4.641.001
2006	2.504.370	1.636.328	406.283	129.684	155.756	4.832.421
2007	2.639.925 (#)	1.823.326 (#)	440.441	150.202	158.645	5.212.539
2008	2.665.306 (#)	1.895.891 (#)	434.935	434.935	195.624	5.626.961
2009	2.801.427	1.848.002	450.355 (##)	158.179	169.592 (###)	5.427.555
2010	2.830.433	(***)	409.572 (##)	100.755	145.388(###)	
2011	2.634.890	(***)	388.909 (##)	64.785	149.673 (###)	
2012	2.289.099	(***)	331.927	50.648	(***)	
TOTAL	30.916.847		5.079.147	2.415.115	1.965.305	

SOURCE: Primary Data: respective Port Authorities 8/2012

(*) There is no data available for domestic traffic for the year 2000 and for international traffic for the year 2004

(**) The ports of Keramoti and N. Peramos that belong to the port of Kavala are included (Kavala Port Authority)

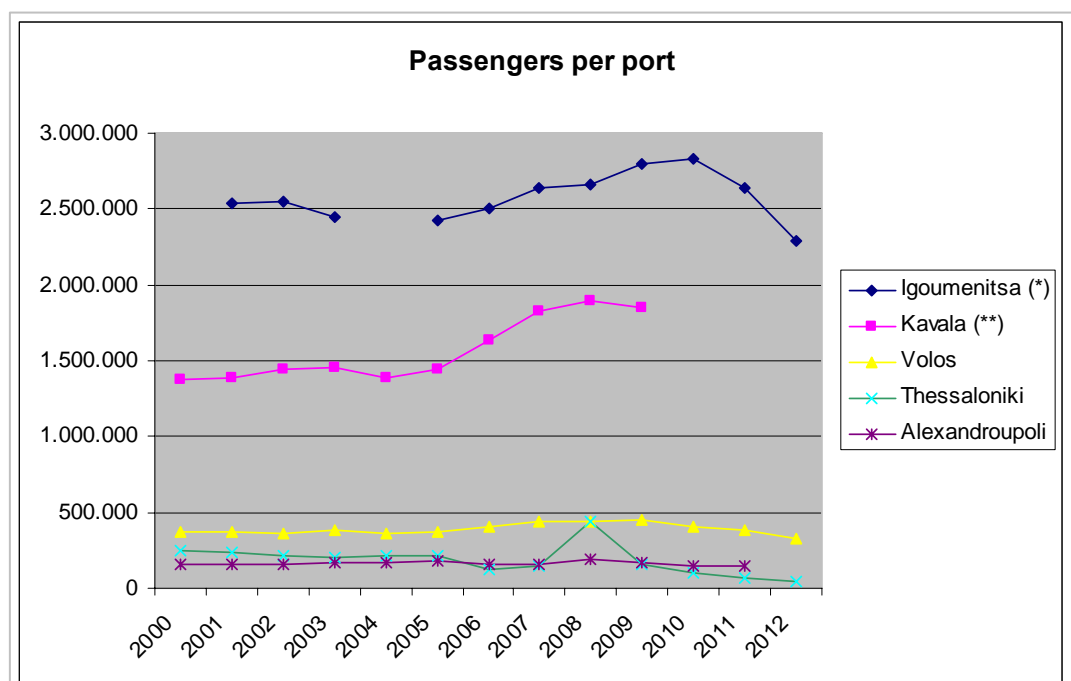
(***) No data available

(#) Due to data processing, there have been different results than those presented in previous results' fact sheets.

(##) Through the central port of Volos with FB type ships & Hydrofoils , Volos- North Sporades islands- Mytilene

(###) to and from Samothraki

There is insufficient information for the years 2002-2005 and 2008 for the port of Nea Peramos



As regards the **ports' cargo mobility**, the situation seems the same as with the passengers, having shown a reduction of -13,60% in Zone IV, while during the period 2000-2007 there has been an increase by 27,73% and during the period 2007-2011 there has been a reduction by 32,36%. In detail, the highest increase of the total cargo weight for the period 2000-2011, was marked at the port of Thessaloniki (2,81%) and the highest reduction was marked at the port of Volos (-3,95%). We need to point out that there is no information available for the port Igoumenitsa, due to the fact that it is not included in the records of the Port Authority, while there is missing information for the port of N. Peramos and for the years 2002-2005. Similarly, there is no information available for the cargo mobility at the ports of Kavala and Alexandroupoli for the year 2009 onwards. For the time period 2000-2007, all ports showed an increase of the travelling cargo weight, with the port of Alexandroupoli showing the highest increase (51,10%). As regards the period 2007-2011, the port of Alexandroupoli, as well as the ports of Thessaloniki and Volos, the only ports for which there is full information, presented a reduction (-21,35% and -27,55% respectively). We need to point out that as regards the port of Thessaloniki and although it has shown a reduction, there has been an important increase in 2008.

COMPARATIVE TABLE OF PORT CARGO MOBILITY, 2000-2011					
	Thessaloniki	Kavala- KPA. (*)	Volos	Alexandroupoli	TOTAL
2000	6.476.466	1.050.505	1.061.311	298.493	8.886.775
2001	5.497.793	1.175.245	1.070.464	281.329	8.024.831
2002	5.349.416	1.115.240	1.161.332	289.327	7.915.315
2003	5.480.272	1.081.675	1.264.297	500.281	8.326.525
2004	6.354.788	1.721.496	1.097.235	652.331	9.825.850
2005	6.892.413	1.054.195	1.091.057	346.870	9.384.534
2006	6.743.697	1.947.199	1.042.506	355.650	10.089.052
2007	8.466.459	1.478.005	1.407.047	451.016 (#)	11.351.511
2008	16.041.842	1.537.837	1.615.244	502.622 (#)	19.194.923
2009	5.754.951	(**)	1.343.908	(**)	
2010	6.764.328	(**)	1.149.992	(**)	
2011	6.658.628	(**)	1.019.374	(**)	
ΣΥΝΟΛΟ	86.481.053	(**)	14.323.767	(**)	

The values refer to tons

SOURCE: Primary Data: respective Port Authorities, 8/2012

(*) The port of Keramoti and N. Peramos, which belong to Kavala Port Authority are included.

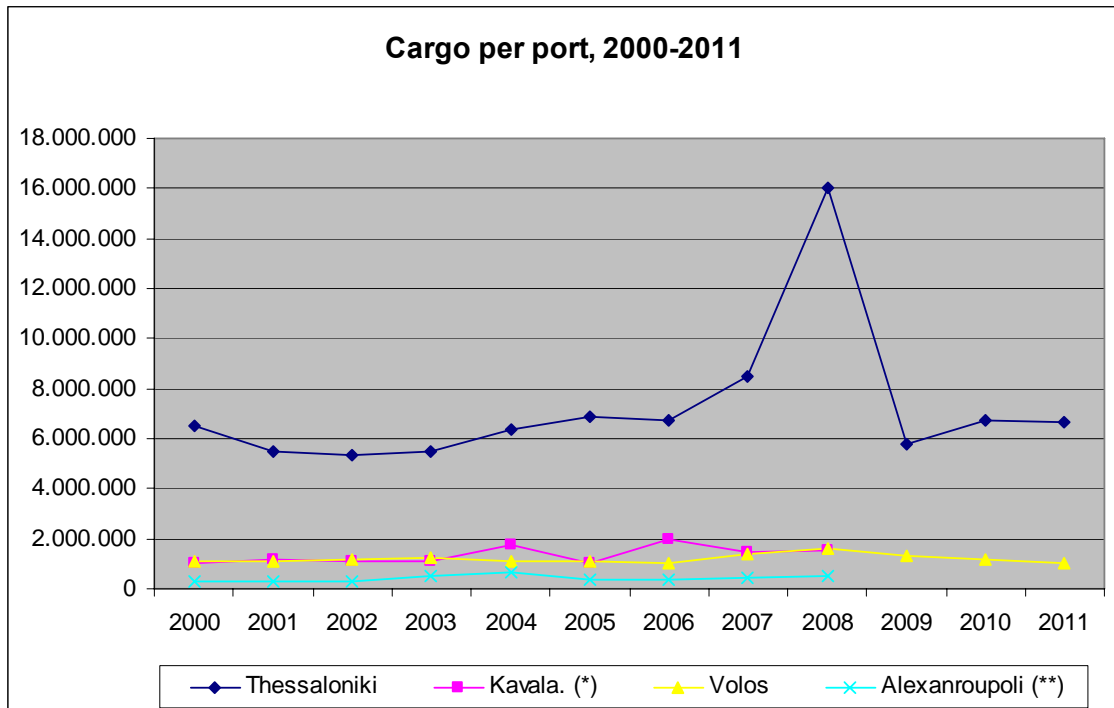
(**) No information available.

(#) Due to data processing, there have been different results than those included in previous results' fact sheets.

(##) Through the central port of Volos with FB type ships & Hydrofoils, Volos- North Sporades islands- Mytilene

(###) To and from Samothraki

There is insufficient information for the port of N. Peramos for the years 2002-2005.



SOURCE: primary data: respective Port Authorities, 8/2012

(*) As regards the port of N. Peramos, there is insufficient information for the years 2002-2005 and there is no information available from 2009 onwards.

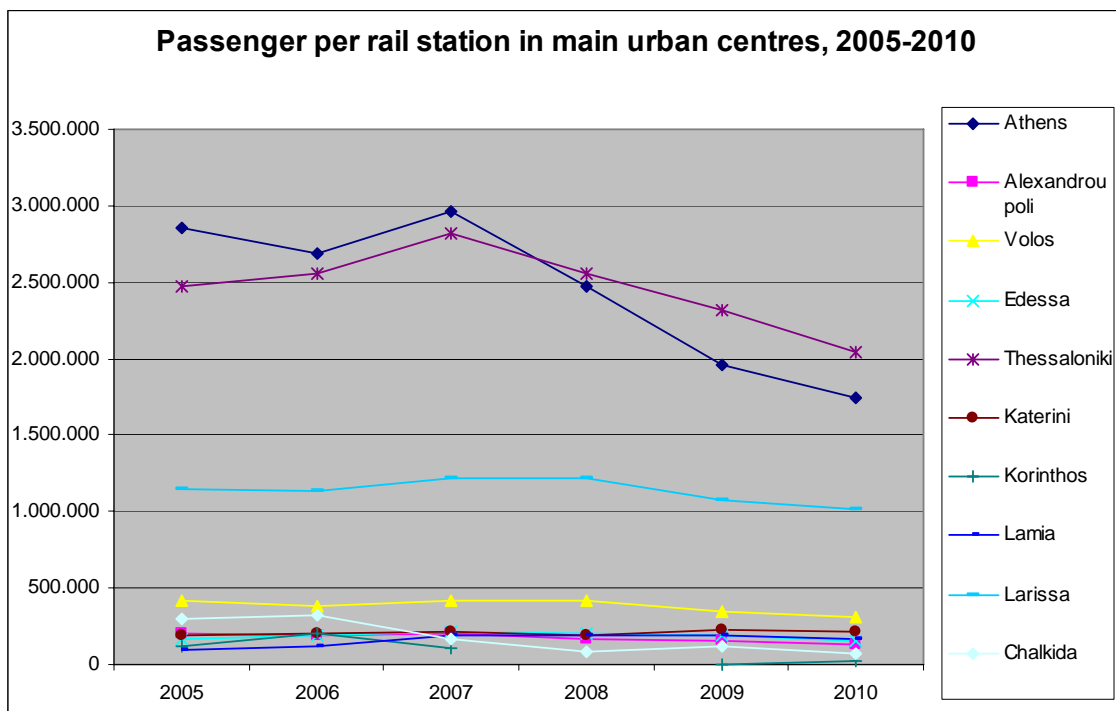
(**) No information available from 2009 onwards.

As regards the **railway stations' passenger mobility** in the big urban centres for 2010, Thessaloniki railway station seems to be the one mostly used, leaving Athens railway station second in the rating list. On the contrary, Korinthos railway station presents the lower passenger mobility. During the period 2005-2010, most stations were marked by a decrease in the number of passengers and Korinthos railway station marked the highest percentage, namely 82,48%. An exception was the case of the stations of Katerini (12,80%) and Lamia (65,76%). In particular and during the time period 2005-2007, most of these stations showed an increase in the numbers of arrival and departure tickets, with the exception of the stations of Korinthos (-10,29%) and Halkida (-42,07%). The most important increase was recorded at the station of Lamia (83,64%). However and during the period 2007-2010, all stations showed a reduction of passenger mobility, with Korinthos showing the highest rate, namely 80,47%. The only exception was the case of Katerini railway station (1,59%), which continues showing an increase, although its rate of increase is significantly lower than that of the previously examined period.

TOTAL OF RAILWAY STATIONS' PASSENGER MOBILITY IN URBAN CENTRES, 2005-2010									
	2005	2006	2007	2008	2009	2010	CHANGE RATE(%)		
							2005-2007	2007-2011	2005-2010
Athens	2.856.184	2.683.928	2.963.278	2.476.659	1.954.829	1.742.390	3,75	-41,20	-39,00
Alexandroupoli	197.868	194.406	206.227	167.977	149.784	130.969	4,22	-36,49	-33,81
Volos	417.641	376.495	419.189	419.197	343.044	308.253	0,37	-26,46	-26,19
Edessa	167.513	193.005	212.143	205.676	191.677	153.456	26,64	-27,66	-8,39
Thessaloniki	2.474.850	2.558.301	2.825.023	2.561.535	2.319.269	2.045.961	14,15	-27,58	-17,33
Katerini	190.826	199.282	211.895	186.057	229.841	215.255	11,04	1,59	12,80
Korinthos	124.721	200.332	111.889	-	5.935	21.857	-10,29	-80,47	-82,48
Lamia	100.936	124.459	185.360	185.653	189.805	167.311	83,64	-9,74	65,76
Larisaa	1.146.225	1.135.040	1.216.224	1.218.912	1.078.397	1.020.038	6,11	-16,13	-11,01
Chalkida	295.117	324.807	170.965	79.379	114.728	68.005	-42,07	-60,22	-76,96
Other cities	5.284.065	4.814.073	5.529.257	5.224.713	4.241.391	3.298.069	4,64	-40,35	-37,58
TOTAL	13.255.946	12.804.128	14.051.450	12.725.758	10.818.700	9.171.564	6,00	-34,73	-30,81

Source: TRAINOSE A.E , 10/2012

The information refers to departure and arrival tickets



METADATA

Sources

The data on the locations of ports and airports originate from the Regional Frameworks of Spatial Planning, prepared for the Regions of East Macedonia & Thrace [Greek Government Gazette (GGG) Volume 1471B' /9-10-2003], Central Macedonia (218 B' /6-2-2004), West Macedonia [Greek Government Gazette (GGG) Volume 1472B' /9-10-2003], Epirus [Greek Government Gazette (GGG) Volume 1451B' /6-10-2003] and Thessaly [Greek Government Gazette (GGG) Volume 1484 B' /10-10-2003]. The airports' rating list was provided by the Civil Aviation Authority (YPA), while the ports' rating list was provided by the Ministry of Mercantile Marine.

The data on passenger and commercial mobility at airports originate from the Hellenic Statistical Authority (EL.STAT) and it concerns each separate airport only for the years 2010, 2011, 2012, while for the year 2013 information is available only for the period from January until July.

The primary data concerning the ports' passenger and cargo mobility originate from the respective Port Authorities, August 2012.

The primary data concerning the railway stations' passenger mobility originate from TRAINOSE, October 2012.

Methodology

The primary data of the local Port Authorities and the Organisation of Greek Railways (OSE) were used in the Observatory's Database, the team of which proceeded with the statistic analysis.

• COMMENTS ON THE DATA OF THE PORTS' PASSENGER TRAFFIC MOBILITY

1. As far as the port of Igoumenitsa is concerned, there is missing information for the domestic travelling for the year 2000, as well as for the international travelling for the year 2004. Furthermore and based on the examination of the available data, we have come up with different results for the years 2007 and 2008, in relation to previous Results' Fact Sheet.
2. As far as the Port of Kavala is concerned, there is missing information for the travelling to and from Limnos, Mitilene, Samothrace, Piraeus, Rafina, Chios, Sigri and Agios Efstratios for the year 1998. Specifically for Samothrace, no

data exists for the time period 1999-2001. Similarly, for the year 2001, no data exists for Mytilene and Limnos for the period July - December. For the years 2001-2005, data is also lacking on Piraeus, Rafina, Chios, Sigri and Agios Efstratios.

3. As regards the port of Nea Peramos, there is insufficient information for the years 2002-2005 and 2008.
4. As regards the ports of Kavala, Keramoti and N. Peramos, based on the examination of the available information, we have come up with different results for the years 2007 and 2008, in relation to the previous Results' Fact Sheets. At the same time, there is no information available for the years 2010 and 2011.
5. There is no information for all ports for the years 1995-2000.

• **COMMENTS ON THE RAILWAY STATIONS' PASSENGER MOBILITY**

1. The information refers to the on-line booking data.
2. There is no information available for Korinthos railway station for the year 2008.

• **COMMENTS OF THE PORTS' CARGO MOBILITY**

1. As regards the port of Keramoti, information is missing for the months January - February and September- November 2004. Furthermore, the information available for 2001 and 2002 proves that the total weight transferred per month exceeds the total weight per product, so the total weight per month has been taken into account.
2. As regards the port of N. Peramos, there is missing information for the loading and landing for the period January- February 2004.
3. There is no information for the port of N. Karvali for loads during the years 2000, 2001, 2002, 2003 and 2005.
4. There is no information for all port for the years 1995-2000.
5. As regards the ports of Kavala, Keramoti, N. Peramos and Alexandroupoli, there is no information available for the time period 2009-2011.
6. There is no recorded information for the port of Igoumenitsa, as all cargo is transferred with lorries, an activity which is not monitored by the Port Authorities.