The Euro Area north-south structural economic divide: an input-output perspective

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Abstract. The great recession of 2008/2009 and the subsequent sovereign debt crises highlighted the existence of deep structural imbalances in the Euro Area: the large differences of competitiveness and growth potential between its northern and southern countries. In this paper, an input-output approach is used to study several facets of this phenomenon, namely the connection between current account (trade) imbalances and domestic final demand levels, as well as the sectoral specialization of tradable goods and services production. In the uncompetitive (current account deficit) economies of southern euro area, domestic final demand levels are in excess of its equilibrium values and the opposite occurs in the strong, competitive economies of the north. These external unbalances are parallel to, and in good measure explained by, a different geographic pattern of specialization favourable to the northern euro-area countries (sectors with higher value added and more intensive technological activities). The external dependency and value added generation capacity of the productive sectors of these economies are also quantified, with a new treatment of inter-industry output multipliers which follows closely Amaral et al (2011). The (gross) output growth potential given by the column sums of the Leontief inverse matrix (backward linkage indicators) results from three terms: inter-industry flows, value added and imported inputs. After a convenient arrangement of these terms, the evolution of backward linkage indicators can be used to detect structural changes, particularly quantifying a (net) growth effect (more value-added generation) and an external dependency effect (more imported inputs), and to classify the productive sectors accordingly. The empirical results of the paper are based on input-output tables for several years: 1995, 2000, 2005 and 2008, available in the World Input Output Database. The northern euro-area group is formed by Germany, Netherlands, Finland and Ireland. The southern is the so-called GIPS group (Greece, Italy, Portugal and Spain).

Keywords: input-output linkages, external dependency, structural change, Euro Area countries

JEL classification: C67, D57

1. Introduction

The great recession of 2008/2009 and the subsequent sovereign debt crises highlighted the existence of deep structural imbalances in the Euro Area: the large differences of competitiveness and growth potential between its northern and southern countries. In this paper, an input-output approach is used to study several facets of this phenomenon, namely the connection between current account (trade) imbalances and domestic final demand levels, as well as the sectoral specialization of tradable goods and services production.

In the uncompetitive (that is originating significant and persistent current account deficits) economies of southern euro area, domestic final demand levels are in excess of its equilibrium values and the opposite occurs in the strong, competitive economies of the north. These external unbalances are parallel to, and in good measure explained by, a different geographic pattern of specialization favourable to the northern euro-area countries (sectors with higher value added and more intensive technological activities).

The external dependency and value added generation capacity of the productive sectors of these economies are also quantified, with a new treatment of inter-industry output multipliers which follows closely Amaral et al (2011). The (gross) output growth potential given by the column sums of the Leontief inverse matrix (backward linkage indicators) results from three terms: inter-industry flows, value added and imported inputs. After a convenient arrangement of these terms, the evolution of backward linkage indicators can be used to detect structural changes, particularly quantifying a (net) growth effect (more value-added generation) and an external dependency effect (more imported inputs), and to classify the productive sectors accordingly.

For a clear exposition of the basic structure and main results of the classical Leontief model, see Miller and Blair (2009). An interesting survey and discussion of the widely applied concepts of backward and forward linkages, based on the pioneering work of Rasmussen (1956) and Hirschman (1958) is made in Drejer (2002). Sophisticated methods to deal with structural change at the sectoral level have been proposed, among others, by Ditzenbacher (1992, 2005), Sonis *et al* (1995), Dietzenbacher and van der Linden (1997), Dridi and Hewings (2002).

In this paper, a different strategy is chosen, based on a simple, but suggestive, treatment of basic input-output concepts, namely output multipliers, value added and imported intermediates coefficients, domestic final demand and export structures, industries supply and demand equilibrium relations, which can give a meso-economic (sectoral) content to important macroeconomic imbalances and unsustainable structural paths of some countries in the extremely open and globalized world economy of our days.

An empirical application is made to eight euro-area countries, based on inputoutput tables for several years: 1995, 2000, 2005 and 2008, available in the World Input Output Database. These countries were divided in two groups: a northern one formed by Germany, the Netherlands, Finland and Ireland, and a southern one, the so-called GIPS (Greece, Italy, Portugal and Spain).

2. Methodology

2.1 Trade unbalances and domestic final demand excess or insufficiency

In this subsection a relation is made between the international trade unbalances and the levels of domestic final demands and exports. Countries with a trade deficit (surplus)

have an excessive (insufficient) level of domestic final demand, or, correspondently insufficient (excessive) level of goods and services exports.

If va_D is the value added content of domestic final demand (*D*) and va_E is the same content for (goods and services) Exports (*E*), we can write:

(1) $Y = va_D + va_E$,

where Y is the Gross Domestic Product (GDP).

If the international trade relations are balanced, we would have:

$$\boldsymbol{E} = (1 - \boldsymbol{v}\boldsymbol{a}_D) \boldsymbol{D} + (1 - \boldsymbol{v}\boldsymbol{a}_E) \boldsymbol{E},$$

where the right member of (2) corresponds, of course, to (goods and services) imports.

That is to say, in (external) equilibrium (with trade account balanced), the relation between exports and domestic final demand must be:

(2) $E^*/D^* = (1 - va_D)/va_E$

If E/D is the relation actually verified, then the difference $E^*/D^* - E/D$ gives, if positive, the excess of domestic final demand (or insufficiency of exports) relative to the situation of trade balance (exports = imports), and gives, if negative, the insufficiency of domestic final demand (or excess of exports), of course. These deviations can be expressed as percentages and calculated for each year or for an average of an entire period as the summation $\sum_{I}^{T} (E^*/D^* - E/D)$, divided by *T*.

2.2 Export contribution to GDP: a sectoral analysis

The contribution of sector's i exports to *GDP*, EY_i (direct + indirect) can be calculated as follows:

$$(3) EY_i = a^V L_i E_i,$$

where:

 a^V is the (row) vector of value added coefficients (*VA/GO*) of the *n* industries of the economy, being *GO* the gross output;

 L_i is the vector of the output multipliers matrix (Leontief inverse) corresponding to column *i*, which gives the output of each sector needed to fulfill one additional unit of final demand directed to sector *i*;

 E_i is the value of exports of sector i.

The contribution of sector i exports to *GDP* can be measured in relative terms, i.e., divided by the value of *GDP* (Y), through the following indicator:

(4) $EYR_i = EY_i/Y = a^V L_i E_i / a^V x$,

where x is the (column) vector of gross output (GO) values of the n industries.

This indicator can be formulated as follows:

(5) $EYR_i = (v_i^*) (E_i/E) (E/Y)$,

where *E* is the value of total exports of the economy and $v_i^* = a^V L_i$.

The first factor of the product in (6) depends on meso-economic policies (for example, cluster policies) of reinforcement of the industrial network; the second depends on sectoral measures for improving the exports of each industry i; the third depends on macroeconomic policies for improving the exports of all sectors.

Each industry can be classified according to the value of EYR_i and, with more detail, by each one of the two first factors (as the third is equal for all). It is particularly interesting to see the "export specialization" of each country and its evolution in time.

2.3 Net growth (or efficiency) and external dependency effects

The Rasmussen traditional method of using compact indicators from the output multipliers matrix (Leontief inverse) is one of the classical references for the analysis of intersectoral relations. It is well known that this matrix is obtained by solving an n equations system that equates sector productions to possible uses: intermediate and final demand. This system can be represented as follows:

$$(6) \boldsymbol{x} = \boldsymbol{A} \boldsymbol{x} + \boldsymbol{y},$$

where A is the (domestic) technical coefficients matrix; x is the sectoral gross output vector and y is the (domestic) sectoral final demand vector.

The solution of this system is:

$$(7) \boldsymbol{x} = \boldsymbol{L} \boldsymbol{y},$$

with $\mathbf{L} = (\mathbf{I} - \mathbf{A})^{-1}$

Each element of L is an output multiplier, giving the total (direct plus indirect) effect in one's sector output of a unitary increase in domestic final demand of a given sector. That is, l_{ij} is the global impact on the sector i output when the domestic final demand of sector j increases by one unity.

Particular interest in this context has the notion of backward linkage indicators:

(8)
$$l_{0j} = \sum_{i=1}^{n} l_{ij}$$
 (j = 1, ..., n)

This indicator results from summing up the n values of column j and gives the effect on total output (of all sectors) of a unitary change in the final demand directed to j sector. The larger the value of this coefficient, the larger will be the impact of this increase of the final demand on the sector concerned and on all the others.

The backward linkage indicators can be used to evaluate the gains in the capacity of an economy to generate value added and the changes in external dependency of an economy from one year to another.

The overall effect of a unity change of final demand is the sum of three terms: interindustry flows, value added and imported inputs. Moreover, an important property applies: the second and last terms sum up unity, exactly the value of the initial (exogenous) stimulus, and this is so because in equilibrium the total value of sectoral final demand equals the gross value added plus imported inputs of all sectors.

Using this property, and after a convenient arrangement of terms, the evolution of backward linkage indicators, value added and imported input coefficients over time can be used to detect structural changes in the economy.

Particularly, we can quantify the capacity to generate more (or less) value-added by unity of final demand (what in some sense we can call an 'efficiency effect', although a peculiar one¹), and the need to import more (or less) intermediate inputs (a certain kind of 'external dependency effect'). And we can classify the productive sectors according to the particular combination of both effects, finding a new kind of "key sectors", those presenting a positive "efficiency" change and a negative "dependency" change.

One way to express formally these ideas is as follows. Considering a unitary increase in j sector's final demand, $\Delta y_i = 1$, its effects on total production are:

(9)
$$\Sigma_i \Delta x_i = \Sigma_i l_{ij} = l_{0j}$$

By the equilibrium condition between total sectoral final demand and total primary inputs, we have:

(10)
$$\Delta \mathbf{y}_j = 1 \Longrightarrow \Delta (\Sigma_i \mathbf{v}_i + \Sigma_i \mathbf{m}_i) = 1,$$

where v_i and m_i are the value added and the value of imported inputs used by sector *i*.

Defining, and assuming as constants, the value-added coefficients $(a^{v_i} = v_i/x_i)$ as well as the imported inputs coefficients $(a^{m_i} = m_i/x_i)$, we have:

(11) $1 = \sum_{i} l_{ij} a^{v}_{i} + \sum_{i} l_{ij} a^{m}_{i}$

Dividing both sides of (12) by l_{0j} :

(12)
$$1/l_{0j} = \sum_{i} (l_{ij} a^{\nu}_{i}) / \sum_{i} l_{ij} + \sum_{i} (l_{ij} a^{m}_{i}) / \sum_{i} l_{ij},$$

¹ In order to avoid terminological confusion we call this 'efficiency effect' a 'net growth effect'.

and, representing by v_{j}^{*} and m_{j}^{*} the terms in the right hand side of (13) (the weighted average of value-added and imported inputs coefficients, respectively), we arrive finally at:

(13)
$$\mathbf{1} = l_{0j} (v^*_j + m^*_j).$$

This expression can be used in a dynamic (or, as in the present paper, in a comparative static) exercise to detect and quantify the changes in the productive structure of an economy.

Suppose that, for each sector j, we have, between two given years, a **decrease in** l_{0j} . This means that, in order to satisfy a unitary increase in sector j final demand it is necessary a smaller increase in the global production of the economy.

It is also true that, in this case, we must have $\Delta m^*_j + \Delta v^*_j > 0$, and so four situations are possible, in a two dimensional space with axes Δv^*_j and Δm^*_j :

- when Δν*_j > 0 and Δm*_j < 0, the decrease in b_{0j} goes with a larger capacity to generate value added (a beneficial 'net' growth effect) and a lower necessity of imported inputs (a reduced external dependency effect) let's call this area A, the most virtuous one;
- if Δv*_j > 0, Δm*_j > 0 and Δv*_j/Δm*_j > 1, there is a simultaneous increase in 'net growth effect' and 'external dependency', with the first dominating the second (area B);
- with $\Delta m^*_{j} > 0$, $\Delta v^*_{j} > 0$, but $\Delta m^*_{j} / \Delta v^*_{j} > 1$, the increase in 'external dependency' is relatively more significant than the increase in 'net growth effect' (area C);
- finally, with Δm*_j > 0 and Δv*_j < 0, the decrease in b_{0j} is totally due to an increase in 'external dependency', with a simultaneous decrease in the capacity to generate value added (area D, the most disadvantageous situation).

For the case of a l_{0j} increase we must have $\Delta m^*{}_j + \Delta v^*{}_j < 0$, a worse situation for the economy, at least from the 'capacity to generate more value added' point of view. The four possible areas now are (in a descending order):

- Area A':
$$\Delta v_j^* > 0$$
 and $\Delta m_j^* < 0$, with $\Delta v_j^* < |\Delta m_j^*|$

- Area B':
$$\Delta v_j^* < 0$$
 and $\Delta m_j^* < 0$, with $|\Delta v_j^*| < |\Delta m_j^*|$

- Area C':
$$\Delta v_j^* < 0$$
 and $\Delta m_j^* < 0$, with $|\Delta v_j^*| > |\Delta m_j^*|$

- Area D':
$$\Delta v_j^* < 0$$
 and $\Delta m_j^* > 0$, with $|\Delta v_j^*| > \Delta m_j^*$

In practical terms, a suggestive way of analysis is the graphical presentation of Δv^*_j and Δm^*_j values in the two-dimensional space above described, distributing the position of the sectors in the possible areas A, B, C, D (for a l_{0j} decrease) and A', B', C', D' (for a l_{0j} increase). The structural change is more beneficial to an economy when more sectors concentrate on A and A' areas and less on areas D and D'.

3. Empirical application

In this section the methods and techniques described in section 2 are applied to a group of euro-area countries, divided in two subgroups, named North-EA (Germany, Netherlands, Finland and Ireland) and South-EA (Greece, Italy, Portugal and Spain).

The main purpose is to show, from an input-output perspective, the different structural conditions of productive efficiency and external competitiveness of both groups, a subject of major importance in all circumstances, but overwhelmingly so after the serious global economic crisis of 200872009 and subsequent sovereign debt crises of Eurozone periphery countries.

The main database used was the national input-output tables of these eight countries from WIOD and the period covered corresponds to all the years for which data was available: 1995-2011. For a detailed description of this database see Timmer (2012).

The main results obtained are organized in the 3 subsections of section 2 and were the following.

3.1 Trade imbalances and domestic final demand excess or insufficiency in Euro-Area northern and southern countries

It is a fact well known that southern EA countries (particularly Greece and Portugal) have accumulated in several years before the great recession strong trade and current account imbalances. The other side of this coin is the corresponding large surplus of these accounts in the northern countries (particularly Germany). The numbers, in percentage of GDP, are illustrated in Table 1.

< Table 1 here >

The contribution of our input-output based analysis to this subject is to quantify the connection between these negative or positive trade imbalances and the respective excess or insufficiency of domestic final demand level, relative to the trade balanced situation. The suggestive results of Table 2 allow us to conclude that in Greece the average excess of domestic final demand is more than 14% of GDP and in Portugal it is almost 12%. This excess is much lower in Spain (4%) and it does not even exist in Italy, a country with no trade and current account problems. On the other side, Germany have had in this period a weak domestic final demand, around -5% of GDP relative to the value equilibrating its trade balance, and the situation is even more pronounced in the other northern countries (-10,3% in the Netherlands; -8,4% in Finland). Remarkable is the situation of one of the most punished countries by the sovereign debt crisis of 2010/2011, Ireland, with a large trade surplus of almost 14% of GDP, and a corresponding "insufficiency" of domestic final demand of 26%, showing that this country is in fact "northern" and not "southern" (or "peripherical") in efficiency and competitiveness matters, and will recover easily after its bank crisis is resolved.

< Table 2 here >

3.2 Export contribution to GDP: a sectoral analysis of Euro-Area northern and southern countries

According to the methodology proposed in sub-section 2.2, the relative contribution of each sector's export to GDP is measured by $EYR_i = (v_i^*) (E_i/E) (E/Y)$, depending on three factors: the value added associated with an unitary increase in sector's i exports, the weight of sector's i exports in total exports and the weight of total exports in GDP.

Starting by the last factor - the least interesting as it is common to all sectors in each country - the results of Table 3 show that the southern countries are considerably less open to international trade, as far as exports is concerned, particularly Greece, with a ratio of only 15%, and the other countries always under 30%, while the northern countries are very open, including Germany, a relatively large economy, mainly after 2000, but especially Ireland, with more than 100% in 2011.

< Table 3 here >

The first indicator in the right hand product, v_i^* , is also not very informative, because it tends to be similar in all countries, with service sectors at the top of the scale. This can be confirmed in the results presented on Table 4, showing the top 10 sectors for each of the eight countries studied here.

< Table 4 here >

Let us look carefully, then, to the second right hand factor of the product, direct export specialization of the countries, and emphasize that the northern countries have an

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advantage in this context, with a larger role played by technologically advanced sectors, particularly in Germany (Transport Equipment; Electrical and Optical Equipment; Machinery; Chemicals), while in southern, more peripheral countries (Greece and Portugal) the so-called traditional sectors prevail (Textiles, Food, Beverages and Tobacco, Pulp, Paper and Printing). However, particularly in Portugal, an upgrade along the exports quality ladder has been made between 1995 and 2011.

< Table 5 here >

Combining the three previous factors, everything converges to a worse export specialization in the southern countries, measured by the relative contribution of export sectors to GDP, EYR_i , as it is well illustrated in the results of Table 6.

< Table 6 here >

In this context, as the value added multiplier tends to be larger in the case of traditional sectors, the predominant role of these sectors in Euro-Area southern countries is even clearer. For example, in Portugal the main exporting sector since 2005 is Transport Equipment, with Textiles in the second position, while in terms of export contribution to GDP Textiles comes first in all years and Transport Equipment falls to fourth in 2011.

3.3 Net growth (or efficiency) and external dependency effects in Euro-Area countries

In order to better understand and compare the evolution of the productive structure at the sectoral level in southern and northern Euro Area Countries, the methodology presented in sub-section 2.3 was applied to these cases, considering changes for the entire period under consideration, 1995-2011.

The results for each country are shown in Tables 7 to 12. As Italy and Ireland are in a certain sense atypical countries, in its respective sub-groups, for economy of space its results are omitted.

< Tables 7 to 12 here >

According to this method, the improvement of sectoral productive conditions is expected to provoke declines in output multipliers (\mathbf{l}_{0j}) , in the sense that the same level of final demand requires lower gross output values, associated to increases in value added indicators, v_{j}^{*} and decreases in imported inputs indicators, \mathbf{m}_{0j} . This means that the more virtuous area is A.

The surprising result obtained in this application to several Euro area countries is the remarkable absence of sectors in this virtuous area in most of the northern countries, and the apparent better performance of Greece, with eight sectors in this area, and Portugal with three. One possible explanation for this puzzling outcome is the effect of greater imported input coefficients in northern, more competitive, economies due to a more intense integration in global value chains, and delocalization of intermediate inputs production to eastern European countries (Timmer et al, 2012; 2013), but this conjecture needs more, and careful, research.

4. Concluding remarks

In this paper, an input-output approach was used to study the large differences of competitiveness and growth potential between several northern and southern countries of the Euro area, namely the connection between current account (trade) imbalances and domestic final demand levels, as well as the sectoral specialization of tradable goods and services production.

The empirical results of the paper are based on input-output tables for several years: 1995, 2000, 2005 and 2008, available in the World Input Output Database. The northern euro-area group is formed by Germany, Netherlands, Finland and Ireland. The southern is the so-called GIPS group (Greece, Italy, Portugal and Spain).

In the uncompetitive (current account deficit) economies of southern euro area, domestic final demand levels are in excess of its equilibrium values and the opposite occurs in the strong, competitive economies of the north. Particularly serious imbalances were found, and quantified, in Greece and Portugal, in the southern side, and in Ireland, The Netherlands, Finland and Germany, in the northern.

These external imbalances were accompanied and explained by a different geographic pattern of specialization favorable to the northern euro-area countries, in which prevail an export pattern based on sectors with higher value added and more intensive technological activities. The southern countries, Portugal and above all Greece, but not so much Spain and Italy, have the bulk of their exports made by traditional sectors. This is even more pronounced when the ranking of export sectors is based on an input-output indicator proposed in this paper, given the higher domestic value added content of these labor intensive sectors, and not so dependent of imported intermediate inputs, given its lower integration in global value chains.

The external dependency and value added generation capacity of the productive sectors of these economies were also quantified, with a new treatment of inter-industry output multipliers which follows closely Amaral et al (2011). The (gross) output growth potential given by the column sums of the Leontief inverse matrix (backward linkage indicators) results from three terms: inter-industry flows, value added and imported inputs. After a convenient arrangement of these terms, the evolution of backward linkage indicators can be used to detect structural changes, particularly quantifying a

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(net) growth effect (more value-added generation) and an external dependency effect (more imported inputs), and to classify the productive sectors accordingly.

External dependency is not necessarily bad. It may be the result of increased benefits from international division of labour and a more intense integration in global value chains. What is not *a priori* desirable is that the decrease in production needed to satisfy an increase in domestic demand should be a consequence of domestic production being supplanted by imports. However, one of the main results of this paper, and a somewhat puzzling, is that in the more competitive economies of the Euro area, namely Germany, no sectors appear in the more virtuous area of greater value added generation and lower external dependency.

This results calls for more, and careful, research and one of the possible ways to do so is using a concept of multiplier that is immune to variations in the structure of final demand: the singular value decomposition method proposed in Ciaschini (1993) and refined with the notion of Euclidean distance multiplier proposed in Amaral et al (2012).

It is important to emphasise that, although conditioned by the well-known limitations of the traditional gross multipliers (Oosterhaven and Stelder, 2002), the methods proposed in this paper can be used as simple, but suggestive, devices to study the structural changes of the economies along those development paths and to quantify its external imbalances.

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APPENDIX: Tables

		Euro - S	outh		Euro - North				
Year	PRT	GRC	ESP	ITA	DEU	NDL	FIN	IRL	
1995	-6,69	-8,12	0,00	3,84	0,60	5,67	7,49	9,25	
1996	-7,11	-8,83	0,51	4,72	0,96	5,28	6,96	11,26	
1997	-8,11	-8,42	0,83	3,93	1,29	5,67	7,36	16,18	
1998	-9,21	-10,17	-0,21	3,22	1,37	4,69	8,06	11,80	
1999	-10,32	-10,32	-1,76	1,92	0,88	4,22	9,16	13,89	
2000	-10,98	-13,75	-2,97	0,95	0,31	5,55	9,15	13,35	
2001	-10,21	-13,51	-2,40	1,39	1,98	5,79	9,33	15,49	
2002	-8,28	-13,98	-2,03	0,94	4,50	6,51	9,26	17,14	
2003	-6,78	-12,58	-2,27	0,54	3,92	6,29	6,80	16,00	
2004	-8,29	-10,29	-3,83	0,70	5,05	7,37	6,50	14,87	
2005	-9,38	-9,27	-5,07	-0,06	5,21	8,53	4,07	11,66	
2006	-8,49	-11,46	-6,13	-0,82	5,62	7,74	4,70	9,63	
2007	-7,72	-14,11	-6,46	-0,25	7,00	8,22	5,12	9,01	
2008	-9,69	-14,49	-5,54	-0,83	6,30	8,31	3,77	9,05	
2009	-7,28	-11,47	-2,07	-0,53	4,92	7,00	1,63	16,02	
2010	-7,28	-9,27	-2,41	-1,99	5,62	8,06	1,34	18,66	
2011	-7,28	-8,11	-1,12	-1,42	5,20	8,58	-0,74	21,65	
Aver.	-8,42	-11,07	-2,53	0,96	3,57	6,68	5,88	13,82	

Table 1: Net exports / GDP (%) - Euroarea

Source: AMECO

		Euro - S	South		Euro - North				
Year	PRT	GRC	ESP	ITA	DEU	NDL	FIN	IRL	
1995	9,37	11,18	0,57	-4,38	-0,48	-8,26	-10,32	-19,97	
1996	9,86	11,81	-0,05	-5,46	-1,01	-7,64	-9,66	-20,28	
1997	11,16	12,69	-0,39	-4,42	-1,45	-8,36	-10,37	-22,73	
1998	12,52	13,65	0,96	-3,44	-1,61	-6,64	-11,25	-19,94	
1999	13,66	13,43	2,98	-1,94	-0,98	-5,90	-12,92	-25,70	
2000	14,95	17,81	4,87	-0,76	-0,30	-8,31	-13,71	-26,46	
2001	13,89	17,92	4,00	-1,34	-2,50	-8,52	-13,60	-32,00	
2002	11,43	17,40	3,37	-0,86	-5,93	-9,53	-13,33	-34,30	
2003	9,58	15,33	3,61	-0,38	-5,16	-9,13	-9,50	-30,97	
2004	11,58	13,24	5,59	-0,58	-6,88	-11,16	-9,35	-28,88	
2005	13,05	12,56	7,19	0,43	-7,31	-13,41	-5,90	-21,52	
2006	12,22	13,94	8,73	1,46	-8,12	-12,28	-7,15	-16,53	
2007	11,21	16,07	9,20	0,69	-10,44	-13,13	-7,78	-15,26	
2008	14,02	17,31	8,05	1,28	-9,47	-13,69	-5,65	-15,62	
2009	10,02	13,25	3,18	0,82	-6,76	-10,83	-2,12	-29,51	
2010	10,02	13,21	3,84	2,72	-7,97	-13,42	-1,61	-38,63	
2011	10,09	13,25	2,26	2,16	-7,35	-15,29	1,40	-45,72	
Aver.	11,69	14,36	4,00	-0,82	-4,92	-10,32	-8,40	-26,12	

Table 2: (E*/D*) - (E/D) (%) - Euroarea

Table 3: Exports/GDP (E/Y), %

	1995	2000	2005	2011
PRT	26,25	28,20	27,14	25,97
GRE	14,46	15,23	16,18	15,06
ESP	19,21	25,61	23,02	26,89
ITA	24,73	26,22	25,46	28,61
DEU	24,32	34,29	41,60	46,42
NLD	54,84	58 <i>,</i> 68	56,62	66,80
FIN	38,44	45,37	43,44	42,91
IRL	77,50	98,29	85,11	103,81

Source: AMECO

								1
	PORTUGAL 1995			GREECE 1995			SPAIN 1995	
c28	Financial Intermediation	0,941	c27	Post and Telecommunication	0,971	c28	Financial Intermediation	0,955
c26	Oth. S. A. Transp. Activ.	0,937	c28	Financial Intermediation	0,968	c27	Post and Telecommunicatio	0,953
c27	Post and Telecommunic.	0,901	c34	Other Community, Social ar	0,939	c20	Wholesale Trade and Com	0,933
c1	Agriculture, Hunting, F. F.	0,889	c30	Renting of M&Eq and Other	0,927	c34	Other Community, Social ar	0,931
c23	Inland Transport	0,874	c20	Wholesale Trade and Com	0,920	c22	Hotels and Restaurants	0,927
c20	Wholesale Trade	0,873	c17	Electricity, Gas and Water	0,919	c30	Renting of M&Eq and Other	0,922
c2	Mining and Quarrying	0,872	c1	Agriculture, Hunting, Fores	0,910	c1	Agriculture, Hunting, Fores	0,917
c30	Renting M&Eq, O. Bus. A.	0,869	c2	Mining and Quarrying	0,907	c26	Other Supporting and Auxi	0,885
c17	Electricity, Gas and Water	0,865	c22	Hotels and Restaurants	0,903	c23	Inland Transport	0,885
c22	Hotels and Restaurants	0,849	c11	Other Non-Metallic Mineral	0,861	c2	Mining and Quarrying	0,879
	PORTUGAL 2000			GREECE 2000			SPAIN 2000	
c28	Financial Intermediation	0,926	c28	Financial Intermediation	0,931	c28	Financial Intermediation	0,930
c26	Oth. S. A. Transp. Activ.	0,892	c34	Other Community, Social ar	0,904	c22	Hotels and Restaurants	0,904
c30	Renting M&Eq, O. Bus. A.	0,877	c27	Post and Telecommunication	0,889	c20	Wholesale Trade and Com	0,899
c27	Post and Telecommunic.	0,866	c20	Wholesale Trade and Com	0,882	c34	Other Community, Social ar	0,893
c20	Wholesale Trade	0,864	c22	Hotels and Restaurants	0,882	c30	Renting of M&Eq and Other	0,886
c1	Agriculture, Hunting, F. F.	0,853	c1	Agriculture, Hunting, Fores	0,879	c1	Agriculture, Hunting, Fores	0,883
c22	Hotels and Restaurants	0,846	c30	Renting of M&Eq and Other	0,870	c27	Post and Telecommunicatio	0,867
c2	Mining and Quarrying	0,838	c2	Mining and Quarrying	0,863	c23	Inland Transport	0,835
c23	Inland Transport	0,827	c17	Electricity, Gas and Water	0,832	c26	Other Supporting and Auxi	0,822
c24	Water Transport	0,805	c11	Other Non-Metallic Mineral	0,814	c24	Water Transport	0,811
c24	Water Transport PORTUGAL 2005	0,805	c11	Other Non-Metallic Mineral GREECE 2005	0,814	c24	Water Transport SPAIN 2005	0,811
c24 c28	Water Transport PORTUGAL 2005 Financial Intermediation	0,805 0,933	c11 c28	Other Non-Metallic Mineral GREECE 2005 Financial Intermediation	0,814	c24 c28	Water Transport SPAIN 2005 Financial Intermediation	0,811
c24 c28 c26	Water Transport PORTUGAL 2005 Financial Intermediation Oth. S. A. Transp. Activ.	0,805 0,933 0,887	c11 c28 c27	Other Non-Metallic Mineral GREECE 2005 Financial Intermediation Post and Telecommunicatio	0,814 0,951 0,951	c24 c28 c22	Water Transport SPAIN 2005 Financial Intermediation Hotels and Restaurants	0,811 0,931 0,907
c24 c28 c26 c30	Water Transport PORTUGAL 2005 Financial Intermediation Oth. S. A. Transp. Activ. Renting M&Eq, O. Bus. A.	0,805 0,933 0,887 0,883	c11 c28 c27 c34	Other Non-Metallic Mineral GREECE 2005 Financial Intermediation Post and Telecommunicatic Other Community, Social ar	0,814 0,951 0,951 0,903	c24 c28 c22 c34	Water Transport SPAIN 2005 Financial Intermediation Hotels and Restaurants Other Community, Social ar	0,811 0,931 0,907 0,901
c24 c28 c26 c30 c20	Water Transport PORTUGAL 2005 Financial Intermediation Oth. S. A. Transp. Activ. Renting M&Eq, O. Bus. A. Wholesale Trade	0,805 0,933 0,887 0,883 0,865	c11 c28 c27 c34 c17	Other Non-Metallic Mineral GREECE 2005 Financial Intermediation Post and Telecommunicatic Other Community, Social ar Electricity, Gas and Water	0,814 0,951 0,951 0,903 0,888	c24 c28 c22 c34 c30	Water Transport SPAIN 2005 Financial Intermediation Hotels and Restaurants Other Community, Social ar Renting of M&Eq and Other	0,811 0,931 0,907 0,901 0,901
c24 c28 c26 c30 c20 c22	Water Transport PORTUGAL 2005 Financial Intermediation Oth. S. A. Transp. Activ. Renting M&Eq, O. Bus. A. Wholesale Trade Hotels and Restaurants	0,805 0,933 0,887 0,883 0,865 0,859	c11 c28 c27 c34 c17 c22	Other Non-Metallic Mineral GREECE 2005 Financial Intermediation Post and Telecommunicatic Other Community, Social at Electricity, Gas and Water Hotels and Restaurants	0,814 0,951 0,953 0,903 0,888 0,886	c24 c28 c22 c34 c30 c20	Water Transport SPAIN 2005 Financial Intermediation Hotels and Restaurants Other Community, Social ar Renting of M&Eq and Other Wholesale Trade and Com	0,811 0,931 0,907 0,901 0,901 0,900
c24 c28 c26 c30 c20 c22 c27	Water Transport PORTUGAL 2005 Financial Intermediation Oth. S. A. Transp. Activ. Renting M&Eq, O. Bus. A. Wholesale Trade Hotels and Restaurants Post and Telecommunic.	0,805 0,933 0,887 0,883 0,865 0,859 0,856	c11 c28 c27 c34 c17 c22 c20	Other Non-Metallic Mineral GREECE 2005 Financial Intermediation Post and Telecommunicatio Other Community, Social ar Electricity, Gas and Water Hotels and Restaurants Wholesale Trade and Com	0,814 0,951 0,951 0,903 0,888 0,886 0,886	c24 c28 c22 c34 c30 c20 c1	Water Transport SPAIN 2005 Financial Intermediation Hotels and Restaurants Other Community, Social ar Renting of M&Eq and Other Wholesale Trade and Com Agriculture, Hunting, Fores	0,811 0,931 0,907 0,901 0,901 0,900 0,880
c24 c28 c26 c30 c20 c22 c27 c34	Water Transport PORTUGAL 2005 Financial Intermediation Oth. S. A. Transp. Activ. Renting M&Eq, O. Bus. A. Wholesale Trade Hotels and Restaurants Post and Telecommunic. Oth. Community, S. P. Ser.	0,805 0,933 0,887 0,883 0,865 0,859 0,856 0,856	c11 c28 c27 c34 c17 c22 c20 c30	Other Non-Metallic Mineral GREECE 2005 Financial Intermediation Post and Telecommunicatic Other Community, Social ar Electricity, Gas and Water Hotels and Restaurants Wholesale Trade and Com Renting of M&Eq and Other	0,814 0,951 0,953 0,903 0,888 0,886 0,886 0,884	c24 c28 c22 c34 c30 c20 c1 c27	Water Transport SPAIN 2005 Financial Intermediation Hotels and Restaurants Other Community, Social ar Renting of M&Eq and Other Wholesale Trade and Com Agriculture, Hunting, Fores Post and Telecommunicatiq	0,811 0,931 0,907 0,901 0,901 0,900 0,880 0,863
c24 c28 c26 c30 c20 c22 c27 c34 c1	Water Transport PORTUGAL 2005 Financial Intermediation Oth. S. A. Transp. Activ. Renting M&Eq, O. Bus. A. Wholesale Trade Hotels and Restaurants Post and Telecommunic. Oth. Community, S. P. Ser. Agriculture, Hunting, F. F.	0,805 0,933 0,887 0,883 0,865 0,859 0,856 0,859 0,856 0,859	c11 c28 c27 c34 c17 c22 c20 c20 c30 c1	Other Non-Metallic Mineral GREECE 2005 Financial Intermediation Post and Telecommunicatic Other Community, Social at Electricity, Gas and Water Hotels and Restaurants Wholesale Trade and Com Renting of M&Eq and Other Agriculture, Hunting, Fores	0,814 0,951 0,951 0,903 0,888 0,888 0,886 0,886 0,884 0,881	c24 c28 c22 c34 c30 c20 c1 c27 c26	Water Transport SPAIN 2005 Financial Intermediation Hotels and Restaurants Other Community, Social ar Renting of M&Eq and Other Wholesale Trade and Com Agriculture, Hunting, Fores Post and Telecommunicatic Other Supporting and Auxi	0,811 0,931 0,907 0,901 0,900 0,880 0,883 0,830
c24 c28 c26 c30 c20 c22 c27 c34 c1 c23	Water Transport PORTUGAL 2005 Financial Intermediation Oth. S. A. Transp. Activ. Renting M&Eq, O. Bus. A. Wholesale Trade Hotels and Restaurants Post and Telecommunic. Oth. Community, S. P. Ser. Agriculture, Hunting, F. F. Inland Transport	0,805 0,933 0,887 0,883 0,865 0,859 0,859 0,856 0,847 0,839 0,800	c11 c28 c27 c34 c17 c22 c20 c30 c1 c26	Other Non-Metallic Mineral GREECE 2005 Financial Intermediation Post and Telecommunicatio Other Community, Social at Electricity, Gas and Water Hotels and Restaurants Wholesale Trade and Com Renting of M&Eq and Other Agriculture, Hunting, Fores Other Supporting and Auxi	0,814 0,951 0,951 0,903 0,888 0,886 0,886 0,886 0,884 0,881 0,852	c24 c28 c22 c34 c20 c20 c1 c27 c26 c23	Water Transport SPAIN 2005 Financial Intermediation Hotels and Restaurants Other Community, Social ar Renting of M&Eq and Other Wholesale Trade and Com Agriculture, Hunting, Fores Post and Telecommunicatic Other Supporting and Auxi Inland Transport	0,811 0,931 0,907 0,901 0,900 0,880 0,863 0,830 0,830 0,815
c24 c28 c26 c30 c20 c22 c27 c34 c1 c23 c2	Water Transport PORTUGAL 2005 Financial Intermediation Oth. S. A. Transp. Activ. Renting M&Eq, O. Bus. A. Wholesale Trade Hotels and Restaurants Post and Telecommunic. Oth. Community, S. P. Ser. Agriculture, Hunting, F. F. Inland Transport Mining and Quarrying	0,805 0,933 0,887 0,883 0,865 0,859 0,856 0,856 0,856 0,859 0,856 0,847 0,839 0,800 0,796	c11 c28 c27 c34 c17 c22 c20 c30 c1 c26 c2	Other Non-Metallic Mineral GREECE 2005 Financial Intermediation Post and Telecommunicatic Other Community, Social ar Electricity, Gas and Water Hotels and Restaurants Wholesale Trade and Com Renting of M&Eq and Other Agriculture, Hunting, Fores Other Supporting and Auxi Mining and Quarrying	0,814 0,951 0,903 0,888 0,886 0,886 0,884 0,884 0,881 0,852 0,840	c24 c28 c22 c34 c30 c20 c1 c27 c26 c23 c11	Water Transport SPAIN 2005 Financial Intermediation Hotels and Restaurants Other Community, Social ar Renting of M&Eq and Other Wholesale Trade and Comm Agriculture, Hunting, Fores Post and Telecommunicatio Other Supporting and Auxi Inland Transport Other Non-Metallic Mineral	0,811 0,931 0,907 0,901 0,900 0,880 0,883 0,830 0,815 0,804
c24 c28 c26 c30 c20 c22 c27 c34 c1 c23 c2	Water Transport PORTUGAL 2005 Financial Intermediation Oth. S. A. Transp. Activ. Renting M&Eq, O. Bus. A. Wholesale Trade Hotels and Restaurants Post and Telecommunic. Oth. Community, S. P. Ser. Agriculture, Hunting, F. F. Inland Transport Mining and Quarrying PORTUGAL 2011	0,805 0,933 0,887 0,883 0,865 0,859 0,856 0,856 0,856 0,847 0,839 0,800 0,796	c11 c28 c27 c34 c17 c22 c20 c30 c1 c26 c2	Other Non-Metallic Mineral GREECE 2005 Financial Intermediation Post and Telecommunicatic Other Community, Social at Electricity, Gas and Water Hotels and Restaurants Wholesale Trade and Com Renting of M&Eq and Other Agriculture, Hunting, Fores Other Supporting and Auxi Mining and Quarrying GREECE 2011	0,814 0,951 0,903 0,888 0,886 0,886 0,886 0,884 0,881 0,852 0,840	c24 c28 c22 c34 c20 c20 c1 c27 c26 c23 c11	Water Transport SPAIN 2005 Financial Intermediation Hotels and Restaurants Other Community, Social ar Renting of M&Eq and Other Wholesale Trade and Command Agriculture, Hunting, Fores Post and Telecommunicatic Other Supporting and Auxi Inland Transport Other Non-Metallic Mineral SPAIN 2011	0,811 0,931 0,907 0,901 0,900 0,880 0,883 0,830 0,815 0,804
c24 c28 c26 c30 c20 c22 c27 c34 c1 c23 c2 c2 c22	Water Transport PORTUGAL 2005 Financial Intermediation Oth. S. A. Transp. Activ. Renting M&Eq, O. Bus. A. Wholesale Trade Hotels and Restaurants Post and Telecommunic. Oth. Community, S. P. Ser. Agriculture, Hunting, F. F. Inland Transport Mining and Quarrying PORTUGAL 2011 Financial Intermediation	0,805 0,933 0,887 0,883 0,865 0,859 0,859 0,856 0,847 0,839 0,800 0,796	c11 c28 c27 c34 c17 c22 c20 c30 c1 c26 c2 c2	Other Non-Metallic Mineral GREECE 2005 Financial Intermediation Post and Telecommunicatic Other Community, Social and Electricity, Gas and Water Hotels and Restaurants Wholesale Trade and Comm Renting of M&Eq and Other Agriculture, Hunting, Fores Other Supporting and Auxi Mining and Quarrying GREECE 2011 Post and Telecommunicatic	0,814 0,951 0,951 0,903 0,888 0,888 0,886 0,884 0,881 0,881 0,852 0,840 0,956	c24 c28 c22 c34 c20 c1 c27 c26 c23 c11 c28	Water Transport SPAIN 2005 Financial Intermediation Hotels and Restaurants Other Community, Social ar Renting of M&Eq and Other Wholesale Trade and Com Agriculture, Hunting, Fores Post and Telecommunicatic Other Supporting and Auxi Inland Transport Other Non-Metallic Mineral SPAIN 2011 Financial Intermediation	0,811 0,931 0,907 0,901 0,900 0,880 0,883 0,830 0,815 0,804 0,914
c24 c28 c26 c30 c22 c27 c34 c1 c23 c2 c28 c20	Water Transport PORTUGAL 2005 Financial Intermediation Oth. S. A. Transp. Activ. Renting M&Eq, O. Bus. A. Wholesale Trade Hotels and Restaurants Post and Telecommunic. Oth. Community, S. P. Ser. Agriculture, Hunting, F. F. Inland Transport Mining and Quarrying PORTUGAL 2011 Financial Intermediation Wholesale Trade	0,805 0,933 0,887 0,883 0,865 0,859 0,856 0,859 0,856 0,859 0,856 0,847 0,839 0,800 0,796 0,940 0,940	c11 c28 c27 c34 c17 c22 c20 c30 c1 c26 c2 c27 c28	Other Non-Metallic Mineral GREECE 2005 Financial Intermediation Post and Telecommunicatic Other Community, Social ar Electricity, Gas and Water Hotels and Restaurants Wholesale Trade and Com Renting of M&Eq and Other Agriculture, Hunting, Fores Other Supporting and Auxi Mining and Quarrying GREECE 2011 Post and Telecommunicatic Financial Intermediation	0,814 0,951 0,903 0,888 0,886 0,886 0,886 0,884 0,881 0,852 0,840 0,956 0,956 0,942	c24 c28 c22 c34 c20 c1 c26 c23 c11 c28 c28 c220	Water Transport SPAIN 2005 Financial Intermediation Hotels and Restaurants Other Community, Social ar Renting of M&Eq and Other Wholesale Trade and Com Agriculture, Hunting, Fores Post and Telecommunicatic Other Supporting and Auxi Inland Transport Other Non-Metallic Mineral Financial Intermediation Hotels and Restaurants	0,811 0,931 0,907 0,901 0,900 0,880 0,863 0,830 0,815 0,804 0,914 0,914 0,899
c24 c28 c26 c30 c22 c27 c34 c1 c23 c2 c28 c20 c30	Water Transport PORTUGAL 2005 Financial Intermediation Oth. S. A. Transp. Activ. Renting M&Eq, O. Bus. A. Wholesale Trade Hotels and Restaurants Post and Telecommunic. Oth. Community, S. P. Ser. Agriculture, Hunting, F. F. Inland Transport Mining and Quarrying PORTUGAL 2011 Financial Intermediation Wholesale Trade Renting M&Eq, O. Bus. A.	0,805 0,933 0,887 0,883 0,865 0,859 0,856 0,856 0,856 0,847 0,839 0,800 0,796 0,940 0,940 0,881 0,877	c11 c28 c27 c34 c17 c22 c20 c1 c20 c1 c26 c2 c22 c27 c28 c34	Other Non-Metallic Mineral GREECE 2005 Financial Intermediation Post and Telecommunicatic Other Community, Social at Electricity, Gas and Water Hotels and Restaurants Wholesale Trade and Com Renting of M&Eq and Other Agriculture, Hunting, Fores Other Supporting and Auxi Mining and Quarrying GREECE 2011 Post and Telecommunicatic Financial Intermediation Other Community, Social at	0,814 0,951 0,903 0,888 0,886 0,886 0,886 0,886 0,884 0,881 0,852 0,840 0,852 0,840 0,956 0,942 0,911	c24 c28 c22 c34 c20 c1 c27 c26 c23 c11 c28 c22 c23 c11 c28 c22 c20	Water Transport SPAIN 2005 Financial Intermediation Hotels and Restaurants Other Community, Social ar Renting of M&Eq and Other Wholesale Trade and Common Agriculture, Hunting, Fores Post and Telecommunicatic Other Supporting and Auxi Inland Transport Other Non-Metallic Mineral SPAIN 2011 Financial Intermediation Hotels and Restaurants Wholesale Trade and Common	0,811 0,931 0,907 0,901 0,900 0,880 0,863 0,830 0,815 0,804 0,815 0,804 0,815 0,804
c24 c28 c26 c30 c22 c27 c34 c1 c23 c23 c2 c28 c20 c30 c30 c26	Water Transport PORTUGAL 2005 Financial Intermediation Oth. S. A. Transp. Activ. Renting M&Eq, O. Bus. A. Wholesale Trade Hotels and Restaurants Post and Telecommunic. Oth. Community, S. P. Ser. Agriculture, Hunting, F. F. Inland Transport Mining and Quarrying PORTUGAL 2011 Financial Intermediation Wholesale Trade Renting M&Eq, O. Bus. A. Oth. S. A. Transp. Activ.	0,805 0,933 0,887 0,883 0,865 0,859 0,859 0,859 0,859 0,859 0,859 0,847 0,839 0,800 0,796 0,940 0,940 0,881 0,877 0,868	c11 c28 c27 c34 c17 c22 c20 c30 c1 c26 c2 c2 c27 c28 c27 c28 c34 c34	Other Non-Metallic Mineral GREECE 2005 Financial Intermediation Post and Telecommunicatic Other Community, Social ar Electricity, Gas and Water Hotels and Restaurants Wholesale Trade and Com Renting of M&Eq and Other Agriculture, Hunting, Fores Other Supporting and Auxi Mining and Quarrying GREECE 2011 Post and Telecommunicatic Financial Intermediation Other Community, Social ar Hotels and Restaurants	0,814 0,951 0,903 0,888 0,886 0,886 0,886 0,884 0,881 0,852 0,840 0,956 0,942 0,911 0,900	c24 c28 c22 c34 c20 c1 c27 c26 c23 c11 c28 c22 c34 c20 c21 c22 c23 c11 c28 c22 c20 c30	Water Transport SPAIN 2005 Financial Intermediation Hotels and Restaurants Other Community, Social at Renting of M&Eq and Other Wholesale Trade and Com Agriculture, Hunting, Fores Post and Telecommunicatic Other Supporting and Auxi Inland Transport Other Non-Metallic Mineral Financial Intermediation Hotels and Restaurants Wholesale Trade and Com Renting of M&Eq and Other	0,811 0,931 0,907 0,901 0,900 0,880 0,863 0,863 0,863 0,863 0,863 0,815 0,804 0,815 0,804 0,815 0,804
c24 c28 c26 c30 c22 c27 c34 c1 c23 c2 c23 c2 c28 c20 c28 c20 c26 c26 c27	Water Transport PORTUGAL 2005 Financial Intermediation Oth. S. A. Transp. Activ. Renting M&Eq, O. Bus. A. Wholesale Trade Hotels and Restaurants Post and Telecommunic. Oth. Community, S. P. Ser. Agriculture, Hunting, F. F. Inland Transport Mining and Quarrying PORTUGAL 2011 Financial Intermediation Wholesale Trade Renting M&Eq, O. Bus. A. Oth. S. A. Transp. Activ. Post and Telecommunic.	0,805 0,933 0,887 0,883 0,865 0,859 0,856 0,859 0,850 0,847 0,839 0,800 0,796 0,940 0,940 0,881 0,877 0,868	c11 c28 c27 c34 c17 c22 c20 c30 c1 c26 c27 c28 c30 c1 c26 c27 c28 c34 c22 c23 c24	Other Non-Metallic Mineral GREECE 2005 Financial Intermediation Post and Telecommunicatic Other Community, Social ar Electricity, Gas and Water Hotels and Restaurants Wholesale Trade and Com Renting of M&Eq and Other Agriculture, Hunting, Fores Other Supporting and Auxi Mining and Quarrying GREECE 2011 Post and Telecommunicatic Financial Intermediation Other Community, Social ar Hotels and Restaurants Other Supporting and Auxi	0,814 0,951 0,903 0,888 0,886 0,886 0,886 0,884 0,882 0,882 0,852 0,840 0,956 0,942 0,956 0,942 0,911 0,900 0,897	c24 c28 c22 c34 c20 c1 c26 c23 c11 c28 c20 c21 c20 c21 c22 c34 c25 c26 c27 c26 c23 c11 c28 c20 c30 c30 c30 c30 c30 c30 c30	Water Transport SPAIN 2005 Financial Intermediation Hotels and Restaurants Other Community, Social ar Renting of M&Eq and Other Wholesale Trade and Com Agriculture, Hunting, Fores Post and Telecommunicatic Other Non-Metallic Mineral Other Non-Metallic Mineral Financial Intermediation Hotels and Restaurants Wholesale Trade and Com Renting of M&Eq and Other	0,811 0,931 0,907 0,901 0,900 0,880 0,863 0,830 0,815 0,804 0,914 0,991 0,899 0,899 0,895 0,893
c24 c28 c26 c30 c22 c27 c34 c1 c23 c2 c20 c21 c22 c27 c34 c20 c30 c26 c20 c30 c26 c27 c28 c20 c30 c26 c27 c22	Water Transport PORTUGAL 2005 Financial Intermediation Oth. S. A. Transp. Activ. Renting M&Eq, O. Bus. A. Wholesale Trade Hotels and Restaurants Post and Telecommunic. Oth. Community, S. P. Ser. Agriculture, Hunting, F. F. Inland Transport Mining and Quarrying PORTUGAL 2011 Financial Intermediation Wholesale Trade Renting M&Eq, O. Bus. A. Qth. S. A. Transp. Activ. Post and Telecommunic. Oth.	0,805 0,933 0,887 0,883 0,865 0,859 0,856 0,856 0,847 0,839 0,800 0,796 0,800 0,796 0,940 0,881 0,877 0,868 0,865 0,858	c11 c28 c27 c34 c17 c22 c20 c1 c26 c27 c28 c30 c1 c26 c27 c28 c30 c27 c28 c34 c27 c28 c34 c22 c26 c34 c22	Other Non-Metallic Mineral GREECE 2005 Financial Intermediation Post and Telecommunicatic Other Community, Social at Electricity, Gas and Water Hotels and Restaurants Wholesale Trade and Com Renting of M&Eq and Other Agriculture, Hunting, Fores Other Supporting and Auxi Mining and Quarrying GREECE 2011 Post and Telecommunicatic Financial Intermediation Other Community, Social ar Hotels and Restaurants Other Supporting and Auxi Wholesale Trade and Com	0,814 0,951 0,903 0,888 0,886 0,886 0,886 0,886 0,884 0,881 0,852 0,840 0,956 0,942 0,942 0,941 0,900 0,897 0,896	c24 c28 c22 c34 c20 c1 c27 c26 c23 c11 c28 c22 c34 c20 c31 c22 c33 c28 c20 c30 c34 c34 c34	Water Transport SPAIN 2005 Financial Intermediation Hotels and Restaurants Other Community, Social ar Renting of M&Eq and Other Wholesale Trade and Com Agriculture, Hunting, Fores Post and Telecommunicatic Other Supporting and Auxi Inland Transport Other Non-Metallic Mineral SPAIN 2011 Financial Intermediation Hotels and Restaurants Wholesale Trade and Com Renting of M&Eq and Other Other Supporting and Auxi Other Non-Metallic Mineral SPAIN 2011 Financial Intermediation Hotels and Restaurants Wholesale Trade and Com Renting of M&Eq and Other Other Community, Social ar Agriculture, Hunting, Fores	0,811 0,931 0,907 0,901 0,900 0,880 0,863 0,830 0,815 0,804 0,815 0,804 0,815 0,804 0,815 0,804 0,819 0,899 0,899 0,899 0,895 0,893 0,865
c24 c28 c26 c30 c22 c27 c34 c1 c23 c23 c22 c28 c20 c30 c26 c27 c22 c30 c22 c30 c22 c30 c22 c23 c23 c23 c23 c23 c23 c23 c23 c23	Water Transport PORTUGAL 2005 Financial Intermediation Oth. S. A. Transp. Activ. Renting M&Eq, O. Bus. A. Wholesale Trade Hotels and Restaurants Post and Telecommunic. Oth. Community, S. P. Ser. Agriculture, Hunting, F. F. Inland Transport Mining and Quarrying PORTUGAL 2011 Financial Intermediation Wholesale Trade Renting M&Eq, O. Bus. A. Oth. S. A. Transp. Activ. Post and Telecommunic. Hotels and Restaurants Oth. Community, S. P. Ser.	0,805 0,933 0,887 0,883 0,865 0,859 0,859 0,859 0,859 0,859 0,847 0,839 0,800 0,796 0,940 0,940 0,881 0,877 0,868 0,865 0,858 0,843	c11 c28 c27 c34 c17 c22 c30 c1 c26 c27 c28 c30 c1 c22 c26 c34 c27 c28 c34 c27 c28 c34 c22 c26 c20 c21 c22 c26 c20 c21 c22 c26 c20 c17	Other Non-Metallic Mineral GREECE 2005 Financial Intermediation Post and Telecommunicatic Other Community, Social ar Electricity, Gas and Water Hotels and Restaurants Wholesale Trade and Com Renting of M&Eq and Other Agriculture, Hunting, Fores Other Supporting and Auxi Mining and Quarrying GREECE 2011 Post and Telecommunicatic Financial Intermediation Other Community, Social ar Hotels and Restaurants Other Supporting and Auxi Wholesale Trade and Com Electricity, Gas and Water	0,814 0,951 0,951 0,903 0,888 0,888 0,886 0,884 0,884 0,881 0,852 0,840 0,852 0,840 0,956 0,942 0,941 0,900 0,942 0,911 0,900	c24 c28 c22 c34 c20 c1 c27 c26 c23 c11 c28 c22 c30 c21 c22 c34 c27 c30 c31 c22 c30 c30 c34 c1 c27	Water Transport SPAIN 2005 Financial Intermediation Hotels and Restaurants Other Community, Social at Renting of M&Eq and Other Wholesale Trade and Com Agriculture, Hunting, Fores Post and Telecommunicatic Other Non-Metallic Mineral Inland Transport Other Non-Metallic Mineral Financial Intermediation Hotels and Restaurants Wholesale Trade and Com Renting of M&Eq and Other Other Supporting and Auxi Inland Transport Other Non-Metallic Mineral Wholesale Trade and Com Renting of M&Eq and Other Other Community, Social at Agriculture, Hunting, Fores Post and Telecommunicatic	0,811 0,931 0,907 0,901 0,900 0,880 0,863 0,863 0,830 0,815 0,804 0,815 0,804 0,815 0,809 0,899 0,895 0,893 0,865 0,860
c24 c28 c20 c21 c22 c27 c34 c1 c23 c20 c23 c20 c34 c20 c30 c21 c23 c20 c30 c26 c27 c30 c26 c27 c30 c26 c30 c21 c32	Water Transport PORTUGAL 2005 Financial Intermediation Oth. S. A. Transp. Activ. Renting M&Eq, O. Bus. A. Wholesale Trade Hotels and Restaurants Post and Telecommunic. Oth. Community, S. P. Ser. Agriculture, Hunting, F. F. Inland Transport Mining and Quarrying PORTUGAL 2011 Financial Intermediation Wholesale Trade Renting M&Eq, O. Bus. A. Oth. S. A. Transp. Activ. Post and Telecommunic. Hotels and Restaurants Oth. S. A. Transp. Activ. Post and Telecommunic. Hotels and Restaurants Oth. Community, S. P. Ser. Mining and Quarrying	0,805 0,933 0,887 0,883 0,865 0,859 0,856 0,859 0,856 0,847 0,839 0,800 0,796 0,940 0,940 0,940 0,881 0,877 0,868 0,843 0,858	c11 c28 c27 c34 c17 c22 c20 c30 c1 c26 c27 c28 c30 c1 c26 c27 c28 c34 c22 c26 c32 c21 c22 c26 c34 c220 c17 c30	Other Non-Metallic Mineral GREECE 2005 Financial Intermediation Post and Telecommunicatic Other Community, Social ar Electricity, Gas and Water Hotels and Restaurants Wholesale Trade and Com Renting of M&Eq and Other Agriculture, Hunting, Fores Other Supporting and Auxi Mining and Quarrying GREECE 2011 Post and Telecommunicatic Financial Intermediation Other Community, Social ar Hotels and Restaurants Other Supporting and Auxi Wholesale Trade and Com Electricity, Gas and Water Renting of M&Eq and Other	0,814 0,951 0,903 0,888 0,886 0,886 0,886 0,884 0,884 0,882 0,852 0,840 0,956 0,942 0,956 0,942 0,911 0,900 0,956 0,942 0,911 0,900 0,897 0,896 0,889 0,882	c24 c28 c22 c34 c20 c1 c26 c23 c11 c28 c20 c34 c20 c30 c21 c22 c33 c11 c20 c30 c31 c20 c30 c31 c27 c26	Water Transport SPAIN 2005 Financial Intermediation Hotels and Restaurants Other Community, Social ar Renting of M&Eq and Other Wholesale Trade and Com Agriculture, Hunting, Fores Post and Telecommunicatic Other Non-Metallic Mineral Other Supporting and Auxi Inland Transport Other Non-Metallic Mineral Financial Intermediation Hotels and Restaurants Wholesale Trade and Com Renting of M&Eq and Other Other Non-Metallic Mineral Other Non-Metallic Mineral Other Non-Metallic Mineral Guther Non-Metallic Mineral Other Supporting and Auxi Hotels and Restaurants Wholesale Trade and Com Renting of M&Eq and Other Other Community, Social ar Agriculture, Hunting, Fores Post and Telecommunicatic Other Supporting and Auxi	0,811 0,931 0,907 0,901 0,900 0,880 0,863 0,863 0,815 0,804 0,815 0,804 0,914 0,914 0,899 0,899 0,899 0,895 0,893 0,865 0,860 0,833
c24 c28 c26 c30 c22 c27 c34 c1 c23 c2 c20 c30 c20 c30 c21 c22 c34 c20 c34 c22 c34 c2 c34 c2 c34 c2 c34	Water Transport PORTUGAL 2005 Financial Intermediation Oth. S. A. Transp. Activ. Renting M&Eq, O. Bus. A. Wholesale Trade Hotels and Restaurants Post and Telecommunic. Oth. Community, S. P. Ser. Agriculture, Hunting, F. F. Inland Transport Mining and Quarrying PORTUGAL 2011 Financial Intermediation Wholesale Trade Renting M&Eq, O. Bus. A. Oth. S. A. Transp. Activ. Post and Telecommunic. Oth. S. A. Transp. Activ. Post and Restaurants Oth. S. A. Transp. Activ. Post and Restaurants Oth. Community, S. P. Ser. Hotels and Ruarying Agriculture, Hunting, F. F.	0,805 0,933 0,887 0,883 0,865 0,859 0,856 0,856 0,847 0,839 0,800 0,796 0,940 0,940 0,881 0,843 0,865 0,868 0,843 0,843 0,816	c11 c28 c27 c34 c17 c22 c20 c1 c26 c27 c28 c30 c1 c26 c27 c28 c34 c27 c28 c34 c27 c28 c34 c22 c26 c30 c21 c30 c17 c30 c17 c30 c17 c30 c17 c30 c21	Other Non-Metallic Mineral GREECE 2005 Financial Intermediation Post and Telecommunicatic Other Community, Social at Electricity, Gas and Water Hotels and Restaurants Wholesale Trade and Com Renting of M&Eq and Other Agriculture, Hunting, Fores Other Supporting and Auxi Mining and Quarrying GREECE 2011 Post and Telecommunicatic Financial Intermediation Other Community, Social at Hotels and Restaurants Other Supporting and Auxi Wholesale Trade and Com Electricity, Gas and Water Renting of M&Eq and Other Mining and Quarrying	0,814 0,951 0,903 0,888 0,886 0,886 0,886 0,886 0,884 0,882 0,852 0,942 0,942 0,942 0,942 0,942 0,941 0,900 0,897 0,896 0,889 0,882 0,882 0,851	c24 c28 c22 c34 c20 c1 c27 c26 c23 c11 c28 c20 c34 c27 c26 c27 c28 c20 c30 c34 c30 c34 c1 c27 c26 c30 c34 c1 c27 c26 c30 c34 c1 c27 c26 c30	Water Transport SPAIN 2005 Financial Intermediation Hotels and Restaurants Other Community, Social ar Renting of M&Eq and Other Wholesale Trade and Com Agriculture, Hunting, Fores Post and Telecommunicatic Other Supporting and Auxi Inland Transport Other Non-Metallic Mineral SPAIN 2011 Financial Intermediation Hotels and Restaurants Wholesale Trade and Com Renting of M&Eq and Other Other Supporting and Auxi Inland Transport Other Non-Metallic Mineral Post and Restaurants Wholesale Trade and Com Renting of M&Eq and Other Other Community, Social ar Agriculture, Hunting, Fores Post and Telecommunicatic Other Supporting and Auxi Inland Transport	0,811 0,931 0,907 0,901 0,900 0,880 0,863 0,830 0,815 0,804 0,815 0,804 0,815 0,804 0,815 0,804 0,899 0,899 0,899 0,895 0,893 0,865 0,860

Table 4: Value added multiplier by sector, v_i^* (top ten sectors)

			-			-		
	GERMANY 1995			NETHERLANDS 1995	5		FINLAND 1995	
c30	Renting M&Eq, O. Bus. A.	0,962	c2	Mining and Quarrying	0,900	c34	Other Community, Social ar	0,903
c27	Post and Telecommunic.	0,956	c28	Financial Intermediation	0,888	c23	Inland Transport	0,898
c34	Oth. Community, S. P. Ser.	0,947	c23	Inland Transport	0,850	c28	Financial Intermediation	0,897
c20	Wholesale Trade	0,946	c27	Post and Telecommunication	0,837	c1	Agriculture, Hunting, Fores	0,892
c28	Financial Intermediation	0,939	c30	Renting of M&Eq and Other	0,833	c27	Post and Telecommunicatio	0,883
c23	Inland Transport	0,919	c20	Wholesale Trade and Com	0,831	c20	Wholesale Trade and Com	0,878
c17	Electricity, Gas and Water	0,910	c22	Hotels and Restaurants	0,803	c22	Hotels and Restaurants	0,861
c22	Hotels and Restaurants	0,907	c34	Other Community, Social ar	0,795	c30	Renting of M&Eq and Other	0,860
c2	Mining and Quarrying	0,892	c1	Agriculture, Hunting, Fores	0,784	c6	Wood and Products of Wo	0,853
c26	Oth. S. A. Transp. Activ.	0,890	c26	Other Supporting and Auxi	0,772	c25	Air Transport	0,847
	GERMANY 2000			NETHERLANDS 2000)		FINLAND 2000	
c30	Renting M&Eq, O. Bus. A.	0,945	c2	Mining and Quarrying	0,880	c28	Financial Intermediation	0,923
c34	Oth. Community, S. P. Ser.	0,927	c28	Financial Intermediation	0,846	c1	Agriculture, Hunting, Fores	0,878
c20	Wholesale Trade	0,911	c23	Inland Transport	0,833	c34	Other Community, Social ar	0,875
c28	Financial Intermediation	0,898	c20	Wholesale Trade and Com	0,818	c23	Inland Transport	0,860
c22	Hotels and Restaurants	0,893	c30	Renting of M&Eq and Other	0,816	c30	Renting of M&Eq and Other	0,852
c27	Post and Telecommunic.	0,886	c22	Hotels and Restaurants	0,804	c22	Hotels and Restaurants	0,851
c23	Inland Transport	0,875	c34	Other Community, Social ar	0,786	c26	Other Supporting and Auxi	0,842
c17	Electricity, Gas and Water	0,864	c27	Post and Telecommunication	0,781	c20	Wholesale Trade and Com	0,840
	Agriculture, Hunting, F. F.	0,858	c1	Agriculture, Hunting, Fores	0,748	c27	Post and Telecommunicatio	0,838
c1								
c1 c26	Oth. S. A. Transp. Activ.	0,857	c26	Other Supporting and Auxi	0,740	c6	Wood and Products of Wo	0,803
c1 c26	Oth. S. A. Transp. Activ. GERMANY 2005	0,857	c26	Other Supporting and Auxi NETHERLANDS 2005	0,740	c6	Wood and Products of Wo FINLAND 2005	0,803
c1 c26 c30	Oth. S. A. Transp. Activ. GERMANY 2005 Renting M&Eq, O. Bus. A.	0,857	c26 c2	Other Supporting and Auxi NETHERLANDS 2005 Mining and Quarrying	0,740 0,859	c6 c28	Wood and Products of Wo FINLAND 2005 Financial Intermediation	0,803
c1 c26 c30 c34	Oth. S. A. Transp. Activ. GERMANY 2005 Renting M&Eq, O. Bus. A. Oth. Community, S. P. Ser.	0,857 0,947 0,927	c26 c2 c28	Other Supporting and Auxi NETHERLANDS 2005 Mining and Quarrying Financial Intermediation	0,740 0,859 0,850	c6 c28 c34	Wood and Products of Wo FINLAND 2005 Financial Intermediation Other Community, Social ar	0,803 0,869 0,866
c1 c26 c30 c34 c20	Oth. S. A. Transp. Activ. GERMANY 2005 Renting M&Eq, O. Bus. A. Oth. Community, S. P. Ser. Wholesale Trade	0,857 0,947 0,927 0,907	c26 c2 c28 c27	Other Supporting and Auxi NETHERLANDS 2005 Mining and Quarrying Financial Intermediation Post and Telecommunicatid	0,740 0,859 0,850 0,829	c6 c28 c34 c22	Wood and Products of Woo FINLAND 2005 Financial Intermediation Other Community, Social ar Hotels and Restaurants	0,803 0,869 0,866 0,862
c1 c26 c30 c34 c20 c28	Oth. S. A. Transp. Activ. GERMANY 2005 Renting M&Eq, O. Bus. A. Oth. Community, S. P. Ser. Wholesale Trade Financial Intermediation	0,857 0,947 0,927 0,907 0,903	c26 c2 c28 c27 c30	Other Supporting and Auxi NETHERLANDS 2005 Mining and Quarrying Financial Intermediation Post and Telecommunicatio Renting of M&Eq and Other	0,740 0,859 0,850 0,829 0,827	c6 c28 c34 c22 c30	Wood and Products of Wo FINLAND 2005 Financial Intermediation Other Community, Social at Hotels and Restaurants Renting of M&Eq and Other	0,803 0,869 0,866 0,862 0,859
c1 c26 c30 c34 c20 c28 c22	Oth. S. A. Transp. Activ. GERMANY 2005 Renting M&Eq, O. Bus. A. Oth. Community, S. P. Ser. Wholesale Trade Financial Intermediation Hotels and Restaurants	0,857 0,947 0,927 0,907 0,903 0,898	c26 c2 c28 c27 c30 c20	Other Supporting and Auxi NETHERLANDS 2005 Mining and Quarrying Financial Intermediation Post and Telecommunicatio Renting of M&Eq and Other Wholesale Trade and Com	0,740 0,859 0,850 0,829 0,827 0,825	c6 c28 c34 c22 c30 c1	Wood and Products of Wo FINLAND 2005 Financial Intermediation Other Community, Social ar Hotels and Restaurants Renting of M&Eq and Other Agriculture, Hunting, Fores	0,803 0,869 0,866 0,862 0,859 0,840
c1 c26 c30 c34 c20 c28 c22 c27	Oth. S. A. Transp. Activ. GERMANY 2005 Renting M&Eq, O. Bus. A. Oth. Community, S. P. Ser. Wholesale Trade Financial Intermediation Hotels and Restaurants Post and Telecommunic.	0,857 0,947 0,927 0,907 0,903 0,898 0,875	c26 c2 c28 c27 c30 c20 c23	Other Supporting and Auxi NETHERLANDS 2005 Mining and Quarrying Financial Intermediation Post and Telecommunicatio Renting of M&Eq and Other Wholesale Trade and Com Inland Transport	0,740 0,859 0,850 0,829 0,827 0,825 0,812	c6 c28 c34 c22 c30 c1 c23	Wood and Products of Woo FINLAND 2005 Financial Intermediation Other Community, Social and Hotels and Restaurants Renting of M&Eq and Other Agriculture, Hunting, Fores Inland Transport	0,803 0,869 0,866 0,862 0,859 0,840 0,840
c1 c26 c30 c34 c20 c28 c22 c27 c23	Oth. S. A. Transp. Activ. GERMANY 2005 Renting M&Eq, O. Bus. A. Oth. Community, S. P. Ser. Wholesale Trade Financial Intermediation Hotels and Restaurants Post and Telecommunic. Inland Transport	0,857 0,947 0,927 0,907 0,903 0,898 0,875 0,864	c26 c2 c28 c27 c30 c20 c23 c22	Other Supporting and Auxi NETHERLANDS 2005 Mining and Quarrying Financial Intermediation Post and Telecommunicatio Renting of M&Eq and Other Wholesale Trade and Com Inland Transport Hotels and Restaurants	0,740 0,859 0,850 0,829 0,827 0,825 0,812 0,812	c6 c28 c34 c22 c30 c1 c23 c20	Wood and Products of Woo FINLAND 2005 Financial Intermediation Other Community, Social at Hotels and Restaurants Renting of M&Eq and Other Agriculture, Hunting, Fores Inland Transport Wholesale Trade and Com	0,803 0,869 0,866 0,862 0,859 0,859 0,840 0,824 0,820
c1 c26 c30 c34 c20 c28 c22 c27 c23 c23 c26	Oth. S. A. Transp. Activ. GERMANY 2005 Renting M&Eq, O. Bus. A. Oth. Community, S. P. Ser. Wholesale Trade Financial Intermediation Hotels and Restaurants Post and Telecommunic. Inland Transport Oth. S. A. Transp. Activ.	0,857 0,947 0,927 0,907 0,903 0,898 0,875 0,864 0,859	c26 c2 c28 c27 c30 c20 c23 c22 c22 c34	Other Supporting and Auxi NETHERLANDS 2005 Mining and Quarrying Financial Intermediation Post and Telecommunicatio Renting of M&Eq and Other Wholesale Trade and Com Inland Transport Hotels and Restaurants Other Community, Social ar	0,740 0,859 0,850 0,829 0,827 0,825 0,812 0,812 0,810 0,799	c6 c28 c34 c22 c30 c1 c23 c20 c27	Wood and Products of Wo FINLAND 2005 Financial Intermediation Other Community, Social an Hotels and Restaurants Renting of M&Eq and Other Agriculture, Hunting, Fores Inland Transport Wholesale Trade and Com Post and Telecommunicatio	0,803 0,869 0,866 0,862 0,859 0,840 0,824 0,824 0,820 0,815
c1 c26 c30 c34 c20 c28 c22 c27 c23 c26 c24	Oth. S. A. Transp. Activ. GERMANY 2005 Renting M&Eq, O. Bus. A. Oth. Community, S. P. Ser. Wholesale Trade Financial Intermediation Hotels and Restaurants Post and Telecommunic. Inland Transport Oth. S. A. Transp. Activ. Water Transport	0,857 0,947 0,927 0,907 0,903 0,898 0,875 0,864 0,859 0,840	c26 c2 c28 c27 c30 c20 c23 c22 c34 c26	Other Supporting and Auxi NETHERLANDS 2005 Mining and Quarrying Financial Intermediation Post and Telecommunicatio Renting of M&Eq and Other Wholesale Trade and Com Inland Transport Hotels and Restaurants Other Community, Social ar Other Supporting and Auxi	0,740 0,859 0,850 0,829 0,827 0,825 0,812 0,810 0,799 0,764	c6 c28 c34 c22 c30 c1 c23 c20 c27 c26	Wood and Products of Woo FINLAND 2005 Financial Intermediation Other Community, Social at Hotels and Restaurants Renting of M&Eq and Other Agriculture, Hunting, Fores Inland Transport Wholesale Trade and Comm Post and Telecommunicatic Other Supporting and Auxi	0,803 0,869 0,866 0,862 0,859 0,840 0,824 0,820 0,815 0,813
c1 c26 c30 c34 c20 c28 c22 c27 c23 c26 c24 c24 c17	Oth. S. A. Transp. Activ. GERMANY 2005 Renting M&Eq, O. Bus. A. Oth. Community, S. P. Ser. Wholesale Trade Financial Intermediation Hotels and Restaurants Post and Telecommunic. Inland Transport Oth. S. A. Transp. Activ. Water Transport Electricity, Gas and Water	0,857 0,947 0,927 0,903 0,898 0,875 0,864 0,859 0,840 0,830	c26 c2 c28 c27 c30 c20 c23 c22 c22 c34 c26 c16	Other Supporting and Auxi NETHERLANDS 2005 Mining and Quarrying Financial Intermediation Post and Telecommunicatio Renting of M&Eq and Other Wholesale Trade and Com Inland Transport Hotels and Restaurants Other Community, Social ar Other Supporting and Auxi Manufacturing, Nec; Recyc	0,740 0,859 0,850 0,829 0,827 0,825 0,812 0,812 0,810 0,799 0,764 0,753	c6 c28 c34 c22 c30 c1 c23 c20 c27 c26 c3	Wood and Products of Woo FINLAND 2005 Financial Intermediation Other Community, Social ar Hotels and Restaurants Renting of M&Eq and Other Agriculture, Hunting, Fores Inland Transport Wholesale Trade and Com Post and Telecommunicatic Other Supporting and Auxi Food, Beverages and Toba	0,803 0,869 0,866 0,862 0,859 0,840 0,824 0,820 0,813 0,813 0,789
c1 c26 c30 c34 c20 c28 c22 c27 c23 c26 c24 c17	Oth. S. A. Transp. Activ. GERMANY 2005 Renting M&Eq, O. Bus. A. Oth. Community, S. P. Ser. Wholesale Trade Financial Intermediation Hotels and Restaurants Post and Telecommunic. Inland Transport Oth. S. A. Transp. Activ. Water Transport Electricity, Gas and Water GERMANY 2011	0,857 0,947 0,927 0,907 0,903 0,898 0,875 0,864 0,859 0,840 0,830	c26 c2 c28 c27 c30 c20 c23 c22 c34 c26 c16	Other Supporting and Auxi NETHERLANDS 2005 Mining and Quarrying Financial Intermediation Post and Telecommunicatio Renting of M&Eq and Other Wholesale Trade and Com Inland Transport Hotels and Restaurants Other Community, Social ar Other Supporting and Auxi Manuf acturing, Nec; Recyo NETHERLANDS 2011	0,740 0,859 0,850 0,829 0,827 0,825 0,812 0,812 0,810 0,799 0,764 0,753	c6 c28 c34 c22 c30 c1 c23 c20 c27 c26 c3	Wood and Products of Wo FINLAND 2005 Financial Intermediation Other Community, Social an Hotels and Restaurants Renting of M&Eq and Other Agriculture, Hunting, Fores Inland Transport Wholesale Trade and Comm Post and Telecommunicatio Other Supporting and Auxi Food, Beverages and Toba FINLAND 2011	0,803 0,869 0,866 0,862 0,859 0,840 0,824 0,820 0,813 0,813 0,789
c1 c26 c30 c34 c20 c28 c22 c27 c23 c26 c24 c17 c30	Oth. S. A. Transp. Activ. GERMANY 2005 Renting M&Eq, O. Bus. A. Oth. Community, S. P. Ser. Wholesale Trade Financial Intermediation Hotels and Restaurants Post and Telecommunic. Inland Transport Oth. S. A. Transp. Activ. Water Transport Electricity, Gas and Water GERMANY 2011 Renting M&Eq, O. Bus. A.	0,857 0,947 0,927 0,907 0,903 0,898 0,875 0,864 0,859 0,864 0,859 0,840 0,830	c26 c2 c28 c27 c30 c20 c23 c22 c34 c26 c16 c2	Other Supporting and Auxi NETHERLANDS 2005 Mining and Quarrying Financial Intermediation Post and Telecommunicatio Renting of M&Eq and Other Wholesale Trade and Com Inland Transport Hotels and Restaurants Other Community, Social ar Other Supporting and Auxi Manuf acturing, Nec; Recyo NETHERLANDS 2011 Mining and Quarrying	0,740 0,859 0,850 0,829 0,827 0,825 0,812 0,812 0,810 0,799 0,764 0,753	c6 c28 c34 c22 c30 c1 c23 c20 c27 c26 c3 c34	Wood and Products of Woo FINLAND 2005 Financial Intermediation Other Community, Social at Hotels and Restaurants Renting of M&Eq and Other Agriculture, Hunting, Fores Inland Transport Wholesale Trade and Com Post and Telecommunicatio Other Supporting and Auxi Food, Beverages and Toba FINLAND 2011 Other Community, Social at	0,803 0,869 0,866 0,862 0,859 0,840 0,824 0,820 0,815 0,813 0,789 0,860
c1 c26 c30 c34 c20 c28 c22 c27 c23 c26 c24 c17 c30 c34	Oth. S. A. Transp. Activ. GERMANY 2005 Renting M&Eq, O. Bus. A. Oth. Community, S. P. Ser. Wholesale Trade Financial Intermediation Hotels and Restaurants Post and Telecommunic. Inland Transport Oth. S. A. Transp. Activ. Water Transport Electricity, Gas and Water GERMANY 2011 Renting M&Eq, O. Bus. A. Oth. Community, S. P. Ser.	0,857 0,947 0,927 0,903 0,898 0,875 0,864 0,859 0,840 0,830 0,840 0,830	c26 c2 c28 c27 c30 c20 c23 c22 c34 c26 c16 c2 c30	Other Supporting and Auxi NETHERLANDS 2005 Mining and Quarrying Financial Intermediation Post and Telecommunicatio Renting of M&Eq and Other Wholesale Trade and Com Inland Transport Hotels and Restaurants Other Community, Social ar Other Supporting and Auxi Manufacturing, Nec; Recyo NETHERLANDS 2012 Mining and Quarrying Renting of M&Eq and Other	0,740 0,859 0,850 0,829 0,827 0,825 0,812 0,810 0,764 0,764 0,753 0,859 0,818	c6 c28 c34 c22 c30 c1 c23 c20 c27 c26 c3 c34 c22	Wood and Products of Wo FINLAND 2005 Financial Intermediation Other Community, Social ar Hotels and Restaurants Renting of M&Eq and Other Agriculture, Hunting, Fores Inland Transport Wholesale Trade and Com Post and Telecommunicatic Other Supporting and Auxi Food, Beverages and Toba FINLAND 2011 Other Community, Social ar Financial Intermediation	0,803 0,869 0,866 0,859 0,840 0,824 0,820 0,813 0,813 0,789 0,860 0,859
c1 c26 c30 c34 c20 c28 c22 c23 c26 c24 c17 c30 c34 c20	Oth. S. A. Transp. Activ. GERMANY 2005 Renting M&Eq, O. Bus. A. Oth. Community, S. P. Ser. Wholesale Trade Financial Intermediation Hotels and Restaurants Post and Telecommunic. Inland Transport Oth. S. A. Transp. Activ. Water Transport Electricity, Gas and Water GERMANY 2011 Renting M&Eq, O. Bus. A. Oth. Community, S. P. Ser. Wholesale Trade	0,857 0,947 0,927 0,907 0,903 0,898 0,875 0,864 0,859 0,840 0,830 0,840 0,830	c26 c2 c28 c27 c30 c20 c23 c24 c25 c34 c26 c16 c2 c30 c22 c34 c26 c30 c22 c34	Other Supporting and Auxi NETHERLANDS 2005 Mining and Quarrying Financial Intermediation Post and Telecommunicatio Renting of M&Eq and Other Wholesale Trade and Com Inland Transport Hotels and Restaurants Other Community, Social ar Other Supporting and Auxi Manuf acturing, Nec; Recyo NETHERLANDS 2011 Mining and Quarrying Renting of M&Eq and Other Financial Intermediation	0,740 0,859 0,850 0,829 0,827 0,825 0,812 0,812 0,810 0,764 0,753 0,859 0,859 0,818	c6 c28 c34 c22 c30 c1 c23 c20 c27 c26 c34 c22 c34 c23 c34 c26 c34 c28 c34 c28 c30	Wood and Products of Wo FINLAND 2005 Financial Intermediation Other Community, Social an Hotels and Restaurants Renting of M&Eq and Other Agriculture, Hunting, Fores Inland Transport Wholesale Trade and Comm Post and Telecommunicatio Other Supporting and Auxi Food, Beverages and Toba FINLAND 2011 Other Community, Social an Financial Intermediation Renting of M&Eq and Other	0,803 0,869 0,866 0,862 0,859 0,840 0,824 0,820 0,813 0,813 0,789 0,813 0,789 0,860 0,860 0,860
c1 c26 c30 c34 c20 c27 c23 c26 c24 c17 c30 c34 c20 c28	Oth. S. A. Transp. Activ. GERMANY 2005 Renting M&Eq, O. Bus. A. Oth. Community, S. P. Ser. Wholesale Trade Financial Intermediation Hotels and Restaurants Post and Telecommunic. Inland Transport Oth. S. A. Transp. Activ. Water Transport Electricity, Gas and Water GERMANY 2011 Renting M&Eq, O. Bus. A. Oth. Community, S. P. Ser. Wholesale Trade Financial Intermediation	0,857 0,947 0,927 0,903 0,898 0,875 0,864 0,859 0,864 0,859 0,840 0,830 0,944 0,917 0,903 0,893	c26 c2 c28 c27 c30 c20 c23 c22 c34 c26 c16 c23 c24 c25 c34 c26 c37 c28 c20	Other Supporting and Auxi NETHERLANDS 2005 Mining and Quarrying Financial Intermediation Post and Telecommunicatio Renting of M&Eq and Other Wholesale Trade and Com Inland Transport Hotels and Restaurants Other Community, Social ar Other Supporting and Auxi Manuf acturing, Nec; Recyo NETHERLANDS 2011 Mining and Quarrying Renting of M&Eq and Other Financial Intermediation Wholesale Trade and Com	0,740 0,859 0,850 0,829 0,827 0,825 0,812 0,810 0,799 0,764 0,753 0,818 0,818 0,818 0,806	c6 c28 c34 c22 c30 c1 c23 c20 c27 c26 c3 c34 c25 c30 c31 c22 c32 c34 c28 c30 c22	Wood and Products of Woo FINLAND 2005 Financial Intermediation Other Community, Social at Hotels and Restaurants Renting of M&Eq and Other Agriculture, Hunting, Fores Inland Transport Wholesale Trade and Com Post and Telecommunicatio Other Supporting and Auxi Food, Beverages and Toba FINLAND 2011 Other Community, Social at Financial Intermediation Renting of M&Eq and Other Hotels and Restaurants	0,803 0,869 0,862 0,859 0,840 0,824 0,820 0,815 0,813 0,789 0,813 0,789 0,860 0,859 0,843 0,838
c1 c26 c30 c34 c20 c28 c22 c27 c23 c26 c24 c17 c30 c34 c20 c24 c17 c30 c24 c22 c22 c24 c22 c22 c22 c22 c22 c22	Oth. S. A. Transp. Activ. GERMANY 2005 Renting M&Eq, O. Bus. A. Oth. Community, S. P. Ser. Wholesale Trade Financial Intermediation Hotels and Restaurants Post and Telecommunic. Inland Transport Oth. S. A. Transp. Activ. Water Transport Electricity, Gas and Water GERMANY 2011 Renting M&Eq, O. Bus. A. Oth. Community, S. P. Ser. Wholesale Trade Financial Intermediation Hotels and Restaurants	0,857 0,947 0,927 0,903 0,898 0,875 0,864 0,859 0,840 0,830 0,944 0,917 0,903 0,893 0,879	c26 c2 c28 c27 c30 c20 c23 c24 c25 c34 c26 c16 c28 c20 c23 c24 c25 c34 c26 c16 c20 c28 c20 c22 c20 c22	Other Supporting and Auxi NETHERLANDS 2005 Mining and Quarrying Financial Intermediation Post and Telecommunicatio Renting of M&Eq and Other Wholesale Trade and Com Inland Transport Hotels and Restaurants Other Community, Social ar Other Supporting and Auxi Manufacturing, Nec; Recyo NETHERLANDS 2011 Mining and Quarrying Renting of M&Eq and Other Financial Intermediation Wholesale Trade and Com Hotels and Restaurants	0,740 0,859 0,850 0,829 0,827 0,825 0,812 0,810 0,764 0,753 0,859 0,859 0,818 0,818 0,818 0,806 0,787	c6 c28 c34 c22 c30 c1 c23 c20 c27 c26 c34 c27 c26 c34 c27 c26 c33 c34 c28 c30 c22 c31	Wood and Products of Wo FINLAND 2005 Financial Intermediation Other Community, Social ar Hotels and Restaurants Renting of M&Eq and Other Agriculture, Hunting, Fores Inland Transport Wholesale Trade and Com Post and Telecommunicatic Other Supporting and Auxi Food, Beverages and Toba FINLAND 2011 Other Community, Social ar Financial Intermediation Renting of M&Eq and Other Hotels and Restaurants Agriculture, Hunting, Fores	0,803 0,869 0,866 0,859 0,840 0,824 0,820 0,813 0,813 0,789 0,860 0,859 0,843 0,838 0,819
c1 c26 c30 c34 c20 c28 c22 c27 c23 c26 c24 c17 c30 c34 c20 c23 c26 c27 c30 c34 c20 c21 c30 c28 c20 c21 c20 c21 c22	Oth. S. A. Transp. Activ. GERMANY 2005 Renting M&Eq, O. Bus. A. Oth. Community, S. P. Ser. Wholesale Trade Financial Intermediation Hotels and Restaurants Post and Telecommunic. Inland Transport Oth. S. A. Transp. Activ. Water Transport Electricity, Gas and Water Renting M&Eq, O. Bus. A. Oth. Community, S. P. Ser. Wholesale Trade Financial Intermediation Hotels and Restaurants Oth. Community, S. P. Ser. Wholesale Trade Financial Intermediation Hotels and Restaurants Post and Telecommunic.	0,857 0,947 0,927 0,907 0,903 0,898 0,875 0,864 0,859 0,840 0,840 0,830 0,840 0,944 0,917 0,903 0,893 0,879 0,858	c26 c2 c28 c27 c30 c20 c23 c24 c25 c34 c26 c34 c26 c34 c26 c30 c28 c20 c28 c20 c28 c20 c22 c30 c22 c30 c22 c30 c22 c30 c22 c30 c22 c30 c22 c23	Other Supporting and Auxi NETHERLANDS 2005 Mining and Quarrying Financial Intermediation Post and Telecommunicatid Renting of M&Eq and Other Wholesale Trade and Com Inland Transport Hotels and Restaurants Other Community, Social ar Other Supporting and Auxi Manuf acturing, Nec; Recyo NETHERLANDS 2011 Mining and Quarrying Renting of M&Eq and Other Financial Intermediation Wholesale Trade and Com Hotels and Restaurants Post and Telecommunicatio	0,740 0,859 0,850 0,829 0,827 0,825 0,812 0,812 0,810 0,764 0,753 0,764 0,753 0,859 0,859 0,818 0,818 0,818 0,806 0,787 0,783	c6 c28 c34 c22 c30 c1 c23 c20 c27 c26 c34 c22 c34 c23 c34 c26 c34 c28 c30 c22 c34 c28 c30 c22 c1 c22 c1 c27	Wood and Products of Wo FINLAND 2005 Financial Intermediation Other Community, Social and Hotels and Restaurants Renting of M&Eq and Other Agriculture, Hunting, Fores Inland Transport Wholesale Trade and Comm Post and Telecommunicatio Other Supporting and Auxi Food, Beverages and Toba FINLAND 2011 Other Community, Social and Financial Intermediation Renting of M&Eq and Other Hotels and Restaurants Agriculture, Hunting, Fores Post and Telecommunicatio	0,803 0,869 0,862 0,859 0,840 0,824 0,820 0,813 0,813 0,813 0,813 0,813 0,813 0,843 0,859 0,843 0,838 0,838
c1 c26 c30 c34 c20 c27 c23 c26 c27 c23 c26 c27 c23 c26 c27 c23 c26 c27 c30 c34 c20 c34 c20 c22 c27 c23 c20 c21 c22	Oth. S. A. Transp. Activ. GERMANY 2005 Renting M&Eq, O. Bus. A. Oth. Community, S. P. Ser. Wholesale Trade Financial Intermediation Hotels and Restaurants Post and Telecommunic. Inland Transport Oth. S. A. Transp. Activ. Water Transport Electricity, Gas and Water GERMANY 2011 Renting M&Eq, O. Bus. A. Oth. Community, S. P. Ser. Wholesale Trade Financial Intermediation Hotels and Restaurants Post and Telecommunic. Inland Transport	0,857 0,947 0,927 0,903 0,898 0,875 0,864 0,859 0,864 0,859 0,840 0,830 0,830 0,944 0,917 0,903 0,893 0,879 0,879 0,858	c26 c2 c28 c27 c30 c22 c34 c26 c16 c28 c20 c34 c26 c30 c22 c34 c20 c22 c30 c22 c32 c34	Other Supporting and Auxi NETHERLANDS 2005 Mining and Quarrying Financial Intermediation Post and Telecommunicatic Renting of M&Eq and Other Wholesale Trade and Com Inland Transport Hotels and Restaurants Other Community, Social ar Other Supporting and Auxi Manufacturing, Nec; Recyo NETHERLANDS 2011 Mining and Quarrying Renting of M&Eq and Other Financial Intermediation Wholesale Trade and Com Hotels and Restaurants Post and Telecommunication Wholesale Trade and Com Other Community, Social ar	0,740 0,859 0,850 0,827 0,825 0,812 0,810 0,799 0,764 0,753 0,818 0,859 0,818 0,818 0,818 0,818 0,818	c6 c28 c34 c22 c30 c1 c23 c20 c27 c26 c30 c34 c27 c26 c31 c28 c30 c22 c1 c27 c28 c30 c22 c1 c27 c20	Wood and Products of Wo FINLAND 2005 Financial Intermediation Other Community, Social ar Hotels and Restaurants Renting of M&Eq and Other Agriculture, Hunting, Fores Inland Transport Wholesale Trade and Com Post and Telecommunicatio Other Supporting and Auxi Food, Beverages and Toba FINLAND 2011 Other Community, Social ar Financial Intermediation Renting of M&Eq and Other Hotels and Restaurants Agriculture, Hunting, Fores Post and Telecommunicatic Wholesale Trade and Com	0,803 0,869 0,866 0,859 0,840 0,820 0,815 0,813 0,789 0,813 0,789 0,843 0,859 0,843 0,838 0,819 0,816 0,804
c1 c26 c30 c34 c20 c27 c23 c26 c24 c17 c30 c34 c20 c21 c22 c24 c17 c30 c34 c20 c34 c20 c32 c21 c22 c22 c22 c23 c26 c27 c28 c22 c27 c23 c26	Oth. S. A. Transp. Activ. GERMANY 2005 Renting M&Eq, O. Bus. A. Oth. Community, S. P. Ser. Wholesale Trade Financial Intermediation Hotels and Restaurants Post and Telecommunic. Inland Transport Oth. S. A. Transp. Activ. Water Transport Electricity, Gas and Water GERMANY 2011 Renting M&Eq, O. Bus. A. Oth. Community, S. P. Ser. Wholesale Trade Financial Intermediation Hotels and Restaurants Post and Telecommunic. Inland Transport Oth. Community, S. P. Ser. Wholesale Trade Financial Intermediation Hotels and Restaurants Post and Telecommunic. Inland Transport Oth. S. A. Transp. Activ.	0,857 0,947 0,927 0,903 0,898 0,875 0,864 0,859 0,840 0,830 0,840 0,830 0,840 0,830 0,840 0,830 0,848 0,858 0,858 0,858 0,858	c26 c2 c28 c27 c30 c20 c23 c24 c25 c30 c20 c34 c26 c30 c21 c34 c20 c21 c30 c22 c30 c22 c30 c22 c30 c22 c30 c22 c31 c22 c32 c23	Other Supporting and Auxi NETHERLANDS 2005 Mining and Quarrying Financial Intermediation Post and Telecommunicatio Renting of M&Eq and Other Wholesale Trade and Com Inland Transport Hotels and Restaurants Other Community, Social ar Other Supporting and Auxi Manufacturing, Nec; Recyo NETHERLANDS 2011 Mining and Quarrying Renting of M&Eq and Other Financial Intermediation Wholesale Trade and Com Hotels and Restaurants Post and Telecommunicatio Other Community, Social ar Inland Transport	0,740 0,859 0,850 0,829 0,827 0,825 0,812 0,812 0,810 0,764 0,753 0,764 0,753 0,764 0,753 0,764 0,753 0,765 0,859 0,818 0,818 0,818 0,818	c6 c28 c34 c22 c30 c1 c23 c20 c27 c26 c34 c27 c26 c34 c27 c26 c31 c27 c34 c28 c30 c22 c1 c27 c21 c22 c1 c27 c20 c21 c22 c21 c22 c21 c22 c21 c22 c21 c22 c23	Wood and Products of Wo FINLAND 2005 Financial Intermediation Other Community, Social ar Hotels and Restaurants Renting of M&Eq and Other Agriculture, Hunting, Fores Inland Transport Wholesale Trade and Com Post and Telecommunicatic Other Community, Social ar Fiod, Beverages and Toba FINLAND 2011 Other Community, Social ar Financial Intermediation Renting of M&Eq and Other Hotels and Restaurants Agriculture, Hunting, Fores Post and Telecommunicatic Other Community, Social ar Financial Intermediation Renting of M&Eq and Other Hotels and Restaurants Agriculture, Hunting, Fores Post and Telecommunicatic Wholesale Trade and Com Inland Transport	0,803 0,869 0,862 0,859 0,840 0,824 0,820 0,813 0,813 0,813 0,813 0,860 0,860 0,859 0,843 0,838 0,819 0,816 0,804 0,801
c1 c26 c30 c34 c20 c23 c26 c24 c17 c30 c34 c20 c21 c22 c23 c26 c20 c30 c34 c20 c23 c26 c27 c28 c20 c21 c22 c21 c22 c22 c22 c22 c23 c26 c27 c28 c29 c27 c23 c26 c27 c23 c26 c17	Oth. S. A. Transp. Activ. GERMANY 2005 Renting M&Eq, O. Bus. A. Oth. Community, S. P. Ser. Wholesale Trade Financial Intermediation Hotels and Restaurants Post and Telecommunic. Inland Transport Oth. S. A. Transp. Activ. Water Transport Electricity, Gas and Water Renting M&Eq, O. Bus. A. Oth. Community, S. P. Ser. Wholesale Trade Financial Intermediation Hotels and Restaurants Post and Telecommunic. Idh. Community, S. P. Ser. Wholesale Trade Financial Intermediation Hotels and Restaurants Post and Telecommunic. Inland Transport Oth. S. A. Transp. Activ. Bectricity, Gas and Water	0,857 0,947 0,927 0,907 0,903 0,898 0,875 0,864 0,859 0,840 0,840 0,944 0,917 0,903 0,893 0,893 0,879 0,858 0,856 0,848 0,846	c26 c2 c28 c27 c30 c20 c23 c24 c25 c34 c26 c30 c22 c34 c26 c30 c22 c34 c20 c21 c32 c23 c20 c21 c32 c22 c23 c24 c25 c27 c34 c23 c24	Other Supporting and Auxi NETHERLANDS 2005 Mining and Quarrying Financial Intermediation Post and Telecommunicatid Renting of M&Eq and Other Wholesale Trade and Com Inland Transport Hotels and Restaurants Other Community, Social ar Other Supporting and Auxi Manuf acturing, Nec; Recyo NETHERLANDS 2011 Mining and Quarrying Renting of M&Eq and Other Financial Intermediation Wholesale Trade and Com Hotels and Restaurants Post and Telecommunicatid Other Community, Social ar Inland Transport Hotels and Restaurants Post and Telecommunicatid Other Community, Social ar Inland Transport Other Supporting and Auxi	0,740 0,859 0,850 0,829 0,827 0,825 0,812 0,812 0,810 0,799 0,764 0,753 0,764 0,753 0,764 0,753 0,764 0,859 0,818 0,818 0,818 0,818 0,818 0,818 0,816 0,787 0,779 0,766 0,754	c6 c28 c34 c22 c30 c1 c23 c20 c27 c26 c34 c20 c32 c21 c22 c23 c34 c26 c30 c22 c1 c22 c1 c27 c20 c21 c22 c1 c27 c20 c21 c22 c21 c22	Wood and Products of Wo FINLAND 2005 Financial Intermediation Other Community, Social and Hotels and Restaurants Renting of M&Eq and Other Agriculture, Hunting, Fores Inland Transport Wholesale Trade and Comm Post and Telecommunicatio Other Community, Social and Fiood, Beverages and Toba FINLAND 2011 Other Community, Social and Financial Intermediation Renting of M&Eq and Other Hotels and Restaurants Agriculture, Hunting, Fores Post and Telecommunicatio Wholesale Trade and Come Hotels and Restaurants Agriculture, Hunting, Fores Post and Telecommunicatio Wholesale Trade and Come Inland Transport Other Supporting and Auxi	0,803 0,869 0,862 0,859 0,840 0,824 0,820 0,813 0,813 0,813 0,813 0,813 0,813 0,843 0,838 0,838 0,838 0,838 0,819 0,816 0,804 0,801 0,801

Table 4: Value added multiplier by sector, v_i^* (top ten sectors) (cont.)

	PORTUGAL 1995			GREECE 1995			SPAIN 1995	
c4	Textiles and Textile Prod.	18.881	c24	Water Transport	16.040	c15	Transport Equipment	23.613
c14	Electrical and Optical Eq.	10,078	c4	Textiles and Textile Produc	12,788	c9	Chemicals and Chemical Pr	8,349
c15	Transport Equipment	9,571	c3	Food. Beverages and Toba	12,670	c12	Basic Metals and Fabricate	7,753
c5	Leather and Footw are	6,416	c1	Aariculture, Hunting, Fores	12,543	c14	Electrical and Optical Equip	7,412
c25	Air Transport	5,129	c12	Basic Metals and Fabricate	8,591	c3	Food, Beverages and Toba	6,905
c3	Food, Beverages and T.	4,985	c20	Wholesale Trade and Com	6,780	c1	Aariculture, Hunting, Fores	6,442
c7	Pulp, Paper, Printing	4,946	c9	Chemicals and Chemical Pr	2,842	c13	Machinery, Nec	5,426
c9	Chemicals	3,802	c11	Other Non-Metallic Mineral	2,490	c30	Renting of M&Eq and Other	3,883
c6	Wood and Cork	3,524	c8	Coke, Refined Petroleum ar	2,239	c4	Textiles and Textile Produc	3,445
c11	Other Non-Metallic Mineral	3,402	c26	Other Supporting and Auxi	2,195	c11	Other Non-Metallic Mineral	3,200
	PORTUGAL 2000			GREECE 2000			SPAIN 2000	
c4	Textiles and Textile Prod.	14,362	c24	Water Transport	37,042	c15	Transport Equipment	22,364
c15	Transport Equipment	11,889	c4	Textiles and Textile Produc	6,132	c9	Chemicals and Chemical Pr	7,809
c14	Electrical and Optical Eq.	11,037	c1	Agriculture, Hunting, Fores	5,605	c14	Electrical and Optical Equip	7,740
c5	Leather and Footw are	4,940	c26	Other Supporting and Auxi	5,488	c12	Basic Metals and Fabricate	6,709
c3	Food, Beverages and T.	4,674	c3	Food, Beverages and Toba	5,120	c3	Food, Beverages and Toba	6,502
c12	Basic Metals, Fabr Metal	4,496	c12	Basic Metals and Fabricate	5,058	c13	Machinery, Nec	5,805
c25	Air Transport	4,437	c8	Coke, Refined Petroleum ar	4,402	c30	Renting of M&Eq and Other	5,773
c7	Pulp, Paper, Printing	4,225	c20	Wholesale Trade and Com	4,322	c1	Agriculture, Hunting, Fores	5,114
c9	Chemicals	3,958	c30	Renting of M&Eq and Other	3,165	c4	Textiles and Textile Produc	3,496
c13	Machinery, Nec	3,917	c9	Chemicals and Chemical Pr	2,785	c8	Coke, Refined Petroleum ar	3,474
	PORTUGAL 2005			GREECE 2005			SPAIN 2005	
c15	Transport Equipment	10,875	c24	Water Transport	49,429	c15	Transport Equipment	20,884
c4	Textiles and Textile Prod.	10,026	c20	Wholesale Trade and Com	5,526	c9	Chemicals and Chemical Pr	10,000
c14	Electrical and Optical Eq.	9,864	c12	Basic Metals and Fabricate	5,492	c12	Basic Metals and Fabricate	7,280
c12	Basic Metals, Fabr Metal	6 062	1					
~2	+	6,062	c8	Coke, Refined Petroleum ar	4,660	c3	Food, Beverages and Toba	6,916
03	Food, Beverages and T.	5,366	c8 c3	Coke, Refined Petroleum ar Food, Beverages and Toba	4,660 3,982	c3 c30	Food, Beverages and Toba Renting of M&Eq and Other	6,916 6,803
c9	Food, Beverages and T. Chemicals	5,366 4,745	c8 c3 c9	Coke, Refined Petroleum ar Food, Beverages and Toba Chemicals and Chemical Pr	4,660 3,982 3,868	c3 c30 c14	Food, Beverages and Toba Renting of M&Eq and Other Electrical and Optical Equip	6,916 6,803 6,797
c3 c9 c25	Food, Beverages and T. Chemicals Air Transport	5,366 4,745 4,500	c8 c3 c9 c1	Coke, Refined Petroleum ar Food, Beverages and Toba Chemicals and Chemical Pr Agriculture, Hunting, Fores	4,660 3,982 3,868 3,851	c3 c30 c14 c1	Food, Beverages and Toba Renting of M&Eq and Other Electrical and Optical Equip Agriculture, Hunting, Fores	6,916 6,803 6,797 4,710
c9 c25 c13	Food, Beverages and T. Chemicals Air Transport Machinery, Nec	5,366 4,745 4,500 4,049	c8 c3 c9 c1 c4	Coke, Refined Petroleum ar Food, Beverages and Toba Chemicals and Chemical Pr Agriculture, Hunting, Fores Textiles and Textile Produc	4,660 3,982 3,868 3,851 3,658	c3 c30 c14 c1 c13	Food, Beverages and Toba Renting of M&Eq and Other Electrical and Optical Equip Agriculture, Hunting, Fores Machinery, Nec	6,916 6,803 6,797 4,710 4,599
c9 c25 c13 c23	Food, Beverages and T. Chemicals Air Transport Machinery, Nec Inland Transport	5,366 4,745 4,500 4,049 3,904	c8 c3 c9 c1 c4 c30	Coke, Refined Petroleum ar Food, Beverages and Toba Chemicals and Chemical Pr Agriculture, Hunting, Fores Textiles and Textile Produc Renting of M&Eq and Other	4,660 3,982 3,868 3,851 3,658 3,279	c3 c30 c14 c1 c13 c8	Food, Beverages and Toba Renting of M&Eq and Other Electrical and Optical Equip Agriculture, Hunting, Fores Machinery, Nec Coke, Refined Petroleum ar	6,916 6,803 6,797 4,710 4,599 3,772
c9 c25 c13 c23 c30	Food, Beverages and T. Chemicals Air Transport Machinery, Nec Inland Transport Renting M&Eq, O. Bus. A.	5,366 4,745 4,500 4,049 3,904 3,741	c8 c3 c9 c1 c4 c30 c26	Coke, Refined Petroleum ar Food, Beverages and Toba Chemicals and Chemical Pr Agriculture, Hunting, Fores Textiles and Textile Produc Renting of M&Eq and Other Other Supporting and Auxi	4,660 3,982 3,868 3,851 3,658 3,279 2,343	c3 c30 c14 c1 c13 c8 c4	Food, Beverages and Toba Renting of M&Eq and Other Electrical and Optical Equip Agriculture, Hunting, Fores Machinery, Nec Coke, Refined Petroleum ar Textiles and Textile Produc	6,916 6,803 6,797 4,710 4,599 3,772 3,424
c3 c25 c13 c23 c30	Food, Beverages and T. Chemicals Air Transport Machinery, Nec Inland Transport Renting M&Eq, O. Bus. A. PORTUGAL 2011	5,366 4,745 4,500 4,049 3,904 3,741	c8 c3 c9 c1 c4 c30 c26	Coke, Refined Petroleum ar Food, Beverages and Toba Chemicals and Chemical Pr Agriculture, Hunting, Fores Textiles and Textile Produc Renting of M&Eq and Other Other Supporting and Auxi GREECE 2011	4,660 3,982 3,868 3,851 3,658 3,279 2,343	c3 c30 c14 c1 c13 c8 c4	Food, Beverages and Toba Renting of M&Eq and Other Electrical and Optical Equip Agriculture, Hunting, Fores Machinery, Nec Coke, Refined Petroleum ar Textiles and Textile Produc SPAIN 2011	6,916 6,803 6,797 4,710 4,599 3,772 3,424
c3 c9 c25 c13 c23 c30 c15	Food, Beverages and T. Chemicals Air Transport Machinery, Nec Inland Transport Renting M&Eq, O. Bus. A. PORTUGAL 2011 Transport Equipment	5,366 4,745 4,500 4,049 3,904 3,741 8,860	c8 c3 c9 c1 c4 c30 c26 c24	Coke, Refined Petroleum ar Food, Beverages and Toba Chemicals and Chemical Pr Agriculture, Hunting, Fores Textiles and Textile Produc Renting of M&Eq and Other Other Supporting and Auxi GREECE 2011 Water Transport	4,660 3,982 3,868 3,851 3,658 3,279 2,343 42,070	c3 c30 c14 c1 c13 c8 c4 c4 c15	Food, Beverages and Toba Renting of M&Eq and Other Electrical and Optical Equip Agriculture, Hunting, Fores Machinery, Nec Coke, Refined Petroleum ar Textiles and Textile Produc SPAIN 2011 Transport Equipment	6,916 6,803 6,797 4,710 4,599 3,772 3,424 15,762
c3 c9 c25 c13 c23 c30 c15 c4	Food, Beverages and T. Chemicals Air Transport Machinery, Nec Inland Transport Renting M&Eq, O. Bus. A. PORTUGAL 2011 Transport Equipment Textiles and Textile Prod.	5,062 5,366 4,745 4,500 4,049 3,904 3,741 8,860 7,327	c8 c3 c9 c1 c4 c30 c26 c24 c20	Coke, Refined Petroleum ar Food, Beverages and Toba Chemicals and Chemical Pr Agriculture, Hunting, Fores Textiles and Textile Produc Renting of M&Eq and Other Other Supporting and Auxi GREECE 2011 Water Transport Wholesale Trade and Com	4,660 3,982 3,868 3,851 3,658 3,279 2,343 42,070 5,425	c3 c30 c14 c1 c13 c8 c4 c4 c15 c9	Food, Beverages and Toba Renting of M&Eq and Other Electrical and Optical Equip Agriculture, Hunting, Fores Machinery, Nec Coke, Refined Petroleum ar Textiles and Textile Produc SPAIN 2011 Transport Equipment Chemicals and Chemical Pr	6,916 6,803 6,797 4,710 4,599 3,772 3,424 15,762 10,404
c3 c9 c25 c13 c23 c30 c15 c4 c14	Food, Beverages and T. Chemicals Air Transport Machinery, Nec Inland Transport Renting M&Eq, O. Bus. A. PORTUGAL 2011 Transport Equipment Textiles and Textile Prod. Bectrical and Optical Eq.	5,062 5,366 4,745 4,500 4,049 3,904 3,741 8,860 7,327 7,083	c8 c3 c9 c1 c4 c30 c26 c24 c20 c12	Coke, Refined Petroleum ar Food, Beverages and Toba Chemicals and Chemical Pr Agriculture, Hunting, Fores Textiles and Textile Produc Renting of M&Eq and Other Other Supporting and Auxi GREECE 2011 Water Transport Wholesale Trade and Com Basic Metals and Fabricate	4,660 3,982 3,868 3,851 3,658 3,279 2,343 42,070 5,425 5,362	c3 c30 c14 c1 c13 c8 c4 c4 c15 c9 c12	Food, Beverages and Toba Renting of M&Eq and Other Electrical and Optical Equip Agriculture, Hunting, Fores Machinery, Nec Coke, Refined Petroleum ar Textiles and Textile Produc SPAIN 2011 Transport Equipment Chemicals and Chemical Pr Basic Metals and Fabricate	6,916 6,803 6,797 4,710 4,599 3,772 3,424 15,762 10,404 9,263
c3 c9 c25 c13 c23 c30 c15 c4 c3	Food, Beverages and T. Chemicals Air Transport Machinery, Nec Inland Transport Renting M&Eq, O. Bus. A. PORTUGAL 2011 Transport Equipment Textiles and Textile Prod. Electrical and Optical Eq. Food, Beverages and T.	5,062 5,366 4,745 4,500 4,049 3,904 3,741 8,860 7,327 7,083 6,850	c8 c3 c9 c1 c4 c30 c26 c24 c20 c12 c8	Coke, Refined Petroleum ar Food, Beverages and Toba Chemicals and Chemical Pr Agriculture, Hunting, Fores Textiles and Textile Produc Renting of M&Eq and Other Other Supporting and Auxi GREECE 2011 Water Transport Wholesale Trade and Com Basic Metals and Fabricate Coke, Refined Petroleum ar	4,660 3,982 3,868 3,851 3,658 3,279 2,343 42,070 5,425 5,362 4,956	c3 c30 c14 c1 c13 c8 c4 c4 c15 c9 c12 c8	Food, Beverages and Toba Renting of M&Eq and Other Electrical and Optical Equip Agriculture, Hunting, Fores Machinery, Nec Coke, Refined Petroleum ar Textiles and Textile Produc SPAIN 2011 Transport Equipment Chemicals and Chemical Pr Basic Metals and Fabricate Coke, Refined Petroleum ar	6,916 6,803 6,797 4,710 4,599 3,772 3,424 15,762 10,404 9,263 8,173
c3 c9 c25 c13 c23 c30 c15 c4 c3 c7	Food, Beverages and T. Chemicals Air Transport Machinery, Nec Inland Transport Renting M&Eq, O. Bus. A. PORTUGAL 2011 Transport Equipment Textiles and Textile Prod. Electrical and Optical Eq. Food, Beverages and T. Pulp, Paper, Printing	5,062 5,366 4,745 4,500 4,049 3,904 3,741 8,860 7,327 7,083 6,850 6,614	c8 c3 c9 c1 c4 c30 c26 c21 c20 c12 c8 c26	Coke, Refined Petroleum ar Food, Beverages and Toba Chemicals and Chemical Pr Agriculture, Hunting, Fores Textiles and Textile Produc Renting of M&Eq and Other Other Supporting and Auxi GREECE 2011 Water Transport Wholesale Trade and Com Basic Metals and Fabricate Coke, Refined Petroleum ar Other Supporting and Auxi	4,660 3,982 3,868 3,851 3,658 3,279 2,343 42,070 5,425 5,362 4,956 4,414	c3 c30 c14 c1 c13 c8 c4 c4 c15 c9 c12 c8 c30	Food, Beverages and Toba Renting of M&Eq and Other Electrical and Optical Equip Agriculture, Hunting, Fores Machinery, Nec Coke, Refined Petroleum ar Textiles and Textile Produc SPAIN 2011 Transport Equipment Chemicals and Chemical Pr Basic Metals and Fabricate Coke, Refined Petroleum ar Renting of M&Eq and Other	6,916 6,803 6,797 4,710 4,599 3,772 3,424 15,762 10,404 9,263 8,173 8,169
c3 c9 c25 c13 c23 c30 c15 c4 c3 c7 c12	Food, Beverages and T. Chemicals Air Transport Machinery, Nec Inland Transport Renting M&Eq, O. Bus. A. PORTUGAL 2011 Transport Equipment Textiles and Textile Prod. Bectrical and Optical Eq. Food, Beverages and T. Pulp, Paper, Printing Basic Metals, Fabr Metal	5,062 5,366 4,745 4,500 4,049 3,904 3,741 8,860 7,327 7,083 6,850 6,614 6,115	c8 c3 c9 c1 c4 c30 c26 c22 c1 c20 c12 c8 c26 c30	Coke, Refined Petroleum ar Food, Beverages and Toba Chemicals and Chemical Pr Agriculture, Hunting, Fores Textiles and Textile Produc Renting of M&Eq and Other Other Supporting and Auxi GREECE 2011 Water Transport Wholesale Trade and Com Basic Metals and Fabricate Coke, Refined Petroleum ar Other Supporting and Auxi Food, Beverages and Toba	4,660 3,982 3,868 3,851 3,658 3,279 2,343 42,070 5,425 5,362 4,956 4,414 4,239	c3 c30 c14 c1 c13 c8 c4 c15 c9 c12 c8 c30 c31	Food, Beverages and Toba Renting of M&Eq and Other Electrical and Optical Equip Agriculture, Hunting, Fores Machinery, Nec Coke, Refined Petroleum ar Textiles and Textile Produc SPAIN 2011 Transport Equipment Chemicals and Chemical Pr Basic Metals and Fabricate Coke, Refined Petroleum ar Renting of M&Eq and Other Food, Beverages and Toba	6,916 6,803 6,797 4,710 4,599 3,772 3,424 15,762 10,404 9,263 8,173 8,169 7,372
c9 c25 c13 c23 c30 c15 c4 c3 c7 c12 c25	Food, Beverages and T. Chemicals Air Transport Machinery, Nec Inland Transport Renting M&Eq, O. Bus. A. PORTUGAL 2011 Transport Equipment Textiles and Textile Prod. Electrical and Optical Eq. Food, Beverages and T. Pulp, Paper, Printing Basic Metals, Fabr Metal Air Transport	5,062 5,366 4,745 4,500 4,049 3,904 3,741 8,860 7,327 7,083 6,850 6,614 6,115 5,261	c8 c3 c9 c1 c4 c30 c26 c22 c8 c26 c30 c31 c32 c33 c330	Coke, Refined Petroleum ar Food, Beverages and Toba Chemicals and Chemical Pr Agriculture, Hunting, Fores Textiles and Textile Produc Renting of M&Eq and Other Other Supporting and Auxi GREECE 2011 Water Transport Wholesale Trade and Com Basic Metals and Fabricate Coke, Refined Petroleum ar Other Supporting and Auxi Food, Beverages and Toba Renting of M&Eq and Other	4,660 3,982 3,868 3,851 3,658 3,279 2,343 42,070 5,425 5,362 4,956 4,414 4,239 3,656	c3 c30 c14 c1 c13 c8 c4 c15 c9 c12 c8 c30 c31	Food, Beverages and Toba Renting of M&Eq and Other Electrical and Optical Equip Agriculture, Hunting, Fores Machinery, Nec Coke, Refined Petroleum ar Textiles and Textile Produc SPAIN 2011 Transport Equipment Chemicals and Chemical Pr Basic Metals and Fabricate Coke, Refined Petroleum ar Renting of M&Eq and Other Food, Beverages and Toba Electrical and Optical Equip	6,916 6,803 6,797 4,710 4,599 3,772 3,424 15,762 10,404 9,263 8,173 8,169 7,372 5,517
c3 c9 c25 c13 c23 c30 c15 c4 c3 c7 c12 c25 c30	Food, Beverages and T. Chemicals Air Transport Machinery, Nec Inland Transport Renting M&Eq, O. Bus. A. PORTUGAL 2011 Transport Equipment Textiles and Textile Prod. Bectrical and Optical Eq. Food, Beverages and T. Pulp, Paper, Printing Basic Metals, Fabr Metal Air Transport Renting M&Eq, O. Bus. A.	5,062 5,366 4,745 4,500 4,049 3,904 3,741 8,860 7,327 7,083 6,850 6,614 6,115 5,261 4,827	c8 c3 c9 c1 c4 c30 c26 c20 c12 c8 c26 c30 c12 c8 c30 c31	Coke, Refined Petroleum ar Food, Beverages and Toba Chemicals and Chemical Pr Agriculture, Hunting, Fores Textiles and Textile Produc Renting of M&Eq and Other Other Supporting and Auxi GREECE 2011 Water Transport Wholesale Trade and Com Basic Metals and Fabricate Coke, Refined Petroleum ar Other Supporting and Auxi Food, Beverages and Toba Renting of M&Eq and Other Chemicals and Chemical Pr	4,660 3,982 3,868 3,851 3,658 3,279 2,343 42,070 5,425 5,362 4,956 4,956 4,414 4,239 3,656 3,571	c3 c30 c14 c13 c8 c4 c15 c9 c12 c8 c30 c12 c8 c30 c12 c31 c13	Food, Beverages and Toba Renting of M&Eq and Other Electrical and Optical Equip Agriculture, Hunting, Fores Machinery, Nec Coke, Refined Petroleum ar Textiles and Textile Produc SPAIN 2011 Transport Equipment Chemicals and Chemical Pr Basic Metals and Fabricate Coke, Refined Petroleum ar Renting of M&Eq and Other Food, Beverages and Toba Electrical and Optical Equip Machinery, Nec	6,916 6,803 6,797 4,710 4,599 3,772 3,424 15,762 10,404 9,263 8,173 8,169 7,372 5,517 4,359
c3 c9 c25 c13 c23 c30 c15 c4 c14 c3 c7 c12 c25 c30	Food, Beverages and T. Chemicals Air Transport Machinery, Nec Inland Transport Renting M&Eq, O. Bus. A. PORTUGAL 2011 Transport Equipment Textiles and Textile Prod. Bectrical and Optical Eq. Food, Beverages and T. Pulp, Paper, Printing Basic Metals, Fabr Metal Air Transport Renting M&Eq, O. Bus. A. Machinery, Nec	5,062 5,366 4,745 4,500 4,049 3,904 3,741 8,860 7,327 7,083 6,850 6,614 6,115 5,261 4,827 4,364	c8 c3 c9 c1 c4 c30 c26 c24 c20 c12 c8 c26 c30 c12 c8 c26 c30 c12 c8 c30 c9 c1	Coke, Refined Petroleum ar Food, Beverages and Toba Chemicals and Chemical Pr Agriculture, Hunting, Fores Textiles and Textile Produc Renting of M&Eq and Other Other Supporting and Auxi GREECE 2011 Water Transport Wholesale Trade and Com Basic Metals and Fabricate Coke, Refined Petroleum ar Other Supporting and Auxi Food, Beverages and Toba Renting of M&Eq and Other Chemicals and Chemical Pr Agriculture, Hunting, Fores	4,660 3,982 3,868 3,851 3,658 3,279 2,343 42,070 5,425 5,362 4,956 4,414 4,239 3,656 3,571 3,549	c3 c30 c14 c1 c13 c8 c4 c15 c9 c12 c8 c30 c13 c14 c15 c9 c12 c8 c30 c14 c13 c13 c1	Food, Beverages and Toba Renting of M&Eq and Other Electrical and Optical Equip Agriculture, Hunting, Fores Machinery, Nec Coke, Refined Petroleum ar Textiles and Textile Produc SPAIN 2011 Transport Equipment Chemicals and Chemical Pr Basic Metals and Fabricate Coke, Refined Petroleum ar Renting of M&Eq and Other Food, Beverages and Toba Electrical and Optical Equip Machinery, Nec Agriculture, Hunting, Fores	6,916 6,803 6,797 4,710 4,599 3,772 3,424 15,762 10,404 9,263 8,173 8,169 7,372 5,517 4,359 4,185

Table 5: Weight of each sector's exports in total exports (E_i/E) (%)

	GERMANY 1995			NETHERLANDS 1995	5	FINLAND 1995			
c15	Transport Equipment	18,612	c3	Food, Beverages and Toba	14,759	c7	Pulp, Paper, Paper, Printing	23,009	
c13	Machinery, Nec	14,759	c9	Chemicals and Chemical Pr	14,586	c14	Electrical and Optical Equip	14,754	
c14	Electrical and Optical Eq.	13,804	c14	Electrical and Optical Equip	7,642	c13	Machinery, Nec	12,564	
c9	Chemicals	12,510	c1	Agriculture, Hunting, Fores	6,902	c12	Basic Metals and Fabricate	8,905	
c12	Basic Metals, Fabr Metal	9,485	c30	Renting of M&Eq and Other	6,767	c6	Wood and Products of Wo	6,358	
c3	Food, Beverages and T.	4,191	c12	Basic Metals and Fabricate	6,375	c30	Renting of M&Eq and Other	4,523	
c7	Pulp, Paper, Printing	3,556	c15	Transport Equipment	5,261	c9	Chemicals and Chemical Pr	4,186	
c4	Textiles and Textile Prod.	3,464	c13	Machinery, Nec	4,745	c15	Transport Equipment	4,017	
c10	Rubber and Plastics	3,249	c8	Coke, Refined Petroleum ar	3,552	c24	Water Transport	3,407	
c30	Renting M&Eq, O. Bus. A.	2,548	c7	Pulp, Paper, Paper, Printing	3,148	c3	Food, Beverages and Toba	2,768	
	GERMANY 2000			NETHERLANDS 2000)		FINLAND 2000		
c15	Transport Equipment	20,864	c9	Chemicals and Chemical Pr	13,740	c14	Electrical and Optical Equip	25,273	
c14	Electrical and Optical Eq.	15,406	c3	Food, Beverages and Toba	12,269	c7	Pulp, Paper, Paper, Printing	18,703	
c13	Machinery, Nec	12,746	c30	Renting of M&Eq and Other	9,175	c13	Machinery, Nec	9,571	
c9	Chemicals	11,133	c14	Electrical and Optical Equip	7,378	c12	Basic Metals and Fabricate	8,328	
c12	Basic Metals, Fabr Metal	8,409	c1	Agriculture, Hunting, Fores	6,021	c6	Wood and Products of Wo	5,565	
c3	Food, Beverages and T.	3,802	c12	Basic Metals and Fabricate	5,742	c9	Chemicals and Chemical Pr	4,910	
c7	Pulp, Paper, Printing	3,530	c13	Machinery, Nec	5,636	c30	Renting of M&Eq and Other	4,792	
c30	Renting M&Eq, O. Bus. A.	3,189	c8	Coke, Refined Petroleum ar	5,579	c15	Transport Equipment	4,701	
c10	Rubber and Plastics	3,148	c15	Transport Equipment	5,425	c8	Coke, Refined Petroleum ar	3,519	
c4	Textiles and Textile Prod.	2,916	c25	Air Transport	2,903	c3	Food, Beverages and Toba	2,337	
	GERMANY 2005	1		NETHERLANDS 2005	5		FINLAND 2005		
c15	GERMANY 2005 Transport Equipment	20,980	c9	NETHERLANDS 2005 Chemicals and Chemical Pr	5 15,157	c14	FINLAND 2005 Electrical and Optical Equip	25,283	
c15 c14	GERMANY 2005 Transport Equipment Electrical and Optical Eq.	20,980 13,178	c9 c3	NETHERLANDS 2005 Chemicals and Chemical Pr Food, Beverages and Toba	5 15,157 11,386	c14 c7	FINLAND 2005 Electrical and Optical Equip Pulp, Paper, Paper , Printing	25,283 13,264	
c15 c14 c13	GERMANY 2005 Transport Equipment Bectrical and Optical Eq. Machinery, Nec	20,980 13,178 12,655	c9 c3 c30	NETHERLANDS 2009 Chemicals and Chemical Pr Food, Beverages and Toba Renting of M&Eq and Other	5 15,157 11,386 9,163	c14 c7 c13	FINLAND 2005 Electrical and Optical Equip Pulp, Paper, Paper, Printing Machinery, Nec	25,283 13,264 11,091	
c15 c14 c13 c9	GERMANY 2005 Transport Equipment Electrical and Optical Eq. Machinery, Nec Chemicals	20,980 13,178 12,655 11,424	c9 c3 c30 c8	NETHERLANDS 2005 Chemicals and Chemical Pr Food, Beverages and Toba Renting of M&Eq and Other Coke, Refined Petroleum ar	5 15,157 11,386 9,163 7,335	c14 c7 c13 c12	FINLAND 2005 Electrical and Optical Equip Pulp, Paper, Paper , Printing Machinery, Nec Basic Metals and Fabricate	25,283 13,264 11,091 10,716	
c15 c14 c13 c9 c12	GERMANY 2005 Transport Equipment Bectrical and Optical Eq. Machinery, Nec Chemicals Basic Metals, Fabr Metal	20,980 13,178 12,655 11,424 9,129	c9 c3 c30 c8 c1	NETHERLANDS 2005 Chemicals and Chemical Pr Food, Beverages and Toba Renting of M&Eq and Other Coke, Refined Petroleum ar Agriculture, Hunting, Fores	5 15,157 11,386 9,163 7,335 5,914	c14 c7 c13 c12 c30	FINLAND 2005 Electrical and Optical Equip Pulp, Paper, Paper , Printing Machinery, Nec Basic Metals and Fabricate Renting of M&Eq and Other	25,283 13,264 11,091 10,716 7,218	
c15 c14 c13 c9 c12 c3	GERMANY 2005 Transport Equipment Bectrical and Optical Eq. Machinery, Nec Chemicals Basic Metals, Fabr Metal Food, Beverages and T.	20,980 13,178 12,655 11,424 9,129 3,971	c9 c3 c30 c8 c1 c13	NETHERLANDS 2005 Chemicals and Chemical Pr Food, Beverages and Toba Renting of M&Eq and Other Coke, Refined Petroleum ar Agriculture, Hunting, Fores Machinery, Nec	5 15,157 11,386 9,163 7,335 5,914 5,894	c14 c7 c13 c12 c30 c9	FINLAND 2005 Electrical and Optical Equip Pulp, Paper, Paper , Printing Machinery, Nec Basic Metals and Fabricate Renting of M&Eq and Other Chemicals and Chemical Pr	25,283 13,264 11,091 10,716 7,218 5,275	
c15 c14 c13 c9 c12 c3 c30	GERMANY 2005 Transport Equipment Bectrical and Optical Eq. Machinery, Nec Chemicals Basic Metals, Fabr Metal Food, Beverages and T. Renting M&Eq, O. Bus. A.	20,980 13,178 12,655 11,424 9,129 3,971 3,945	c9 c3 c30 c8 c1 c13 c14	NETHERLANDS 2005 Chemicals and Chemical Pr Food, Beverages and Toba Renting of M&Eq and Other Coke, Refined Petroleum ar Agriculture, Hunting, Fores Machinery, Nec Electrical and Optical Equip	5 15,157 11,386 9,163 7,335 5,914 5,894 5,482	c14 c7 c13 c12 c30 c9 c6	FINLAND 2005 Electrical and Optical Equip Pulp, Paper, Paper , Printing Machinery, Nec Basic Metals and Fabricate Renting of M&Eq and Other Chemicals and Chemical Pr Wood and Products of Wo	25,283 13,264 11,091 10,716 7,218 5,275 4,363	
c15 c14 c13 c9 c12 c3 c30 c7	GERMANY 2005 Transport Equipment Electrical and Optical Eq. Machinery, Nec Chemicals Basic Metals, Fabr Metal Food, Beverages and T. Renting M&Eq, O. Bus. A. Pulp, Paper, Printing	20,980 13,178 12,655 11,424 9,129 3,971 3,945 3,583	c9 c3 c30 c8 c1 c13 c14 c12	NETHERLANDS 2005 Chemicals and Chemical Pr Food, Beverages and Toba Renting of M&Eq and Other Coke, Refined Petroleum ar Agriculture, Hunting, Fores Machinery, Nec Electrical and Optical Equip Basic Metals and Fabricate	5 15,157 11,386 9,163 7,335 5,914 5,894 5,482 4,855	c14 c7 c13 c12 c30 c9 c6 c8	FINLAND 2005 Electrical and Optical Equip Pulp, Paper, Paper , Printing Machinery, Nec Basic Metals and Fabricate Renting of M&Eq and Other Chemicals and Chemical Pr Wood and Products of Wo Coke, Refined Petroleum ar	25,283 13,264 11,091 10,716 7,218 5,275 4,363 3,918	
c15 c14 c13 c9 c12 c3 c30 c7 c7 c10	GERMANY 2005 Transport Equipment Bectrical and Optical Eq. Machinery, Nec Chemicals Basic Metals, Fabr Metal Food, Beverages and T. Renting M&Eq, O. Bus. A. Pulp, Paper, Printing Rubber and Plastics	20,980 13,178 12,655 11,424 9,129 3,971 3,945 3,583 3,251	c9 c3 c30 c8 c1 c13 c14 c12 c15	NETHERLANDS 2005 Chemicals and Chemical Pr Food, Beverages and Toba Renting of M&Eq and Other Coke, Refined Petroleum ar Agriculture, Hunting, Fores Machinery, Nec Electrical and Optical Equip Basic Metals and Fabricate Transport Equipment	5 15,157 11,386 9,163 7,335 5,914 5,894 5,482 4,855 4,583	c14 c7 c13 c12 c30 c9 c6 c8 c15	FINLAND 2005 Electrical and Optical Equip Pulp, Paper, Paper , Printing Machinery, Nec Basic Metals and Fabricate Renting of M&Eq and Other Chemicals and Chemical Pr Wood and Products of Wo Coke, Refined Petroleum ar Transport Equipment	25,283 13,264 11,091 10,716 7,218 5,275 4,363 3,918 3,485	
c15 c14 c13 c9 c12 c3 c30 c7 c7 c10 c4	GERMANY 2005 Transport Equipment Electrical and Optical Eq. Machinery, Nec Chemicals Basic Metals, Fabr Metal Food, Beverages and T. Renting M&Eq, O. Bus. A. Pulp, Paper, Printing Rubber and Plastics Textiles and Textile Prod.	20,980 13,178 12,655 11,424 9,129 3,971 3,945 3,583 3,251 2,331	c9 c3 c30 c8 c1 c13 c14 c12 c15 c2	NETHERLANDS 2005 Chemicals and Chemical Pr Food, Beverages and Toba Renting of M&Eq and Other Coke, Refined Petroleum ar Agriculture, Hunting, Fores Machinery, Nec Electrical and Optical Equip Basic Metals and Fabricate Transport Equipment Mining and Quarrying	5 15,157 11,386 9,163 7,335 5,914 5,894 5,482 4,855 4,583 3,546	c14 c7 c13 c12 c30 c9 c6 c8 c8 c15 c24	FINLAND 2005 Electrical and Optical Equip Pulp, Paper, Paper , Printing Machinery, Nec Basic Metals and Fabricate Renting of M&Eq and Other Chemicals and Chemical Pr Wood and Products of Wo Coke, Refined Petroleum ar Transport Equipment Water Transport	25,283 13,264 11,091 10,716 7,218 5,275 4,363 3,918 3,485 2,046	
c15 c14 c13 c9 c12 c3 c30 c7 c7 c10 c4	GERMANY 2005 Transport Equipment Electrical and Optical Eq. Machinery, Nec Chemicals Basic Metals, Fabr Metal Food, Beverages and T. Renting M&Eq, O. Bus. A. Pulp, Paper, Printing Rubber and Plastics Textiles and Textile Prod. GERMANY 2011	20,980 13,178 12,655 11,424 9,129 3,971 3,945 3,583 3,251 2,331	c9 c3 c30 c8 c1 c13 c14 c12 c15 c2	NETHERLANDS 2005 Chemicals and Chemical Pr Food, Beverages and Toba Renting of M&Eq and Other Coke, Refined Petroleum ar Agriculture, Hunting, Fores Machinery, Nec Electrical and Optical Equip Basic Metals and Fabricate Transport Equipment Mining and Quarrying NETHERLANDS 2012	5 15,157 11,386 9,163 7,335 5,914 5,894 5,482 4,855 4,583 3,546	c14 c7 c13 c12 c30 c9 c6 c8 c15 c24	FINLAND 2005 Electrical and Optical Equip Pulp, Paper, Paper , Printing Machinery, Nec Basic Metals and Fabricate Renting of M&Eq and Other Chemicals and Chemical Pr Wood and Products of Wo Coke, Refined Petroleum ar Transport Equipment Water Transport FINLAND 2011	25,283 13,264 11,091 10,716 7,218 5,275 4,363 3,918 3,485 2,046	
c15 c14 c13 c9 c12 c3 c3 c7 c7 c10 c4 c15	GERMANY 2005 Transport Equipment Eectrical and Optical Eq. Machinery, Nec Chemicals Basic Metals, Fabr Metal Food, Beverages and T. Renting M&Eq, O. Bus. A. Pulp, Paper, Printing Rubber and Plastics Textiles and Textile Prod. GERMANY 2011 Transport Equipment	20,980 13,178 12,655 11,424 9,129 3,971 3,945 3,583 3,251 2,331 19,494	c9 c3 c30 c1 c13 c14 c12 c15 c2 c9	NETHERLANDS 2005 Chemicals and Chemical Pr Food, Beverages and Toba Renting of M&Eq and Other Coke, Refined Petroleum ar Agriculture, Hunting, Fores Machinery, Nec Electrical and Optical Equip Basic Metals and Fabricate Transport Equipment Mining and Quarrying NETHERLANDS 2011 Chemicals and Chemical Pr	5 15,157 11,386 9,163 7,335 5,914 5,894 5,482 4,855 4,583 3,546 L 15,156	c14 c7 c13 c12 c30 c9 c6 c8 c15 c24 c14	FINLAND 2005 Electrical and Optical Equip Pulp, Paper, Paper , Printing Machinery, Nec Basic Metals and Fabricate Renting of M&Eq and Other Chemicals and Chemical Pr Wood and Products of Wo Coke, Refined Petroleum ar Transport Equipment Water Transport FINLAND 2011 Electrical and Optical Equip	25,283 13,264 11,091 10,716 7,218 5,275 4,363 3,918 3,485 2,046 15,356	
c15 c14 c13 c9 c12 c3 c30 c7 c10 c4 c15 c14	GERMANY 2005 Transport Equipment Electrical and Optical Eq. Machinery, Nec Chemicals Basic Metals, Fabr Metal Food, Beverages and T. Renting M&Eq, O. Bus. A. Pulp, Paper, Printing Rubber and Plastics Textiles and Textile Prod. GERMANY 2011 Transport Equipment Electrical and Optical Eq.	20,980 13,178 12,655 11,424 9,129 3,971 3,945 3,583 3,251 2,331 19,494 12,793	c9 c3 c30 c8 c11 c13 c14 c12 c15 c2 c9 c3	NETHERLANDS 2005 Chemicals and Chemical Pr Food, Beverages and Toba Renting of M&Eq and Other Coke, Refined Petroleum ar Agriculture, Hunting, Fores Machinery, Nec Electrical and Optical Equip Basic Metals and Fabricate Transport Equipment Mining and Quarrying NETHERLANDS 2011 Chemicals and Chemical Pr Food, Beverages and Toba	5 15,157 11,386 9,163 7,335 5,914 5,894 5,482 4,855 4,583 3,546 L 15,156 12,407	c14 c7 c13 c12 c30 c9 c6 c8 c15 c24 c14 c7	FINLAND 2005 Electrical and Optical Equip Pulp, Paper, Paper , Printing Machinery, Nec Basic Metals and Fabricate Renting of M&Eq and Other Chemicals and Chemical Pr Wood and Products of Wo Coke, Refined Petroleum ar Transport Equipment Water Transport FINLAND 2011 Electrical and Optical Equip Pulp, Paper, Paper , Printing	25,283 13,264 11,091 10,716 7,218 5,275 4,363 3,918 3,485 2,046 15,356 13,153	
c15 c14 c13 c9 c12 c3 c30 c7 c10 c4 c15 c14	GERMANY 2005 Transport Equipment Bectrical and Optical Eq. Machinery, Nec Chemicals Basic Metals, Fabr Metal Food, Beverages and T. Renting M&Eq, O. Bus. A. Pulp, Paper, Printing Rubber and Plastics Textiles and Textile Prod. GERMANY 2011 Transport Equipment Electrical and Optical Eq. Machinery, Nec	20,980 13,178 12,655 11,424 9,129 3,971 3,945 3,583 3,251 2,331 19,494 12,793 12,711	c9 c3 c30 c8 c11 c13 c14 c15 c2 c3 c3 c3 c3 c3 c3 c4 c5 c2 c3 c3 c3	NETHERLANDS 2005 Chemicals and Chemical Pr Food, Beverages and Toba Renting of M&Eq and Other Coke, Refined Petroleum ar Agriculture, Hunting, Fores Machinery, Nec Electrical and Optical Equip Basic Metals and Fabricate Transport Equipment Mining and Quarrying NETHERLANDS 2011 Chemicals and Chemical Pr Food, Beverages and Toba Coke, Refined Petroleum ar	15,157 11,386 9,163 7,335 5,914 5,894 5,482 4,855 4,583 3,546 15,156 12,407 10,674	c14 c7 c13 c12 c30 c9 c6 c8 c15 c24 c14 c7 c12	FINLAND 2005 Electrical and Optical Equip Pulp, Paper, Paper , Printing Machinery, Nec Basic Metals and Fabricate Renting of M&Eq and Other Chemicals and Chemical Pr Wood and Products of Wo Coke, Refined Petroleum ar Transport Equipment Water Transport FINLAND 2011 Electrical and Optical Equip Pulp, Paper, Paper , Printing Basic Metals and Fabricate	25,283 13,264 11,091 10,716 7,218 5,275 4,363 3,918 3,485 2,046 15,356 13,153 12,407	
c15 c14 c13 c9 c12 c3 c30 c7 c10 c4 c15 c14 c13 c9 c7 c10 c4 c15 c14 c13 c9	GERMANY 2005 Transport Equipment Bectrical and Optical Eq. Machinery, Nec Chemicals Basic Metals, Fabr Metal Food, Beverages and T. Renting M&Eq, O. Bus. A. Pulp, Paper, Printing Rubber and Plastics Textiles and Textile Prod. GERMANY 2011 Transport Equipment Bectrical and Optical Eq. Machinery, Nec Chemicals	20,980 13,178 12,655 11,424 9,129 3,971 3,945 3,583 3,251 2,331 19,494 12,793 12,711 11,541	c9 c3 c30 c8 c11 c12 c15 c2 c3	NETHERLANDS 2005 Chemicals and Chemical Pr Food, Beverages and Toba Renting of M&Eq and Other Coke, Refined Petroleum ar Agriculture, Hunting, Fores Machinery, Nec Electrical and Optical Equip Basic Metals and Fabricate Transport Equipment Mining and Quarrying NETHERLANDS 2011 Chemicals and Chemical Pr Food, Beverages and Toba Coke, Refined Petroleum ar Renting of M&Eq and Other	15,157 11,386 9,163 7,335 5,914 5,894 5,482 4,855 4,583 3,546 12,407 10,674 9,301	c14 c7 c13 c12 c30 c9 c6 c8 c15 c24 c14 c7 c12 c12 c12	FINLAND 2005 Electrical and Optical Equip Pulp, Paper, Paper , Printing Machinery, Nec Basic Metals and Fabricate Renting of M&Eq and Other Chemicals and Chemical Pr Wood and Products of Wo Coke, Refined Petroleum ar Transport Equipment Water Transport FINLAND 2011 Electrical and Optical Equip Pulp, Paper, Paper , Printing Basic Metals and Fabricate Machinery, Nec	25,283 13,264 11,091 10,716 7,218 5,275 4,363 3,918 3,485 2,046 15,356 13,153 12,407 12,132	
c15 c14 c13 c9 c12 c3 c30 c7 c10 c4 c15 c14 c13 c9 c12	GERMANY 2005 Transport Equipment Electrical and Optical Eq. Machinery, Nec Chemicals Basic Metals, Fabr Metal Food, Beverages and T. Renting M&Eq, O. Bus. A. Pulp, Paper, Printing Rubber and Plastics Textiles and Textile Prod. GERMANY 2011 Transport Equipment Electrical and Optical Eq. Machinery, Nec Chemicals Basic Metals, Fabr Metal	20,980 13,178 12,655 11,424 9,129 3,971 3,945 3,583 3,251 2,331 19,494 12,793 12,711 11,541 10,460	c9 c3 c30 c8 c11 c12 c15 c2 c3 c30	NETHERLANDS 2005 Chemicals and Chemical Pr Food, Beverages and Toba Renting of M&Eq and Other Coke, Refined Petroleum ar Agriculture, Hunting, Fores Machinery, Nec Electrical and Optical Equip Basic Metals and Fabricate Transport Equipment Mining and Quarrying NETHERLANDS 2012 Chemicals and Chemical Pr Food, Beverages and Toba Coke, Refined Petroleum ar Renting of M&Eq and Other Machinery, Nec	15,157 11,386 9,163 7,335 5,914 5,894 5,482 4,855 4,583 3,546 12,407 10,674 9,301 5,675	c14 c7 c13 c12 c30 c9 c6 c8 c15 c24 c14 c7 c12 c12 c13 c30	FINLAND 2005 Electrical and Optical Equip Pulp, Paper, Paper , Printing Machinery, Nec Basic Metals and Fabricate Renting of M&Eq and Other Chemicals and Chemical Pr Wood and Products of Wo Coke, Refined Petroleum ar Transport Equipment Water Transport FINLAND 2011 Electrical and Optical Equip Pulp, Paper, Paper , Printing Basic Metals and Fabricate Machinery, Nec Renting of M&Eq and Other	25,283 13,264 11,091 10,716 7,218 5,275 4,363 3,918 3,485 2,046 15,356 13,153 12,407 12,132 9,393	
c15 c14 c13 c9 c12 c3 c30 c7 c10 c4 c15 c14 c15 c14 c15 c14 c13 c9 c14 c13 c9 c12 c3	GERMANY 2005 Transport Equipment Electrical and Optical Eq. Machinery, Nec Chemicals Basic Metals, Fabr Metal Food, Beverages and T. Renting M&Eq, O. Bus. A. Pulp, Paper, Printing Rubber and Plastics Textiles and Textile Prod. GERMANY 2011 Transport Equipment Electrical and Optical Eq. Machinery, Nec Chemicals Basic Metals, Fabr Metal Food, Beverages and T.	20,980 13,178 12,655 11,424 9,129 3,971 3,945 3,583 3,251 2,331 19,494 12,793 12,711 11,541 10,460 4,746	c9 c3 c30 c8 c11 c13 c14 c12 c15 c2 c30 c31 c14 c12 c15 c2 c30 c31 c13 c2	NETHERLANDS 2005 Chemicals and Chemical Pr Food, Beverages and Toba Renting of M&Eq and Other Coke, Refined Petroleum ar Agriculture, Hunting, Fores Machinery, Nec Electrical and Optical Equip Basic Metals and Fabricate Transport Equipment Mining and Quarrying NETHERLANDS 2011 Chemicals and Chemical Pr Food, Beverages and Toba Coke, Refined Petroleum ar Renting of M&Eq and Other Machinery, Nec	15,157 11,386 9,163 7,335 5,914 5,894 5,482 4,855 4,583 3,546 15,156 12,407 10,674 9,301 5,675 5,319	c14 c7 c13 c12 c30 c9 c6 c15 c24 c17 c12 c13 c30 c14 c7 c12 c13 c30 c9	FINLAND 2005 Electrical and Optical Equip Pulp, Paper, Paper , Printing Machinery, Nec Basic Metals and Fabricate Renting of M&Eq and Other Chemicals and Chemical Pr Wood and Products of Woo Coke, Refined Petroleum ar Transport Equipment Water Transport FINLAND 2011 Electrical and Optical Equip Pulp, Paper, Paper , Printing Basic Metals and Fabricate Machinery, Nec Renting of M&Eq and Other Chemicals and Chemical Pr	25,283 13,264 11,091 10,716 7,218 5,275 4,363 3,918 3,485 2,046 15,356 13,153 12,407 12,132 9,393 7,915	
c15 c14 c13 c9 c12 c3 c70 c10 c4 c13 c9 c14 c30 c7 c10 c4 c13 c9 c12 c3 c3 c3 c3 c3 c30	GERMANY 2005 Transport Equipment Eectrical and Optical Eq. Machinery, Nec Chemicals Basic Metals, Fabr Metal Food, Beverages and T. Renting M&Eq, O. Bus. A. Pulp, Paper, Printing Rubber and Plastics Textiles and Textile Prod. GERMANY 2011 Transport Equipment Eectrical and Optical Eq. Machinery, Nec Chemicals Basic Metals, Fabr Metal Food, Beverages and T. Renting M&Eq. O. Bus. A.	20,980 13,178 12,655 11,424 9,129 3,971 3,945 3,583 3,251 2,331 19,494 12,793 12,711 11,541 10,460 4,746 3,921	c9 c3 c30 c8 c11 c12 c15 c2 c3 c3 c3 c3 c3 c3 c2 c3 c3 c3 c3 c3 c3 c3 c3 c3 c13 c2 c12	NETHERLANDS 2005 Chemicals and Chemical Pr Food, Beverages and Toba Renting of M&Eq and Other Coke, Refined Petroleum ar Agriculture, Hunting, Fores Machinery, Nec Electrical and Optical Equip Basic Metals and Fabricate Transport Equipment Mining and Quarrying NETHERLANDS 2011 Chemicals and Chemical Pr Food, Beverages and Toba Coke, Refined Petroleum ar Renting of M&Eq and Other Machinery, Nec Mining and Quarrying Basic Metals and Fabricate	15,157 11,386 9,163 7,335 5,914 5,894 5,482 4,855 4,583 3,546 12,407 10,674 9,301 5,675 5,319 5,056	c14 c7 c13 c12 c30 c9 c6 c15 c24 c12 c12 c12 c13 c14 c7 c12 c30 c31 c30 c9 c30 c9 c8	FINLAND 2005 Electrical and Optical Equip Pulp, Paper, Paper , Printing Machinery, Nec Basic Metals and Fabricate Renting of M&Eq and Other Chemicals and Chemical Pr Wood and Products of Wo Coke, Refined Petroleum ar Transport Equipment Water Transport FINLAND 2011 Electrical and Optical Equip Pulp, Paper, Paper , Printing Basic Metals and Fabricate Machinery, Nec Renting of M&Eq and Other Chemicals and Chemical Pr Coke, Refined Petroleum ar	25,283 13,264 11,091 10,716 7,218 5,275 4,363 3,918 3,485 2,046 15,356 13,153 12,407 12,132 9,393 7,915 7,032	
c15 c14 c13 c9 c12 c3 c70 c10 c4 c15 c14 c15 c14 c13 c9 c15 c14 c13 c9 c12 c30 c12 c30 c10	GERMANY 2005 Transport Equipment Bectrical and Optical Eq. Machinery, Nec Chemicals Basic Metals, Fabr Metal Food, Beverages and T. Renting M&Eq, O. Bus. A. Pulp, Paper, Printing Rubber and Plastics Textiles and Textile Prod. GERMANY 2011 Transport Equipment Bectrical and Optical Eq. Machinery, Nec Chemicals Basic Metals, Fabr Metal Food, Beverages and T. Renting M&Eq, O. Bus. A. Rubber and Plastics	20,980 13,178 12,655 11,424 9,129 3,971 3,945 3,583 3,251 2,331 19,494 12,793 12,711 11,541 10,460 4,746 3,921 3,426	c9 c3 c30 c8 c11 c12 c15 c2 c3 c30 c30 c31 c12 c13 c2 c30 c13 c2 c12 c13 c2 c12 c12 c12 c12 c13 c2 c12 c13 c2 c12 c14	NETHERLANDS 2005 Chemicals and Chemical Pr Food, Beverages and Toba Renting of M&Eq and Other Coke, Refined Petroleum ar Agriculture, Hunting, Fores Machinery, Nec Electrical and Optical Equip Basic Metals and Fabricate Transport Equipment Mining and Quarrying NETHERLANDS 2012 Chemicals and Chemical Pr Food, Beverages and Toba Coke, Refined Petroleum ar Renting of M&Eq and Other Machinery, Nec Mining and Quarrying Basic Metals and Fabricate Electrical and Optical Equip	15,157 11,386 9,163 7,335 5,914 5,894 5,482 4,855 4,583 3,546 12,407 10,674 9,301 5,675 5,319 5,056 4,431	c14 c7 c13 c12 c30 c9 c6 c8 c15 c24 c14 c7 c12 c12 c13 c30 c9 c8 c6 c6 c8	FINLAND 2005 Electrical and Optical Equip Pulp, Paper, Paper , Printing Machinery, Nec Basic Metals and Fabricate Renting of M&Eq and Other Chemicals and Chemical Pr Wood and Products of Wo Coke, Refined Petroleum ar Transport Equipment Water Transport FINLAND 2011 Electrical and Optical Equip Pulp, Paper, Paper , Printing Basic Metals and Fabricate Machinery, Nec Renting of M&Eq and Other Chemicals and Chemical Pr Coke, Refined Petroleum ar Wood and Products of Wo	25,283 13,264 11,091 10,716 7,218 5,275 4,363 3,918 3,485 2,046 15,356 13,153 12,407 12,132 9,393 7,915 7,032 2,895	
c15 c14 c13 c9 c12 c30 c7 c10 c4 c13 c9 c14 c30 c7 c10 c4 c13 c9 c14 c13 c9 c12 c3 c30 c10 c7 c10 c7	GERMANY 2005 Transport Equipment Electrical and Optical Eq. Machinery, Nec Chemicals Basic Metals, Fabr Metal Food, Beverages and T. Renting M&Eq, O. Bus. A. Pulp, Paper, Printing Rubber and Plastics Textiles and Textile Prod. GERMANY 2011 Transport Equipment Electrical and Optical Eq. Machinery, Nec Chemicals Basic Metals, Fabr Metal Food, Beverages and T. Renting M&Eq, O. Bus. A. Rubber and Plastics Pulp, Paper, Printing	20,980 13,178 12,655 11,424 9,129 3,971 3,945 3,583 3,251 2,331 19,494 12,793 12,711 11,541 10,460 4,746 3,921 3,426 3,063	c9 c3 c30 c8 c11 c13 c14 c12 c15 c2 c30 c13 c14 c12 c15 c2 c30 c13 c2 c14 c15	NETHERLANDS 2005 Chemicals and Chemical Pr Food, Beverages and Toba Renting of M&Eq and Other Coke, Refined Petroleum ar Agriculture, Hunting, Fores Machinery, Nec Electrical and Optical Equip Basic Metals and Fabricate Transport Equipment Mining and Quarrying NETHERLANDS 2011 Chemicals and Chemical Pr Food, Beverages and Toba Coke, Refined Petroleum ar Renting of M&Eq and Other Machinery, Nec Mining and Quarrying Basic Metals and Fabricate Electrical and Optical Equip Transport Equipment	15,157 11,386 9,163 7,335 5,914 5,894 5,482 4,855 4,583 3,546 12,407 10,674 9,301 5,675 5,319 5,056 4,431 4,078	c14 c7 c13 c12 c30 c9 c6 c15 c24 c17 c13 c30 c14 c7 c12 c13 c30 c30 c9 c8 c30 c9 c8 c6 c24	FINLAND 2005 Electrical and Optical Equip Pulp, Paper, Paper , Printing Machinery, Nec Basic Metals and Fabricate Renting of M&Eq and Other Chemicals and Chemical Pr Wood and Products of Wo Coke, Refined Petroleum ar Transport Equipment Water Transport FINLAND 2011 Electrical and Optical Equip Pulp, Paper, Paper , Printing Basic Metals and Fabricate Machinery, Nec Renting of M&Eq and Other Chemicals and Chemical Pr Coke, Refined Petroleum ar Wood and Products of Wo Water Transport	25,283 13,264 11,091 10,716 7,218 5,275 4,363 3,918 3,485 2,046 15,356 13,153 12,407 12,132 9,393 7,915 7,032 2,895 2,386	

Table 5: Weight of each sector's exports in total exports (E_i/E) (%) (cont.)

Tabl	Table 6: Sectoral export contribution to GDP, EYR _i							
	PORTUGAL 1995			GREECE 1995			SPAIN 1995	
c4	Textiles and Textile Prod.	3,569	c1	Agriculture, Hunting, Forestry and Fish	0,887	c15	Transport Equipment	3,056
c14	Electrical and Optical Eq.	1,524	c24	Water Transport	0,871	c9	Chemicals and Chemical Products	1,255
c15	Transport Equipment	1,348	c3	Food, Beverages and Tobacco	0,827	c12	Basic Metals and Fabricated Meta	1,172
c5	Leather and Footw are	1,191	c4	Textiles and Textile Products	0,719	c1	Agriculture, Hunting, Forestry and	1,135
c7	Pulp, Paper, Printing	1,042	c20	Wholesale Trade and Commission Trad	0,485	c3	Food, Beverages and Tobacco	1,112
c3	Food, Beverages and T.	1,010	c12	Basic Metals and Fabricated Metal	0,449	c14	Electrical and Optical Equipment	1,068
c25	Air Transport	0,959	c11	Other Non-Metallic Mineral	0,167	c13	Machinery, Nec	0,828
c11	Other Non-Metallic Mineral	0,731	c9	Chemicals and Chemical Products	0,157	c30	Renting of M&Eq and Other Busir	0,688
c9	Chemicals	0,706	c26	Other Supporting and Auxiliary Transp	0,142	c11	Other Non-Metallic Mineral	0,534
c6	Wood and Cork	0,706	c30	Renting of M&Eq and Other Business /	0,133	c4	Textiles and Textile Products	0,526
	PORTUGAL 2000			GREECE 2000			SPAIN 2000	
c4	Textiles and Textile Prod.	2,802	c24	Water Transport	3,200	c15	Transport Equipment	3,304
c15	Transport Equipment	1,803	c1	Agriculture, Hunting, Forestry and Fish	0,751	c9	Chemicals and Chemical Products	1,415
c14	Electrical and Optical Eq.	1,682	c4	Textiles and Textile Products	0,633	c3	Food, Beverages and Tobacco	1,346
c3	Food, Beverages and T.	0,999	c3	Food, Beverages and Tobacco	0,626	c30	Renting of M&Eq and Other Busir	1,311
c5	Leather and Footw are	0,963	c26	Other Supporting and Auxiliary Transp	0,614	c14	Electrical and Optical Equipment	1,297
c28	Financial Intermediation	0,918	c20	Wholesale Trade and Commission Trad	0,581	c12	Basic Metals and Fabricated Meta	1,220
c25	Air Transport	0,911	c12	Basic Metals and Fabricated Metal	0,477	c1	Agriculture, Hunting, Forestry and	1,156
c7	Pulp, Paper, Printing	0,910	c30	Renting of M&Eq and Other Business A	0,419	c13	Machinery, Nec	1,099
c12	Basic Metals, Fabr Metal	0,782	c9	Chemicals and Chemical Products	0,289	c4	Textiles and Textile Products	0,673
c6	Wood and Cork	0,738	c27	Post and Telecommunications	0,278	c23	Inland Transport	0,629
	PORTUGAL 2005			GREECE 2005			SPAIN 2005	
c4	Textiles and Textile Prod.	2,002	c24	Water Transport	5,648	c15	Transport Equipment	2,914
c15	Transport Equipment	1,536	c20	Wholesale Trade and Commission Trac	0,792	c9	Chemicals and Chemical Products	1,636
c14	Electrical and Optical Eq.	1,295	c1	Agriculture, Hunting, Forestry and Fish	0,549	c30	Renting of M&Eq and Other Busir	1,410
c3	Food, Beverages and T.	1,113	c12	Basic Metals and Fabricated Metal	0,542	c3	Food, Beverages and Tobacco	1,275
c12	Basic Metals, Fabr Metal	0,966	c3	Food, Beverages and Tobacco	0,532	c12	Basic Metals and Fabricated Meta	1,187
c25	Air Transport	0,919	c30	Renting of M&Eq and Other Business A	0,469	c14	Electrical and Optical Equipment	1,012
c30	Renting M&Eq, O. Bus. A.	0,896	c4	Textiles and Textile Products	0,456	c1	Agriculture, Hunting, Forestry an	0,954
c23	Inland Transport	0,848	c9	Chemicals and Chemical Products	0,411	c13	Machinery, Nec	0,799
c9	Chemicals	0,830	c26	Other Supporting and Auxiliary Transp	0,323	c4	Textiles and Textile Products	0,601
c7	Pulp, Paper, Printing	0,735	c8	Coke, Refined Petroleum and Nuclear	0,232	c23	Inland Transport	0,589
	PORTUGAL 2011			GREECE 2011			SPAIN 12011	
c4	Textiles and Textile Prod.	1,450	c24	Water Transport	5,551	c15	Transport Equipment	2,479
c7	Pulp, Paper, Printing	1,316	c20	Wholesale Trade and Commission Trad	4,147	c30	Renting of M&Eq and Other Busir	1,966
c3	Food, Beverages and T.	1,305	c26	Other Supporting and Auxiliary Transp	4,034	c9	Chemicals and Chemical Products	1,927
c15	Transport Equipment	1,257	c12	Basic Metals and Fabricated Metal	3,780	c12	Basic Metals and Fabricated Meta	1,698
c14	Electrical and Optical Eq.	1,113	c3	Food, Beverages and Tobacco	2,998	c3	Food, Beverages and Tobacco	1,561
c30	Renting M&Eq, O. Bus. A.	1,099	c30	Renting of M&Eq and Other Business /	1,719	c1	Agriculture, Hunting, Forestry an	0,973
c12	Basic Metals, Fabr Metal	0,997	c1	Agriculture, Hunting, Forestry and Fish	1,593	c14	Electrical and Optical Equipment	0,940
c25	Air Transport	0,986	c9	Chemicals and Chemical Products	1,094	c13	Machinery, Nec	0,856
c23	Inland Transport	0,895	c25	Air Transport	1,092	c4	Textiles and Textile Products	0,730
c13	Machinery, Nec	0,733	c4	Textiles and Textile Products	0,721	c28	Financial Intermediation	0,588

Tabl	e 6: Sectoral export contributio	on to GD	P, EY	R _i (cont.)				
	GERMANY 1995			NETHERLANDS 1995			FINLAND 1995	
c15	Transport Equipment	3,461	c3	Food, Beverages and Tobacco	5,442	c7	Pulp, Paper, Paper , Printing and I	7,281
c13	Machinery, Nec	2,943	c9	Chemicals and Chemical Products	4,962	c14	Electrical and Optical Equipment	3,689
c14	Electrical and Optical Eq.	2,681	c30	Renting of M&Eq and Other Business A	3,093	c13	Machinery, Nec	3,373
c9	Chemicals	2,483	c1	Agriculture, Hunting, Forestry and Fish	2,968	c12	Basic Metals and Fabricated Meta	2,269
c12	Basic Metals, Fabr Metal	1,785	c14	Electrical and Optical Equipment	2,429	c6	Wood and Products of Wood and	2,085
c3	Food, Beverages and T.	0,860	c12	Basic Metals and Fabricated Metal	2,020	c30	Renting of M&Eq and Other Busir	1,495
c7	Pulp, Paper, Printing	0,733	c13	Machinery, Nec	1,599	c9	Chemicals and Chemical Products	1,186
c10	Rubber and Plastics	0,634	c15	Transport Equipment	1,482	c15	Transport Equipment	1,084
c4	Textiles and Textile Prod.	0,625	c7	Pulp, Paper, Paper , Printing and Publis	1,194	c24	Water Transport	0,906
c30	Renting M&Eq, O. Bus. A.	0,596	c20	Wholesale Trade and Commission Trac	1,115	c3	Food, Beverages and Tobacco	0,886
	GERMANY 2000			NETHERLANDS 2000			FINLAND 2000	
c15	Transport Equipment	4,939	c3	Food, Beverages and Tobacco	4,512	c14	Electrical and Optical Equipment	7,648
c14	Electrical and Optical Eq.	3,909	c9	Chemicals and Chemical Products	4,436	c7	Pulp, Paper, Paper , Printing and I	6,794
c13	Machinery, Nec	3,359	c30	Renting of M&Eq and Other Business A	4,394	c13	Machinery, Nec	2,879
c9	Chemicals	2,863	c1	Agriculture, Hunting, Forestry and Fish	2,644	c12	Basic Metals and Fabricated Meta	2,343
c12	Basic Metals, Fabr Metal	2,100	c14	Electrical and Optical Equipment	2,588	c6	Wood and Products of Wood and	2,027
c3	Food, Beverages and T.	1,057	c13	Machinery, Nec	1,950	c30	Renting of M&Eq and Other Busir	1,853
c30	Renting M&Eq, O. Bus. A.	1,033	c12	Basic Metals and Fabricated Metal	1,881	c9	Chemicals and Chemical Products	1,522
c7	Pulp, Paper, Printing	0,972	c15	Transport Equipment	1,654	c15	Transport Equipment	1,341
c10	Rubber and Plastics	0,816	c8	Coke, Refined Petroleum and Nuclear	1,244	c3	Food, Beverages and Tobacco	0,841
c4	Textiles and Textile Prod.	0,724	c2	Mining and Quarrying	1,207	c24	Water Transport	0,596
	GERMANY 2005			NETHERLANDS 2005			FINLAND 2005	
c15	Transport Equipment	5,776	c9	Chemicals and Chemical Products	4,581	c14	Electrical and Optical Equipment	7,125
c14	Electrical and Optical Eq.	3,942	c30	Renting of M&Eq and Other Business A	4,292	c7	Pulp, Paper, Paper , Printing and I	4,410
c13	Machinery, Nec	3,924	c3	Food, Beverages and Tobacco	4,166	c13	Machinery, Nec	3,112
c9	Chemicals	3,535	c1	Agriculture, Hunting, Forestry and Fish	2,448	c30	Renting of M&Eq and Other Busir	2,692
c12	Basic Metals, Fabr Metal	2,583	c13	Machinery, Nec	2,084	c12	Basic Metals and Fabricated Meta	2,658
c30	Renting M&Eq, O. Bus. A.	1,555	c14	Electrical and Optical Equipment	1,772	c9	Chemicals and Chemical Products	1,544
c3	Food, Beverages and T.	1,314	c2	Mining and Quarrying	1,724	c6	Wood and Products of Wood and	1,441
c7	Pulp, Paper, Printing	1,191	c28	Financial Intermediation	1,672	c15	Transport Equipment	0,949
c10	Rubber and Plastics	0,995	c12	Basic Metals and Fabricated Metal	1,639	c20	Wholesale Trade and Commission	0,637
c4	Textiles and Textile Prod.	0,680	c8	Coke, Refined Petroleum and Nuclear	1,522	c3	Food, Beverages and Tobacco	0,613
	GERMANY 2011			NETHERLANDS 2011			FINLAND 2011	
c15	Transport Equipment	5,551	c22	Food, Beverages and Tobacco	5,198	c7	Pulp, Paper, Paper , Printing and I	4,246
c13	Machinery, Nec	4,147	c7	Renting of M&Eq and Other Business A	5,080	c14	Electrical and Optical Equipment	3,634
c14	Electrical and Optical Eq.	4,034	c27	Chemicals and Chemical Products	4,949	c13	Machinery, Nec	3,410
c9	Chemicals	3,780	c13	Mining and Quarrying	3,054	c30	Renting of M&Eq and Other Busir	3,399
c12	Basic Metals, Fabr Metal	2,998	c15	Machinery, Nec	2,295	c12	Basic Metals and Fabricated Meta	2,708
c30	Renting M&Eq, O. Bus. A.	1,719	c34	Agriculture, Hunting, Forestry and Fish	1,806	c9	Chemicals and Chemical Products	2,256
c3	Food, Beverages and T.	1,593	c28	Basic Metals and Fabricated Metal	1,777	c6	Wood and Products of Wood and	0,957
c7	Pulp, Paper, Printing	1,094	c23	Financial Intermediation	1,760	c24	Water Transport	0,729
c10	Rubber and Plastics	1,092	c25	Electrical and Optical Equipment	1,566	c15	Transport Equipment	0,635
c24	Water Transport	0,721	c4	Transport Equipment	1,362	c20	Wholesale Trade and Commission	0,629

					Sect	orswith	1 I _{0j} <	: 0
	A 10;	A v*i	∧ m*i	%GO11	%\/∆11	%M11		Sector
	-0.0750	0 0385	-0 0168	2.30	3.37	3 18	c4	Textiles and Textile Products
	-0.0424	0.0313	-0.0071	4.87	7.40	0,72	c29	Real Estate Activities
Α	-0,0061	0,0069	-0,0027	3,83	6,20	0,55	c32	Education
		,		11,00	16,97	4,45		sub total
	-0,133	0,0384	0,0039	0,65	1,02	1,18	c5	Leather, Leather and Footwear
	-0,063	0,0282	0,0111	2,01	0,01	13,35	c8	Coke, Refined Petroleum and Nuclear Fuel
_	-0,107	0,0275	0,0126	1,72	0,57	5,72	c15	Transport Equipment
в	-0,190	0,0559	0,0037	4,34	3,66	2,79	c22	Hotels and Restaurants
	-0,042	0,0153	0,0028	5,26	4,87	4,00	c33	Health and Social Work
				13,98	10,12	27,04		sub total
	-0,088	-0,004	0,023	4,05	2,40	5,72	c3	Food, Beverages and Tobacco
П	-0,035	-0,012	0,022	1,61	1,91	2,29	c7	Pulp, Paper, Paper , Printing and Publishing
	-0,051	-0,001	0,020	1,14	0,82	2,76	c13	Machinery, Nec
				6,80	5,13	10,77		sub total
					Sect	orswith	1 l _{0j} >	• 0
	∆ l0j	∆ v*j	∆ m*j	%GO11	%VA11	%M11		Sector
	0,0119	0,0043	-0,0068	1,18	0,64	1,14	c6	Wood and Products of Wood and Cork
Α'	0,0084	0,0084	-0,0110	2,92	1,87	2,40	c34	Other Community, Social and Personal Services
				4,11	2,51	3,54		sub total
	0,1477	-0,0128	-0,0376	2,07	1,22	4,95	c14	Electrical and Optical Equipment
B'	0,0143	-0,0036	-0,0038	2,47	2,68	1,88	c19	Sale, Maintenance and Repair of Motor Vehicles
	0,0218	-0,0025	-0,0059	4,85	7,33	2,71	c20	Wholesale Trade and Commission Trade, Excep
				9,39	11,23	9,53		sub total
	0,0458	-0,0126	-0,0076	3,44	4,09	1,37	c21	Retail Trade, Except of Motor Vehicles and Moto
	0,1897	-0,0377	-0,0224	0,87	0,54	1,45	c25	Air Transport
C'	0,1143	-0,0573	-0,0031	5,40	6,27	1,58	c28	Financial Intermediation
	0,1072	-0,0284	-0,0094	7,80	6,16	4,69	c30	Renting of M&Eq and Other Business Activities
				17,51	17,05	9,08		sub total
	0,1676	-0,0970	0,0353	2,58	5,80	2,40	c1	Agriculture, Hunting, Forestry and Fishing
	0,0481	-0,0374	0,0183	0,48	0,54	0,29	c2	Mining and Quarrying
	0,0546	-0,0514	0,0333	1,60	1,34	3,81	c9	Chemicals and Chemical Products
	0,0064	-0,0336	0,0314	0,89	0,56	2,27	C10	Rubber and Plastics
	0,1639	-0,0550	0,0061	1,52	1,91	1,54	C11	Other Non-Metallic Mineral
	0,0940	-0,0452	0,0151	2,54	1,78	5,96	C1Z	Basic Metals and Fabricated Metal
יח	0,0179	-0,0099	0,0049	1,00	0,09	1,70	017	Electricity, Cos and Water Supply
	0,3204	-0,1005	0,0202	4,44	2,92	4,00	010	
	0,0705	-0,0160	0,0006	0,70	0,30	0,37	010	
	0,1733	-0,0990	0,0309	2,19	0.13	0.35	c24	
	0,1002	-0,0097	0,0309	1 47	1 25	1 01	c26	Other Supporting and Auxiliary Transport Activiti
	0.2010	-0 1267	0,0007	2 96	2 54	1 88	c27	Post and Telecommunications
	0 0770	-0.0537	0,0033	2,30 6.07	2,04 8 24	2 44	c31	Public Admin and Defence: Compulsory Social
	0,0119	0,0007	0,0001	36.74	36.28	35.58	501	sub total

Table 7: Changes in I_{0j} , v_{j}^{*} and m_{j}^{*} - PORTUGAL, 1995-2011

	Sectors with I _{0j} < 0											
	∆ l0j	∆ v*j	∆m*j	%GO11	%VA11	%M11		Sector				
	-0,1050	0,0724	-0,0239	1,12	2,02	1,82	c4	Textiles and Textile Products				
	-0,2004	0,0841	-0,0161	0,11	0,16	0,10	c5	Leather, Leather and Footwear				
	-0,1833	0,0713	-0,0054	0,20	0,38	0,23	c6	Wood and Products of Wood and Cork				
	-0,1603	0,0747	-0,0152	1,08	0,78	1,46	c7	Pulp, Paper, Paper , Printing and Publishing				
Α	-0,1405	0,0629	-0,0028	0,47	0,40	0,95	c10	Rubber and Plastics				
	-0,0547	0,0211	-0,0010	0,52	0,37	0,95	c14	Electrical and Optical Equipment				
	-0,0666	0,0390	-0,0003	2,02	2,69	0,53	c19	Sale, Maintenance and Repair of Motor Vehicles and Motorcycles; F				
	-0,4264	0,1971	-0,0180	0,71	0,39	0,47	c26	Other Supporting and Auxiliary Transport Activities; Activities of Tra				
				6,21	7,18	6,49		sub total				
	-0,616	0,1256	0,0369	5,21	3,28	5,41	c3	Food, Beverages and Tobacco				
	-0,125	0,0268	0,0219	1,04	0,88	2,30	c9	Chemicals and Chemical Products				
	-0,119	0,0221	0,0163	0,81	0,76	0,66	c11	Other Non-Metallic Mineral				
	-0,210	0,0765	0,0102	0,42	0,42	0,80	c13	Machinery, Nec				
Б	-0,090	0,0400	0,0087	4,87	5,20	2,34	c21	Retail Trade, Except of Motor Vehicles and Motorcycles; Repair of H				
Р	-0,353	0,1212	0,0153	6,87	6,55	3,54	c22	Hotels and Restaurants				
	-0,514	0,2198	0,0477	3,95	0,37	9,12	c24	Water Transport				
	-0,068	0,0474	0,0016	7,28	12,43	0,67	c29	Real Estate Activities				
	-0,015	0,0073	0,0050	4,48	4,93	0,46	c32	Education				
				34,92	34,82	25,29		sub total				
	-0,0962	0,0126	0,0177	2,48	1,04	5,15	c12	Basic Metals and Fabricated Metal				
	-0,0988	0,0041	0,0296	6,84	6,01	7,56	c18	Construction				
С	-0,1936	0,0164	0,0696	1,71	1,77	2,39	c23	Inland Transport				
	-0,1206	-0,1081	0,1676	0,74	1,05	2,17	c25	Air Transport				
				11,03	8,82	15,10		sub total				
	-0,1136	-0,0065	0,0580	3,36	8,88	3,32	c1	Agriculture, Hunting, Forestry and Fishing				
	-0,4385	-0,0850	0,3255	2,65	0,33	17,42	c8	Coke, Refined Petroleum and Nuclear Fuel				
	-0,0435	-0,0578	0,0792	0,49	0,47	1,11	c15	Transport Equipment				
D	-0,0533	-0,0091	0,0293	4,45	3,72	3,10	c30	Renting of M&Eq and Other Business Activities				
	-0,0201	-0,0557	0,0676	4,56	3,68	7,47	c33	Health and Social Work				
	-0,0423	-0,0003	0,0200	4,30	3,80	2,17	c34	Other Community, Social and Personal Services				
				19,82	20,88	34,58		sub total				
						Sectors	with	l _{0j} > 0				
	∆ 10j	∆ v*j	∆m*j	%GO11	%VA11	%M11		Sector				
B'	0,0640	-0,0134	-0,0242	8,86	8,52	6,32	c31	Public Admin and Defence; Compulsory Social Security				
				8,86	8,52	6,32		sub total				
	0,0281	-0,0509	0,0375	0,43	0,56	0,34	c2	Mining and Quarrying				
	0,0197	-0,0308	0,0233	0,74	0,72	1,02	c16	Manufacturing, Nec; Recycling				
	0,0957	-0,0689	0,0172	2,51	2,91	1,39	c17	Electricity, Gas and Water Supply				
D'	0,0359	-0,0364	0,0162	7,47	7,74	5,13	c20	Wholesale Trade and Commission Trade, Except of Motor Vehicles				
	0,0084	-0,0189	0,0127	2,02	2,37	0,62	c27	Post and Telecommunications				
	0,0151	-0,0272	0,0190	4,70	4,13	1,55	c28	Financial Intermediation				
				17,87	18,43	10,05		sub total				

	Source:	WIOD	and	authors'	calcul	lations
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Table	Table 9: Changes in I _{0j} , v* _j and m* _j - SPAIN, 1995-2011									
					Sec	tors wi	th I _{0j}	< 0		
	Δ I0j	∆ v*j	∆m*j	%GO11	%VA11	%M11		Sector		
	-0,3389	0,0304	0,0466	0,23	0,33	0,38	c5	Leather, Leather and Footw ear		
	-0,1014	0,0104	0,0171	1,61	1,59	1,96	c7	Pulp, Paper, Paper, Printing and Publishing		
В	-0,1402	0,0260	0,0206	6,11	6,93	2,55	c22	Hotels and Restaurants		
	-0,2270	0,1181	0,0024	6,03	8,20	0,75	c29	Real Estate Activities		
				13,99	17,05	5,64		sub total		
<u> </u>	-0,073	0,0036	0,0227	3,47	4,21	1,56	c20	Wholesale Trade and Commission Trade, Except of Motor Ve		
L C				3,47	4,21	1,56		sub total		
	-0,0442	-0,0155	0,0244	5,12	3,01	5,15	c3	Food, Beverages and Tobacco		
	-0,1954	-0,0030	0,0596	0,61	1,12	1,29	c4	Textiles and Textile Products		
	-0,0167	-0,0257	0,0295	0,39	0,44	0,40	c6	Wood and Products of Wood and Cork		
	-0,2218	-0,1369	0,2503	2,37	0,43	16,44	c8	Coke, Refined Petroleum and Nuclear Fuel		
	-0,0647	-0,0367	0,0556	2,73	1,83	5,47	c9	Chemicals and Chemical Products		
	-0,0169	-0,0305	0,0352	1,35	1,18	2,09	c13	Machinery, Nec		
	-0,0426	-0,0546	0,0671	1,25	1,33	3,17	c14	Electrical and Optical Equipment		
	-0,1002	-0,0295	0,0586	2,88	2,04	8,89	c15	Transport Equipment		
D	-0,0043	-0,0315	0,0325	0,93	0,85	1,24	c16	Manufacturing, Nec; Recycling		
	-0,0235	-0,0068	0,0155	1,98	1,75	3,16	c19	Sale, Maintenance and Repair of Motor Vehicles and Motorc		
	-0,1001	-0,0176	0,0451	0,16	0,14	0,16	c24	Water Transport		
	-0,1779	-0,0259	0,0749	0,59	0,34	0,82	c25	Air Transport		
	-0,0333	-0,0053	0,0178	7,24	5,67	3,92	c30	Renting of M&Eq and Other Business Activities		
	-0,0126	-0,0020	0,0107	2,86	4,95	0,43	c32	Education		
	-0,0355	-0,0032	0,0205	4,67	5,01	3,55	c33	Health and Social Work		
	0,0302	-0,0337	0,0223	3,94	4,35	2,08	c34	Other Community, Social and Personal Services		
				39,07	34,44	58,26		sub total		
					Sec	tors wi	th I _{oj}	> 0		
	Δ I0j	∆ v*j	∆m*j	%GO11	%VA11	%M11		Sector		
	0,0382	-0,0448	0,0303	2,25	5,45	1,42	c1	Agriculture, Hunting, Forestry and Fishing		
	0,0719	-0,0722	0,0510	0,25	0,42	0,26	c2	Mining and Quarrying		
	0,0106	-0,0318	0,0288	0,99	0,77	1,83	c10	Rubber and Plastics		
	0,1582	-0,0734	0,0322	1,30	1,43	1,20	c11	Other Non-Metallic Mineral		
	0,0486	-0,0640	0,0510	3,84	2,84	7,29	c12	Basic Metals and Fabricated Metal		
	0,0850	-0,1088	0,0812	3,71	2,58	6,29	c17	Electricity, Gas and Water Supply		
ים	0,0225	-0,0068	0,0017	11,79	7,50	5,48	c18	Construction		
	0,0602	-0,0405	0,0128	3,78	5,34	1,04	c21	Retail Trade, Except of Motor Vehicles and Motorcycles; Rep		
	0,0710	-0,0684	0,0435	2,71	2,79	2,43	c23	Inland Transport		
	0,0455	-0,0365	0,0247	2,43	1,52	1,79	c26	Other Supporting and Auxiliary Transport Activities; Activitie		
	0,2947	-0,1755	0,0493	2,16	2,36	1,69	c27	Post and Telecommunications		
	0,0461	-0,0442	0,0251	3,72	4,85	1,82	c28	Financial Intermediation		
	0,0129	-0,0279	0,0215	4,56	6,45	2,01	c31	Public Admin and Defence; Compulsory Social Security		
				38,92	37,85	32,53		sub total		

Source. WIOD and additions calculations

Table TV. Granges III r_{0j} , v_j and III j - GERMANT, 1995-2011											
	Δ I0j	∆ v*j	∆m*j	%GO11	%VA11	%M11		Sector			
	-0,2639	0,0638	0,0257	1,48	1,41	0,81	c22	Hotels and Restaurants			
в	-0,2703	0,0377	0,0302	2,21	1,02	1,45	c26	Other Supporting and Auxiliary Transport A			
	-0,0982	0,0484	0,0068	7,13	11,21	0,67	c29	Real Estate Activities			
				10,82	13,64	2,93		sub total			
с	-0,197	0,0096	0,0710	0,06	0,07	0,13	c5	Leather, Leather and Footw ear			
	-0,066	0,0090	0,0236	1,14	1,51	0,55	c19	Sale, Maintenance and Repair of Motor Veh			
	-0,080	0,0153	0,0275	5,31	6,27	2,94	c33	Health and Social Work			
				6,51	7,85	3,61		sub total			
	-0,012	-0,050	0,054	1,29	1,27	1,48	c1	Agriculture, Hunting, Forestry and Fishing			
	-0,090	-0,025	0,056	0,20	0,59	0,20	c2	Mining and Quarrying			
	-0,141	-0,033	0,070	2,95	2,07	4,41	c3	Food, Beverages and Tobacco			
	-0,126	-0,010	0,060	0,43	0,58	0,96	c4	Textiles and Textile Products			
	-0,070	-0,052	0,073	0,44	0,50	0,69	c6	Wood and Products of Wood and Cork			
	-0,064	-0,029	0,050	1,61	1,75	2,20	c7	Pulp, Paper, Paper, Printing and Publishing			
	-0,129	-0,031	0,079	3,24	2,38	6,38	c9	Chemicals and Chemical Products			
	-0,139	-0,032	0,086	1,36	1,12	2,82	c10	Rubber and Plastics			
	-0,039	-0,047	0,060	0,80	1,07	0,96	c11	Other Non-Metallic Mineral			
D	-0,122	-0,063	0,108	5,56	2,99	12,75	c12	Basic Metals and Fabricated Metal			
	-0,093	-0,045	0,077	5,01	3,29	8,01	c13	Machinery, Nec			
	-0,150	-0,031	0,090	4,38	3,07	8,93	c14	Electrical and Optical Equipment			
	-0,017	-0,080	0,086	7,77	2,92	16,06	c15	Transport Equipment			
	-0,039	-0,052	0,065	0,82	0,70	1,24	c16	Manufacturing, Nec; Recycling			
	-0,062	-0,036	0,058	4,89	6,76	5,27	c18	Construction			
	-0,016	-0,022	0,028	3,81	5,26	1,73	c20	Wholesale Trade and Commission Trade, E			
	-0,001	-0,041	0,041	0,64	0,14	0,58	c24	Water Transport			
	-0,088	-0,064	0,090	0,61	0,29	1,13	c25	Air Transport			
				45,82	36,75	75,79		sub total			
				Se	ctors w	ith I _{0j} >	0				
	Δ l0j	∆ v*j	∆m*j	%GO11	%VA11	%M11		Sector			
ים	0,2190	-0,0138	-0,0466	1,67	0,12	2,59	c8	Coke, Refined Petroleum and Nuclear Fuel			
Б				1,67	0,12	2,59		sub total			
	0,0022	-0,0404	0,0396	2,74	2,16	2,11	c17	Electricity, Gas and Water Supply			
	0,0432	-0,0379	0,0197	3,18	4,13	1,20	c21	Retail Trade, Except of Motor Vehicles and			
	0,0686	-0,0594	0,0349	1,56	1,79	1,04	c23	Inland Transport			
	0,3766	-0,2310	0,0515	1,70	2,42	1,27	c27	Post and Telecommunications			
	0,2157	-0,0937	0,0205	5,01	4,61	2,54	c28	Financial Intermediation			
U	0,0182	-0,0211	0,0123	10,04	10,59	2,55	c30	Renting of M&Eq and Other Business Activi			
	0,0220	-0,0478	0,0363	4,24	6,74	2,44	c31	Public Admin and Defence; Compulsory So			
	0,0710	-0,0533	0,0089	2,83	4,33	0,58	c32	Education			
	0,0184	-0,0273	0,0193	3,72	4,58	1,35	c34	Other Community, Social and Personal Serv			
				35,02	41,34	15,07		sub total			

Table 10: 0	Changes in I _{0i} , v	/* _i and m*	- GERMANY,	1995-2011
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Sectors with $I_{0i} < 0$											
	∆ 10j	∆ v*j	∆m*j	%GO11	%VA11	%M11		Sector			
	-0,0318	0,0278	-0,0107	0,81	1,14	0,77	c16	Manufacturing, Nec; Recycling			
Α	-0,0315	0,0126	-0,0013	6,42	5,43	5,06	c18	Construction			
	,	,	,	6,42	5,43	5,06		sub total			
	-0,089	0,0178	0,0172	1,54	1,85	0,91	c22	Hotels and Restaurants			
_	-0,096	0,0200	0,0218	1,49	1,33	1,33	c26	Other Supporting and Auxiliary Transport Activities; Activities of Tra			
в	-0,028	0,0113	0,0054	6,10	7,49	2,06	c33	Health and Social Work			
				9,14	10,68	4,30		sub total			
	-0,056	0,0003	0,0380	1,88	2,69	0,96	c2	Mining and Quarrying			
_	-0,146	0,0039	0,0403	5,67	3,23	6,65	c3	Food, Beverages and Tobacco			
C	-0,048	0,0084	0,0148	10,30	10,38	6,30	c30	Renting of M&Eq and Other Business Activities			
				17,85	16,29	13,91		sub total			
	-0,003	-0,054	0,055	2,21	3,48	2,07	c1	Agriculture, Hunting, Forestry and Fishing			
	-0,005	-0,020	0,022	0,03	0,06	0,04	c5	Leather, Leather and Footw ear			
	-0,007	-0,002	0,005	1,63	2,17	1,84	c7	Pulp, Paper, Paper, Printing and Publishing			
	-0,437	-0,226	0,472	3,89	0,30	15,88	c8	Coke, Refined Petroleum and Nuclear Fuel			
	-0,045	-0,079	0,101	5,26	2,95	11,35	c9	Chemicals and Chemical Products			
	-0,012	-0,007	0,012	1,49	0,82	3,06	c15	Transport Equipment			
	-0,168	-0,023	0,083	3,39	1,80	4,60	c17	Electricity, Gas and Water Supply			
	-0,036	-0,002	0,021	6,36	7,08	4,31	c20	Wholesale Trade and Commission Trade, Except of Motor Vehicles			
	0,001	-0,062	0,061	1,75	2,48	1,46	c23	Inland Transport			
	-0,052	-0,027	0,049	6,79	6,31	4,00	c28	Financial Intermediation			
	-0,016	-0,005	0,011	3,20	2,83	2,00	c34	Other Community, Social and Personal Services			
				36,00	36,00 30,28 50,61			sub total			
	1				5	Sectors	with	l _{0j} > 0			
	Δ I0j	∆ v*j	∆m*j	%GO11	%VA11	%M11		Sector			
	0,044719	-0,00385	-0,0176	0,32	0,42	0,54	c4	Textiles and Textile Products			
В'	0,027518	0,006182	-0,01834	0,23	0,25	0,29	c6	Wood and Products of Wood and Cork			
				0,54	0,67	0,82		sub total			
	0,022821	-0,03756	0,026641	0,62	0,57	1,13	c10	Rubber and Plastics			
	7,99E-05	-0,02597	0,025937	0,54	0,67	0,65	c11	Other Non-Metallic Mineral			
	0,045321	-0,0484	0,026086	2,46	2,05	4,70	c12	Basic Metals and Fabricated Metal			
	0,000778	-0,00643	0,006068	2,03	1,32	3,12	c13	Machinery, Nec			
	0,033436	-0,04034	0,026293	1,79	1,49	3,40	c14	Electrical and Optical Equipment			
	0,016106	-0,0094	0,001339	1,43	1,61	1,15	c19	Sale, Maintenance and Repair of Motor Vehicles and Motorcycles; F			
D'	0,060577	-0,05077	0,022584	2,48	4,28	1,06	c21	Retail Trade, Except of Motor Vehicles and Motorcycles; Repa			
_	0,003903	-0,05189	0,049855	0,43	0,42	0,94	c24	Water Transport			
	0,155429	-0,19674	0,122721	0,69	0,67	1,79	c25	Air Transport			
	0,057157	-0,05668	0,030866	1,99	2,00	1,43	c27	Post and Telecommunications			
	0,143881	-0,08511	0,022746	5,67	7,51	1,70	c29	Real Estate Activities			
	0,056813	-0,05422	0,02793	6,03	7,94	2,87	c31	Public Admin and Defence; Compulsory Social Security			
	0,025714	-0,03326	0,016766	2,88	4,62	0,60	c32	Education			
				29,04	35,14	24,53		sub total			

Table 11: Changes in Ini. V	and m*i - NETHERLANDS	. 1995-2011
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Source:	WIOD	and	authors'	calcu	lations

Table 12: Unanges in I_{0j} , V_j and M_j - FINLAND, 1995-2011										
Sectors with $I_{0j} < 0$										
	∆ 10j	∆ v*j	∆ m*j	%GO11	%VA11	%M11		Sector		
	-0,180	0,0177	0,0516	0,04	0,11	0,06	c5	Leather, Leather and Footw ear		
c	-0,051	0,0009	0,0154	1,63	1,47	0,85	c22	Hotels and Restaurants		
Ŭ	-0,045	0,0051	0,0134	7,41	4,95	5,02	c30	Renting of M&Eq and Other Business Activities		
				9,08	6,53	5,93		sub total		
	-0,019	-0,039	0,046	2,35	4,49	1,55	c1	Agriculture, Hunting, Forestry and Fishing		
	-0,048	-0,032	0,044	3,03	2,57	2,66	c3	Food, Beverages and Tobacco		
	-0,258	-0,138	0,283	2,71	0,29	13,47	c8	Coke, Refined Petroleum and Nuclear Fuel		
п	-0,077	-0,024	0,052	2,40	1,65	3,89	c9	Chemicals and Chemical Products		
	-0,024	-0,039	0,048	0,81	0,76	1,30	c10	Rubber and Plastics		
	0,112	-0,067	0,031	0,81	0,69	0,82	c11	Other Non-Metallic Mineral		
	-0,163	-0,057	0,110	4,74	2,92	11,59	c12	Basic Metals and Fabricated Metal		
				16,84	13,35	35,27		sub total		
					Sectors	s with I _c	_{oj} > 0			
	∆ 10j	∆ v*j	∆m*j	%GO11	%VA11	%M11		Sector		
B	0,117321	-0,01865	-0,02603	0,67	0,62	0,81	c24	Water Transport		
В				0,67	0,62	0,81		sub total		
	0,100829	-0,06373	0,03111	0,58	0,36	0,57	c2	Mining and Quarrying		
	0,020337	-0,02665	0,018382	0,24	0,56	0,38	c4	Textiles and Textile Products		
	0,16514	-0,07049	0,032368	1,55	1,39	1,02	c6	Wood and Products of Wood and Cork		
	0,045017	-0,04511	0,033499	4,71	6,66	4,01	c7	Pulp, Paper, Paper , Printing and Publishing		
	0,176989	-0,06178	0,00636	4,73	2,92	6,23	c13	Machinery, Nec		
	0,086	-0,07453	0,045723	5,14	3,22	11,32	c14	Electrical and Optical Equipment		
	0,001952	-0,03249	0,031808	0,85	1,04	1,39	c15	Transport Equipment		
	0,147827	-0,09409	0,047219	0,54	0,62	0,65	c16	Manufacturing, Nec; Recycling		
	0,074173	-0,0881	0,053316	2,25	2,72	2,91	c17	Electricity, Gas and Water Supply		
	0,090938	-0,03565	0,008985	7,99	4,85	6,45	c18	Construction		
	0,125653	-0,06955	0,021421	1,68	1,44	1,14	c19	Sale, Maintenance and Repair of Motor Vehicles an		
ים	0,071575	-0,06537	0,040123	4,59	4,59	3,63	c20	Wholesale Trade and Commission Trade, Except of		
	0,153139	-0,09657	0,033665	3,09	3,52	1,81	c21	Retail Trade, Except of Motor Vehicles and Motorcy		
	0,182569	-0,13679	0,053378	2,48	3,42	1,66	c23	Inland Transport		
	0,17834	-0,13012	0,071712	0,71	0,60	0,76	c25	Air Transport		
	0,308088	-0,10971	0,011599	2,92	2,46	1,89	c26	Other Supporting and Auxiliary Transport Activities		
	0,197652	-0,10217	0,030203	1,75	1,98	1,09	c27	Post and Telecommunications		
	0,175931	-0,09852	0,016265	2,35	4,41	1,31	c28	Financial Intermediation		
	-0,02712	-0,00143	0,013447	8,11	9,72	1,83	c29	Real Estate Activities		
	0,084804	-0,06375	0,029096	4,28	5,42	2,85	c31	Public Admin and Defence; Compulsory Social Sec		
	0,017171	-0,01265	0,003675	3,19	5,25	0,84	c32	Education		
	0,099603	-0,07021	0,01722	6,32	8,53	2,58	c33	Health and Social Work		
	0,071361	-0,05292	0,023845	3,30	3,77	1,65	c34	Other Community, Social and Personal Services		
				73,36	79,45	57,99		sub total		