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Market shares in the post-Uruguay round era: A closer look using shift-share analysis

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World Trade Organization

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Economic Research and Statistics Division

MARKET SHARES IN THE POST-URUGUAY ROUND ERA:

A CLOSER LOOK USING SHIFT-SHARE ANALYSIS

Ninez PIEZAS-JERBI and Coleman NEE

WTO

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MARKET SHARES IN THE POST-URUGUAY ROUND ERA:

A CLOSER LOOK USING SHIFT-SHARE ANALYSIS

A STAFF WORKING PAPER

BY

NINEZ PIEZAS-JERBI and COLEMAN NEE

DECEMBER 2009

ABSTRACT

Shift-Share Analysis aims to break down total change of economic indicators into various components to identify underlying sources of growth or decline. A key feature is that the unit of analysis (e.g. a city, a region or a country) exists within a broader frame of reference that strongly influences it (e.g. a national productive system or the world economy). It is based on the principle that total change can be disaggregated into contributing factors and any change that can not be accounted for by these factors can be interpreted as the "local contribution" to that total change.

This method has been subject to many refinements. Because the objectives of this paper are both didactic and analytic, traditional Shift-Share Analysis is applied to international trade. It uses the "constant market share" assumption by decomposing the growth of exports into four separate components: a global component (GLOBO) indicating changes due to overall growth of world trade, a geographical component (GEO) indicating changes due to the country's distribution of trading partners, a product composition component (COMPO) indicating growth due to the mix of products exported, and a residual term (the "local" contribution) indicating changes in competitiveness, or performance (PERFO). The first 3 components, GLOBO, COMPO and GEO all relate to the "expected change in trade" should trade change proportionally. The fourth and residual component, PERFO, refers to that part of the change in trade that "shifts away" from expected proportional changes, hence the term "Shift-Share Analysis".

This paper will analyse a change or "shift" in shares in trade (particularly exports) of different economies. By focusing on selected time periods and using the PERFO indicator, the method will show what industries shift away from the expected change in trade, which economies have experienced such shifts in their industries, and to which regions.

Keywords: Shift-Share Analysis, International Trade

JEL: C49, F13, F14

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ABBREVIATIONS AND SYMBOLS

AFR AFRICA

AG AGRICULTURE PRODUCTS

ASI ASIA

CEPII CENTRE ETUDES PROSPECTIVES INFORMATIONS INTERNATIONALES

CIS COMMONWEALTH OF INDEPENDENT STATES

COMPO SECTORAL OR INDUSTRY EFFECT CSC SOUTH AND CENTRAL AMERICA

EUR EUROPE

EU27 EUROPEAN UNION (27)

FDI FOREIGN DIRECT INVESTMENT
GEO GEOGRAPHICAL/PARTNER EFFECT

GLOBO GLOBAL EFFECT

IMF INTERNATIONAL MONETARY FUND

IMTS INTERNATIONAL MERCHANDISE TRADE STATISTICS

LDCS LEAST DEVELOPED COUNTRIES

MA MANUFACTURES MEA MIDDLE EAST

MI FUELS AND MINING PRODUCTS

NA NORTH AMERICA

NAFTA NORTH AMERICAN FREE TRADE AGREEMENT PERFO PERFORMANCE/COMPETITIVENESS EFFECT

SSA SHIFT-SHARE ANALYSIS

WTO WORLD TRADE ORGANIZATION

... NOT AVAILABLE

INTRODUCTORY NOTE

This document examines the extent to which Shift-Share Analysis can be applied to international trade. It focuses in particular on determining whether this method of analysis can provide a useful summary measure of export competitiveness for countries, regions and economic groupings over time, and whether it correctly identifies countries which the method shows to be export competitive.

Shift-Share Analysis has been used by international trade analysts for many years, though limited by a number of well-documented problems with the methodology. Certain refinements, however, can give the technique some renewed relevance. Even in its traditional form, Shift-Share Analysis continues to be an accepted analytical tool for researchers and policy makers in that it can provide clear answers to a number of important questions in international trade. Also, since it is essentially an accounting technique, Shift-Share Analysis does not require a knowledge of sophisticated statistical methods and is relatively transparent compared to more sophisticated tools.

This paper starts with a general overview and contains six major sections. The first section provides an overview of academic and professional literature of relevance to Shift-Share Analysis (SSA) – its use, the types, and its application. The second section shows how the method can be applied to a hypothetical numerical example using 6 countries and 3 products. The third section discusses the application of this method to selected developing and developed economies, least-developed countries and countries in transition. The fourth section focuses on the results, i.e. what Shift-Share Analysis can tell us about the selected economies' export competitiveness over the Post-Uruguay period. Annex I further describes the methodology and other data issues encountered during the analysis. Finally, Annex II provides supplementary tables resulting from the study which further complete the tables provided in the earlier sections.

I, AN OVERVIEW OF THE SHIFT-SHARE METHOD

This section gives readers an insight of documentation that has been published on shift-share analysis – its use, how it is calculated, its application to international trade, what other fields it has been previously applied to, how to further refine it.

A. WHAT IT IS

Shift-Share Analysis (SSA) is a statistical technique in which discrete changes in a variable are broken down into various components to identify underlying sources of growth or decline. This type of analysis has been widely used to examine changes in employment by geographic area, but it can also be applied to questions of export competitiveness in international trade. A key feature of SSA is that the unit of analysis (e.g. a city, a region or a country) exists within a broader frame of reference that strongly influences it (e.g. the national productive system or the world economy). For example, changes in employment in a particular city can be attributed at least in part to employment growth at the national level, or to the changing mix of industries present in the city. Similarly, the growth of a country's exports can be partly explained by the overall growth of world trade, by the country's particular mix of trading partners, or by the products that it exports predominantly. Once all of these obvious and easily measurable sources of trade growth have been accounted for, any remaining variation in the data is captured by a residual term. This residual includes all factors that might otherwise influence the growth of exports, but it is usually interpreted as an indicator of competitiveness.

B. RELATED LITERATURE ON SHIFT-SHARE ANALYSIS

Classical SSA (as proposed by Fuchs, 1962 and Ashby, 1964) breaks down changes into three major components: reference area growth, industrial mix, and regional share. Initially, shift-share techniques were mainly used to analyse employment growth. The classical SSA approach, however, is subject to a number of limitations. In particular, SSA has been criticized for its lack of a theoretical base; see Bartels et al. (1982). Other criticism also refer to its dependence on the degree of disaggregation of industries as well as the underlying hypothesis of interdependence of the industrial mix and competitive effects.

In response to these limitations, several attempts have been made to improve the classical SSA equation. Esteban-Marquillas (1972) tackles the problem of interdependence between industrial mix and competitive effect by introducing two new concepts: homothetic employment and the allocation effect. The former is incorporated in the competitive effect and rids the latter of the "regional

structural influence" and thus ends its interdependence with the industry mix. The latter shows if a region is specialising in the sectors in which it has competitive advantages. Later, Arcelus (1984) uses the framework of Esteban-Marquillas and extends the concept of homotheticity to all components of SSA.

The application range of SSA has gradually extended to other areas such as policy prescriptions or forecasts. Moore and Rhodes (1973) study the effectiveness of British regional policies offering incentives to firms to locate to chronically underemployed areas of the country. They apply SSA to examine how the value of the competitive effect changes between the period before and the period after the policy implementation.

SSA is predominantly a tool for understanding past events. But Brown (1969) provides first empirical studies on the strength of Shift-Share projections. Paraskevopoulos (1971), Floyd and Sirmans (1973), and James and Hughes (1975) propose further significant extensions to Brown's investigations. Moreover, they develop SSA as an applicable tool for forecasts.

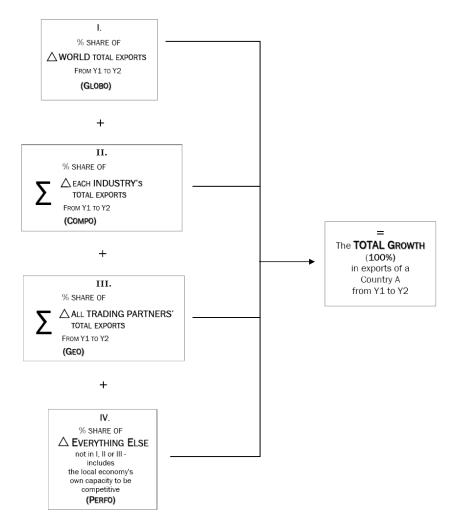
Since the 1990s, the method has also been applied to examine growth in a trade-related context. Markusen, Noponen, and Driessen (1991) use SSA to estimate the shares of employment growth for export and import penetration in nine U.S. regions. Hayward and Erickson (1995) extend the model and apply it to examine the impact of NAFTA trade on US states. Gazel and Schwer (1998) develop a method to study international exports' growth of the US states by focusing on the demand conditions. The 1998 CEPII report on competitiveness displays very close links to this paper. It decomposes the export growth of a given country into a global demand effect, a sectoral composition effect, a geographical composition effect, and a competitiveness effect which is captured by the residual term. A detailed disaggregate view of world trade competitiveness with the same components is provided by Cheptea, Gaulier, Zignago (2005). In recent years, SSA has increasingly been applied to the services sector, whereas several studies (Sirakaya et al. (1995), Fuchs et al. (2000), Sirakaya et al. (2002) and Toh et al. (2004) amongst others) have focused more specifically on the tourism industry.

C. TRADITIONAL SHIFT-SHARE APPLIED TO INTERNATIONAL TRADE

All statistical models rely on at least a few minimal assumptions about the nature of the underlying data generating processes, and SSA is no different. The key assumption when applying this method to international trade is that, if a country's export competitiveness does not change and all other factors influencing its exports are held constant, this country's share in world trade should remain constant over time as well. Alternatively, any change in the country's exports that can not be accounted for by major explanatory factors such as global trade growth, the mix of trading partners or the product composition of traded goods can be interpreted as a change in competitiveness. It is this constant market share assumption that justifies our decomposing the growth of exports into the following four separate components: a global component (GLOBO) indicating changes due to overall growth of world trade, a geographical component (GEO) indicating changes due to the country's distribution of trading partners, a product composition component (COMPO) indicating growth due to the mix of products exported, and a residual term indicating changes in competitiveness, or performance (PERFO). The first 3 components, GLOBO, COMPO and GEO all relate to what the change in trade would be if trade changes proportionally. The fourth and residual component, PERFO, refers to the trade that "shifts away" from expected proportional changes, hence the term "shift-share analysis".

Consequently, the exports growth of a given country can be written as the sum of four terms.

SHIFT-SHARE ANALYSIS IN INTERNATIONAL TRADE



$$\Delta GLOBAL + \Delta SECTORAL + \Delta GEOGRAPHICAL + \Delta RESIDUAL = \Delta TOTAL EXPORTS$$

$$(_\%) + (_\%) + (_\%) + (_\%) = 100\%$$

1. Definitions and Assumptions:

Before proceeding, we need to introduce some notation conventions and establish a number of definitions¹. In order to keep the notation relatively uncluttered we use the following conventions.

Let

 $V_{i.}$ = the value of country A's exports of product i in period 1,

¹ Notation taken from Leamer and Stern (1970), Quantitative International Economics, p. 172.

V_i = the value of country A's exports of product i in period 2,

 $V_{,j}$ = the value of country A's exports to country j in period 1, $V_{,j}$ = the value of country A's exports to country j in period 2, $V_{,ij}$ = the value of country A's exports to country j in period 1,

 V'_{ij} = the value of country A's exports of product i to country j in period 2,

r = percentage change in world exports between periods 1 and 2,

 r_i = percentage change in world exports of product i between periods 1 and 2, and

 r_{ii} = percentage change in world exports of product i to country j between periods 1 and 2.

Note: All of the above definitions apply to a single reporting² country even though many countries will typically be considered in any shift-share table. Since in practice we will always be focusing on one exporting country or region at a time, an additional index would only serve to clutter the formulas.

The above definitions imply that

$$\begin{split} & \Sigma_j \ V_{ij} = V_{i \centerdot} \\ & \text{and} \\ & \Sigma_i \ V_{ij} = V_{.j} \end{split}$$

in period 1, with similarly results holding in period 2 with the addition of a prime symbol. In words, we can obtain country A's total exports of good i by summing V_{ij} over all trading partners, which are indexed by j. Similarly, by summing V_{ii} over all products using the i index produces total exports of country A to country j.

Country A's total merchandise exports can be obtained by aggregating over all products i and all partner countries j, as follows:

$$\Sigma_i \Sigma_j \ V_{ij} = \Sigma_j \ V_{.j} = \Sigma_i \ V_{i.} = V_{..}$$

The above expression says that total merchandise exports can be obtained in one of three ways. First, by privileging a product composition approach, and having already calculated total exports of each product i by country A, we can simply add all of these figures together to get total merchandise exports (i.e. $\Sigma_i V_i$). Second, focusing on geographical aspects, after we have already calculated total exports of country A to each country j for all of A's trading partners, we can then aggregate these figures over all partners (i.e. Σ_i V_i). Finally, we can also aggregate the V_{ij} values directly over all products i and all partners j using double summation $(\Sigma_i \Sigma_i V_{ii})$. All three approaches should produce the same figure for total merchandise exports, but one or the other may be more convenient if all products or all partners have already been calculated. Deriving total exports in more than one way also provides a useful check on the accuracy of calculations.

2. **DECOMPOSING THE TOTAL CHANGE**

If all countries were similar, each would grow exactly at the same global rate. Thus, the difference between countries can be measured by the gap with the global rate. In particular, if the change in country A's exports attributable to global trade growth is denoted rV, i.e. country A's total merchandise exports in period 1 multiplied by the growth rate of world trade, then we have the following identity:

² A reporting country is meant to refer to a country whose exports data was officially submitted by its own national statistical office. This is relevant when referring to mirror data where countries' exports data are estimated using inverted trade flows, i.e. using the country's trading partners' imports to estimate its exports data, which may either be unavailable or incomparable.

$$V'_{..} - V_{..} \equiv rV + (V'_{..} - V_{..} - rV_{..})$$

This equation has an interesting interpretation. It says that the change in country A's exports is equal to the change due to world trade growth (GLOBO) plus a residual represented by the term in parenthesis. If country A experienced no change in either its product composition, partner mix or export competitiveness between period 1 and period 2, then the constant share assumption implies that this residual would be equal to zero. The likelihood of such an event in the real world is extremely small because these variables are changing frequently –and sometimes quite substantially– which can result in either positive or negative residuals depending on whether the shifts are favourable or unfavourable for exports.

In this identity, exports are not differentiated by product. If we are indeed interested in a particular class of goods, then the following is an equivalent statement for product i only:

$$V'_{i} - V_{i} = r_{i}V_{i} + (V'_{i} - V_{i} - r_{i}V_{i})$$

This expression is valid for each product and can be aggregated across the product range, then combined with the previous equation as follows:

$$V'_{..} - V_{..} = \Sigma_i (V'_{i.} - V_{i.}) = \Sigma_i r_i V_{i.} + \Sigma_i (V'_{i.} - V_{i.} - r_i V_{i.})$$

Rearranging the first term, we obtain ³

This indicates that changes in total exports from a given country can be decomposed in changes due to global trade growth (1), the fact that world trade in the products that it exports is growing faster (or more slowly) than overall world trade (2), plus a residual (3). The second term above is the COMPO effect mentioned earlier.

Further distinguishing country A's exports by trading partner results in the following decomposition:

$$V'_{ij} - V_{ij} = r_{ij}V_{ij} + (V'_{ij} - V_{ij} - r_{ij}V_{ij})$$

and aggregating over all products and partners results in our final decomposition of export growth.

$$\begin{array}{lll} V'_{\cdot \cdot \cdot} - V_{\cdot \cdot \cdot} &= \Sigma_{i} \Sigma_{j} \, r_{ij} V_{ij} + \Sigma_{i} \Sigma_{j} \, (V'_{ij} - V_{ij} - r_{ij} V_{ij}) \\ &= r V_{\cdot \cdot \cdot} + \, \Sigma_{i} (r_{i} - r) V_{i \cdot \cdot} + \, \Sigma_{i} \Sigma_{j} (r_{ij} - r_{i}) V_{ij} \, + \, \Sigma_{i} \Sigma_{j} (V'_{ij} - v_{ij} - r_{ij} V_{ij}) \\ &\qquad \qquad (1) \qquad (2) \qquad (3) \qquad (4) \end{array}$$

As before, the first two terms on the right hand side of the equation represent the change in country A's exports due to the growth of world exports (1) and due to the mix of products exported (2). The third term represents now the market distribution of the country's exports, i.e. a "geographic" or "partner" effect (3). This is the GEO component discussed previously. The fourth and last term is a residual indicating "competitiveness" or "performance" (4). This is the PERFO component.

Accordingly, it is helpful to normalize by dividing by V., so that the GLOBO, GEO, COMPO and PERFO components add up to the percentage growth of exports. Thus we obtain the decomposition in four terms:

³ Note that $rV_{..} + \Sigma_i(r_i - r)V_{i,=} \Sigma_i(r_iV_{i,-})$

EXPORTS' GROWTH = GLOBO (1) + COMPO(2) + GEO(3) + PERFO (4)

The final output is a table showing the growth of exports for all available countries broken down by the change due to increasing world trade, the commodity composition of exports, the market distribution of exports and a competitiveness residual. Each of these components can be either positive or negative, but they should all add up to the overall change in exports, whether these are expressed in percentage or other terms.

The residual (4) in this final decomposition must be interpreted with care. In contrast to the first three terms on the right hand side, the PERFO effect is not observed and is not even measurable. Like the Solow residual in economic growth accounting, it can be seen as the "measure of our ignorance" since it captures the cumulative effect of all factors other than GLOBO, COMBO and GEO that could conceivably influence a country's exports. It is possible to interpret it as an indicator of competitiveness, but only in a very broad sense. For example, a natural disaster such as a hurricane could reduce a country's ability to export independently of trends in world trade or the mix of export products and partners. It is possible to view such an event as bringing about a change in the country's competitive position relative to other countries, but this stretches the common understanding of the word to the limit since competitiveness usually implies something akin to productivity. Macroeconomic policy can also affect the "performance" indicator in a counter-intuitive way: in a successful economy, if the economic policy is geared at increasing population welfare by distributing internally the results of growth, the welfare enhancing policy will boost internal demand. As a result, net exports will decrease and the PERFO will –ceteris paribus– turn negative. In fact,

A POSITIVE **PERFO** COMPONENT MERELY REFLECTS THE ABILITY OF A COUNTRY TO INCREASE ITS SHARE IN WORLD EXPORTS BEYOND WHAT CAN BE EXPLAINED BY THE GLOBO, GEO AND COMPO EFFECTS, WHILE A NEGATIVE RESIDUAL REFLECTS AN OPPOSITE SITUATION, WHATEVER THE REASONS.

II. AN EXAMPLE: 6 COUNTRIES, 3 PRODUCTS

This section shows the accounting side of the method, i.e. how each of the 4 effects, GLOBO, COMPO, GEO and PERFO are mechanically calculated, using a sample of 6 countries and 3 product groups

A. COVERAGE AND CALCULATIONS

Considering a sample of 6 countries namely USA, EU27, Japan, Canada, China and the Russian Federation, and 3 products (namely agriculture (AG), fuels and mining (MI) and manufactures (MA)), from time period 2002(Y) to 2007(Y'). Results are analysed from the USA perspective. Let's consider the following total exports data of the USA with the selected partner countries, in 2002 (V) and 2007 (V'):

Table 1a. US' total exports to selected destinations, 2002 and 2007 (mil USD)

2002 (V)										
Destination (j) Total EU27 RU JP CN USA C.										
Product (i)										
TOTAL	369934	140744	2384	49671	21822	0	155313			
AG	37062	9761	625	11744	2899	0	12033			
MI	13320	4245	16	1403	1282	0	6374			
MA	319552	126738	1743	36524	17641	0	136906			
		2	007 (V')							
Destination (j)	Total	EU27	RU	JP	CN	USA	CA			
Product (i)										
TOTAL	605543	234616	7311	60696	64586	0	238334			
AG	59113	13756	1394	12913	12088	0	18962			
MI	45362	15027	95	3831	8023	0	18386			
MA	501068	205833	5822	43952	44475	0	200986			

Table 1b. Total exports of 6 selected countries, 2002 and 2007 (mil USD, %)

	2002	2007	% change
EU (27)	353530	655293	85%
RU	65185	229487	252%
JP	237083	390453	65%
CN	219182	760011	247%
US	369934	605543	64%
CA	221818	360804	63%
Total above	1466731	3001591	105%

Table 1c. Total exports by selected destinations, 2002 and 2007 (Percentage, %)

Percentage change, % (r)										
Destination (j)	Total	EU27	RU	JP	CN	USA	CA			
Product (i)										
TOTAL(6)	105%	159%	330%	70%	171%	72%	62%			
AG	66%	71%	162%	27%	232%	45%	63%			
MI	240%	293%	287%	182%	492%	182%	182%			
MA	94%	141%	357%	73%	147%	63%	56%			

B. INTERPRETATION

Box 1. Calculation of classic shift-share, USA total exports, 2002-2007

```
BASED ON THE NOTATIONS IN SECTION I, THE FOLLOWING EFFECTS WERE CALCULATED:
         TOTAL CHANGE
                                      V" – V
                                      605543-369934
                                     235609
                            =
              (1) GLOBO
                                      r*V
                            =
                                      105/100 * 369934, OR
                                      (105/100 * 37062) + (105/100 * 13320) + (105/100 * 319552)
                            =
                                      388431
              (2) COMPO =
                                      \Sigma_i(r_i - r)V_{i.}
                                      (.66-105/100)*37062 + (2.40-105/100)*13320 + (.94-105/100)*319552
                                      -31623
              (3) GEO
                                      \Sigma_i \Sigma_i (r_{ij} - r_i) V_{ij}
                                      (.71-.66)*9761 + (1.62-.66)*625 + ... + (.63-.66)*12033 +
                                      (2.93-2.4)*4245 + (2.87-2.4)*16 + ... + (1.82-2.4)*6374 +
                                      (1.41-.94)*126738 + (3.57-.94)*1743 + ... + (.56-.94)*136906
                                      15743
              (4) PERFO
                                      \Sigma_i \Sigma_j (V'_{ij} - V_{ij} - r_{ij} V_{ij})
                                      (13756-9761)-(.71*9761)+....+(18962-12033)-(.63*12033)+
                                      (15027-4245)-(2.93*4245)+...+(18386-6374)-(1.82*6374)+
                            =
                                      (205833-126738)-(1.41*126738)+...+(200986-136906)-.56*136906)
                                      -136942
              235609
                                      388431 - 31623 + 15743 - 136942
    CONVERTING THESE CONTRIBUTIONS TO SHARE IN TOTAL CHANGE:
         TOTAL CHANGE =
                                      GLOBO + COMPO + GEO + PERFO
                   100% =
                                     164.9% - 13.4% + 6.7% - 58.1%
```

The total change in US exports was due to a potential increase of roughly 165% in the share of total exports supposedly due to the positive total exports behaviour of all 6 countries together. The COMPO gives a total of 13.4% representing share of exports "lost" due to global behaviour of the 3 individual sectors, agriculture, fuels and mining and manufacturing. A 6.7% share of exports increased due to the respective behaviour of the 5 individual partners, and 58% "lost" to due to losses of competitiveness. Hence, by isolating the global, product or sectoral and geographical effect, the results indicate that along with other unknown factors, the United States' domestic economy was not "competitive" enough (or export-oriented enough) to be able to increase its exports in line with other partners, and therefore, lost market shares.

Each of these total effects could also be disaggrated by product group. For instance, of the potential 165% increase in share in total exports expected to be attributed to the GLOBO effect, 142%, (i.e. 105/100*319552), would have been the potential increase in manufactures.

C. LIMITATIONS TO SHIFT-SHARE AND WHAT COULD BE EXPECTED FROM IT

While this method proves useful in that it isolates and approximates changes due to global, sectoral and geographical behaviour in the merchandise trade of an economy between 2 specified periods, this technique is limited in that it says nothing further than assuming that the remaining or "residual" change in trade is attributed to "everything else", assuming this to be none other than the "local" factor (or the PERFO effect), i.e. a measure of the economy's own ability to be competitive and export-oriented given its own domestic economic and policy conditions.

1. ECONOMIES' LEVELS OF DEVELOPMENT NOT REFLECTED

Because SSA is based on changes and does not reflect the economies' levels of development, it cannot be used to compare the relative positions of countries in terms of competitiveness, and only indicates changes in this indicator. For example, it would be logical to expect that developing countries as a group tend to show a positive PERFO indicator, because they are gradually catching up with industrialised countries. Chart 1 below somewhat reflects these assumptions. In 2002-2007, a negative sign or near 0 value is seen for developed countries' performance and a number of developing countries show positive PERFO shares. A more complete picture of how most countries fared in both periods and showing the sizes of their economies can be seen in Charts 2 and 3 further below.

Chart 1. Shift-Share Analysis of Developing, Developed and CIS economies, 2002-2007

DEVELOPING ECONOMIES

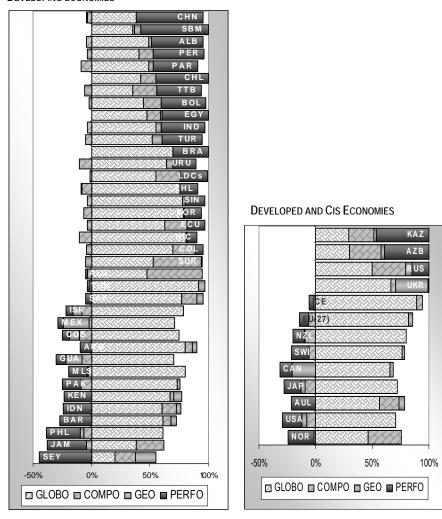


Chart 2. Shift-Share Analysis of selected economies, 1996-2002 (Percentage)

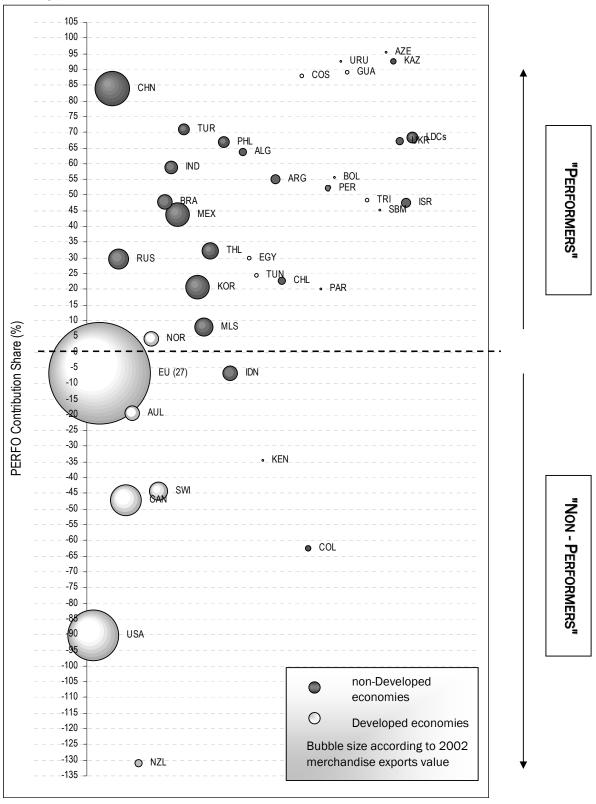
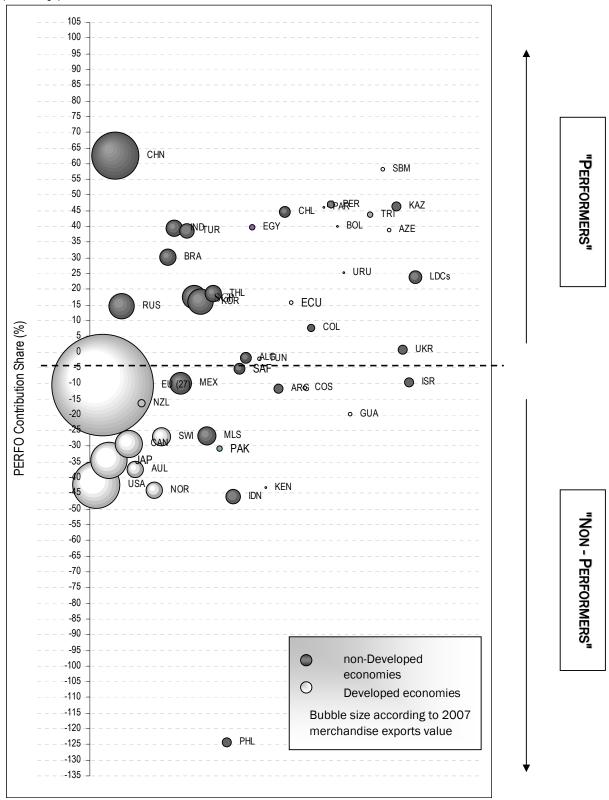


Chart 3. Shift-Share Analysis of selected economies, 2002-2007 (Percentage)



2. PROCESSING TRADE

Another shortcoming of the method would be that it is based on market shares. This necessarily gives the analyst a mercantilist vision of world trade, i.e. a "zero-sum" game where the one's gains are somebody else's losses. In particular, it would be incorrect to conclude that industrialised countries are losing in productivity and welfare just because their performance indicator is shown to be negative. A possible explanation could be found especially when considering the special case of trade in goods for processing. Part of the increase in developing countries' trade is due to a process of outsourcing and offshoring from firms located in industrialised countries. This process not only boosted North-South trade (i.e., increased South's relative participation in total trade because they started with lower basis), but also improved the productivity and competitiveness of the off-shoring firms. Consequentially, the PERFO indicator will systematically be negative for the industrialsed countries as a group despite gains of competitiveness at the micro-level. Measuring trade in value added, instead of gross commercial value, however, is expected to partially correct this bias⁴.

3. THE GLOBO EFFECT

The global effect serves to normalize the rates of change in relation to the world average. Given the way this is calculated in the method, i.e. (GLOBO = Value at Year 1 * "World" total exports' % change), the global effect is logically expected to have a mechanical relationship with the countries' total exports growth rates. In fact, looking further closely at the data, an inverse relationship exists between the GLOBO effect and the countries' total exports growth rates, i.e. THE HIGHER THE COUNTRY'S EXPORT GROWTH RATE, THE SMALLER ITS GLOBO EFFECT. (see Annex II Table A1). In the previous illustration in Box 1 (p.17), US' GLOBO effect is greater than 100% indicating that its exports grew slower than the World average.

4. THE PERFO EFFECT

It also seems logical to think that there should be some kind of inverse relationship between the PERFO effect and the GLOBO effect . In other words, high "Performers" would be expected to have low global contributions. That is, because of its own unique capacity a "Performer" would do well (i.e. to do better than the world average) in increasing its exports regardless of the global behaviour of its trading partners and the industries as a whole. Having a closer look at the exports data, this shows that the high "Performers" happen to be the countries in the upper half of the scale of total export growth rates, the "World" being, as expected, in the middle. In other words, the "Performers" are the "source of the global tide". And in fact, looking further closely at the data, a pattern seems to exist between a country's total exports growth rate and its PERFO effect, i.e. THE HIGHER ABOVE THE WORLD EXPORTS GROWTH RATE, THE HIGHER THE CHANCES OF A POSITIVE PERFO EFFECT (see Annex II Table A2)

5. SENSITIVITY TO DATA ISSUES

Another very important limitation of this method is that results may be misleading if units of analysis have very small numbers, thus producing very large growth rates. The size of a country's economy, for example, is not reflected when SSA is applied. This is particularly an issue when products are very disaggregated. Hence, results derived from growth rates generated from low export values cannot be immediately detected. Efforts have to be taken to have robust, and as much as possible, as

⁴ This is a project which is currently underway at WTO Statistics Group to produce this alternative measurement of international trade flows).

little "near-zero" data as possible. Consequently, small values have to be flagged when interpreting the results.

6. SENSITIVITY TO THE ORDER OF CALCULATION OF COMPO AND GEO

A well known problem with the traditional approach to SSA is that the numerical values of the COMPO and GEO effects are not invariant to the order of calculation. In other words, different results are obtained depending on whether the effect of COMPO is removed before GEO or vice versa. Consider the illustration below using China as an example (with the same 6 trading partners as specified previously),

(A) TRADITIONAL ORDER (PRODUCTS ON ROWS, DESTINATIONS/PARTNERS ON COLUMNS):

Table 2a. China's total exports to selected destinations, 2002 and 2007 (mil USD)

2002 (V)									
Destination (j)	Total	EU27	RU	JP	CN	USA	CA		
Product (i)									
TOTAL	219182	64656	3521	55291	0	91412	4303		
AG	12586	2609	441	7066	0	2284	185		
MI	6680	1653	71	3617	0	1251	88		
MA	199916	60394	3009	44607	0	87877	4029		
		2	2007 (V')						
Destination (j)	Total	EU27	RU	JP	CN	USA	CA		
Product (i)	Total	LUZI	NO	31	OIV	03/1	OA		
TOTAL	760011	299091	28467	123956	0	289149	19349		
AG	25375	7222	1202	10297	0	5987	666		
MI	20087	7241	420	7130	0	4853	444		
MA	714549	284627	26845	106529	0	278309	18239		

Table 2b. Total exports by selected destinations, 2002 and 2007 (Percentage change, %)

Percentage change, % (r)									
Destination (j)	tination (j) Total		RU	JP	CN	USA	CA		
Product (i)									
TOTAL(6)	105%	159%	330%	70%	171%	72%	62%		
AG	66%	71%	162%	27%	232%	45%	63%		
MI	240%	293%	287%	182%	492%	182%	182%		
MA	94%	141%	357%	73%	147%	63%	56%		

Source: Authors' calculation based on WTO Statistics and the United Nations Comtrade database.

Using the same way of calculating illustrated previously, the following results were obtained:

(B) CHANGING THE ORDER OF COMPO AND GEO, (I.E. DESTINATIONS ON ROWS, PRODUCTS ON COLUMNS):

Table 3a. China's total exports to selected destinations and by major product, 2002 and 2007 (mil USD)

2002 (V')									
Product (j)	Total	AG	MI	MA					
Destination (i)	Total	A.O	IVII	IVIZ					
TOTAL	219182	12586	6680	199916					
EU(27)	64656	2609	1653	60394					
RU	3521	441	71	3009					
JP	55291	7066	3617	44607					
CN	0	0	0	0					
USA	91412	2284	1251	87877					
CA	4303	185	88	4029					
	2007	7 (V')							
Product (j)	Total	AG	MI	MA					
Destination (i)	TULAT	AG	IVII	IVIA					
TOTAL	760011	25375	20087	714549					
EU(27)	299091	7222	7241	284627					
RU	28467	1202	420	26845					
JP	123956	10297	7130	106529					
CN	0	0	0	0					
USA	289149	5987	4853	278309					
CA	19349	666	444	18239					

Table 3b. Total exports of selected major products, 2002 and 2007 (Percentage change, %)

Droduct (i)		2007 /	2002 (4)					
Product (j)		2007 / 2002 (r)						
Destination (i)	Total	AG	MI	MA				
TOTAL	105%	66%	240%	94%				
EU(27)	159%	71%	293%	141%				
RU	330%	162%	287%	357%				
JP	70%	27%	182%	73%				
CN	171%	232%	492%	147%				
USA	72%	45%	182%	63%				
CA	62%	63%	182%	56%				

Source: Authors' calculation based on WTO Statistics and the United Nations Comtrade database.

Using the same method of calculating but using switched data on partner and product, the following results were obtained:

Box 2. Calculation of classic shift-share of China total exports in 2002-2007, (transposed order)

```
USING THE TRANSPOSED DATA, THE FOLLOWING EFFECTS WERE CALCULATED:
                            V" – V
TOTAL CHANGE
                            760011-219182
                  =
                  =
                            540829
    (1) GLOBO
                            105/100 * 219182, OR
                            (105/100 * 64656) + (105/100 * 3521) + ... + (105/100 * 4303)
                            230141
     (2) COMPO
                            \Sigma_i \Sigma_i (r_{ij} - r_i) V_{ij}
                  =
                            (.71-1.59)*2609 + (2.93-1.59)*1653 + (1.41-1.59)*60394
                            + ... + (.63-.62)*185+(1.82-.62)*185+(.56-.62)*4029
                  =
                            -2296 + 2215 -10871+ ... + 2+ 106 - -242
                            -15844
                  =
     (3) GEO
                            \Sigma_i(r_i - r)V_i
                            (1.59-105/100)*64656 + (3.30-105/100)*3521 + ... + (.62-105/100)*4303
                  =
                            34914+7922+... -1850
                  =
                            -8532
     (4) PERFO
                            \sum_{i}\sum_{j}(V'_{ij}-V_{ij}-r_{ij}V_{ij})
                            (7222-2609)-(.71*2609)+ (7241-1653)-(2.93*1653)+( 284627-60394)
                            + ... + (666-185)*(.63*185)+(444-88)-(1.82*88)+( 18239-4029)-(.56*4029)
                            2761+745+139077+ ...+ 364+196+11954
                  =
                            335065
     540829
                            230141 -15844 - 8532 + 335065
CONVERTING THESE CONTRIBUTIONS TO SHARE IN TOTAL CHANGE:
TOTAL CHANGE
                            GLOBO + COMPO + GEO + PERFO
         100%
                            42.6% - 2.9% - 1.6% + 62.0%
```

The example above shows very slight differences in the COMPO and GEO effect. Nevertheless, the PERFO as well as the GLOBO effect remain the same. Although the numbers may differ slightly depending on the order of calculation, qualitative results tend to be very similar regardless of how they were arrived at, e.g. a large positive or negative GEO, COMPO or PERFO effect tends to remain large and retain its sign in either case, however numbers close to zero are more problematic since they may easily change sign from period to period (i.e., the results are not robust).

More importantly, results are also sensitive to product classification, the level of disaggregation of the data, the number of countries or regions considered and the inclusion or exclusion of intra-trade (for ex. EU-intra trade), but broad qualitative findings tend to be robust across all methods of calculation. Different results can be obtained by changing either the countries concerned, the time period, or the type of shift-share used. Slight variations could result to countries having large positive or negative PERFO contribution shares, for example.

D. REFINEMENTS TO SHIFT-SHARE

The traditional SSA has been progressively enriched to correct shortcomings and cover new fields. Among these additions, the paper will address two of them.

1. NOMINAL OR REAL

A source of difficulty in interpretation using classic shift share is the fact that the above equations are expressed in nominal terms. Using nominal values doesn't take into account commodity price changes that may have affected the total export values, i.e. making comparisons across countries can be difficult when relative prices fluctuate heavily during the period under review. In such a situation, large changes in relative prices can result into large changes in market share, without a clear relationship with economic policy or structural factors affecting countries' respective competitiveness. Such price fluctuations which are mostly beyond the control of national economic policies may distort results. To go around this, total exports values were deflated with IMF world commodity prices, especially in the mining sector where exports may have been significantly affected by prices of crude oil which had risen starting 2002, or by prices of food which had gone up in 2007.

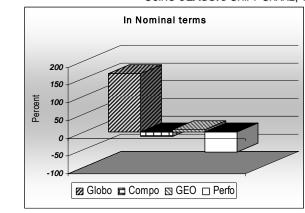
2. CLASSIC SHIFT-SHARE OR DYNAMIC SHIFT-SHARE

Using dynamic shift-share instead of classic shift-share is also another refinement to SSA. Classic shift-share only takes into account exports values of the start year and the end year, where such end values could also be outliers. The advantage of dynamic shift-share analysis is that it literally is, a sum of all classic shift-share calculations of each pair of adjacent years, hence, taking into account movements in exports values in the in-between years. The disadvantage is that it may be cumbersome and more difficult to interpret. The present analysis opted for a "middle of the road" approach segmenting the time frame into smaller periods.

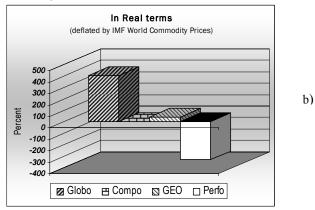
Illustrated in Chart 4 below are the SSA results for United States' total exports comparing various methodological modifications. The charts show that results can differ depending on the type of SSA used (classic vs dynamic), whether using exports in nominal terms or real terms, using exports from various time-frames (for ex. 1996-2002 or 2002-2007), or using different partner groups (for ex. 6 partner countries or 7 regional partners). Results vary slightly for each pair of scenarios. The most obvious gap in results occurs, however, when using dynamic SSA in total exports in 1996-2002, comparing both nominal and deflated figures. Here we see the PERFO effects to have opposite trends, having a positive sign using deflated figures, and a negative sign using exports in current prices.

Chart 4. United States' total exports and Shift-Share Analysis, 1996-2007 (Percentage)

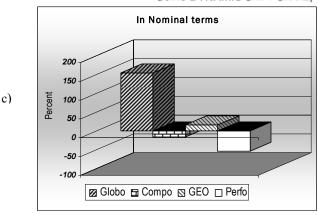
USING CLASSIC SHIFT-SHARE, 1996-2002, 6 TRADING PARTNERS

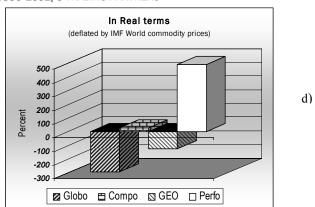


a)

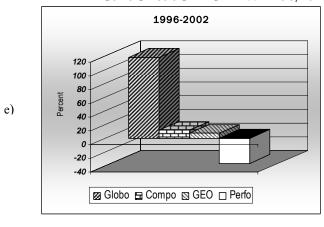


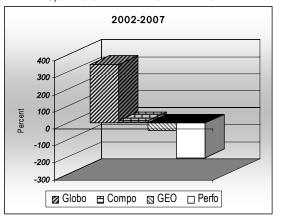
USING DYNAMIC SHIFT-SHARE, 1996-2002, 6 TRADING PARTNERS





USING CLASSIC SHIFT-SHARE ANALYSIS, NOMINAL TERMS, 7 REGIONAL TRADING PARTNERS





Source: Authors' calculation based on WTO Statistics and the United Nations Comtrade database.

f)

III. USING SHIFT-SHARE TO ANALYSE STRUCTURAL CHANGES IN GLOBAL TRADE: 99 COUNTRIES AND 3 PRODUCTS

This section applies SSA to a selected group of developing and developed economies, least-developed countries (LDCs) and countries in transition. Results give an indicator of these economies' export competitiveness or market access capability during the period under review, taking into consideration the limitations identified in the previous chapter.

A. THE GIVENS: WHEN, WHO, WHAT AND HOW?

WHEN? The study covers one long-run period (1996-2007) covering the post-Uruguay Round years, subdivided into two sub-periods: 1996-2002 and 2002-2007. This 11-year period marks the start of the influx of members of the WTO following its creation in 1995. The earlier sub-period particularly covers a number of world crises. These are: the Asian financial crisis (1997), the Russian "ruble" crisis (1998), Brazilian currency crisis (1999), the IT boom in 2000, Argentina's economic crisis (2001), the attacks on the World Trade Center in the US in September 2001 and a sharp increase in world prices of crude oil starting in 2001. Prior to 1996 was also the collapse of the USSR, creating a period of deep structural crisis for the CIS countries after that.

WHO? In this exercise, SSA was used with respect to the exports of 49 individual countries and the LDCs (50 countries as one reporting group). SSA calculations were done using data from the WTO Secretariat or extracted from the United Nations Comtrade database. Among the 99 countries, developing countries and countries in transition represented 42% of trade while developed countries represented 58% in 2007. The selection of countries was determined by exports data availability and reliability. Grouping all 50 of the LDC countries into 1 reporting group was necessary because exports data for the individual LDC countries is limited and largely estimated. The GEO component in the calculation is based on a further aggregation of trading partners into 7 regions comprising the "WORLD" namely, North America (NA), South and Central America (CSC), Europe (EUR), Commonwealth Independent States (CIS), Africa (AFR), Middle East (ME), and Asia (ASI). The regional partner data used in this study are the estimates regularly published by the WTO Secretariat as part of its merchandise trade network by origin and destination.

WHAT? The product coverage in this study was limited to analysing Agriculture (AG), Fuels and Mining (MI) and Manufactures (MA). These product groups are defined according to Revision 3 of the Standard International Trade Classifi cation (SITC). In particular, the product groups are defined as follows: Agriculture products (SITC sections 0, 1, 2 and 4 minus divisions 27 and 28) consist of food and raw materials; Fuels and mining products (SITC section 3 and divisions 27, 28, 68) consist of ores and minerals, fuels, and non-ferrous metals; and Manufactures (SITC sections 5, 6, 7, 8 minus division 68 and group 891) consist of iron and steel, chemicals, other semi-manufactures, machinery and transport, textiles, clothing, and other manufactures. In the paper, the term "agricultural exporters" refers to countries who, for a specified period, predominantly exported agriculture products. Similarly, "fuels and mining exporters" and "manufacture exporters" refer to countries who, for a specified period, predominantly exported fuels and mining and manufacture products, respectively.

NOMINAL OR DEFLATED? To have a balanced set of results, the exercise was done using export values in current prices, as well as exports values deflated using world commodity prices. The effects of international changes in world commodity price, particularly in the price of crude oil may bias the results due to their large fluctuation during the period. Hence, to complement the nominal analysis, the same SSA was done using deflated export figures, in particular, using IMF World Commodity Prices of the 3 product groups to deflate nominal values. The analysis, however, is mostly based on the results using nominal values.

CLASSIC OR DYNAMIC? The classical method of SSA was used in this exercise, thus, only taking into account data of the starting and ending years of each period, and hence, not taking into account fluctuations of data that may have occurred in the years in between. Because two subperiods are used, the SSA results on the 1996-2007 period can be checked against the subperiods.

B. THE "COMPETITIVENESS" INDICATOR: THE RESIDUAL ("PERFO")

In this exercise, we focus our interest on the performance "competitiveness" effect as it is the effect that gives us an indication of how much of the change in a given industry is assumed to be due to some unique competitive advantage that the country possesses, i.e. how much of the growth that cannot be explained by the export behaviour of the global economy as a whole, the global trends in each industry covered, or the global behaviour of the various regional partners. It is also the weakest one on methodological ground, being a "residual", i.e. a measure of unknown causes.

IDEALLY, THE SUCCESS INDICATOR THAT WOULD BE DESIRABLE WHEN APPLYING SSA TO TRADE WOULD BE THAT A COUNTRY'S MAIN CHANGES IN EXPORTS BE AS A RESULT OF ITS OWN COMPETITIVITY, (I.E. PERFO BEING ITS HIGHEST EFFECT) AND DUE TO A LESSER EXTENT FROM GLOBAL INFLUENCES OF THE WORLD ECONOMY, THE MIX OF INDUSTRIES IN GENERAL, AND THE RESPECTIVE PERFORMANCE OF ITS TRADING PARTNERS.

1. THE CRITERIA

When was a country considered to be a "Performer"? In mechanical terms, countries whose PERFO effect > 0 were the countries categorized as being the "Performers" of the group. Annex II Table A2 shows a listing of all economies considered sorted by descending PERFO effect. Using this very general criteria (PERFO > 0), however, the table shows a long list of countries having positive PERFO indicators. So the real question is, how can this list be narrowed down to find the bonafide performers in the group? In other words,

WHICH OF THESE COUNTRIES ARE THE "CONFIRMED" PERFORMERS?

2. NARROWING IT DOWN

A country was initially categorized as a "Performer" when it showed a positive PERFO effect in its shift-share calculation, i.e. PERFO > 0. But because many countries qualified in this criteria, some additional criteria had to be introduced.

In this analysis, the "Performers" were categorized into 2 main groups: the CONSISTENT performers and the OCCASIONAL performers. Among the consistent performers are 3 subgroups: the "CONFIRMED" performers, the "PARTIAL" performers, and the "SLOW" performers. In particular,

"CONSISTENT" performers were countries who were in any one of the 3 categories below, for both 1996-2002 and 2002-2007, and for the combined period of 1996-2007;

"Confirmed" performers were considered to have the following criteria:

- (a) PERFO IS > 0;
- (b) TOTAL EXPORTS GROWTH RATE IS > TOTAL "WORLD" EXPORTS GROWTH RATE DURING THE PERIOD CONSIDERED;
- (c) ITS PERFO EFFECT IS THE MAXIMUM OF ALL THE EFFECTS

(d) THE SECTOR IN WHICH ITS PERFO EFFECT IS AT ITS MAXIMUM IS THE SAME AS ITS MAIN EXPORTED OR PREDOMINANTLY EXPORTED SECTOR

"Partial" performers had the following criteria:

- (a) PERFO IS > 0;
- (b) TOTAL EXPORTS > "WORLD" (I.E. ALL COUNTRIES) TOTAL EXPORTS GROWTH RATE. BUT;
- (c) PERFO EFFECT IS NOT THE MAXIMUM. MAXIMUM SECTOR IS EITHER COVERED BY ANY OF THE ABOVE EFFECTS OR NOT AT ALL.

"Slow" performers had the following criteria:

- (a) PERFO is > 0;
- (b) TOTAL EXPORTS GROWTH RATE < WORLD EXPORTS GROWTH RATE;

On the other hand,

"OCCASIONAL" performers were countries who were in any one of the 3 categories of performers above (but not always in the same category), for 1996-2002, 2002-2007, and the combined period 1996-2007. (Note: An "OCCASIONAL" would be a better category than a "SLOW" performer).

"NON-PERFORMERS" were simply countries whose PERFO effect < 0. 5

C. PERFORMERS AND NON-PERFORMERS

1. DEVELOPED VS NON-DEVELOPED COUNTRIES

THE DEVELOPING COUNTRIES AND 2 OIL EXPORTING CIS COUNTRIES SEEM TO HEAD THE LIST AS "PERFORMERS" for 1996-2002, 2002-2007 (see Annex II Tables A3 and A4) and the combined period 1996-2007. In particular, countries showing positive PERFO effects are headed by China, the oil exporters Azerbaijan and Kazakhstan, south-eastern European countries including Turkey, other members of the BRIC (Brazil, Russia, and India), other Asian countries namely South Korea, Thailand and the Philippines, Ukraine, some Latin American countries, and even the LDCs. The developing countries with positive competitive components represented 31% of total trade of the 99 countries

Interestingly, Asian countries who had suffered from the financial crises during the 1996-2002 period resulted in positive performance components in both subperiods. There were 4 developing countries, on the other hand, which consistently showed negative competitivity components for the selected periods. These were South Africa, Pakistan, Indonesia and Kenya, representing 2% of total trade of the 99 countries considered in the analysis.

MOST DEVELOPED ECONOMIES, ON THE OTHER HAND, FARED BADLY. Except for Iceland, Norway and Canada whose PERFO indicators where positive in at least one period, all others resulted into negative competitivity components for both periods 1996-2002, 2002-2007 and the combined period 1996-2007. These countries accompanied by the 4 non-performing developing economies listed above represented 65% of the trade of all countries included in the analysis.

⁵ Henceforth in the paper, performers can also be designated as follows: Consistent Confirmed (CC); Consistent Partial (CP); Consistent Slow (CS); Occasional Confirmed (OC); Occasional Partial (OP), Occasional Slow (OS). Non-performers are designated as Consistent Non-performers (CN) or Occasional Non-performers (ON).

(A) WHY THE NEGATIVE COMPETITIVE NUMBERS FOR DEVELOPED COUNTRIES?

Except for a few developing countries, what might explain the positive performance of developing countries, and the poor performance reflected in the numbers of the developed countries? A first and most important possibility is the logical assumption mentionned in the earlier section, i.e. the "catching up" tendency of developing countries, or the "convergence" between developed and developing countries. Indeed, negative or near-0 competitivity components are seen for developed countries' performance while a number of developing countries show positive PERFO shares. limitations for both subperiods, 1996-2002 and 2002-2007.

The second possible answer is simply that developing country exporters' "capacity to shift" or adapt their markets in order to gain new markets, is much better than that of developed countries. The results could suggest that during these periods, developing countries, by their own productivity and resources, fared better in boosting their own economies and making their exports profitable, than did developed countries with their own economies.

Suggesting the opposite, however, for the developed countries is, of course, not necessarily true. And this is supported by the assumption also mentioned earlier in the previous section concerning trade in goods for processing. While trade in developing countries has enjoyed a boost through the outsourcing and hiring of offshore firms by developed countries in developing countries, thus increasing their contribution to world trade, this does not necessarily mean that developed countries' contributions to world trade has not. This would be better measured by taking into consideration only the value added component of trade flows.⁶

As previously mentionned, one aspect that SSA results do not reflect is the level of development of the economies. SSA analyses changes but says nothing on levels of productivity or factor endowment. While developed countries result to negative or even near 0 PERFO levels, they probably still enjoy a greater margin of competitiveness despite smaller increases because they had started from a much higher level of development (i.e. productivity) compared to developing economies. Incidentally, SSA results of developed countries are consistent in that they show PERFO indicators for their manufacturing sectors (where most processing, outsourcing and offshoring trade occurs) to be the least or most negative.

Looking more closely, the manufacture shift-share results of such economies show machinery and transport equipment, particularly the office and telecom product groups for the United States, Japan and Canada to have the most negative or least "competitive" results, while Europe, Australia and New Zealand show the most negative or least results in the remaining manufacture product groups⁷. Below is the data for the United States.

Table 4. United States breakdown shift-share results in Manufactures, 1996-2002, 2002-2007 (Percentage, %)

		199	6-2002		2002-2007					
	Globo	Compo	Geo	Perfo	Total	Globo	Compo	Geo	Perfo	Total
Total Manufactures	141	28	21	-67	123	141	-20	-8	-40	72
Iron and steel	2	-1	0	0	1	1	1	-1	0	2
Chemicals	18	11	5	-5	29	21	1	-1	-5	15

 $^{^6}$ Measuring Trade in Value Added in the New Industrial Economy: Statistical Implications, Hubert Escaith, 2008

⁷ The product coverage in this study was limited to analysing only agriculture, fuels and mining and manufactures. However, to further investigate this point for developed countries, the product groups were extended for the developed countries to find out where the least increase in exports share were within their manufactures sectors.

		1996	6-2002		2002-2007					
	Globo	Compo	Geo	Perfo	Total	Globo	Compo	Geo	Perfo	Total
Pharmaceuticals	2	3	0	7	13	4	0	0	0	4
Other chemicals	16	8	5	-12	17	17	1	-1	-5	11
Other semi-manufactures	10	-3	4	-2	9	10	-2	-2	-2	6
Machinery and transport equipment	89	23	7	-57	62	86	-17	-4	-25	40
Office and telecom equipment	30	20	-3	-42	6	27	-10	1	-13	5
EDP and office equipment	13	7	-2	-27	-9	10	-4	0	-4	1
Telecommunications equipment	6	4	-1	-4	5	6	-1	0	-3	3
Integrated circuits	11	9	0	-10	10	11	-5	0	-5	1
Transport equipment	28	4	8	-5	35	30	-7	-3	-3	18
Automotive products	16	8	8	-14	17	17	-4	-4	1	9
Other transport equipment	12	-3	1	9	18	13	-3	1	-3	9
Other machinery	31	-2	1	-10	20	29	-1	-1	-10	17
Textiles	2	-2	3	1	4	3	-1	0	-1	0
Clothing	2	0	0	-4	-2	1	-1	0	-1	0
Other manufactures	17	0	2	1	20	18	-2	0	-6	10
Personal and household goods	1	0	0	-1	1	1	0	0	0	0
Scientific and controlling instruments	6	0	0	5	11	7	1	0	-5	4
Miscellaneous manufactures	10	0	1	-3	8	10	-2	-1	-1	5

2. DEVELOPING ECONOMIES AND ECONOMIES IN TRANSITION

Using the more specific criteria for "Performers" mentionned previously, a complete list of all performers, consistent and occasional as well as resulting non-performers, using current prices as well as constant 2000 prices are illustrated in Diagram 2 and 3 below. Their listing of contribution shares and corresponding sectors to the change in their total exports are in Annex II Tables A5 and A6.

Diagram 2. Shift-Share Analysis: Performers and non-Performers, 1996-2007 (using current prices)

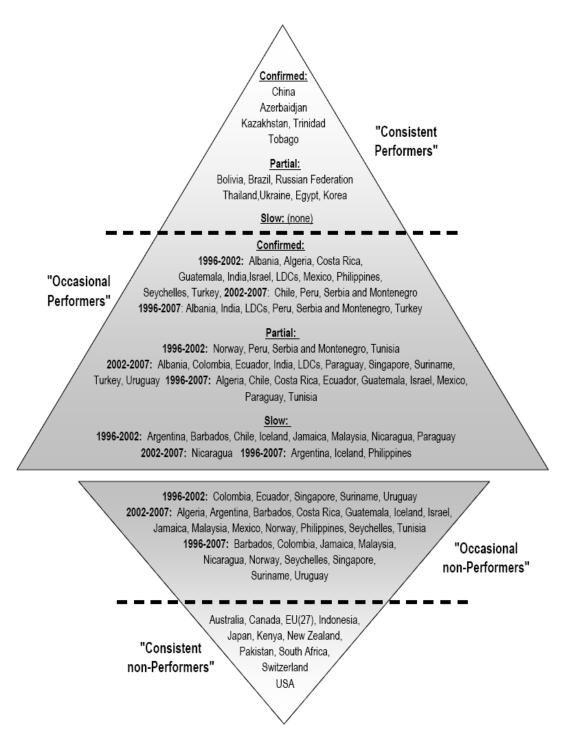
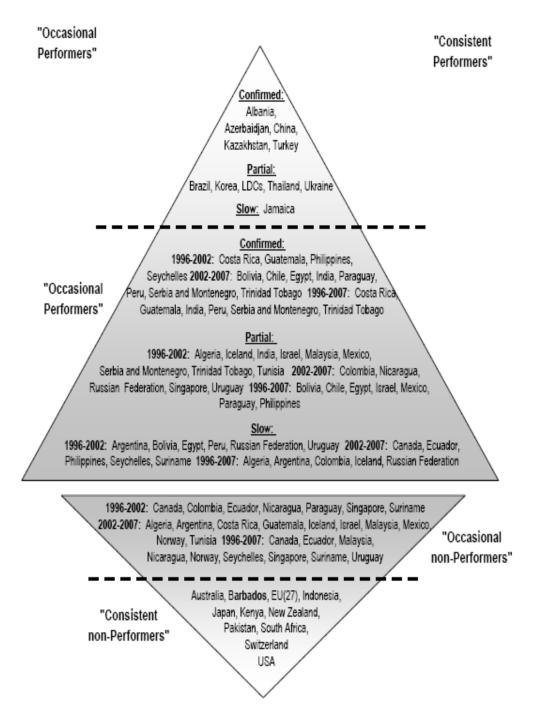


Diagram 3. Shift-Share Analysis: Performers and non-Performers, 1996-2007 (using constant 2000 prices)



(A) CHINA, A CONFIRMED PERFORMER

China's shift-share results show that its increase in exports is significantly attributed to its own competitiveness (Perfo = 84%, against all other effects, 16% for 1996-2002 and 63% and 27% respectively for 2002-2007). Results also indicate that the increase in total exports in both periods is mostly visible in its main exported product, manufactures. In Chart 5 below, notice also how the contribution share of the GLOBO effect almost increases by half in the period of 2002-2007.

Chart 5. China's Shift-Share Analysis of total exports, 1996-2002, 2002-2007 (Percentage, Total change=100%)

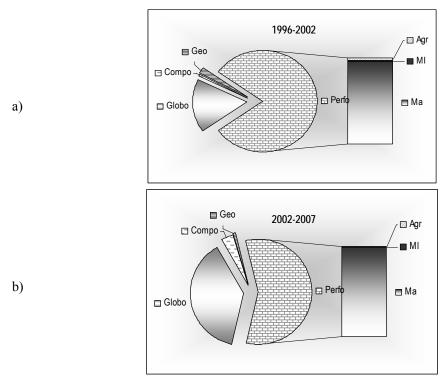


Table 5. Evolution of China's total exports, 1996-2007 (Percentage share)

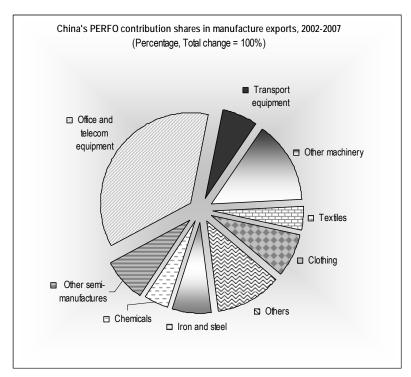
China	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Agriculture	10	9	8	7	7	6	6	5	4	4	3	3
Food	8	7	7	6	5	5	5	4	4	3	3	3
Raw materials	2	1	1	1	1	1	1	1	1	1	0	(
Fuels and mining products	6	6	5	4	5	5	4	4	4	4	4	3
Ores and minerals	1	1	1	1	0	0	0	0	0	0	0	(
Fuels	4	4	3	2	3	3	3	3	2	2	2	2
Non-ferrous metals	1	1	1	1	1	1	1	1	2	1	2	2
Manufactures	84	85	87	88	88	89	90	91	91	92	92	93
Iron and steel	2	2	2	1	2	1	1	1	2	3	3	4
Chemicals	6	5	5	5	5	5	5	4	4	5	5	į
Other semi-manufactures	7	7	7	7	7	8	8	7	7	8	8	8
Machinery and transport	22	22	26	28	33	36	39	43	45	46	47	4
Textiles	8	8	7	7	6	6	6	6	6	5	5	

China	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Clothing	17	17	16	15	14	14	13	12	10	10	10	9
Other manufactures	23	23	24	24	20	19	18	17	16	16	15	15
Residual	0	0	0	0	0	0	0	0	0	0	0	0
Total merchandise exports	100	100	100	100	100	100	100	100	100	100	100	100

Source: Authors' calculation based on WTO Statistics.

In addition, the table above shows China's share of the manufacturing sector to have grown from 84% to 93% since 1996. This strong performance is predominantly due to trade in goods for processing, offshored by firms located in industrialised countries. SSA reflects a little bit of this when disaggregating ⁸ the manufactured products for China (see Chart 5c). In this chart, a relatively large portion of the positive "shifting" of total exports happens to be in the Office and Telecommunication products where China leads many developing countries, especially, in the assembly and processing of such products.

Chart 5c. China's Shift-Share Analysis of manufacture exports, 2002-2007 (Percentage, Total change=100%)



Source: Authors' calculation based on WTO Statistics.

(B) AZERBAIJAN, KAZAKHSTAN

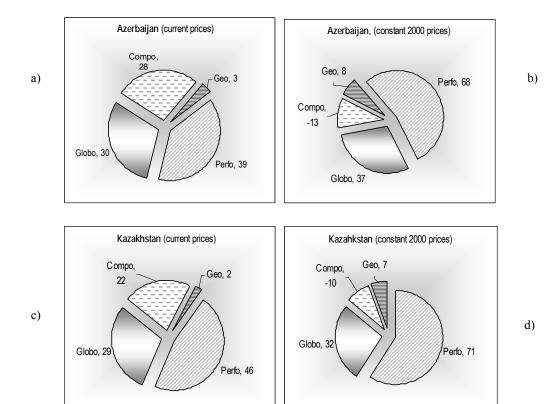
Azerbaijan and Kazakhstan also appear to be "CONFIRMED" performers in the energy sector, using both current prices as well as constant prices. It should be recalled from an earlier section that the periods considered in the study marked a period of structural re-building for the CIS countries. Rising

⁸ The product coverage in this study was limited to analysing only agriculture, fuels and mining and manufactures. However, as China engages significantly in processing trade which is primarily in manufactures, the analysis was extended to find out where the significant shift in trade is within the manufactures exports of China.

oil prices also marked the 2002-2007 period which could be another reason for high export values for these countries. The high increase in exports from one year to the other can be attributed to price effects.

In order to isolate this effect, export values were deflated using world commodity price changes in fuels. SSA results, nevertheless, show positive and high performance indicators (PERFO) for both these countries, indicating that the recovery after the collapse of the former Soviet Union is still at work. Chart 6 below shows SSA results of CIS countries.

Chart 6. CIS oil exporters 'Shift-Share Analysis, 2002-2007, current and constant prices (Percentage)



Source: Authors' calculation based on WTO Statistics.

Note: Negative effects are represented by their absolute values.

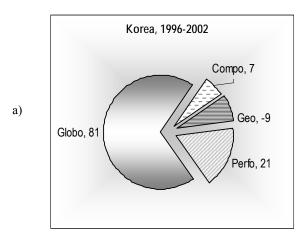
As mentioned previously, a limitation of SSA is that it cannot give an explanation behind the resulting performance effect, except that it is neither attributed to the global export behaviour, nor the individual sectoral behaviour, nor the individual partner behaviour. One can only suspect that as might also be the case for some performers like Bolivia and commodity-oriented LDCs, these countries have benefited from the boom in commodity prices by attracting more FDI. Hence, they appear as winners at nominal prices as well as at constant prices as they were able to increase their volume production and international market share.

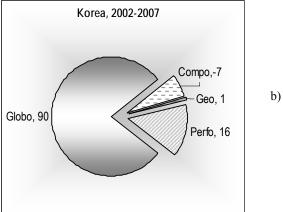
(C) KOREA AND THAILAND

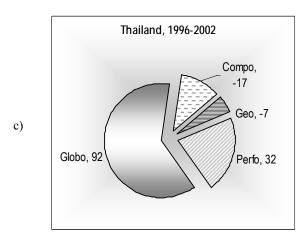
These two countries along with Indonesia were hit the hardest by the Asian financial crises in 1998-1999. Yet in the 1996-2002 period, they resulted to have positive performance components in the manufactures sector. Compared to their exports in 1996, Korea and Thailand increased their total

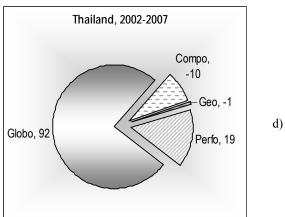
exports in 2002 by 25% and 22%, respectively, higher but not far from the global rate of 20%. (See Annex II Tables A3 and A4). The same trend was seen for 2002-2007 and the combined period 1996-2007. Chart 7 below shows their SSA results.

Chart 7. Korea's and Thailand's Shift-Share Analysis of change in total exports, 1996-2002, 2002-2007 (using current prices) (Percentage)









Source: Authors' calculation based on WTO Statistics. *Note:* Negative effects are represented by their absolute values.

(D) INDIA AND THE LEAST DEVELOPED COUNTRIES: THE OCCASIONALS

India and the Least Developed Countries were categorized as "Occasional" performers. They were Confirmed Performers in the 1996-2002 period but became "Partial" Performers in 2002-2007. They were "Confirmed" performers in the first period because both their PERFO effects had contributed the most to the increase in their total exports, especially in their main exported product groups (Manufactures for India, and fuels and mining for LDCs).

In the 2002-2007 period, however, their GLOBO effects became higher than their PERFO effects. For the LDCs, the GLOBO effect was the largest contributor for its increase in its main exported product group, fuels and mining. In the case of India, the GLOBO effect was also the largest

contributor for its increase in its main exported product group, manufactures. Its PERFO effect, however, was in a sector that was not its main exported sector (fuels and mining).

(E) OTHER PERFORMERS

Bolivia and Brazil were also consistent Partial Performers since their increase in total exports, especially their main exported product groups, were mostly as a result of the global effects. In 1996-2002, however, their PERFO or competitivity effects indicate that they were successful in being competitive in Agriculture (not their main exported product), and thus being able to gain exports by "shifting" to this sector. (see Annex II Table A5)

Egypt's main exported product group in 1996-2002 was manufactures and its change its total export seemed to have been 30% attributed to its competitiveness or capacity to "shift its exports share" in this sector. The effect with the most contributing share to its change in total exports, however, seems to be the GLOBO effect, which was mostly due to increase in exports in the fuels and mining sector. The same trend also occurred in 2002-2007.

Using current prices, Jamaica turned out to be a "slow" performer in 1996-2002 period because while it exhibited a high performance indicator in manufactures which is not its main exported sector, it ranked as one of the "slower than average" exporters of the group. In 2002-2007, however, its overall PERFO effect turned negative. Most of the rest of the developing countries turned out to be "Occasional" Performers.

3. THE NON-PERFORMERS: INDONESIA, PAKISTAN, SOUTH AFRICA AND KENYA

Along with the consistent performers were also consistent non-performers, 4 of which were developing countries. These countries were manufacture exporters Indonesia, Pakistan and South Africa, and agriculture exporter, Kenya. SSA results show that their largest contributing effect in their increase their total exports was the GLOBO effect, most especially in their respective main exported products.

It is interesting to note that while Korea and Thailand showed positive performance indicators in manufactures despite the Asian crisis in 1998-1999, Indonesia did not. Indonesia fell negative in the PERFO effect due to a negative change in the mining sector in 1996-2002 and in both mining and manufactures in 2002-2007. Korea and Thailand, on the other hand, showed both positive change in mining and manufactures for both periods. As for Kenya, according to shift-share results, it had "lost" market share in the agriculture sector and then to the mining sector in 1996-2002 and 2002-2007 respectively.

All performers and non-performers, consistent as well as occasional, confirmed, partial or slow for periods 1996-2002 and 2002-2007 are listed in Annex II Tables A5 and A6.

4. THE PERFO EFFECT, BY SECTORS

For both periods 1996-2002 and 2002-2007, PERFO effects of all the countries show to have mostly increased exports in the manufactures sector, then in fuels and mining, and the least increase in the agriculture sector. (Annex II Tables A7 and A8 contain figures related to this section).

(A) 1996-2002: AGRICULTURE EXPORTERS DIVERSIFYING INTO OTHER SECTORS

An important point to understand SSA results is that it focuses on changes rather than levels. For example, a country specializing in agricultural exports, may nevertheless gain in performance because it was able to diversify into other natural resource type of exports (i.e. minerals or fuels), even if they remain minor exports. In this study, overall PERFO effects of agriculture exporters for this period showed to have been primarily concentrated on the manufactures and fuels and mining products sectors, and not the agriculture sector.

A peculiar observation, however, lies in 3 of these countries i.e. Nicaragua, Uruguay and Paraguay. Their PERFO effects show to have been primarily due to an increase in manufactures but seem to be inconsistent with their actual shares in manufactures for the period. In particular, their manufactures' share had either gone down in 2002 or had stayed at the same level. Indeed, the above-mentionned countries happen to fall under the "Occasional Slow" (OS) performers category. In other words, their total and agriculture exports grew slower than the World rate, as well as slower than the more "dynamic" developing countries in this sector such as Egypt, Russia, China and Brazil. In general, however, 1996-2002 was, in fact, a period of decline for world agriculture exports where the value of exports had declined by 3%.

Fuels and mining exporters also showed to have gained trade in their main sector through their export competitivity, during this period. For South America were Jamaica and Trinidad Tobago, Norway for Europe, the 3 CIS oil exporters Azerbaijan, Kazakhstan and Russia, and Algeria, Seychelles, and the LDCs. For the above countries, reported shares of fuel and mining products for this period had indeed increased from 1996-2002.

The manufacture exporters, on the other hand, showed to have gained trade primarily in manufactures, during this period. The "performing" exporters for this period were lead by Mexico for North America, Barbados, Guatemala, Costa Rica and Brazil for South America, southeastern European countries Albania, Turkey and Serbia and Montenegro for Europe, China, Philippines, Indonesia, Thailand, Korea and Malaysia for Asia, as well as Ukraine, Israel, and Egypt and Tunisia for the rest of the world. Except for Barbados and Brazil, these countries all showed their shares in manufactures to have increased from 1996-2002.

Under the same group, the "losers" were USA and Canada for North America, EU(27) and Switzerland for Europe, South Africa, and Pakistan, Japan and Singapore for Asia. Oddly, except for Switzerland and Japan, most of these "non-performing" manufacture exporters showed their share in manufactures to have, in fact, increased from 1996-2002. Except for Canada, their rate of change in manufacture exports were also lower than the world rate of 23%. This observation, however, is consistent with the SSA trend that most of the developed countries were mostly affected by the GLOBO effect, especially in the sector of manufactures. Colombia and Indonesia showed to have increased their share in manufacture exports but lost export shares in the fuels and mining sector. (See Annex II Table A3 for GLOBO effects).

(B) 2002-2007: PERFO EFFECTS HIGHEST IN THE PREDOMINANTLY EXPORTED SECTORS

Among the performers, South American agriculture exporters Paraguay, Uruguay and Nicaragua show positive PERFO effects primarily attributed to agriculture. This observation also seems consistent with their share of agriculture in their exports for 2002 and 2007. Other agriculture exporters had negative overall PERFO effects, but in fact show positive PERFO effects attributed to agriculture. These countries were Argentina, New Zealand, Kenya and Seychelles.

For fuels and mining exporters, among the "performers" were Bolivia, Peru, Chile, Trinidad Tobago and Ecuador for South America, as well as the 3 CIS exporters, Azerbaijan, Kazakhstan and Russia, as well as Egypt and the LDCs. Except for Azerbaijan, whose share in fuels actually went down by

2% in 2007, these countries' reported share in fuels and mining products had increased from 2002 to 2007.

Among manufacture exporters, Brazil and Colombia showed positive PERFO effects primarily in manufactures. An odd observation about Brazil's results, however, is that its share in total of manufactures, dropped in manufactures in 2007 but its mining sector to which it had registered minimum but positive PERFO effects was the sector whose share in total trade had increased.

For Europe, southeastern European countries Albania, Serbia and Montenegro and Turkey continued to show positive PERFO effects. Ukraine was positive for the CIS countries, and so was South Africa for Africa. For Asia, China continued to be the frontrunner followed by India, Thailand and Korea. Singapore which showed negative PERFO results for the 1996-2002 period, this time showed positive PERFO effects. Its share in manufactures, however, does not show any increase from 2002 to 2007. Its fuels and mining sector was the sector that actually increased, also showing a positive PERFO effect.

Non-performing manufacture exporters, United States, Canada, the European Union and Switzerland, among others, continue to have lost shares in manufacture exports in this period according to the results. Consistently, their GLOBO effect had the largest contribution share in their change in total exports. (See Annex II Table A4 for GLOBO effects).

D. THE OTHER EFFECTS

1. GEOGRAPHICAL EFFECT (GEO)

The geographical effect represents that part of the total change in exports which would have been due to the importing behaviour of the various regional partners at the global level.

In this exercise, the total geographical effect (GEO) is broken down into the effects of the 7 main regions, i.e. NA, CSC, EUR, CIS, AFR, MEA and Asia. Effects attributed to each of these regions gives an indication of which region total GEO effect is concentrated on. To see a listing of all countries and their GEO effects broken down by region and sector, see Annex II Table A9 for 1996-2002 and Annex II Table A10 for 2002-2007.

When analysing the GEO effect, the following questions were asked:

- a. In what sectors did most countries benefit from the geographical effect?
- b. Do these countries fall under faster growing exporters of the group or slow growing exporters of the group?
- c. Was there a region with whom countries predominantly traded with in the time periods considered (i.e. 1996-2002, 2002-2007, 1996-2007)
- d. In what sectors did these countries have the highest regional effect and with whom? Were these sectors also their predominantly exported sectors? If not, were these also sectors for which the country had a the highest or positive PERFO indicator?

(A) 1996-2002; A GENERAL SHIFT OF EXPORTS TOWARDS NORTH AMERICA

According to resulting GEO effects of countries in the analysis, almost all countries and the LDCs had indicated that the regions to which an increase in exports had been mostly due to was the Americas, more particularly, NA. In Annex II Table A9, note that most grey cells representing regions with the maximum contribution share in the GEO effect fall under NA and CSC. Moreover, the contribution shares coming from these regions also indicate that the increases in exports fall under the countries' main exported product group.

Eight countries, 5 of which were from South and Central America had benefitted from the strong import demand from North America for agriculture products. In manufactures, 26 countries including 6 of the underperforming developed countries, the BRIC, and the 3 underperforming developing countries Kenya, Pakistan and Indonesia had also benefitted from a strong demand from NA. In the mining sector, 8 countries including the LDC group and 5 South and Central American countries benefitted from a strong import demand in the fuels and mining sector from NA. Likewise, the LDCs and 3 of the South American countries namely Colombia, Trinidad and Suriname showed positive GEO effects.

8 countries did not show their maximum GEO effect to be in NA. Four South American countries, Barbados, Paraguay, Nicaragua and Uruguay show a maximum increase in their exports by "shifting" export shares to their own region. Kenya shows the same by "shifting" to Africa, Jamaica to Europe, and both Azerbaijan and Ukraine to the Middle East.

(B) 2002-2007: A SHIFT AWAY FROM NORTH AMERICA AND A PERIOD OF MORE INTRATRADE

Unlike 1996-2002, 2002-2007 exhibits a general shifting of exports away from NA. In Annex II Table A10, note that most grey cells fall under regions except NA. Intra-trade within regions as well as proximity seem to be the reasons for increases in total exports for countries who had benefitted from this effect.

Countries who mostly shifted export shares to ASI were also Asian countries, (i.e. Australia, Indonesia and Korea, and Singapore) in both mining and manufacture products. Australia and Indonesia showed increases in market share in the mining sector while Korea and Singapore, showed increases in exports share in their main exported product group, manufactures.

Countries who mostly shifted export shares to CSC were also from South America. The increase represented mostly manufactures except for Paraguay which exported agriculture products. In Europe, Switzerland and Albania increased total exports especially in their main exported sector, manufactures, by shifting export shares to Europe. Ukraine and Russia increased exports by shifting export shares of manufactures to fellow CIS countries as well as neighboring EUR.

In Africa, Kenya, Tunisia and South Africa, all non-performers, showed to have shifted their manufacture export shares to AFR. Imports from the MEA of both manufactures and fuels and mining products also resulted to increases in total exports of neighboring countries India, Pakistan and Egypt (manufactures) as well as Azerbaijan and Kazakhstan (fuels and mining products).

(C) THE GEO EFFECT: NOT A KEY DRIVER BUT NEVERTHELESS AN INFLUENCE IN THE INCREASE OF COUNTRIES' TOTAL EXPORTS

Out of the 23 countries in 1996-2002 which showed positive GEO effects, 17 of them showed that the product groups with the highest GEO effect was also their main exported product group. This, on the other hand, was no longer the case in 2002-2007. Almost half of those with positive GEO effects showed the increase in exports to be in sectors other than their predominant exported sector. For instance, agriculture exporters Seychelles, Kenya, Uruguay, Argentina and Nicaragua exhibited positive GEO sectors in both mining and manufacture products. Asian manufacture exporters Indonesia, Pakistan, Singapore and Korea exhibited increases in their exports in mining products. Another manufacture exporter Brazil showed increases in exports to due shifts to agriculture. Consistent performers and fuels exporters Azerbaijan and Kazakhstan showed increases in total exports due to shifts in exports of manufactures.

2. COMMODITY EFFECT (COMPO)

The sectoral or industry effect represents that part of total change in exports which would have been due to the growth of each industry or sector at the global level.

In analysing the product or sectoral effect, a few questions were asked:

- a. Which sectors expanded at the global level?
- b. Which countries benefitted from this expansion?
- c. Among the countries who benefitted from the global tide, which actually did some expansion on their own?, and finally,
- d. From this same set of benefitting countries, who were the "slow" performers?

(A) LIKE THE GEO EFFECT, THE COMPO EFFECT SHOWS TO BE A "SECONDARY" FACTOR IN THE INCREASE OF COUNTRIES' TOTAL EXPORTS.

Out of the 49 reporting countries and LDC group, 21 of them show to have increased their total exports as a result of the import demand in the individual sectors agriculture, fuels and mining, and manufactures, i.e. the COMPO effect. Countries in this list include quite a number of "performers" (17) including the consistent confirmed performers, and a few "non-performers" (4). Moreover, except for a few cases, countries showing positive COMPO effects showed the effect to be mostly in their predominantly exported sectors

(B) 1996-2002: MARKET SHARES SHIFTING AWAY FROM AGRICULTURE

The 1996-2002 period is marked by a notable loss of exports share of many countries in the agriculture sector. In particular, out of the 33 countries showing COMPO effects attributable to agriculture, 29 showed negative effects. This is supported by the negative growth of the value of World agriculture exports of 2002 compared to 1996.

COMPO effects attributed to the manufacture and fuel and mining exports exports show mostly positive effects. In the case of the LDCs which predominantly exports mining products, overall COMPO effect is negative. This overall COMPO effect, however, is largely pulled down by loss of exports in the agricultural products. (see agriculture PERFO effects in Annex II Table A11).

Among the agriculture exports, 5 South American countries exceptionally showed to have positive PERFO effects in agriculture. Only 2 of them, however, showed that their actual share of agriculture products had increased from 1996 to 2002.

(C) 2002-2007: COUNTRIES GAINED EXPORT SHARES BECAUSE OF THE "OIL TIDE" BUT LOST IN MANUFACTURES AND AGRICULTURE

2002-2007 period, however, marked a period where COMPO effects were positive only in the fuels and mining sector. (see grey cells in Annex II Table A12). This is supported by the fact that world exports of fuels and mining exports of the increased twice as fast as total exports, contrary to the 1996-2002 period where fuels and mining only grew 7% faster than total exports. This is also a period where commodity prices of oil after a negative change of 14.7% in 2001, had been constantly increasing starting 2002.

(D) OIL EXPORTERS AND NON-OIL EXPORTERS ALIKE SHOWED TO HAVE BENEFITTED FROM STRONG FUEL IMPORT DEMAND

Positive COMPO effects were only attributable to the fuels and mining sector. And among those countries with positive effects, half did not show to be predominant oil exporters. For example, Kenya and Argentina which predominantly exported agriculture, shows to have its COMPO effect to the fuels and mining sector. Non-performers Indonesia, Canada, and South Africa, showed to have increased their exports due to the mining tide, even if their predominantly exported products were in manufactures.

Among the oil exporters, confirmed performers Azerbaijan, Kazakhstan, Trinindad Tobago as well as partial performers Russia, Bolivia and Egypt show to have part of their increase in total exports to have been due to this strong import demand for oil. This was also true for occasional performers like the LDCs, Chile, Ecuador, Peru as well as non-performers Norway, Algeria and Australia.

A complete list of countries and their COMPO effect is in Annex II Tables A11 and A12.

IV. **CONCLUSIONS**

After applying Shift Share Analysis to the 11-year Post-Uruguay Round period, the following conclusions can be made.

The 11-year period under review marked a liberalizing and recovery phase for the developing economies and economies in transition. This was a period when a number of developing countries were striving to adopt export-led growth strategies, open their markets and fulfill the domestic policy, legal and institutional reform required to be eligible for structural loans granted by multilateral or regional development banks, or to become members of the WTO after its establishment in 1995. Twenty five countries acceded to the WTO since 1 January 1995, of which 14 were developing countries, 4 from the CIS, and 3 LDCs. Twenty nine countries are still in the process of acceding, of which 10 are developing countries, 6 CIS countries, and 9 LDCs including 3 LDC oil exporters. Shares of WTO members in world trade as well as GDP have increased since January 1995 upon the adhesion of the 25 members to the WTO, increasing from 87% to 97% in the trade side, and from 89% to 97% in World GDP⁹.

Post-1995 was also the post-breakup period, and hence a period of recovery and restructuring for the members of the former Soviet Union. Seven of the ex-USSR had acceded to the WTO since 1995 which included 4 CIS countries namely Armenia, Georgia, Kyrgyz Republic and Ukraine. Six of the ex-USSR are still trying to accede, 3 of which are the region's oil exporters Azerbaijan, Kazakhstan and Russia.

The main drivers of change in world trade differ from one sub-period to the other one. In 1996-2002, the study indicates that most agriculture exporters had diversified into other sectors by "shifting" export shares to the manufacture and fuels and mining sector. In that same period, it was in the Americas (North and South) were export shares were mostly "gained". The 2002-2007 period, however, was characterized by the "oil wave" were prices of oil annually increased, thus creating increases in export shares in the fuels and mining sectors of oil and non-oil exporters alike.

Consistently, the SSA "success indicator", the PERFO effect, which also captures the result of successful departure from the initial product and market composition, showed to be highest in more cases in the 1996-2002 period than in 2002-2007. The 1996-2002 period which was marked by the start of international structural changes, showed 19 economies to have had the PERFO effect as the largest contributing effect to change in their total exports, while 2002-2007 showed to have only 8 economies showing the PERFO effect as their srongest contributing effect.

As a result, SSA results indicates that during the Post-Uruguay Round era:

- Developing countries showed better PERFO results than developed countries indicating that their increases in total exports are a result of their own capacity in adapting to market changes, and make their products more competitive. Developing countries strived to "catch up" or converge with the developed countries. They increased their exports much faster than the developed countries gaining market shares in the process. ¹⁰
- A number of developing countries were able to adapt their trade in certain sectors to the new global economy using their own "export competitivity" even if the sectors were not their predominant exported products. For example, Brazil's most exported sector in the 1996-2002

⁹ based on data from the WTO Secretariat.

period, manufactures, showed to have the highest incidence of the GLOBO factor among its sectors (see Annex II Table A3) but it was in agriculture that it was able to be "competitive" (i.e. gaining market share). In the case of India in 2002-2007, the GLOBO effect showed have been the largest contributor to the increase in its main exported product, manufactures. Nevertheless, it also increased its total exports by being "competitive" in the fuels and mining sector (see Annex II Table A4). This favourable "repositioning" of the product-mix is sometimes more the effect of changes in relative prices, than an increase in exportable supply. To isolate the price effects, SSA was also applied on trade in constant prices where trends showed to be similar. As would be expected, some economies changed in performance category. For instance, the LDCs went down from being Confirmed performers to Partial performers in the 1996-2002 period, while Canada went from being a Non-performer to a Slow performer in 2002-2007 using constant prices. (see Diagrams 2 and 3 in pp. 33-34, and p.29-30 for category definitions).

- Despite the broad convergence observed among developing countries, there were differences between countries, and also fluctuations in time. Indeed, among the group of developing countries, there were only a few consistent performers. The criteria provided earlier allowed identifying 4 consistent performers, namely 1 manufacture exporter (China) and 3 oil exporters (Azerbaijan, Kazakhstan and Trinidad & Tobago). China increased its exports by 84% thanks to its own export competitivity. As for the 2 CIS countries, both also increased their exports through their own export competitivity. These countries showed very high export growth rates in their predominant exported sectors.
- In addition, a few consistent non-performers were developing countries. Most were manufacture
 exporters (Indonesia, Pakistan and South Africa), and one agriculture exporter (Kenya). These 4
 countries barely followed the global trend to increase their total exports, most especially their
 respective main exported products.
- Non-oil exporting developed countries showed to have poor performance levels compared to the
 developing economies and countries in transition.. The developed countries conspicuously fall
 under the category of consistent non-performer, exhibiting, negative or almost near-zero PERFO
 components. Except for oil-exporting Canada and Norway, the developed countries' export
 growth rates were all consistently lower than the World total exports growth rate.

In most cases, the GEO and the COMPO effects are almost always **SECONDARY CONTRIBUTORS** in changes in total exports. This observation is important because it confirms that in the Post-Uruguay Round period (i.e. 1996-2007), the global economy experienced such structural changes that it was necessary for exporters to adapt their initial export structure by shifting towards new markets and products instead of maintaining their traditional mix of products and markets.

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ANNEX I. METHODOLOGY AND DATA ISSUES

This section further describes the methodology and other data issues encountered during the analysis.

A. AVAILABILITY AND THE USE OF PARTNER STATISTICS

Data in this exercise was primarily from the WTO merchandise trade network, by product, origin and destion, and from the United Nations Comtrade database. One limitation of the data used in this exercise is the use of inverted trade to make up for missing or incomparable data. Such is the case for the LDCs. Out of the 50 LDCs, only 11 countries report data until 2004 and only 20 countries provide time series data with at least 5 consecutive years. Some countries only offer data from 1962 to 1977.

In addition, data reported by some countries do not necessarily comply with international standards as laid out by the United Nations International Merchandise Trade Statistics concepts and Definitions (IMTS, Rev.2). Data vary in coverage as, for example, some countries report only domestic exports. Others do not provide estimates of unrecorded trade, for instance, cross-border and illicit trade. Most of them do not include processing zones in their merchandise trade statistics.

B. VERIFICATION AND VIABILITY OF DATA

Due to the many varied results which came in the form of very high numbers, fluctuations in calculations, changes in the signs of the shift-share results, verification of the data in terms of the formula, the method of deflating, the reliability of deflators, the actual viability of data had to be ensured.

C. STATISTICAL TOOLS

A SAS program was used to perform the mechanical calculations of the 49 reporter countries and the LDC group. Prior to using the program a mock test was done using an Excel spreadsheet to test the results as well as to fine-tune the parameters used for the study. This was especially useful when comparing results using deflated or nominal exports data, classic or dynamic shift-share, as well as comparing results when changing the order of calculation of the market effect (GEO) and the sectoral effect (COMPO).

D. METHODOLOGICAL LIMITATIONS

As mentionned in an earlier section, wWhile SSA proves to be a practical and useful tool in analyzing the past, it also comes with a few limitations.

- Depending on the parameters used, i.e. type of shift-share used, time-period covered, using
 current or constant prices, product group coverage, trading partners coverage, a country may
 show varied results when applying SSA. For instance, nominal figures deflated by commodity
 prices may isolate the effect of sometimes volatile price movements, especially in oil, but
 nevertheless, come up with similar general findings on the leading "performers".
- Given the way the method is calculated, there are certain expected results regarding the GLOBO effect and the PERFO effect. First, the farther above a country's total exports growth rate is from the World's export growth rate, the lower its resulting GLOBO effect, and vice versa. Also, the

higher a country's total exports growth rate, most likely the higher its PERFO effect and the lower its GLOBO effect

- The "decomposing" nature of this method can give an approximate idea of the relational shifts of trade, not so much on the actual quantity of the shifts, but more on where the shifts are attributed to, in what sectors of trade, or with which trading partners.
- The method is very sensitive to small values. Because it primarily works with growth rates, results using units of analysis with small numbers can produce very large growth rates and can make some results quite misleading.
- Unfortunately, this decomposing technique is not meant to provide explanations to results
 generated from the analysis. One can only make assumptions on why certain countries are more
 performant than others, why certain countries are prone not to perform as much as others, or why
 certain countries are more competitive in a particular sector and not at others, with a particular
 region and not with others. Through supporting research can one only come up with meaningful
 interpretations of the results.

ANNEX II: SUPPLEMENTARY TABLES

Table A1. Inverse relationship between the global effect and the countries' total exports' growth rates (Percentage)

	1996-20	002		2002-200	07
Country	%	GLOBO	Country	% change G	GLOBO
Azerbaidjan	243	8	Kazakhstan	394	29
China	116	18	Azerbaijan	384	30
Guatemala	105	19	Serbia and Montenegro	↑ 326 I	36
Costa Rica	89	23	Trinidad Tobago	289	40
Philippines	72	29	Chile	276	42
Algeria	69	29	China	274	42
Mexico	68	30	Peru	262	44
Kazakhstan	64	32	Bolivia	251	46
Sevchelles	64	• 32	Egypt	244	47
Albania	61	I 33	Russian Federation	231	50
Turkey	56	I 36	Algeria	220	I 53
Least developed countries	51	I 40	Albania	215	54
Trinidad Tobago	51	- 40	Suriname	199	58
India	47	43	Turkey	197	I 59
Israel	43	I 47	India	195	
Egypt	33	I 62	Paraguay	194	00
Peru	32	63	Ukraine	174	67
Brazil	26	77	Ecuador	174	67
Bolivia	26	I 78	Brazil	166	I 70
Korea	25	I 81	LDCs	155	56
Canada	25	82	Colombia	152	76
Ukraine	25	• oo		142	82
Tunisia	25	I 83	Uruguay	139	I 84
	25	I 87	Singapore	135	
Serbia and Montenegro	24 22	01	South Africa		
Thailand		- 0-	Norway	129 I	
Norway	22	■ 95	Korea	129	I 90
Russian Federation	21	97	Thailand	126 119	92
World	20 20	l 102	Tunisia Australia	1 !!	
Malaysia					
Indonesia	19	108	Argentina	117	99
Chile	18	114	World	116	101
Iceland	18	117 120	Nicaragua	114	101
EU (27)	17	120	Iceland	114 I	444
Switzerland	15	133	EU (27)	102	
Colombia	12	174	Indonesia	99	117
USA	11	181	Kenya	93	125
Suriname	10	200	New Zealand	00	102
Australia	8	253	Malaysia	87	
Argentina	8	255	Switzerland	87	133
Pakistan	6	322	Barbados	86	135
Kenya	6	327	Israel	84	138
Ecuador	3	659	Pakistan	80 I	145
New Zealand	2	1042	Costa Rica	78	149
South Africa	2	1190	Jamaica	74	156
Japan	1	1418	Japan	71	163
Singapore	0	♦ 16981	Mexico	69	167
Paraguay	-9	-220	USA	68	171
Barbados	-13	-156	Guatemala	66	175
Nicaragua	-15	-136	Canada	66	176
Jamaica	-20	-104	Seychelles	58	200
Uruguay	-22	<u>-91</u>	Philippines	43	267

Source: Authors' calculation based on WTO Statistics and the United Nations Comtrade database.

Note: For some reason, Latin America countries Paraguay, Barbados, Nicaragua, Jamaica Uruguay do not seem to follow this trend.

THE FARTHER ABOVE THE WORLD'S TOTAL EXPORTS GROWTH RATE, THE LOWER A COUNTRY'S GLOBAL EFFECT

Table A2. Average Share of Performance Effects (PERFO) of selected economies, 1996-2007 (Percentage and share)

	% Share	2007	2007/	Country	PERFO
	2007	Value	1996	- Country	Average
		Mil USD	(%)		
	10	1217776	706	China	75
	0	10500	1563	Azerbaijan	72
	0	47755	710	Kazakhstan	69
	0	1202	82	Nicaragua	61
	0	1072	408	Albania	60
	1	107215	365	Turkey	54
	0	9684	426	Serbia and Montenegro	54
	1	145325	334	India	51
💆	0	15100	488	Trinidad Tobago	49
¥	0	27956	379	Peru	49
0	0	4813	343	Bolivia	47
%	1	103496	286	Least developed countries	47
ME	0	9353	236	Costa Rica	43
& &	0	6926	241	Guatemala	40
E >	1	160649	236	Brazil	39
뚭 ^	0	2785	167	Paraguay	37
"PERFORMERS" NGE > WORLD %	1	68296	343	Chile	36
"PERFORMERS" % CH ANGE > WORLD % CHANGE	0	16201	358	Egypt	33
풍	0	4496	88	Uruguay	32
%	0	60163	442	Algeria	31
	0	4772	152	Iceland	30
	1	153533	176	Thailand	26
	0	49248	242	Ukraine	23
	3	355175	301	Russian Federation	21
	0	54065	164	Israel	18
	3	371321	186	Korea	18
	2	271990	184	Mexico	17
	0	55779	134	Argentina	14
	† — — <u>0</u> — — -	- 45 <u>02</u> 9 -	- 1 72 -		9-
	0	450	62	Barbados	-9
	44	5319660	136	EU (27)	-9
	1	176194	125	Malaysia	-13
평	0	50466	146	Philippines	-18
NA	0	29991	182	Colombia	-19
- 등 왕	1	136345	179	Norway	-25
"Non-Performers" HANGE < WORLD % CHANGE	1	141317	135	Australia	-31 -33
ILD	1 0	118014 1400	137 228	Indonesia	-33
G %		172043	116	Suriname Switzerland	-34
₩	1 0	4080	105		-40
4 ^	3	4080 418974	105	Kenya Canada	-40
<u>Š</u> 병	0	26974	91	New Zealand	-59
"Non	10	1162479	87	USA	-65
* `	0	17838	91	Pakistan	-106
0 %	0	1942	40	Jamaica	-112
5	0	13800	182		-115
	0	360	158	Ecuador	-137
	1	69788	139	Seychelles South Africa	-13/
		712769	74	Japan	- <u>2</u> 111
	6 2	298266	139	Singapore	-57/12
	100	12224823	160	Countries above ="World"	10/142
O A	100	1ZZZ40Z3	100	Countries above = WORLD	

Note: Agriculture exporters Nicaragua, Uruguay, Paraguay, Iceland and Argentina do not seem to follow this trend. Countries in bold represent developed countries.

PERFO GETTING SMALLER

PERFO GETTING SMALLER

PERFO GETTING BIGGER

Table A3. Shift-Share Analysis: ALL contribution shares in change in total exports, 1996-2002 (using nominal values) (Percentage)

Country	Main	1996/	PERF	0	GLO	80	COM	IPO					Gl	ΕO				
,	exports	2002							Tota	al	NAX	CSC	EUR	CIS	AFR	MEA	ASI	NES
Azerbaidjan	MI	243	96	MI	8	MI	1	MI	-5	MA	0	0	0	-5	0	1	0	0
Kazakhstan	MI	64	93	MI	32	MI	1	MI	-26	MA	0	0	-2	-23	0	0	-2	0
Guatemala	MA	105	89	MΑ	19	AG	-13	MA	5	AG	11	-6	0	0	0	0	0	0
Costa Rica	MA	89	88	MA	23	AG	-18	MA	7	AG	13	-4	0	0	0	0	0	0
China	MA	116	84	MA	18	MA	1	MA	-2	MI	3	0	0	0	0	0	-5	0
Albania	MA	61	72	MA	33	MA	-3	MA	-2	AG	1	0	-3	0	0	0	0	0
Turkey	MA	56	71	MΑ	36	MA	-4	MA	-3	MI	3	0	-1	-4	0	2	-1	-2
LDCs	MI	51	68	MI	40	MI	-9	MI	1	MI	7	0	-2	-1	1	0	-2	-3
Ukraine	MA	25	67	MI	83	MA	-8	MA	-42	MI	2	-1	-3	-38	0	2	-5	0
Philippines	MA	72	67	MΑ	29	MA	0	MA	4	MA	11	0	-1	0	0	0	-6	0
Algeria	MI	69	64	MI	29	MI	9	MI	-2	AG	4	-1	-4	-1	0	0	0	0
Seychelles	MI	64	63	MI	32	MΑ	-6	MA	11	MA	12	0	0	0	0	1	-2	0
India	MA	47	59	MA	43	MA	-5	MA	3	MA	10	0	-1	-1	0	3	-6	0
Bolivia	MI	26	56	AG	78	МІ	-21	MI	-12	MA	18	-26	-3	0	0	0	0	-1
Peru	MI	32	52	MA	63	MI	-15	MI	0	MI	16	-8	-6	0	0	0	-3	0
Trinidad Tobago	MI	51	48	MI	40	MI	5	MI	6	MI	19	-12	0	0	0	0	0	0
Brazil	MA	26	48	AG	77	MA	-22	MA	-3	AG	19	-16	-2	-1	1	1	-5	-1
Israel	MA	43	48	MA	47	MA	3	MA	2	MA	15	-1	-1	-1	0	0	-5	-4
Serbia & Montenegro	MA	24	45	MA	87	MA	-22	MA	-10	AG	2	0	-7	-6	1	0	0	0
Mexico	MA	68	44	MΑ	30	MA	2	MA	24	MA	26	-2	0	0	0	0	0	0
Thailand	MA	22	32	MA	92	MA	-17	MA	-7	MI	20	-1	-1	0	0	2	-24	-3
Egypt	MA	33	30	MA	62	MI	3	MI	6	MA	7	0	-5	-1	0	5	0	-1
Russian Federation	MI	21	30	MI	97	MI	12	MI	-38	AG	4	-2	-11	-25	0	1	-5	-1
Tunisia	MA	25	24	MA	83	MA	5	MA	-13	AG	1	-1	-6	0	0	1	-2	-6
Korea	MA	25	21	MA	81	MA	7	MA	-9	MI	16	-4	-1	-1	-1	2	-19	0
Norway	MI	22	4	MI	95	MI	9	MI	-8	MA	10	-1	-15	-1	0	0	-2	0
Canada	MA	25	-47	MI	82	MA	-6	MA	70	MA	75	-1	-1	0	0	0	-3	0
WORLD	MI	20																
Jamaica	MI	-20	232	MA	-104	AG	7	AG	-35	AG	-50	5	6	3	-1	0	1	0
Nicaragua	AG	-15	207	MA	-136	MI	93	AG	-64	MI	-84	18	2	0	0	-1	0	0
Barbados	MA	-13	161	MΑ	-156	MI	49	AG	46	MA	-32	61	1	0	0	0	1	15
Uruguay	AG	-22	93	MA	-91	MI	59	AG	39	AG	-9	42	1	1	0	-1	5	1
Iceland	AG	18	74	MI	117	AG	-97	MI	6	AG	23	-4	-6	-2	0	0	-6	0
Argentina	AG	8	55	MI	255	AG	-140	MI	-70	AG	29	-95	-2	-2	8	7	-14	-1
Chile	MI	18	23	AG	114	MI	-32	MI	-4	AG	24	-16	-5	-1	0	1	-5	-1
Paraguay	AG	-9	20	MA	-220	MI	200	AG	100	AG	-13	109	2	0	0	0	2	0
Malaysia	MA	20	8	MA	102	MA	-2	MA	-7	MI	20	-1	-1	0	0	1	-27	0
EU (27)	MA	17	-7	AG	120	MA	-1	MA	-12	AG	9	-2	-8	-2	0	2	-6	-6
Indonesia	MA	19	-7	AG	108	MA	-2	MI	0	MI	18	-1	-1	0	0	2	-17	0
Australia	MI	8	-20	AG	253	MI	-59	MI	-75	MI	18	-2	-4	0	1	2	-34	-56
Kenya	AG	6	-34	MI	327	AG	-216	MA	23	AG	16	0	-5	0	26	7	-14	-6
Switzerland	MA	15	-44	MI	133	MA	14	MA	-3	AG	15	-3	-6	0	-1	4	-11	0
Colombia	MA	12	-62	MΑ	174	MI	-38	MI	26	AG	77	-41	-5	-1	0	0	-3	-3
USA	MA	11	-90	MI	181	MA	-9	MA	18	MA	61	-12	-5	-1	0	3	-28	0
Suriname	MI	10	-97	MI	206	MI	-15	MI	5	MA	62	-18	-20	-10	0	0	-9	0
New Zealand	AG	2	-131	AG	1042	AG	-670	MA	-141	MI	158	-23	-7	-15	10	18	-267	-14
Pakistan	MA	6	-227	MI	322	MA	-14	MA	19	MA	61	-5	-7	-2	2	23	-52	0
Ecuador	AG	3	-366	MA	659	AG	-324	MI	130	AG	300	-125	-16	-18	1	2	-13	-1
South Africa	MA	2	-794	AG	1190	MA	-153		-143	MI	107	-21	-108	-4	-3	17	-47	-84
Japan	MA	1	-1556	AG	1418	MA	171		67	MA	446	-42	-20	-2	-5	23	-333	0
Singapore	MA	0	-17138	AG	16981	MA	1745	MA	-1487	MI	3335	-183	-194	-76	-9	178	-4537	-1

Source: Authors' calculation based on WTO Statistics and the United Nations Comtrade database.

Countries in **bold** represent countries whose sector of maximum effect is PERFO and is also the main exports sector. Figures in **bold** represent maximum effects.

Regions in grey represent regions with least geographical effect.

Sectors in grey represent sectors which are the same as the main exports sector.

EXPORTS GROWING SLOWER THAN

WORLD EXPORTS

PERFO GETTING BIGGER

Table A4. Shift-Share Analysis: ALL contribution shares in change in total exports, 2002-2007 (using nominal values) (Percentage)

Country	Main	2002/	PER	RFO	GLO	OBO	CON	ЛРО					Gl	EO				
,	exports	2007							Tot	al	NAX	CSC	EUR	CIS	AFR	MEA	ASI	NES
China	MA	274	63	MA	42	MA	-4	MI	-1	MI	-5	0	0	1	0	1	1	0
Serbia and Montenegro	MA	326	58	MA	36	MA	1	MI	5	MΑ	0	0	1	4	0	0	0	0
Albania	MA	215	48	MA	54	MA	-5	MI	2	MA	0	0	2	0	0	0	0	1
Peru	MI	262	47	MI	44	MI	13	MI	-4	MA	-4	1	-2	0	0	0	1	0
Kazakhstan	MI	394	46	MI	29	MI	22	MI	2	MA	-2	0	0	2	0	2	1	0
Paraguay	AG	194	46	AG	60	AG	-11	MI	5	AG	-1	6	0	0	0	0	0	0
Chile	MI	276	45	MI	42	MI	13	MI	0	MI	-3	1	0	0	0	0	1	1
Trinidad Tobago	MI	289	44	MI	40	MI	23	MI	-6	AG	-8	1	0	0	0	0	0	0
Bolivia	MI	251	40	MI	46	MI	16	MI	-2	AG	-3	1	-1	0	0	0	0	0
Egypt	MI	244	40	MI	47	MΑ	11	MI	1	MI	-4	0	0	0	1	3	1	0
India	MA	195	39	MI	59	MA	-4	MI	5	MA	-5	0	0	2	1	4	1	1
Azerbaidjan	MI	384	39	MI	30	MI	28	MI	3	MA	0	0	-1	2	0	3	0	0
Turkey	MA	197	38	MA	59	MA	-6	MI	9	MA	-2	0	1	7	1	2	0	-1
Brazil	MA	166	30	MA	70	MA	0	MI	0	AG	-8	3	0	1	1	1	1	0
Uruguay	AG	142	25	AG	82	AG	-14	MI	ı	MA	-4	7	0	1	1	1	0	0
Least developed countries	MI	155	24	MI	56	МІ	21	MI	-1	MI	-4	0	0	0	0	1	2	-1
Thailand	MA	126	19	MA	92	MA	-10	MI	-1	MI	-7	0	0	0	1	2	3	0
Singapore	MA	139	18	MA	84		-3	MI	2	MI	-5	1	0	0	0	1	5	0
Korea	MA	129	16	MA	90		-7	MI	1	MI	-8	1	1	2	1	2	4	0
Ecuador	MI	174	16	MI	67		21	MI		MA	-9	1	0	2	0	0	1	0
Russian Federation	MI	231	15	MI	50	MI	29	MI		MA	-1	0	-1	6	0	1	1	0
Colombia	MA	152	8	MA	76		21	MI	l	MA	-12	6	0	0	0	1	0	0
Suriname	MI	199	1	AG	58	MI	46	MI	l	MA	-5	0	-1	0	0	0	0	0
Ukraine	MA	174	1	MA	67		4	MI	ı	MA	-1	0	0	25	1	2	1	0
Algeria	MI	220	-2	AG	53	MI	53	MI	l	MA	-3	0	-1	0	0	0	0	0
Tunisia	MA	119	-2	AG	98		-2	MI		MA	0	0	2	0	3	1	0	-1
South Africa	MA	135	-5	MA	86		14	MI	l	MA	-4	0	-1	0	4	1	4	0
Argentina	AG	117	-12	AG	99	AG	7	MI		MA	-5	6	0	1	1	1	0	0
Australia	MI	117	-37	MA	99	MI	30	MI	9	MI	-4	0	0	0	1	3	8	0
Norway	MI	129	-44	AG	90		57	MI	l	MA	-4	0	-2	1	0	0	1	0
WORLD	MI	116					-									-	·	-
Nicaragua	AG	114	10	AG	101	AG	-13	MI	1	MA	-10	9	0	2	0	0	0	0
Iceland	AG	114	-5	MA	102		5	MI		MA	-4	0	1	1	1	0	0	0
Israel	MA	84	-10	AG	138		-15	MI	-13	MI	-23	1	1	4	1	0	2	0
Mexico	MA	69	-10	AG	167		-4	MI	l	AG	-55	2	0	0	0	0	0	-1
EU (27)	MA	102	-10	AG	114		-9	MI		MA	-4	1	2	4	1	1	1	0
Costa Rica	MA	78	-11	MI	149			MI	-17	MI	-28	9	1	0	0	0	1	0
New Zealand	AG	88		AG		AG	-15	MI		MI	-8	0	1	0	1	1	3	1
Guatemala	MA	66		AG		MA	-20	MI		MI	-45	9	0	1	0	1	0	0
Malaysia	MA	87	-27	AG		MA	-5	MI	ı	MI	-11	0	1	0	1	1	7	0
Switzerland	MA	87	-27	AG		MA	-10	MI	ı	MA	-7	1	3	2	1	2	2	0
Canada	MA	66	-29	AG		MA	8	MI	-55		-57	0	0	0	0	0	0	0
Pakistan	MA	80	-31	MI		MA	-18	MI		MI	-15	1	2	1	3	10	2	0
Japan	MA	71	-35	MI		MA	-20	MI	ı	MI	-20	1	1	1	1	2	6	0
USA	MA	68	-42	MI		MA	-18	MI	-11	MI	-24	4	1	2	1	2	3	0
Kenya	AG	93	-43	MA		AG	7	MI	12	MI	-24	0	1	0	14	1	0	0
Indonesia	MA	99	-43 -46	AG		MA	23	MI		MI	-6	0	0	0	14	2	9	0
Barbados	MA	99 86	-46 -61	MA		MA	15	MI		MA	-6 -8	16	1	0	0	0	0	1
Philippines	MA	43		MI		MA	-30	MI		MI	-27	0	2	0	0	1	11	0
Jamaica	MI	43 74		MA	156		-30 98	MI	-18		-21	2	-1	0	1	0	11	
					l .				ı							_		1
Seychelles	AG	58	-451	AG	200	MI	179	MI	172	MI	-2	0	0	0	1	174	-1	0

Source: Authors' calculation based on WTO Statistics and the United Nations Comtrade database.

Countries in bold represent countries whose sector of maximum effect is PERFO and is the main exports sector. Figures in **bold** represent maximum effects.

Regions in grey represent regions with least geographical effect.
Sectors in grey represent sectors which are the same as the main exports sector.

Table A5. Contribution shares in change in total exports of Performers and non-Performers, 1996-2002 (current prices) (Percentage)

		Main	2002	Sha	re in	Тота	VI	_		_				_	
Country	Product	X 2002	/ 1996	1996	2002	CHAN		PERFO)	GLO	30	Con	IPO	GEO	
		2002	1770			Consiste	nt Per	formers							
Confirmed:	(CC)														
Azerbaijan	Total	MI	243	100	100	100	MI	96	MI	8	MI	1	MI	-5	MI
	AG		15	13	4	1		2		1		-1		-1	
	MI		356	68	90	99		95		6		2		-4	
	MA		-17	20	5	-1		-3		2		0		0	
Kazakhstan	Total	MI	64	100	100	100	MI	93	MI	32	MI	1	MI	-26	MI
	AG		-32	15	6	-8		-1		5		-5		-6	
	MI		136 -24	53	76	112		106 -20		17 10		5		-16	
China	MA Total	MA	-24 116	32 100	15 100	-12 100	MA	-20 <i>84</i>	MA	18	MA	2 1	MA	-4 -2	MA
Cillia	AG	IVIA	26	100	6	2	IVIA	3	IVIA	2	IVIA	-2	IVIA	-2 -1	IVIA
	MI		57	6	4	3		1		1		0		0	
	MA		130	84	90	95		79		15		2		-2	
Trinidad T.	Total	MI	51	100	100	100	MI	48	MI	40	MI	5	MI	6	MI
mada i.	AG		18	8	7	3		4		3		-4		-1	
	MI		80	51	60	79		49		20		6		4	
	MA		22	41	33	18		-5		16		2		3	
Partial: (CP)								-		-					
Ukraine	Total	MA	25	100	100	100	MA	67	MI	83	MA	-8	AG	-42	AG
	AG		-7	20	15	-6		14		17		-19		-18	
	MI		77	13	18	39		32		10		3		-7	
	MA		24	66	66	65		18		55		8		-17	
Bolivia	Total	MI	26	100	100	100	MI	56	AG	<i>78</i>	MI	-21	AG	-12	AG
	AG		11	38	34	17		30		30		-34		-9	
	MI		21	45	44	36		-8		35		11		-3	
	MA		25	16	16	15		2		12		2		-1	
Brazil	Total	MA	26	100	100	100	MA	48	AG	77	MA	-22	AG	-3	MA
	AG		20	34	32	25		27		26		-30		2	
	MI		58	11	14	24		13		8		3		0	
Theiland	MA		24	53	52	48	N / A	6	N 1 A	41	1.4.0	6 17	۸.	-5 -7	1.1.0
Thailand	Total	MA	22	100	100	100	MA	32	MA	<i>92</i>	MA	-17	AG		MA
	AG MI		-11 98	25 2	18 4	-13 10		-9 7		23 2		-26 1		0	
	MA		96 28	71	75	89		22		65		10		-8	
Egypt	Total	MA	33	100	100	100	MA	30	MA	62	MI	3	MI	-o 6	MA
Едурі	AG	IVIA	50	15	17	22	IVIA	23	IVIA	9	IVII	-10	IVII	1	IVIA
	MI		-17	54	34	-27		-71		33		11		1	
	MA		76	32	42	72		46		19		3		4	
Russian F.	Total	MI	21	100	100	100	MI	30	MI	97	MI	12	MI	-38	MI
. 1000.0	AG		29	8	8	11	••••	14		7		-8	••••	-3	
	MI		29	58	62	82		34		57		18		-27	
	MA		1	30	25	1		-25		29		4		-7	
Korea	Total	MA	25	100	100	100	MA	21	MA	81	MA	7	MA	-9	MA
	AG		-12	3	2	-2		0		3		-3		-1	
	MI		73	4	5	11		7		3		1		0	
	MA		29	89	92	104		29		72		11		-8	
World	Total		20	100	100										
	AG		-3	12	9										
	MI		27	12	13										
	MA		23	74	75										
O	001:					Occasion	nal Pei	rtormers							
Confirmed (NAA	105	100	100	100	N / A	00	MA	40	۸.	12	^^	Е	۸.۰
Guatemala	Total	MA	105	100	100	100	MA	89	MA	19	AG	-13	AG	5	AG

Table A5. Contribution shares in change in total exports of Performers and non-Performers, 1996-2002 (current prices) *(continued)* (Percentage)

		Main	2002	Sha	re in	Tota									
Country	Product	X 2002	/ 1996	1996	2002	CHAN		PERFO)	GLOE	30	Сом	IPO	GEO	
	AG	2002	-7	66	30	-4		-10		13		-15		8	
	MI		147	4	5	5		4		1		0		0	
	MA		243	31	51	71		67		6		1		-3	
Costa Rica	Total	MA	89	100	100	100	MA	88	MA	23	AG	-18	AG	7	AG
	AG		-9	72	35	-7		-14		17		-19		9	
	MI		68	2 25	2	2		1		0		0		0	
Albania	MA Total	MA	373 61	100	63 100	106 100	MA	101 <i>72</i>	MA	6 33	MA	1 -3	AG	-2 -2	MA
Alballia	AG	IVIA	-22	20	100	-7	IVIA	-6	IVIA	33 7	IVIA	-3 -8	AG	0	IVIA
	MI		-42	15	5	-10		-15		5		2		-1	
	MA		102	65	81	108		85		22		3		-1	
Turkey	Total	MA	56	100	100	100	MA	71	MA	36	MA	-4	AG	-3	MA
,	AG		-21	21	11	-8		-6		8		-9		0	
	MI		44	4	4	3		2		2		0		0	
	MA		75	74	83	98		69		27		4		-2	
LDCs	Total	MI	51	100	100	100	MI	68	MI	40	MI	-9	MI	1	MI
	AG		7	29	20	4		6		11		-13		0	
	MI		88	33	41	57		37		13		4		3	
Distriction	MA	844	87	28	35	48		33		11		2		1	
Philippines	Total	MA	72 -13	100 11	100	100 -2	MA	<i>67</i> -3	MA	29	MA	0	MA	4	MA
	AG MI		-13 -10	5	6 3	- <u>-</u> 2 -1		-3 -3		3 1		-4 0		1	
	MA		89	83	91	103		-3 73		24		4		3	
Algeria	Total	MI	69	100	100	100	MI	64	MI	29	MI	9	MI	-2	MI
rugeria	AG	1411	-67	1	0	-1	1411	-1	IVII	0	1411	0	1411	0	1411
	MI		76	94	97	103		67		28		9		-1	
	MA		-19	5	2	-1		-3		2		0		-1	
Seychelles	Total	MI	64	100	100	100	MI	63	MI	32	MA	-6	AG	11	MA
	AG		-36	30	12	-17		-15		10		-11		-1	
	MI		558	22	88	193		182		7		2		1	
	MA		-100	48	0	-76		-104		15		2		11	
India	Total	MA	47	100	100	100	MA	59	MA	43	MA	-5	AG	3	MA
	AG		-7	21	13	-3		-2		9		-10		0	
	MI MA		123 52	5 72	8 74	13 80		11 41		2 31		1		0	
Israel	Total	MA	43	100	100	100	MA	48	MA	47	MA	5 3	MA	3 2	MA
isiaei	AG	IVIA	-10	7	4	-2	IVIA	-1	IVIA	3	IVIA	-4	IVIA	0	IVIA
	MI		155	2	3	6		5		1		0		0	
	MA		45	91	92	95		43		43		6		3	
Mexico	Total	MA	68	100	100	100	MA	44	MA	30	MA	2	MA	24	MA
	AG		23	8	6	3		1		2		-3		2	
	MI		21	14	10	4		-4		4		1		2	
	MA		81	78	84	93		47		23		3		19	
Partial (OP):				100	400										
Peru	Total	MI	32	100	100	100	MI	52	MA	<i>63</i>	MI	-15	AG	0	AG
	AG MI		9 17	31 44	25 39	9		11 -16		20 28		-22		1	
	MI MA		52	14	39 16	23 23		-16 12		20 9		9 1		1	
Serbia M.	Total	MA	24	100	100	100	MA	45	MA	<i>87</i>	MA	-22	AG	-10	MA
JOI DIG IVI.	AG	IVI/7	4	32	27	6	IVIA	11	IVIZ	28	IVI/~	-32	,10	-10	IVIA
	MI		14	17	16	10		-6		15		5		-3	
	MA		44	49	57	92		49		42		6		-5	
Tunisia	Total	MA	25	100	100	100	MA	24	MA	83	MA	5	MA	-13	MA
	AG		8	8	7	3		3		7		-8		0	
	MI		13	12	11	6		-5		10		3		-1	
	MA		27	80	82	89		24		66		10		-12	
Norway	Total	MI	22	100	100	100	MI	4	MI	95	MI	9	MI	-8	MI

Table A5. Contribution shares in change in total exports of Performers and non-Performers, 1996-2002 (current prices) *(continued)* (Percentage)

		Main	2002	Sha	re in	TOTA									
Country	Product	X 2002	/ 1996	1996	2002	CHAN		PERFO)	GLO	30	Con	IPO	GEO	
	AG	2002	0	9	7	0		2		8		-10		-1	
	MI		32	62	67	90		17		58		19		-4	
Class (OC)	MA		14	23	21	15		-9		22		3			
Slow (OS): Jamaica	Total	MI	-20	100	100	100	MA	232	MA	-104	MI	7	AG	-35	MA
Jamaica	AG	IVII	-24	24	22	29	IVIA	33	IVI/A	-25	1911	28	70	-8	IVI/A
	MI		7	50	67	-17		60		-52		-17		-8	
	MA		-71	26	9	94		145		-27		-4		-19	
Nicaragua	Total	AG	-15	100	100	100	MA	207	MA	-136	AG	93	AG	-64	AG
	AG MI		-8 185	64 2	69 5	35 -19		62 -17		-87 -2		100 -1		-39 0	
	MA		-49	33	20	109		183		-2 -45		-1 -7		-22	
Barbados	Total	MA	-13	100	100	100	AG	161	MA	-156	MA	49	AG	46	MA
	AG		-29	38	31	82		60		-59		67		14	
	MI		47	14	23	-49		-35		-21		-7		14	
	MA		-21	48	44	78		146		-75		-11		19	
Iceland	Total	AG	18	100	100	100	MI	74	MI	117	AG	-97	AG	6	AG
	AG MI		0 117	77 11	65 20	-1 72		3 58		90 12		-103 4		9	
	MA		43	11	14	28		14		13		2		-3 -2	
Argentina	Total	AG	8	100	100	100	MI	55	MI	255	AG	-140	AG	-70	MA
J	AG		-9	56	47	-60		-25		142		-163		-14	
	MI		60	14	21	105		73		36		11		-15	
0. "	MA		9	30	30	35		-12		77		11		-41	
Chile	Total	MI	18	100	100	100	AG	23	AG	114	MI	-32	AG	-4	MA
	AG MI		15 5	37 45	36 40	30 12		35 -57		42 51		-48 16		1	
	MA		39	13	15	28		-57 18		15		2		-7	
Paraguay	Total	AG	-9	100	100	100	AG	20	MA	-220	AG	200	AG	100	AG
0 ,	AG		-7	82	85	58		-45		-180		206		78	
	MI		-15	1	1	1		3		-2		-1		1	
	MA		-22	17	15	40		63		-37		-6		20	
Malaysia	Total	MA	20	100 14	100 10	100	MA	8	MA	102	MA	-2	AG	-7 -2	MA
	AG MI		-16 23	9	9	-11 11		-7 -3		14 9		-16 3		- <u>-</u> 2	
	MA		26	76	80	99		16		77		11		-6	
							Perfori							<u>_</u>	
Consistent (CN):														
EU (27)	Total	MA	17	100	100	100	MA	-7	MA	120	MA	-1	AG	-12	MA
	AG MI		-2 24	11 5	10	-2 8		1		14 7		-16		-1 -1	
	MA		20	80	6 83	94		0 -8		96		2 14		-1 -8	
Indonesia	Total	MA	19	100	100	100	MA	-5 -7	MI	108	MA	-2	AG	0	MI
	AG		10	17	16	9		11		18		-21		1	••••
	MI		12	32	30	19		-29		34		11		3	
	MA		25	51	54	69		9		56		8		-4	
Australia	Total	MI	8	100	100	100	MI	-20	MA	253	MI	-59	AG	-75	AG
	AG		-5	29	26	-18		34		75		-85		-42	
	MI MA		23 -1	35 27	40 24	98 -4		-7 -61		88 68		28 10		-11 -21	
Kenya	Total	AG	6	100	100	100	MI	-34	AG	327	AG	-216	AG	23	AG
. torry a	AG	, .0	-10	64	54	-105	1411	-122	, .0	208	, .0	-238	, .0	46	, .0
	MI		111	10	19	173		129		32		10		2	
	MA		5	26	26	20		-53		86		13		-25	
Switzerland	Total	MA	15	100	100	100	MA	-44	MA	133	MA	14	MA	-3	MA
	AG		-5 152	4	3 6	-1 26		-1 21		5		-5 1		0	
	MI		152	3	b	26		21		3		1		0	

Table A5. Contribution shares in change in total exports of Performers and non-Performers, 1996-2002 (current prices) (continued) (Percentage)

		Main	2002	Sha	re in	Tota	vi								
Country	Product	Х	100/	1996	2002	CHAN		Perf)	GLO	30	Con	IPO	GEO	
,	MA	2002	1996 12	94	91	75		-66		125		19		-3	
Canada	Total	MA	25	100	100	100	MA	-00 -47	MA	82	MA	-6	AG	-3 70	MA
Cariada	AG	IVIZ	0	16	13	0	IVIZ	-8	IVIZ	13	IVIA	-15	٨٥	10	IVIZ
	MI		28	17	17	19		-6		14		4		7	
	MA		27	62	63	68		-34		51		8		43	
USA	Total	MA	11	100	100	100	MA	-90	MA	181	MA	-9	AG	18	MA
	AG		-16	13	10	-19		-16		24		-27		1	
	MI		-3	4	4	-1		-12		7		2		1	
	MA		18	78	82	123		-50		141		21		11	
New	Total	AG	2	100	100	100	MA	-131	MA	1042	AG	-670	AG	-141	MA
Zealand	AG		-2	61	59	-58		76		633		-724		-44	
	MI		-12	7	6	-41		-139		69		22		8	
	MA		2	30	30	36		-229		312		46		-93	
Pakistan	Total	MA	6	100	100	100	MA	-227	MA	322	MA	-14	AG	19	MA
	AG		-15	15	12	-34		-31		48		-55		4	
	MI		130	1	2	20		16		3		1		0	
	MA		8	84	85	109		-217		270		40		15	
South	Total	MA	2	100	100	100	MA	-794	MI	1190	MA	-153	AG	-143	MA
Africa	AG		-5	14	13	-36		-28		162		-185		15	
	MI		13	24	27	186		-218		289		92		23	
	MA		13	41	45	313		-201		482		72		-40	
Japan	Total	MA	1	100	100	100	MI	-1556	MA	1418	MA	171	MA	67	MA
•	AG		3	1	1	2		6		15		-17		-2	
	MI		7	2	2	8		-24		22		7		3	
	MA		-1	95	93	-37		-1617		1345		200		35	
Occasional	(ON):														
Uruguay	Total	AG	-22	100	100	100	AG	93	MA	-91	AG	59	AG	39	AG
	AG		-23	62	61	64		36		-57		65		20	
	MI		-44	2	1	3		5		-2		-1		1	
	MA		-22	36	36	35		54		-33		-5		19	
Colombia	Total	MA	12	100	100	100	MA	-62	MI	174	MI	-38	AG	26	AG
	AG		-15	32	25	-40		-53		56		-64		21	
	MI		12	37	37	39		-64		64		20		19	
_	MA		43	29	38	109		68		51		8		-19	
Suriname	Total	MI	10	100	100	100	MI	-97	MA	206	MI	-15	AG	5	MA
	AG		-11	23	19	-25		0		48		-55		-18	
	MI		26	69	80	184		1		143		46		-6	
_	MA		-8	2	1	-1		-6		3		0		1	
Ecuador	Total	AG	3	100	100	100	MI	-366	MI	659	AG	-324	AG	130	AG
	AG		-4	53	49	-73		-155		349		-399		132	
	MI		16	37	41	190		-163		241		77		36	
0:	MA		23	8	9	58		29		52		8		-31	
Singapore	Total	MA	0	100	100	100	MA	-17138	MA	16981	MA	1745	MA	-1487	MA
	AG		-40	4	3	-1477		-1177		759		-867		-192	
	MI		-21	11	9	-1927		-4506		1876		598		105	
	MA		1	83	85	1005		-13801		14164		2107		-1465	

Note: Total effects also include effects from non-specified products which are not shown in this table.

egend: Grey cells indicate the maximum contribution share to total change in exports.

Table A6. Contribution shares in change in total exports of Performers and non-Performers, 2002-2007 (current prices) (Percentage)

Country	Product	MainX	2007/	Shar Tot			ΓAL	Per	FΟ	GLO)BO	Con	ЛРO	Gı	FΟ
		2007	2002	2002	2007	Сна	NGE	1 210		OLO	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0011	0	Ö	
					Cons	sistent	Perforr	ners							
Confirmed (CC):														
China	Total	MA	274	100	100	100	MA	63	MA	42	MA	-4	MA	-1	MA
	AG		107	6	3	2		0		2		0		0	
	MI		209	4	3	3		-1		2		2		0	
	MA		288	90	93	94		63				-5		-1	
Kazakhstan	Total	MI	394	100	100	100	MI	46	MI	29	MI	22	MI	2	MA
	AG		164	6	3	3		0		2		0		1	
	MI	MI	449	76	84	86		43		22		23		-2	
	MA		255	15	11	10		3				-1		3	
Trinidad T.	Total	MI	289	100	100	100	MI	44	MI	40	MI	23	MI	-6	MI
	AG		53	7	3	1		-1		3		-1		0	
	MI	MI	344	60	69	72		28		24		25		-5	
	MA		235	33	28	27		17		00		-2		-2	
Azerbaijan	Total	MI	384	100	100	100	MI	39	MI	30	MI	28	MI	3	MA
	AG		487	4	5	5		4		1		0		1	
	MI	MI	373	90	88	87		31		27		28		1	
Dardial (CD)	MA		276	5	4	3		1				0		1	
Partial (CP):	Tatal	MI	054	100	100	100	MI	40	MI	46	MI	16	MI	-2	MI
Bolivia	Total	IVII	251 70	34	16	9	IVII	40 -4	IVII	4 6 16	IVII	-3	IVII		IVII
	AG MI	MI	498	34 44	74	86		-4 47		20		-3 21		1 -1	
	MA	IVII	490 52	44 16	74 7	3		47 -2		20		-1		-1 -1	
Eaunt	Total	MI	244	100	100	100	MI	-2 40	MI	47	MA	11	MI	1	MI
Egypt	AG	IVII	102	17	100	7	IVII	0	IVII	8	IVIA	-2	IVII	1	IVII
	MI	MI	531	34	61	73		39		16		- <u>-</u> 17		1	
	MA	IVII	131	42	28	22		4		10		-3		1	
Brazil	Total	MA	166	100	100	100	MA	30	MA	70	MA	0	MA	Ó	AG
DIUZII	AG	IVI/ \	152	32	30	29	1717	10	1417 (22	IVI/ X	-5	1717	1	710
	MI		291	14	20	24		4		10		10		0	
	MA		143	52	47	44		16		10		-5		-2	
Thailand	Total	MA	126	100	100	100	MA	19	MA	92	MA	-10	MA	-1	MΑ
TTAILATTA	AG	.,,,	101	18	16	15	1417 (2	1117	17		-3		-1	
	MI		271	4	6	8		0		3		4		1	
	MA		129	75	76	77		19		-		-10		-1	
Korea	Total	MA	129	100	100	100	MA	16	MA	90	MA	-7	MA	1	MI
	AG		63	2	2	1		0		2		0		0	
	MI		290	5	9	12		1		5		5		1	
	MA		122	92	89	87		16				-12		0	
Russian F.	Total	MI	231	100	100	100	MI	15	MI	50	MI	29	MI	6	MA
	AG		169	8	7	6		2		4		-1		0	
	MI	MI	284	62	73	77		15		31		33		-2	
	MA		162	25	19	17		0				-2		7	
Ukraine	Total	MA	174	100	100	100	MA	1	MA	67	MA	4	MI	29	MA
	AG		154	15	14	13		2		10		-2		3	
	MI		76	18	11	8		-16		12		12		-1	
	MA		200	66	72	76		12				-6		26	
World	Total		116	100	100										
	AG		92	9	8										
	MI		236	13	20										
	MA		100	75	70										
				_	Occa	sional	Perforr	ners							

Table A6. Contribution shares in change in total exports of Performers and non-Performers, 2002-2007 (current prices) *(continued)* (Percentage)

Country	Product	MainX 2007	2007/ 2002		re in Ital 2007		TAL NGE	Per	FO	GLO	ВО	Con	ИРО	Gı	E 0
Serbia M.	Total	MA	326	100	100	100	MA	58	MA	36	MA	1	MI	5	MA
	AG		208	27	20	17		9		10		-2		0	
	MI		252	16	13	12		1		6		6		0	
	MA		396	57	67	69		47				-3		5	
Peru	Total	MI	262	100	100	100	MI	47	MI	44	MI	13	MI	-4	MI
	AG		114	25	15	11		3		11		-2		-1	
	MI	MI	437	39	58	65		31		17		18		-1	
	MA		165	16	12	10		4				-1		0	
Chile	Total	MI	276	100	100	100	MI	45	MI	42	MI	13	MI	0	MI
	AG		108	36	20	14		3		15		-3		-1	
	MI	MI	499	40	64	72		38		17		17		1	
	MA		135	15	10	8		2				-1		0	
Partial (OP):															
Albania	Total	MA	215	100	100	100	MA	48	MA	54	MA	-5	MA	2	MA
	AG		184	10	9	8		4		5		-1		0	
	MI		726	5	14	18		12		3		3		0	
	MA		173	81	71	65		26				-6		2	
Paraguay	Total	AG	194	100	100	100	AG	46	AG	60	AG	-11	AG	5	AG
	AG		195	85	85	85		40		50		-10		4	
	MI		163	1	1	1		0		1		1		0	
	MA		172	15	13	13		4				-1		1	
India	Total	MA	195	100	100	100	MA	39	MI	<i>59</i>	MA	-4	MA	5	MA
	AG		145	13	11	10		3		8		-2		0	
	MI		825	8	24	33		22		5		5		1	
	MA		152	74	64	58		17				-6		3	
Turkey	Total	MA	197	100	100	100	MA	38	MA	<i>59</i>	MA	-6	MA	9	MA
	AG		168	11	10	9		4		6		-1		1	
	MI		467	4	7	9		4		2		2		0	
	MA		191	83	81	80		31				-7		8	
Uruguay	Total	AG	142	100	100	100	AG	25	AG	82	AG	-14	AG	6	MA
	AG		151	61	64	65		23		50		-10		3	
	MI		865	1	5	8		6		1		1		0	
	MA		97	36	30	25		-4				-4		4	
LDCs	Total	MI	155	100	100	100	MI	24	MI	56	MI	21	MI	-1	MI
	AG		57	20	13	7		0		11		-3		0	
	MI	MI	296	41	64	79		27		23		28		0	
	MA		65	35	22	15		0				-3		-2	
Singapore	Total	MA	139	100	100	100	MA	18	MA	84	MA	-3	MA	2	MI
	AG		76	3	2	1		0		2		0		0	
	MI		320	9	15	20		4		7		8		2	
	MA		119	85	77	72		12				-10		0	
Ecuador	Total	MI	174	100	100	100	MI	16	MI	67	AG	21	MI	-3	MI
	AG		71	49	31	20		-6		33		-7		0	
	MI	MI	305	41	61	72		20		27		28		-4	
	MA		130	9	8	7		0				-1		1	
Colombia	Total	MA	152	100	100	100	MA	8	MA	76	MA	21	MI	-5	MI
	AG		101	25	20	16		3		19		-4		-2	
	MI		165	37	39	40		-11		28		29		-6	
	MA		162	38	39	40		12				-4		3	
Suriname	Total	MI	199	100	100	100	MI	1	AG	58	MI	46	MI	-6	MI
	AG		199	19	19	19		11		11		-2		0	
	MI	MI	199	80	80	80		-10		47		48		-5	
	MA		199	1	1	1		1				0		0	
Slow (OS):															
Nicaragua	Total	AG	114	100	100	100	AG	10	AG	101	AG	-13	AG	1	MA
	AG		138	69	77	84		27		70		-14		1	

Table A6. Contribution shares in change in total exports of Performers and non-Performers, 2002-2007 (current prices) *(continued)* (Percentage)

Country	Product	MainX 2007	2007/ 2002	Shar To 2002	re in tal 2007		TAL	PER	RFO	GLO	ВО	Con	ЛРО	G	EO
	MI		18	5	3	1		-9		5		5		-1	
	MA		34	20	12 N	6 on-Per	former	-15				-3		4	
Consistent	(CN):				- 14	OII I CI	TOTTICE	,							
South	Total	MA	135	100	100	100	MI	-5	AG	86	MA	14	MI	6	MA
Africa	AG		52	13	8	5		-4		11		-2		0	
	MI		241	27	39	48		0		23		24		1	
EU (27)	MA Total	MA	137 102	45 100	46 100	46 100	MA	9 -10	MA	114	MA	-5 -9	MA	4 5	MA
LU (21)	AG	IVIA	93	100	9	9	IVIA	0	IVIA	11	IVIA	-9 -2	IVIA	0	IVIA
	MI		214	6	9	12		-1		7		7		Ö	
	MA		95	83	80	77		-9				-13		5	
New	Total	AG	88	100	100	100	AG	-16	MA	132	AG	-15	AG	-1	AG
Zealand	AG		88	59	59	59		2		77		-16		-4	
	MI		198	6	9	13		-4		8		8		1	
	MA		72	30	28	25		-9		Ū		-6		-1	
Switzerland	Total	MA	87	100	100	100	MA	-27	MA	133	MA	-10	MA	4	MA
	AG		124	3	3	4		1		4		-1		0	
	MI		94	6	6	6		-9		8		8		0	
Canada	MA Total	MA	85 66	91 100	90 100	89 100	MI	-19 -29	MA	176	MA	-17 8	MI	-55	MA
Carlaua	AG	IVIA	49	13	12	100	IVII	-29 -4	IVIA	23	IVIA	-5	IVII	-33 -4	IVIA
	MI		187	17	29	48		-4		30		31		-8	
	MA		42	63	54	40		-19				-15		-37	
Pakistan	Total	MA	80	100	100	100	MA	-31	MA	145	MA	-18	MA	4	MI
	AG		94 467	12 2	13 7	14 12		-1 -		18 3		-4 3		2	
	MI MA		46 <i>7</i> 69	85	80	73		5 -33		3		ა -17		2	
Japan	Total	MA	71	100	100	100	MA	-35	MA	163	MA	-20	MA	-8	MA
	AG		69	1	1	1		0		2		0		0	
	MI		288	2	4	7		_1		3		3		0	
A:	MA		65	93	90	85		-37		20		-21		-9	
Australia	Total AG	MI	117 46	100 26	100 17	100 10	MI	-37 -9	MI	<i>99</i> 26	MI	30 -5	MI	9 -1	MI
	MI	MI	201	40	55	68		-9 -17		39		-5 41		6	
	MA		71	24	19	15		-7		00		-3		1	
USA	Total	MA	68	100	100	100	MA	-42	MA	171	MA	-18	MA	-11	MA
	AG		65	10	10	10		-3		17		-3		-1	
	MI		241	4	7	13		1		6		6		-1	
Kenya	MA Total	AG	59 93	82 100	78 100	72 100	AG	-41 -43	MI	125	AG	-20 7	MI	-9 12	MI
Ronya	AG	/.0	98	54	55	57	710	1	1411	67	710	-14	1411	3	1411
	MI		-39	19	6	-8		-64		24		25		6	
	MA		176	26	37	49		18				-5		3	
Indonesia	Total	MA	99	100	100	100	MI	-46	MI	117	MA	23	MI	6	MI
	AG MI		164 144	16 30	21 36	26 43		12 -33		18 34		-4 36		-1 6	
	MA		56	54	42	30		-33 -24		J 4		-9		1	
Occasional		1		<u> </u>										<u> </u>	
Algeria	Total	MI	220	100	100	100	MI	-2	MI	53	MI	53	MI	-4	MI
	AG		84	0	0	0		0		0		0		0	
	MI	MI	222	97	98	98		-2		51		53		-4	
Tunisia	MA Total	MA	67 119	2 100	1 100	1 100	MA	-1 -2	MA	98	MA	0 -2	MA	0 6	MA
ı uı iləla	iolai	IVIZ	210	7	100	12	IVI/~\	6	IVI	70	IVI	-2 -1	IVI	U	IVI

Table A6. Contribution shares in change in total exports of Performers and non-Performers, 2002-2007 (current prices) *(continued)* (Percentage)

Country	Product	MainX 2007	2007/ 2002	Share Tot 2002		То ⁻ Сна	TAL NGE	PER	RFO	GLO	ВО	Cor	MPO	Gı	ΕO
	MI		289	11	20	27		5		11		11		0	
	MA		89	82	71	61		-13				-11		5	
Iceland	Total	AG	114	100	100	100	MA	-5	AG	102	AG	5	MI	-1	MI
	AG	,	43	65	44	25		-28	, .•	66		-14	••••	-1	••••
	MI		208	20	29	36		-4		20		21		-1	
	MA		310	14	27	38		26				-2		0	
Israel	Total	MA	84	100	100	100	MA	-10	MA	138	MA	-15	MA	-13	MA
	AG		78	4	4	4		-1		6		-1		0	
	MI		172	3	5	6		-2		4		4		0	
	MA		78	92	89	86		-10				-18		-13	
Mexico	Total	MA	69	100	100	100	MA	-10	MA	167	MA	-4	MA	-53	MA
	AG		75	6	6	6		1		9		-2		-2	
	MI		209	10	18	30		0		17		17		-4	
	MA		51	84	75	62		-12				-20		-47	
Costa Rica	Total	MA	78	100	100	100	MA	-11	AG	149	MA	-21	MA	-17	MA
	AG		69	35	33	31		-5		52		-11		-5	
	MI		119	2	2	3		-2		3		3		-1	
	MA		82	63	65	66		-4				-13		-11	
Argentina	Total	AG	117	100	100	100	AG	-12	MI	99	AG	7	MI	5	MA
	AG		137	47	52	55		16		47		-10		2	
	MI		53	21	15	10		-31		21		21		-2	
	MA		120	30	31	31		1				-4		5	
Guatemala	Total	MA	66	100	100	100	AG	-20	MA	175	MA	-20	MA	-35	MA
	AG		129	30	41	58		20		52		-11		-3	
	MI		231	5	9	16		2		8		8		-2	
	MA		61	51	50	48		-12		400		-13		-18	
Malaysia	Total	MA	87	100	100	100	MA	-27	MA	133	MA	-5	MA	-1	MA
	AG		125	10	12 16	14		4 -5		13 13		-3 13		0	
	MI		212 67	9	-	23 61		-5 -26		13		-15		2	
Nonvov	MA Total	MI	129	80 100	71 100	100	MI	-20 -44	MI	90	MI	-15 57	MI	-4 -3	MI
Norway	Total AG	IVII	72	7	6	4	IVII	- 44 -2	IVII	90 7	MI	-1	IVII	-s 0	IVII
	MI	MI	149	67	73	77		-2 -41		60		62		-4	
	MA	IVII	92	21	18	15		- 4 1		00		-3		1	
Barbados	Total	MA	86	100	100	100	MA	-61	AG	135	MA	15	MI	11	MA
Darbados	AG	IVIZ	13	31	19	5	IVIA	-29	70	42	IVIZ	-9	IVII	0	IVIZ
	MI		158	23	32	43		-22		31		32		1	
	MA		106	44	49	54		-7		٥,		-8		10	
Philippines	Total	MA	43	100	100	100	MA	-124	MA	267	MA	-30	MA	-13	MA
	AG		54	6	6	7	1	-4		15		-3		-1	1
	MI		314	3	8	19		3		7		7		1	
	MA		34	91	85	71		-126		•		-34		-13	
Jamaica	Total	MI	74	100	100	100	MI	-136	MI	156	MI	98	MI	-18	MI
	AG		29	22	17	9		-16		35		-7		-3	
	MI	MI	99	67	76	89		-109		104		108		-14	
	MA		18	9	6	2		-9		-		-2		-2	
Seychelles	Total	AG	58	100	100	100	AG	-451	MI	200	MI	179	MI	172	MI
	AG		643	12	55	130		113		23		-5		-2	
	MI		-23	88	43	-35		-569		177		184		174	
	MA			0	2	5		5				0		0	

Note: Total effects also include effects from non-specified products which are not shown in this table.

Legend: *Grey cells* indicate the maximum contribution share to total change in exports.

Table A7. PERFO contribution shares in change in total exports, by sector and region, 1996-2002 (using nominal values) (Percentage)

Country	Product	Share in		2002/	Main X			in Exports	
Country	Troduct	1996	2002	1996	2002	Tot	al	PERF	0
0 11 10			ıre as ma	in export	ed sector				
South and Cen			400	15	A O	400	1.4.4	207	110
Nicaragua	Total AG	100 64	100 69	-15 -8	AG	100 35	MA	207 62	MA
	MI	2	5	-o 185		-19		-17	
	MA	33	20	-49		109		183	
Uruguay	Total	100	100	-49 -22	AG	109	AG	93	MA
Oruguay	AG	62	61	-23	٨٥	64	٨٥	36	IVIA
	MI	2	1	-44		3		5	
	MA	36	36	-22		35		54	
Paraguay	Total	100	100	-9	AG	100	AG	20	MA
· araguay	AG	82	85	-7		58		-45	
	MI	1	1	-15		1		3	
	MA	17	15	-22		40		63	
Argentina	Total	100	100	8	AG	100	MI	55	MI
J	AG	56	47	-9		-60		-25	
	MI	14	21	60		105		73	
	MA	30	30	9		35		-12	
Ecuador	Total	100	100	3	AG	100	MI	-366	MI
	AG	53	49	-4		-73		-155	
	MI	37	41	16		190		-163	
	MA	8	9	23		58		29	
Europe:						1			
Iceland	Total	100	100	18	AG	100	MI	74	MI
	AG	77	65	0		-1		3	
	MI	11	20	117		72		58	
	MA	11	14	43		28		14	
Africa:	T. (-1	400	400	0	4.0	400	N A I	2.4	40
Kenya	Total	100	100	6	AG	100	MI	-34	AG
	AG MI	64 10	54 19	-10 111		-105 173		-122 129	
	MA	26	26	5		20		-53	
Asia:	IVIA	20	20	<u> </u>		20		-55	
New Zealand	Total	100	100	2	AG	100	MA	-131	MA
New Zealand	AG	61	59	-2	70	-58	IVI/A	76	IVIZ
	MI	7	6	-12		-41		-139	
	MA	30	30	2		36		-229	
		and mining		s as mair	n exported				
South and Cen		1							
Bolivia	Total	100	100	26	MI	100	MI	56	AG
	AG	38	34	11		17		30	
	MI	45	44	21		36		-8	
	MA	16	16	25		15		2	
Chile	Total	100	100	18	MI	100	AG	23	AG
	AG	37	36	15		30		35	
	MI	45	40	5		12		-57	
	MA	13	15	39		28		18	
Jamaica	Total	100	100	-20	MI	100	MA	232	MA
	AG	24	22	-24		29		33	
	MI	50	67	7		-17		60	
_	MA	26	9	-71		94		145	
Peru	Total	100	100	32	MI	100	MI	52	MA
	AG	31	25	9		9		11	
	MI	44	39	17		23		-16	
	MA	14	16	52		23		12	

Table A7. PERFO contribution shares in change in total exports, by sector and region, 1996-2002 (using nominal values) (continued) (Percentage)

Country	Product	Share in 1996	Total 2002	2002/ 1996	Main X 2002	Ch Tot		in Exports	
Suriname	Total	100	100	1996	MI	100	ai <u>M</u>	-97	MA
Sumame	AG	23	19	-11	IVII	-25	IVII	-97 0	IVIA
	MI	69	80	26		184		1	
	MA	2	1	-8		-1		-6	
Coveballes	Total	100	100	-6 64	MI	100	MI	63	MI
Seychelles	AG	30	100	-36	IVII	-17	IVII	-15	IVII
	MI								
	MA	22 48	88 0	558 -100		193 -76		182 -104	
Trinidad T					1.41	100	MI		N // I
Trinidad T.	Total AG	100 8	100 7	51 18	MI	3	MI	48 4	MI
			60			-		-	
	MI	51		80		79		49	
F	MA	41	33	22		18		-5	
Europe:	Total	100	100	22	N // I	100	MI	1	MI
Norway	Total AG	100 9	7		MI		MI	4 2	IVII
			-	0		0			
	MI	62	67 21	32		90		17 -9	
CIS:	MA	23	21	14		15		-9	
Azerbaijan	Total	100	100	243	MI	100	MI	96	MI
AZEIDAIJāli	AG	13	4	243 15	IVII	100	IVII	2	IVII
	MI	68	90	356		99		95	
	MA	20	5	-17		-1		-3	
Kazakhstan	Total	100	100	64	MI	100	MI	93	MI
Nazakiistaii	AG	15	6	-32	IVII	-8	IVII	-1	IVII
	MI	53	76	-32 136		-o 112		106	
		32				-12			
Dussian Fad	MA		15	-24 21	1.41	100	MI	-20 30	N // I
Russian Fed.	Total	100	100		MI		MI	14	MI
	AG	8	8 62	29 29		11 82		34	
	MI	58 20		29 1		02			
Africa:	MA	30	25	I		ı		-25	
Algeria	Total	100	100	69	MI	100	MI	64	MI
Algena	AG	100	0	-67	IVII	-1	IVII	-1	IVII
	MI	94	97	-67 76		103		67	
	MA	5	2	-19		-1		-3	
Asia:	IVIA	J		-13				-5	
Australia	Total	100	100	8	MI	100	MI	-20	MA
Australia	AG	29	26	-5	IVII	-18	IVII	34	IVIA
	MI	35	40	23		98		-7	
	MA	27	24	-1		_A		-61	
LDCs:	Total	100	100	51	MI	100	MI	68	MI
LD03.	AG	29	20	7	1411	4	1411	6	IVII
	MI	33	41	88		57		37	
	MA	28	35	87		48		33	
		nufacture p			xported se				
North America:					,				
Mexico	Total	100	100	68	MA	100	MA	44	MA
	AG	8	6	23				1	
	MI	14	10	21		3 4		-4	
	MA	78	84	81		93		47	
Canada	Total	100	100	25	MA	100	MA	-47	MA
	AG	16	13	0		0		-8	
	MI	17	17	28		19		-6	
	MA	62	63	27		68		-34	
USA	Total	100	100	11	MA	100	MA	-90	MA
	AG	13	10	-16		-19		-16	
	MI	4	4	-3		-1		-12	
	MA	78	82	18		123		-50	
	1717 1	, 0	52	10		120		00	

Table A7. PERFO contribution shares in change in total exports, by sector and region, 1996-2002 (using nominal values) (continued) (Percentage)

South and Central America: Barbados Total 100 100 -13 MA 100 AG 161 MA MA MA MA MA MA MA M	Country	Product	Share in 1996	Total 2002	2002/ 1996	Main X 2002	Char Total	nge in	Exports PERF	
AG	South and Cen	tral America		2002	1770	2002	Total		I LIVI	
Mil	Barbados	Total	100			MA	100 /	AG	161	MA
MA										
Guatemala										
AG										
MI	Guatemala					MA		MA		MA
Costa Rica										
Costa Rica Total AG 100 100 89 MA 100 MA 88 MA AG 72 35 -9 -7 -14 <td></td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td>			-						-	
AG	0 (5:									
MA	Costa Rica					MA		MA		MA
Brazil										
Brazil Total 100 100 26 MA 100 MA 48 AG AG 34 32 20 25 27 27 MA 53 52 24 48 6 6 Colombia Total 100 100 12 MA 100 MA -64 AG 32 25 -15 -40 -53 MI MI 37 37 12 39 -64 40 MM 29 38 43 109 68 MI Europe: ————————————————————————————————————										
AG	D!					B 4 A		144		۸.
MI	Brazii					IVIA		VIA		AG
Colombia										
Colombia Total AG 100 100 12 MA 100 MA -62 MI AG 32 25 -15 -40 -53 -64 -63 MI -64 -83 -84 <td></td>										
AG 32 25 -15 -40 -53 39 -64 MI 37 37 12 39 -64 MA 29 38 43 109 68 Europe:	Colombia					MA		۱.1.۸		MI
MI	Colonibia					IVIA		VIA		IVII
Europe: Albania Total AG 20 100 100 AG 20 110 -22 MI 115 5 -42 -10 -15 MA AG 21 111 -21 MI 44 44 44 43 32 2 MA AG 32 37 MA AG 32 32 MA AG MI 17 MI 17 16 MI 48 MI 17 16 MI 49 49 EU (27) Total MI AG 31 32 MI AG 31 11 36 AG 31 MI AG 31 AG 32 34 MI AG 33 27 44 MI MI 44 44 44 43 43 44 44 44 44 4										
Europe: Albania										
Albania	Furono:	IVIA	29	30	43		109		00	
AG		Total	100	100	61	МΔ	100 1	МΔ	72	МΔ
MI	Albania					IVIZ		VIA		IVIA
Turkey										
Turkey										
AG	Turkey					MA		МА		MA
MI										
Serbia & Mon.										
Serbia & Mon.				83						
MI	Serbia & Mon.		100			MA		MA		MA
EU (27) MA		AG	32	27	4		6		11	
EU (27)		MI	17	16	14		10		-6	
AG		MA	49	57	44		92		49	
MI	EU (27)	Total	100	100	17	MA	100 N	MA	-7	MA
Switzerland MA Total Total 100 100 100 15 MA 100 MA -44 MA AG 4 MA AG 4 MA 94 91 12 75 -66 CIS: WA MA				10						
Switzerland Total 100 100 15 MA 100 MA -44 MA AG 4 3 -5 -1		MI					8		0	
AG MI 3 6 152 26 21 MA 94 91 12 75 -66 CIS: Ukraine Total 100 100 25 MA 100 MA 67 MI AG 20 15 -7 -6 MI 13 18 77 39 32 MA 66 66 24 65 18 Africa: Egypt Total 100 100 33 MA 100 MA 30 MA AG 15 17 50 22 23 MI 54 34 -17 -27 -71 MA 32 42 76 72 46 Tunisia Total 100 100 25 MA 100 MA 24 MA AG 8 7 8 3 3 3 MI 12 11 13 6 -5 MA 80 82 27 89 24 South Africa Total 100 100 2 MA 100 MA -794 MI		MA		83						
MI	Switzerland		100			MA	100 N	MA		MA
CIS: Ukraine Total AG 20 15 -7 -66 MA 100 MA 67 MI MI AG 20 15 -7 -6 14 AG MI 13 18 77 39 32 AG MA 66 66 24 65 18 Africa: Egypt Total 100 100 33 MA 100 MA 30 MA AG 15 17 50 22 23 23 22 23 23 22 23 23 24 27 -71 27 -71 27 -71 27 -71 27 -71 27 -71 27 46										
CIS: Ukraine Total AG 20 15 -7 -6 14 MI 13 18 77 39 32 MA 66 66 24 65 18 Africa: Egypt Total AG 100 100 33 MA 100 MA 30 MA AG 15 17 50 22 23 MI 54 34 -17 MA 32 42 76 72 46 Tunisia Total 100 100 25 MA 100 MA 24 MA AG AG 8 7 8 3 3 3 MI 12 11 13 6 -5 MA AG 80 82 27 MA South Africa Total 100 100 2 MA 100 MA -794 MI										
Ukraine Total AG 100 100 25 MA 100 MA 67 MI AG 20 15 -7 -6 14 MI 13 18 77 39 32 MA 66 66 24 65 18 Africa: Egypt Total 100 100 33 MA 100 MA 30 MA AG 15 17 50 22 23 23 MI 54 34 -17 -27 -71 46 Tunisia Total 100 100 25 MA 100 MA 24 MA AG 8 7 8 3 3 3 MI 12 11 13 6 -5 MA 80 82 27 89 24 South Africa Total 100 100 2 MA 100 MA -794 MI <		MA	94	91	12		75		-66	
AG MI 13 18 77 39 32 MA 66 66 24 65 18 Africa: Egypt Total 100 100 33 MA 100 MA 30 MA AG 15 17 50 22 23 MI 54 34 -17 -27 -71 MA 32 42 76 72 46 Tunisia Total 100 100 25 MA 100 MA AG 8 7 8 3 3 3 MI 12 11 13 6 -5 MA 80 82 27 89 24 South Africa Total 100 100 2 MA 100 MA -794 MI		Tatal	400	400	٥٠	F 4 A	400	144	/7	P 41
MI MA 13 18 66 66 24 77 65 18 Africa: Egypt Total AG 15 17 50 22 23 MI 54 34 -17 -17 AG -27 -71 AG MA 32 42 76 76 72 46 Tunisia Total 100 100 25 MA 100 MA 24 MA AG 8 7 8 3 3 3 3 AG MI 12 11 13 6 -5 MA 80 82 27 89 24 South Africa Total 100 100 2 MA 100 MA -794 MI	Ukraine					ΝA		VIA		IVII
MA 66 66 24 65 18 Africa: Egypt Total AG 100 100 33 MA 100 MA 30 MA AG 15 17 50 22 23 23 23 23 24 27 -71 -71 -71 -71 -71 -71 -71 -71 -72 46 -72 46 -72 46 -72 46 -72 -71 -72 46 -72										
Africa: Egypt Total AG 15 17 50 22 23 MI 54 34 -17 -27 -71 MA 32 42 76 Tunisia Total 100 100 25 MA 100 MA 24 MA AG 8 7 8 3 3 3 MI 12 11 13 6 -5 MA 80 82 27 South Africa Total 100 100 2 MA 100 MA -794 MI										
Egypt Total 100 100 33 MA 100 MA 30 MA AG 15 17 50 22 23 22 23 MI 54 34 -17 -27 -71 -71 MA 32 42 76 72 46 Tunisia Total 100 100 25 MA 100 MA 24 MA AG 8 7 8 3 3 3 3 3 3 3 3 3 3 6 -5 5 6 -5 6 -5 6 -5 6 -5 89 24 8 7 94 MI 100 MA -794 MI 100 MA -794 MI 100 -794 MI -794 MI -794 MI -794 MI -794 -794 -794 -794 -794 -794 <t< td=""><td>Δfrica:</td><td>IVIA</td><td>00</td><td>00</td><td>24</td><td></td><td>00</td><td></td><td>10</td><td></td></t<>	Δfrica:	IVIA	00	00	24		00		10	
AG MI 54 34 -17 -27 -71 -71 MA 32 42 76 72 46 Tunisia Total 100 100 25 MA 100 MA 24 MA AG 8 7 8 3 3 3 MI 12 11 13 6 -5 MA 80 82 27 89 24 South Africa Total 100 100 2 MA 100 MA -794 MI		Total	100	100	33	MΔ	100 1	МА	30	MΔ
MI MA 32 42 76 72 -71 72 46 76 70 72 46 70 70 70 70 70 70 70 70 70 70 70 70 70	-gypt					IVIA		V1/-\		IVIA
MA 32 42 76 72 46 Tunisia Total 100 100 25 MA 100 MA 24 MA AG 8 7 8 3 3 3 MI 12 11 13 6 -5 MA 80 82 27 89 24 South Africa Total 100 100 2 MA 100 MA -794 MI										
Tunisia Total AG 100 100 25 MA 100 MA 24 MA AG 8 7 8 3 3 MI 12 11 13 6 -5 MA 80 82 27 89 24 South Africa Total 100 100 2 MA 100 MA -794 MI										
AG 8 7 8 3 3 4 6 5 5 8 80 82 27 89 24 South Africa Total 100 100 2 MA 100 MA -794 MI	Tunisia					МΔ		ΜΑ		МΔ
MI 12 11 13 6 -5 89 24 South Africa Total 100 100 2 MA 100 MA -794 MI	, urnoia					141/-7		*# X		IVIA
MA 80 82 27 89 24 South Africa Total 100 100 2 MA 100 MA -794 MI										
South Africa Total 100 100 2 MA 100 MA -794 MI										
	South Africa					MA		MA		МІ
AG 14 13 -5 -36 -28	Codii / iiiod	AG	14	13	-5	141/1	-36	*** *	-28	

Table A7. PERFO contribution shares in change in total exports, by sector and region, 1996-2002 (using nominal values) *(continued)* (Percentage)

Country	Product	Share in	n Total	2002/	Main X	Ch	ange	in Export	
Country		1996	2002	1996	2002	Tota		PERF	
	MI	24	27	13		186		-218	
	MA	41	45	13		313		-201	
Middle East:	-	100	400	40		100		- 10	
Israel	Total	100	100	43	MA	100	MA	48	MA
	AG	7 2	4	-10		-2		-1	
	MI	91	3 92	155 45		6 95		5 43	
A oio.	MA	91	92	45		95		43	
Asia: China	Total	100	100	116	MA	100	MA	84	MA
Offilia	AG	100	6	26	IVIA	2	IVIA	3	IVIA
	MI	6	4	57		3		1	
	MA	84	90	130		95		79	
Philippines	Total	100	100	72	MA	100	MA	67	MA
	AG	11	6	-13		-2		-3	
	MI	5	3	-10		-1		-3	
	MA	83	91	89		103		73	
India	Total	100	100	47	MA	100	MA	59	MA
	AG	21	13	-7		-3		-2	
	MI	5	8	123		13		11	
	MA	72	74	52		80		41	
Thailand	Total	100	100	22	MA	100	MA	32	MA
	AG	25	18	-11		-13		-9	
	MI	2	4	98		10		7	
	MA	71	75	28		89		22	
Korea	Total	100	100	25	MA	100	MA	21	MA
	AG	3	2	-12		-2		0	
	MI	4	5	73		11		7	
Malayaia	MA	89 100	92	29	N 1 A	104	NAA	29	NAA
Malaysia	Total AG	100 14	100 10	20 -16	MA	100 -11	MA	-7	MA
	MI	9	9	23		11		-7 -3	
	MA	76	80	25 26		99		-s 16	
Indonesia	Total	100	100	19	MA	100	MA	-7	MI
maonosia	AG	17	16	10	1417 (9	1417 (11	1411
	MI	32	30	12		19		-29	
	MA	51	54	25		69		9	
Pakistan	Total	100	100	6	MA	100	MA	-227	MA
	AG	15	12	-15		-34		-31	
	MI	1	2	130		20		16	
	MA	84	85	8		109		-217	
Japan	Total	100	100	1	MA	100	MI	-1556	MA
	AG	1	1	3		2		6	
	MI	2	2	7		8		-24	
	MA	95	93	-1		-37		-1617	
Singapore	Total	100	100	0	MA	100	MA	-17138	MA
	AG	4	3	-40		-		-1177	
	MI	11	9	-21		4005		-4506	
\A/a alal	MA	83	85	1	N // A	1005		-13801	
World	Total	100	100	20	MA				
	AG	12	9	-3 27					
	MI MA	12 74	13 75	27 23					
	IVIA	74	73	23					

Legend:

Figures in **bold** indicate "Performers" in the region, i.e. countries with positive PERFO effects. Sectors in **bold** represent sector where PERFO is supposedly most affected.

Table A8. PERFO contribution shares in change in total exports, by sector and region, 2002-2007 (using nominal values) (Percentage)

Country	Product	Share in T		2007/	Main X			change	
	1100001	2002	2007	2002	2007	То	tal	PER	FO _
South and Cen	tral Amorica	Agriculture a	as main e	хрогтеа	sector				
Paraguay	Total	100	100	194	AG	100	AG	46	AG
lalaguay	AG	85	85	195	٨٥	85	AO	40	AU
	MI	1	1	163		1		0	
	MA	15	13	172		13		4	
Uruguay	Total	100	100	142	AG	100	AG	25	AG
	AG	61	64	151		65		23	
	MI	1	5	865		8		6	
	MA	36	30	97		25		-4	
Nicaragua	Total	100	100	114	AG	100	AG	10	AG
	AG	69	77	138		84		27	
	MI	5	3	18		1		-9	
Argontino	MA	20 100	12 100	34 117	AG	6 100	AG	-15 -12	MI
Argentina	Total AG	47	52	137	AG	55	AG	16	IVII
	MI	21	15	53		10		-31	
	MA	30	31	120		31		1	
Europe:	IVI/ \	- 00	01	120		01			
Iceland	Total	100	100	114	AG	100	MA	-5	AG
	AG	65	44	43		25		-28	
	MI	20	29	208		36		-4	
	MA	14	27	310		38		26	
Africa:					T				
Kenya	Total	100	100	93	AG	100	AG	-43	MI
	AG	54	55	98		57		1	
	MI	19	6	-39		-8		-64	
Carrahallaa	MA	26	37	176	40	49	40	18	N 41
Seychelles	Total AG	100 12	100 55	58 643	AG	100 130	AG	-451 113	MI
	MI	88	43	-23		-35		-569	
	MA	0	43 2			5		-509 5	
Asia:	IVI/A	0				<u> </u>			
New Zealand	Total	100	100	88	AG	100	AG	-16	MA
	AG	59	59	88		59		2	
	MI	6	9	198		13		-4	
	MA	30	28	72		25		-9	
		and mining pr	oducts as	s main ex	xported sec	ctor			
South and Cen					T				
Peru	Total	100	100	262	MI	100	MI	47	MI
	AG	25	15 50	114		11		3	
	MI	39 16	58	437		65		31	
Chile	MA Total	16 100	12 100	165 276	MI	10 100	MI	4 45	MI
Crille	AG	36	20	108	IVII	14	IVII	3	IVII
	MI	40	64	499		72		38	
	MA	15	10	135		8		2	
Trinidad T.	Total	100	100	289	MI	100	MI	44	MI
	AG	7	3	53		1		-1	
	MI	60	69	344		72		28	
	MA	33	28	235		27		17	
Bolivia	Total	100	100	251	MI	100	MI	40	MI
	AG	34	16	70		9		-4	
	MI	44	74	498		86		47	
	MA	16	7	52		3		-2	

Table A8. PERFO contribution shares in change in total exports, by sector and region, 2002-2007 (using nominal values) *(continued)* (Percentage)

Ecuador Total 100 100 174 MI 100 MI AG 49 31 71 20	PERFO 16 MI
AG 49 31 71 20 MI 41 61 305 72	16 MI
MI 41 61 305 72	
	-6 20
I WA J 9 O ISUI I /	20
Suriname Total 100 100 199 MI 100 MI	1 AG
AG 19 19 199 19	11 AG
	10
MA 1 1 199 1	1
	36 MI
	16
MI 67 76 99 89 -1	09
MA 9 6 18 2	-9
Europe:	
	44 MI
AG 7 6 72 4	-2
	41
MA 21 18 92 15	-2
CIS: Kazakhstan Total 100 100 394 MI 100 MI	46 MI
AG 6 3 164 3	0
	43
MA 15 11 255 10	3
	39 MI
AG 4 5 487 5	4
	31
MA 5 4 276 3	1
Russian Fed. Total 100 100 231 MI 100 MI	15 MI
AG 8 7 169 6	2
MI 62 73 284 77	15
MA 25 19 162 17	0
Africa:	
	40 MI
AG 17 10 102 7	0
MI 34 61 531 73 MA 42 28 131 22	39 4
Algeria Total 100 100 220 MI 100 MI	-2 MI
AG 0 0 84 0	0
MI 97 98 222 98	-2
MA 2 1 67 1	-1
Asia:	
	37 MI
AG 26 17 46 10	-9
	17
MA 24 19 71 15	-7
	24 MI
AG 20 13 57 7	0
	27
MA 35 22 65 15	0
Manufacture products as main exported sectors North America	
	10 MA
AG 6 6 75 6	1 10 101A
MI 10 18 209 30	0
	12
	29 MA
AG 13 12 49 10	-4
	-4
MI 17 29 187 48	19

Table A8. PERFO contribution shares in change in total exports, by sector and region, 2002-2007 (using nominal values) *(continued)* (Percentage)

Country	Product	Share in		2007/	Main X			change	
		2002	2007	2002	2007		tal	PER	
USA	Total	100 10	100 10	68 65	MA	100 10	MA	-42 -3	MA
	AG MI	4	7	65 241		13		-ა 1	
	MA	82	78	59		72		-41	
South and Cen				00					
Brazil	Total	100	100	166	MA	100	MA	30	MA
	AG	32	30	152		29		10	
	MI	14	20	291		24		4	
O de ode	MA	52	47	143		44		16	
Colombia	Total AG	100 25	100 20	152 101	MA	100 16	MA	8	MA
	MI	25 37	39	165		40		ა -11	
	MA	38	39	162		40		12	
Costa Rica	Total	100	100	78	MA	100	MA	-11	AG
	AG	35	33	69		31		-5	7.0
	MI	2	2	119		3		-2	
	MA	63	65	82		66		-4	
Barbados	Total	100	100	86	MA	100	MA	-61	AG
	AG	31	19	13		5		-29	
	MI	23	32	158		43		-22	
Cuatamala	MA	44 100	49 100	106 66	MAA	54 100	۸٥	-7 -20	144
Guatemala	Total AG	30	100 41	129	MA	58	AG	-20 20	MA
	MI	5	9	231		16		20	
	MA	51	50	61		48		-12	
Europe:									
Serbia & Mon.	Total	100	100	326	MA	100	MA	58	MA
	AG	27	20	208		17		9	
	MI	16	13	252		12		1	
Alle a s'a	MA	57	67	396		69		47	
Albania	Total AG	100 10	100 9	215 184	MA	100 8	MA	48 4	MA
	MI	5	14	726		18		12	
	MA	81	71	173		65		26	
Turkey	Total	100	100	197	MA	100	MA	38	MA
,	AG	11	10	168		9		4	
	MI	4	7	467		9		4	
	MA	83	81	191		80		31	
EU (27)	Total	100	100	102	MA	100	MA	-10	MA
	AG	10	9	93		9		0	
	MI MA	6 83	9 80	214 95		12 77		-1 -9	
Switzerland	Total	100	100	95 87	MA	100	MA	-9 -27	MA
Switzeriariu	AG	3	3	124	IVIA	4	IVIA	1	IVIA
	MI	6	6	94		6		-9	
	MA	91	90	85	<u></u>	89		-19	
CIS:									
Ukraine	Total	100	100	174	MA	100	MA	1	MA
	AG	15	14	154		13		2	
	MI	18 66	11 72	76 200		8 76		-16	
Africa:	MA	66	72	200		76		12	
Tunisia	Total	100	100	119	MA	100	MA	-2	MA
. di liola	AG	7	10	210	141/1	12	141/ (6	1417 1
	MI	11	20	289		27		5	
	MA	82	71	89		61		-13	
South Africa	Total	100	100	135	MA	100	MI	-5	AG
	AG	13	8	52		5		-4	

Table A8. PERFO contribution shares in change in total exports, by sector and region, 2002-2007 (using nominal values) (continued) (Percentage)

Country	Product	Share in 2002	Total 2007	2007/ 2002	Main X 2007	То		change PER	FΩ
	MI	27	39	241	2007	48	tai	0	10
	MA	45	46	137		46		9	
Middle East:									
Israel	Total	100	100	84	MA	100	MA	-10	MA
	AG	4	4	78		4		-1	
	MI	3	5	172		6		-2	
	MA	92	89	78		86		-10	
Asia:					•				
China	Total	100	100	274	MA	100	MA	63	MA
	AG	6	3	107		2		0	
	MI	4	3	209		3		-1	
la dia	MA	90	93	288	N 4 A	94	1.4.4	63	8.41
India	Total AG	100 13	100	195 145	MA	100	MA	39 3	MI
	AG MI	8	11 24	825		10 33		22	
	MA	74	24 64	152		58		22 17	
Thailand	Total	100	100	126	MA	100	MA	19	MA
Titaliana	AG	18	16	101	IVIA	15	IVIZ	2	IVIA
	MI	4	6	271		8		0	
	MA	75	76	129		77		19	
Singapore	Total	100	100	139	MA	100	MA	18	MA
gap are	AG	3	2	76		1		0	
	MI	9	15	320		20		4	
	MA	85	77	119		72		12	
Korea	Total	100	100	129	MA	100	MA	16	MA
	AG	2	2	63		1		0	
	MI	5	9	290		12		1	
	MA	92	89	122		87		16	
Malaysia	Total	100	100	87	MA	100	MA	-27	MA
	AG	10	12	125		14		4	
	MI	9	16	212		23		-5	
Dallata	MA	80	71	67		61		-26	
Pakistan	Total	100	100	80	MA	100	MA	-31	MA
	AG MI	12 2	13 7	94 467		14 12		-1 5	
	MA	85	80	467 69		73		-33	
Japan	Total	100	100	71	MA	100	MA	-35 -35	MA
σαραπ	AG	100	100	69	IVIA	1	IVIA	-33	IVIA
	MI	2	4	288		7		1	
	MA	93	90	65		85		-37	
Indonesia	Total	100	100	99	MA	100	MI	-46	MI
	AG	16	21	164		26		12	
	MI	30	36	144		43		-33	
	MA	54	42	56		30		-24	
Philippines	Total	100	100	43	MA	100	MA	-124	MA
	AG	6	6	54		7		-4	
	MI	3	8	314		19		3	
	MA	91	85	34		71		-126	
World	Total	100	100	116	MA				
	AG	9	8	92					
	MI	13	20	236					
	MA	75	70	100					

Legend:
Grey cells indicate "Performers" in the region, i.e. countries with positive PERFO effects.
Sectors in bold represent sector where PERFO is supposedly most affected.

Table A9. Selected economies' GEO contribution shares to change in total exports, 1996-2002 (current prices) (Percentage)

Country	Product	GE	0	NA		Cs	С	E	JR	Cı	s	AF	R	М	EΑ	As	il
Ecuador	Total	130	AG	300	AG	-125	MI	-16	AG	-18	AG	1	AG	2	AG	-13	AG
(ON)	AG	132		198		-31		-4		-18		1		2		-15	
	MI	36		91		-59		0		0		0		0		4	
	MA	-31		7		-36		0		0		0		0		-2	
Costa Rica	Total	7	AG	13	AG	-4	MA	0	AG	0	AG	0	AG	0	AG	0	AG
(OC)	AG	9		11		-1		0		0		0		0		0	
	MI	0		0		0		0		0		0		0		0	
	MA	-2		2		-3		0		0		0		0		0	
Iceland	Total	6	AG	23	AG	-4	MA	-6	MI	-2	AG	0	AG	0	AG	-6	AG
(OA)	AG	9		18		0		-2		-1		0		0		-6	
	MI	-3		0		0		-3		0		0		0		0	
0 1 1	MA	-2		3		-3		0		0		0		0		0	
Guatemala	Total	5	AG	11	AG	-6	MA	0	AG	0	AG	0	AG	0	AG	0	AG
(OC)	AG	8		10		-2		0		0		0		0		0	
	MI	0		0		0		0		0		0		0		0	
0 1	MA	-3		1		-4		0		0		0	4.0	0		0	
Canada	Total	70	MA	<i>75</i>	MA	-1	MA	-1	MI	0	MA	0	AG	0	MA	-3	MA
(CN)	AG	10		11		0		0		0		0		0		-1	
	MI	7		8		0		0		0		0		0		0	
lana.	MA	43		45	N 4 A	-1	N 4 A	0	B 4 A	0		0	N 4 A	0		-1	
Japan	Total	67	MA	446	MA	-42	MA	-20	MA	-2	MA	-5 0	MA	23	MA	-333	MA
(CN)	AG	-2		3		0		0		0		0		0		-5 0	
	MI	3		2 410		0 -42		0 -16		0		0		0		2	
Mayina	MA	35	N 4 A		N 4 A		N 4 A		N 41	-2 0	N / A	-6 0	۸.	24	N 4 A	-333	
Mexico	Total AG	24	MA	<i>26</i> 3	MA	<i>-2</i>	MA	0	MI	0	MA	0 0	AG	0 0	MA	0 0	MA
(OC)	MI	2 2		3		0		0		0		0		0		0	
	MA	19		21		-1		0		0		0		0		0	
Pakistan	Total	19	MA	61	MA	-1 -5	MA	-7	MA	-2	MA	2	AG	23	MA	-52	MA
(CN)	AG	4	IVIA	3	IVIA	-5 -1	IVIA	-7	IVIA	-2 0	IVIA	4	AG	23 7	IVIA	-52 -9	IVIA
(CN)	MI	0		0		0		0		0		0		0		-9	
	MA	15		58		-4		-7		-2		-3		16		-43	
USA	Total	18	MA	61	MA	-12	MA	-7 -5	MA	- <u>-</u> 2	AG	0	AG	3	MA	-28	MA
(CN)	AG	1	IVIA	7	IVIA	-12	IVIA	0	IVIA	-1 -1	٨٥	1	٨٥	0	IVIA	-20 -5	IVIZ
(014)	MI	1		2		-1		0		0		0		0		0	
	MA	11		47		-11		-2		0		-1		3		-24	
Seychelles	Total	11	MA	12	MA	0	AG	0	AG	0	AG	0	AG	1	MI	-2	MA
(OC)	AG	-1	1417 (0	1417 (0	/10	0	710	0	/10	0	710	0	1411	0	1417 (
(00)	MI	1		0		0		0		0		0		1		0	
	MA	11		12		0		0		0		0		0		-1	
Egypt	Total	6	MA	7	MA	0	MI	-5	MI	-1	AG	0	AG	5	MA	0	AG
(CP)	AG	1		0		0	••••	0	••••	-1		0		2		0	
(0.)	MI	1		3		0		-4		0		0		1		0	
	MA	4		4		0		-1		0		0		2		0	
Philippines	Total	4	MA	11	MA	0	MA	-1	MA	0	AG	0	AG	0	MA	-6	MA
(OC)	AG	1		2		0		0		0		0		0		-1	
V/	MI	0		0		0		0		0		0		0		0	
	MA	3		9		0		0		0		0		0		-5	
India	Total	3	MA	10	MA	0	MA	-1	MA	-1	AG	0	MA	3	MA	-6	MA
(OC)	AG	0		1		0		0		-1	-	0		1		-2	
(/	MI	0		0		0		0		0		0		0		0	
	MA	3		8		0		-1		0		0		2		-5	
Israel	Total	2	MA	15	MA	-1	MI	-1	MI	-1	MI	0	AG	0	MA	-5	MI
(OC)	AG	0		0		0		0		0		0	-	0		0	
. ,	MI	0		0		0		0		0		0		0		0	

Table A9. Selected economies' GEO contribution shares to change in total exports, 1996-2002 (current prices) *(continued)* (Percentage)

CN MA	Country	Product	GE	0	NA		Cs	С	Ει	JR	Cı	S	AF	R	N	/IEA	As	ı
CN AG		MA	3				-1		-1				0					
Mil			0	MI	18	MA	-1	MA		MA	0	AG		MA		MA	-17	MA
Colombia	(CN)																	
Colombia Total 26 AG 77 MI 47 MA 58 MI 1 AG 0 AG 0 MI 3 AG 0 MI 1 AG MI AG																		
CON																		
Min				AG		MI		MA		MI	-	AG		AG		MI		AG
MA	(ON)																	
Trinidad T. Total																		
CCC AG		MA	-19															
MI			6	MI	19	MI		MA		MI		MA		MI		MA		MA
MA	(CC)																	
Suriname																		
CON		MA																
MI				MA		MI		AG		MI		MI		MI		ALL		AG
LDCS	(ON)																	
LDCs																		
COC AG		MA	1															
Mi				MI		MI		MA		AG		AG	-	AG		AG		MI
MA	(OC)												•					
Paraguay Total 100 AG 78 -73 AG 109 AG 2 AG 0 MA 0 AG 0 AG 2 AG AG COS AG 78 -8 83 2 0 0 0 0 0 0 0 0 0																		
COS	_		-															
Mi				AG		AG		AG		AG		MA		AG		AG		AG
Barbados Total 46	(OS)																	
Barbados Total A6																		
(OS) AG 14 0 <td></td>																		
MI				MA		MA		MA		AG		ALL		AG		AGMI		MA
Uruguay Total	(OS)								-									
Uruguay (ON) Total (ON) AG 20 AG -9 MA 42 AG 1 AG 0 AG -1 AG 5 AG (ON) AG 20 -4 21 0 1 0 -1 33 -1 AG 0 <td></td>																		
(ON) AG 20 -4 21 0 1 0 -1 3 -1 3 -1 3 -1 3 -1 3 -1 3 -1 3 -1 3 -1 3 -1 3 -1 3 -1 3 -1 0																	•	
MI				AG		MA		AG		AG		AG		AG		AG		AG
MA	(ON)																	
Kenya Total 23 AG 16 AG 0 AG -5 AG 0 AG 26 AG 7 AG -14 A (CN) AG 46 14 0 -4 0 42 6 -11 0 MI 2 0 0 0 0 0 5 0 0 0 Albania Total -2 MA 7 AG 0 AG 0 AG 0 MA 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0																		
(CN) AG 46 14 0 -4 0 42 6 -11 0 <th< td=""><td>14</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>4.0</td><td></td><td></td></th<>	14															4.0		
MI	-			AG		AG		AG		AG		AG		AG		AG		AG
Albania Total 70tal 70ta	(CN)																	
Albania Total (OC)																		
(OC) AG 0 <td>A.II</td> <td></td> <td></td> <td></td> <td></td> <td>40</td> <td></td> <td>40</td> <td></td> <td></td> <td></td> <td>40</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	A.II					40		40				40						
MI				WA		AG		AG		IVIA		AG		IVIA		IVIA		MI
Chile Total	(OC)				-													
Chile Total																		
(OS)	Chile			N 4 A		40		1.4.0	-2	N 41		۸.		40		۸.		۸.
MI				IVIA		AG		IVIA		IVII		AG		AG		AG		AG
Argentina Total	(08)																	
Argentina Total -70 MA 29 AG -95 MA -2 AG -2 AG 8 AG 7 AG -14 AG (OS) AG -14 15 -29 -2 -2 8 6 -10 AG MI -15 5 -20 0 0 0 0 0 0 0 New Zealand Total -41 MA 9 -46 -1 0 0 0 1 -3 New Zealand Total -141 MA 158 AG -23 AG -7 AG -15 AG 10 AG 18 AG -267 AG (CN) AG -44 116 -18 -5 -15 11 16 -149 -149 -149 -149 -149 -149 -149 -149 -149 -149 -149 -149 -149 -149 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>																		
(OS) AG -14 15 -29 -2 -2 -2 8 6 -10 MI -15 5 -20 0 0 0 0 0 0 MA -41 9 -46 -1 0 0 1 -3 New Zealand Total -141 MA 158 AG -23 AG -7 AG -15 AG 10 AG 18 AG -267 A (CN) AG -44 116 -18 -5 -15 AG 10 AG 18 AG -267 AG MI 8 2 -1 0 0 0 0 0 0 6 -127 0	Argontino			MAA		۸۵		MA		۸۵		۸۵		۸۵		۸۵		AG
MI				IVIA		AG		IVIA		AG		AG		AG		AG		AG
New Zealand Total (CN) -41 (CN) 9 (CN) -46 (CN) -1 (CN) 0 (CN) 0 (CN) 10 (CN) AG (CN) 11 (CN) 158 (CN) AG (CN) -23 (CN) AG (CN) -44 (CN) 116 (CN) -18 (CN) -5 (CN) -15 (CN) -15 (CN) AG (CN) -15 (CN) -17	(03)																	
New Zealand Total -141 MA 158 AG -23 AG -7 AG -15 AG 10 AG 18 AG -267 AG (CN) AG -44 116 -18 -5 -15 11 16 -149 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 18 18 18 AG -149 18 14 149 18																		
(CN) AG -44 116 -18 -5 -15 11 16 -149 MI 8 2 -1 0 0 0 0 6 MA -93 40 -5 -2 0 -1 2 -127 China Total -2 MA 3 MA 0 MA 0 AG 0 MA 0 MA -5 N (CC) AG -1 0 0 0 0 0 0 0 -1 MI 0 0 0 0 0 0 0 0 0	New Zealand			ΜΔ		ΔC		ΔC		ΔΩ		ΔΩ		ΔΩ		ΔΩ		AG
MI 8 2 -1 0 0 0 0 0 6 MA -93 40 -5 -2 0 -1 2 -127 China Total -2 MA 3 MA 0 MA 0 MA 0 AG 0 MA 0 MA -5 M (CC) AG -1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				IVIA		ΛG		ΛŪ		ΑĠ		ΑG		ΑĠ		ΛŪ		ΑG
China MA -93 40 -5 -2 0 -1 2 -127 China Total -2 MA 3 MA 0 MA 0 AG 0 MA 0 MA 0 AG 0 MA 0 MA -5 N MI 0 0 0 0 0 0 0 0 0	(OIV)																	
China Total -2 MA 3 MA 0 MA 0 MA 0 AG 0 MA																		
(CC) AG -1 0 0 0 0 0 0 -1 0 0 0 0 0 0 0 0 0 0 0	China			МΔ		МΔ		ΜΔ		МΔ		ΔC		МΔ		MΔ		MA
MI 0 0 0 0 0 0 0 0				IVIZ		IVIZ		IVI/		IVIA		AO		IVIA		IVIA		IVI/
	(30)																	
MA -2 3 0 0 0 0 0 -5																		
	Turkey			МА		MΑ		МА		МΑ		AG		MA		MA		MA

Table A9. Selected economies' GEO contribution shares to change in total exports, 1996-2002 (current prices) *(continued)* (Percentage)

Country	Product	GE	0	Na		Cs	С	Ει	JR	Cı	S	AF	R	M	EA	As	il .
(OC)	AG	0		1		0		0		-2		0		1		0	
	MI	0		0		0		0		0		0		0		0	
	MA	-2		2		0		-1		-1		0		2		-1	
Brazil	Total	-3	MA	19	MA	-16	MA	-2	MI	-1	AG	1	AG	1	AG	-5	MA
(CP)	AG	2		5		-1		0		-1		1		1		-2	
	MI	0		1		-1		-1		0		0		0		0	
Cuitmodond	MA	-5 -3	N 4 A	12 <i>15</i>	N 4 A	-14	N 4 A	-1		0	N 4 A	0 -1	N 4 A	0	MAA	-3 -11	N 4 A
Switzerland	Total AG	-3 0	MA	0	MA	-3	MA	-6 0	MA	0 0	MA	-1 0	MA	4 0	MA	-11 0	MA
(CN)	MI	0		0		0 0		-1		0		0		0		0	
	MA	-3		14		-3		-6		0		-1		3		-11	
Malaysia	Total	-7	MA	20	MA	-1	MA	-1	MA	0	MA	0	AG	1	MA	-27	MA
(OS)	AG	-2		1		0		0		0		1		0		-4	
()	MI	1		0		0		0		0		0		0		1	
	MA	-6		19		-1		-1		0		0		1		-24	
Thailand	Total	-7	MA	20	MA	-1	MA	-1	MA	0	MA	0	AG	2	MA	-24	MA
(CP)	AG	0		5		0		0		0		1		1		-6	
	MI	0		0		0		0		0		0		0		0	
	MA	-8		14		-1		-1		0		0		2		-18	
Korea	Total	-9	MA	16	MA	-4	MA	-1	MA	-1	MA	-1	MA	2	MA	-19	MA
(CP)	AG	-1		0		0		0		0		0		0		-1	
	MI	0		0		0		0		0		0		0		0	
0 1: 14	MA	-8		15		-4		-1		-1		-1		2		-19	
Serbia M.	Total	-10	MA	2	MA	0	MA	-7	MI	-6	MA	1	AG	0	MA	0	MA
(OP)	AG	-2		1		0		-1		-2		1		0		0	
	MI MA	-3 -5		0		0 0		-3 -2		0 -3		0 0		0		0	
EU (27)	Total	-12	MA	9	MA	-2	MA	-2 -8	MA	-3 -2	AG	0	MA	2	MA	-6	MA
(CN)	AG	-12	IVIA	1	IVIZ	0	IVIA	0	IVIZ	-1	٨٥	0	IVIA	0	IVIA	0	IVIZ
(3.1)	MI	-1		0		0		-1		0		0		0		0	
	MA	-8		8		-2		-5		-1		-1		2		-5	
Tunisia	Total	-13	MA	1	MA	-1	MA	-6	MA	0	MA	0	MA	1	MA	-2	MA
(OP)	AG	0		0		0		0		0		1		0		0	
	MI	-1		0		0		-2		0		0		0		0	
	MA	-12		1		-1		-4		0		-1		1		-2	
Kazakhstan	Total	-26	MI	0	MA	0	MI	-2	MI	-23	MI	0	MA	0	MA	-2	MA
(CC)	AG	-6		0		0		0		-6		0		0		0	
	MI	-16		0		0		-2		-15		0		0		0	
Dussian F	MA	-4 20	N 41	0	N 4 A	0	N 41	0	N // I	-3	N A I	0	40	0	MAA	-2	N 4 A
Russian F. (CP)	Total AG	-38 -3	MI	1	MA	-2 0	MI	-11	MI	-25 -2	MI	0 0	AG	1 0	MA	-5 -1	MA
(CP)	MI	-3 -27		2		-2		0 -8		-2 -19		0		0		0	
	MA	-7		2		0		-0 -1		-4		0		1		-4	
Australia	Total	-75	AG	18	MA	-2	MI	-4	MI	0	AG	1	AG	2	AG	-34	MA
(CN)	AG	-42		8		0		0		0		1		1		-17	
(-)	MI	-11		1		-1		-2		0		0		0		5	
	MA	-21		9		-1		-1		0		0		1		-25	
South Africa	Total	-143	MA	107	MA	-21	MA	-	MI	-4	AG	-3	MA	17	MA	-47	MA
(CN)	AG	15		14		-2		-3		-2		23		4		-19	
	MI	23		32		-3		-21		-2		5		1		11	
	MA	-40		60		-16		-13		0		-32		12		-51	
Singapore	Total	-1487	MA	3335	MA	-183	MA	-	MA	-76	MA	-9	MA	178	MA	-4537	MA
(ON)	AG	-192		44		-8		-2		-9		22		19		-258	
	MI	105		28		-53		-19		-12		8		2		151	
Daw	MA	-1465	40	3205	N 41	-122	N A I	-	N.A.I	-56	N 41	-40	40	158	40	-4454	۸.
Peru	Total	0	AG	16	MI	-8 1	MI	-6 0	MI	0	MI	0	AG	0	AG	-3	AG
(OP)	AG MI	1		4		-1 1		0		0		0		0		-3 1	
	MI	1		6		-4		-1		0		0		0		1	

Table A9. Selected economies' GEO contribution shares to change in total exports, 1996-2002 (current prices) (continued) (Percentage)

Country	Product	GE	0	N/	١	Cs	С	Eu	IR	Cı	S	AF	R	M	EA	As	SI
	MA	1		4		-3		0		0		0		0		0	
Algeria	Total	-2	MI	4	MI	-1	MI	-4	MI	-1	MA	0	MI	0	MA	0	MI
(OC)	AG	0		0		0		0		0		0		0		0	
	MI	-1		4		-1		-4		0		0		0		0	
	MA	-1		0		0		0		-1		0		0		0	
Norway	Total	-8	MI	10	MI	-1	MA	-15	MI	-1	AG	0	AG	0	MA	-2	MA
(OP)	AG	-1		1		0		0		-1		0		0		0	
	MI	-4		6		0		-11		0		0		0		0	
	MA	-1		2		-1		-1		0		0		0		-1	
Bolivia	Total	-12	AG	18	MI	-26	AG	-3	MI	0	MI	0	AG	0	AG	0	AG
(CP)	AG	-9		6		-15		0		0		0		0		0	
	MI	-3		8		-8		-3		0		0		0		0	
	MA	-1		4		-4		0		0		0		0		0	
Nicaragua	Total	-64	AG	-84	AG	18	AG	2	AG	0	AG	0	AG	-1	AG	0	AG
(OS)	AG	-39		-53		13		1		0		0		-1		0	
	MI	0		-1		1		0		0		0		0		0	
	MA	-22		-27		4		1		0		0		0		0	
Azerbaijan	Total	-5	MI	0	MA	0	AG	0	MI	-5	MI	0	ALL	1	MI	0	MA
(CC)	AG	-1		0		0		0		-1		0		0		0	
	MI	-4		0		0		0		-4		0		1		0	
	MA	0		0		0		0		-1		0		0		0	
Ukraine	Total	-42	AG	2	MA	-1	MA	-3	MI	-38	AG	0	MA	2	MA	-5	MA
(CP)	AG	-18		0		0		0		-18		0		0		0	
	MI	-7		0		0		-1		-6		0		0		0	
	MA	-17		2		-1		-1		-14		0		2		-5	
Jamaica	Total	-35	MA	-50	MA	5	MA	6	MI	3	MI	-1	MI	0	AG	1	AG
(OS)	AG	-8		-10		1		0		0		0		0		1	
	MI	-8		-17		0		5		3		-1		0		0	
	MA	-19		-23		3		0		0		0		0		0	

Note: Total GEO effects also include effects from non-specified areas which are not shown in this table.

Legend:

CC: Consistent Confirmed Performer CP: Consistent Partial Performer CS: Consistent Slow

OC: Occasional Confirmed Performer OP: Occasional Partial Performer OS: Occasional Slow Performer

CN: Consistent Non-Performer ON: Occasional Non-Performer

Grey cells indicate the region with the maximum "shift" of exports. Grey figures indicate the region with the least "shift" in exports. *Bold and italic* GEO figures indicate positive GEO effects.

Table A10. Selected economies' GEO contribution shares to change in total exports, 2002-2007 (current prices) (Percentage)

	Country	Product	GEO		V A	C	SC	Eu	IR	С	IS	A	FR	Me	ΞΑ	А	.SI
	Kenya	Total	<i>12</i> MI	-5	MA	0	MA	1	AG	0	AG	14	MA	1	MI	0	AG
Ą	(CN)	AG	3	-1	IVIA	0	IVIA	1	AG	0	AG	2	IVIA	0	IVII	0	AG
AFRICA		MI	6	0		0		0		0		6		1		0	
AF.		MA	3	-4		0		0		0		7		0		0	
TO ,	Tunisia	Total	6 MA	0	MA	0	MA	2	MA	0	MI	3	MA	1	MA	0	MA
T	(ON)	AG	1	0		0		0		0		1		0		0	
EXPORTS		MI MA	0 5	0		0		0 3		0		0 2		0 1		0	
<u>@</u>	South Africa	Total	6 MA	-4	MA	0	MA	-1	MI	0	MA	4	MA	1	MA	4	MI
EX	(CN)	AG	0	0	1717	0		0		0	1417 (1	1417 (0	1411	0	
] ` ′	MI	1	-1		0		0		0		0		1		2	
		MA	4	-2		0		1		0		4		1		1	
	Australia	Total	<i>9</i> MI	-4	MA	0	MA	0	MI	0	MA	1	MA	3	MA	8	MI
	(CN)	AG	-1	-1		0		0		0		0		0		-1	
	7	MI MA	6 1	-1 -2		0		0 0		0 0		0 0		0 1		6 1	
ASIA	Indonesia	Total	6 MI	-6	MA	0	MA	0	MA	0	MA	1	MA	2	MA	9	MI
¥	(CN)	AG	-1	-1	1717	0		0		0	1417 (0	1417 (0	1411	-1	
EXPORTS TO		MI	6	0		0		0		0		0		0		7	
2		MA	1	-5		0		0		0		1		2		2	
X	Singapore	Total	2 MI	-5	MA	1	MA	0	MA	0	MA	0	MA	1	MA	5	MA
ĕ	(OC)	AG	0	0		0		0		0		0		0		0	
		MI MA	2	0 -5		0		0 0		0		0		0 1		3	
	∐ Korea	Total	1 MI	-8	MA	1	MA	1	MA	2	MA	1	MA	2	MA	4	MA
	(CP)	AG	0	0	IVIZ	0	IVIZ	0	IVI/X	0	IVI/X	0	IVIZ	0	IVI/X	0	IVI/X
	, ,	MI	1	0		0		0		0		0		0		1	
		MA	0	-8		1		1		2		1		2		3	
	Ukraine	Total	<i>29</i> MA	-1	MA	0	MA	0	MA	25	MA	1	MA	2	MA	1	MA
·	(CP)	AG	3	0		0		0		3		0		0		0	
CIS		MI MA	-1 26	0 -1		0		0 1		0 23		0		0 2		0	
T0	Turkey	Total	9 MA	-2	MA	0	MA	1	MA	7	MA	1	MA	2	MA	0	MA
E	(OC)	AG	1	0	1417 (0	1417	0	1417	0	1417 (0	1417 (0	1017	0	1417 (
₹		MI	0	0		0		0		0		0		0		0	
<u> </u>		MA	8	-2		0		1		6		1		2		0	
EXPORTS	Russian F.	Total	6 MA	-1	MI	0	MA	-1	MI	6	MA	0	MA	1	MA	1	MI
	(CP)	AG MI	0 -2	0 -1		0 0		0 -1		0 -1		0		0 0		0 1	
		MA	-2 7	0		0		-1 0		-1 6		0		0		0	
	EU (27)	Total	<i>5</i> MA	-4	MA	1	MA	2	MA	4	MA	1	MA	1	MA	1	MA
	(CN)	AG	0	0		0		0		0		0		0		0	
		MI	0	0		0		0		0		0		0		0	
		MA	5	-4		1		3		3		1		1		1	
	Serbia M.	Total	<i>5</i> MA	0	MA	0	MA	1	MA	4	MA	0	MA	0	MA	0	MA
	(OC)	AG	0	0		0		0		0		0		0		0	
		MI MA	0 5	0		0		0		0 4		0		0		0 0	
	Barbados	Total	11 MA	-8	MA	16	MA	1	AG	0	ALL	0	MA	0	ALL	0	MA
	(ON)	AG	0	-2	.,,,,	2		0	, ,0	0	,	0		0	,	0	
		MI	1	0		0		0		0		0		0		0	
		MA	10	-5		14		0		0		0		0		0	
	Uruguay	Total	6 MA	-4	MA	7	MA	0	AG	1	AG	1	AG	1	AG	0	MA
	(OC)	AG	3	-1		2		0		1		1		1		0	
	1	MI	0	0		0		0		0		()		0		0	

Table A10. Selected economies' GEO contribution shares to change in total exports, 2002-2007 (current prices) *(continued)* (Percentage)

		Country	Product	GEO	N	J A	Csc	Eur	CIS	AFR	MEA	Ası
		Argentina	MA Total	4 5 MA	-2 -5	MA	5 6 MA	0 0 AG	0 1 AG	0 1 AG	0 1 AG	0 0 MI
Γ	_o	(ON)	AG MI MA	2 -2 5	-1 -2 -3		1 -1 6	0 0 0	0 0 0	1 0 0	1 0 0	0 0 0
	TO CSC	Paraguay (OC)	Total AG MI	5 AG 4 0	-1 0 0	AG	6 AG 4 0	0 AG 0 0	0 AG 0 0	0 AG 0 0	0 AG 0 0	0 AG 0 0
	EXPORTS	Nicaragua (OS)	MA Total AG	1 1 MA 1	0 -10 -5	AG	2 9 MA 4	0 0 AG 0	0 2 AG 2	0 0 ALL 0	0 0 ALL 0	0 0 AG 0
	<u> </u>	Chile	MI MA Total	-1 4 <i>0</i> MI	-1 -1 <i>-3</i>	AG	0 6 1 MA	0 0 0 MI	0 0 0 AG	0 0 0 MA	0 0 0 MI	0 0 1 MI
		(OC)	AG MI MA	-1 1 0	-1 -1 -1	710	0 0 1	0 0	0 0 0	0 0	0 0	0 1 0
ſ	E)	Brazil (CP)	Total AG MI	0 AG 1	<i>-8</i> -1 -1	MA	3 MA 0 0	0 AG 0	1 AG 1 0	1 MA 0 0	1 MI 0	1 MI 0
	EUROPE	Switzerland (CN)	MA Total AG	-2 4 MA 0	-6 -7 0	MA	3 1 MA 0	0 3 MA	0 2 MA 0	0 1 MA 0	0 2 MA 0	0 2 MA 0
	TO	Albania	MI MA Total	0 4 2 MA	0 -7 0	MA	0 1 0 MA	0 3 2 MA	0 2 0 ALL	0 1 0 ALL	0 2 0 ALL	0 1 0 ALL
	EXPORTS	(OC)	AG MI	0	0	IVIA	0 0	0	0	0 0	0 0	0
Ĺ		Seychelles (ON)	MA Total AG	2 172 MI -2	-2 -2	AG	0 0 ALL 0	2 0 ALL 0	0 0 ALL 0	0 1 AG 1	0 174 MI 0	0 -1 AG -1
Γ	Т	India (OC)	MI MA Total AG	174 0 5 MA	0 0 -5 0	MA	0 0 0 MA 0	0 0 0 MA 0	0 0 2 MA 0	0 0 1 MA 0	174 0 4 MA	0 0 1 MA 0
	IDDLE EAST	Pakistan (CN)	MI MA Total AG	1 3 4 MI 2	0 -4 -15 0	MA	0 0 1 MA 0	0 0 2 MA 0	0 2 1 MA 0	0 1 3 MA 0	1 3 10 MA	1 1 2 MA 0
	\mathbf{z}	Azerbaijan (CC)	MI MA Total AG	2 0 3 MA 1	0 -15 0 0	MI	0 1 0 MI 0	0 2 -1 MI 0	0 1 2 MA 1	0 2 0 MI 0	1 8 3 MI	0 2 0 MA 0
	EXPORTS TO	Kazakhstan (CC)	MI MA Total AG	1 2 MA 1	0 0 -2 0	MI	0 0 0 MI 0	-1 0 0 MI 0	-1 1 2 MA 1	0 0 0 AG 0	2 0 2 MI 0	0 1 MI 0
_		Egypt	MI MA Total	-2 3 1 MI	-2 0 -4 0	MA	0 0 0 MA	0 0 0 MA	-1 2 0 AG	0 0 1 MA	2 0 3 MA	0 0 1 MI
	FRICA	Algeria	AG MI MA Total	1 1 1 -4 MI	-1 -2 <i>-3</i>	MI	0 0 0 0 MI	0 0 0 -1 MI	0 0 0 0 MI	0 1 0 MI	1 2 0 MA	0 1 0 0 MI
	ORTS TO AFRICA	(ON)	AG MI MA	0 -4 0	-3 0		0 0 0	0 -1 0	0 0 0	0 0 0	0 0 0	0 0 0
	ORT	Suriname	Total	-6 MI	-5	MI	0 AG	-1 MI	0 ALL	<i>0</i> MI	0 ALL	0 AG

Table A10. Selected economies' GEO contribution shares to change in total exports, 2002-2007 (current prices) *(continued)* (Percentage)

	Country	Product	GEO	_	N	lA	C	SC	Eu	R	С	IS	A	FR	ME	Α	А	SI
	(OC)	AG MI	0		0		0		0		0		0		0		0	
		MA	-5 0		-4 0		0		-1 0		0 0		0		0		0 0	
	New Zealand	Total		٨G	-8	AG	0	MA	1	AG	0	AG	1	AG	1	AG	3	MA
	(CN)	AG	-4	-	-4		0		0		0		0		1		-2	
		MI	1		0		0		0		0		0		0		1	
		MA	-1		-3		0		0		0		0		0		2	
	Thailand (CP)	Total		ИΑ	<i>-7</i> -1	MA	0	MA	0 0	MA	0 0	MA	1 0	MA	2 0	MA	<i>3</i>	MA
	(CP)	AG MI	-1 1		-1		0		0		0		0		0		1	
4		MA	-1		-6		0		0		0		0		1		3	
EXPORTS TO ASIA	LDCs	Total	-1 1	MI	-4	MI	0	MA	0	AG	0	AG	0	AG	1	AG	2	MI
W ((OC)	AG	0		0		0		0		0		0		0		0	
1		MI	0		-2		0		0		0		0		0		2	
LIS	Malausia	MA	-2		-2		0		0		0		0		0		7	
0	Malaysia (ON)	Total AG	-1 N 0	ЛΑ	-11 0	MA	0	MA	0	MA	0 0	MA	1 0	MA	1 0	MA	0	MA
🕺	(011)	MI	2		0		0		0		0		0		0		2	
		MA	-4		-11		0		1		0		0		1		4	
	Japan	Total		ЛΑ	-20	MA	1	MA	1	MA	1	MA	1	MA	2	MA	6	MA
	(CN)	AG	0		0		0		0		0		0		0		0	
		MI	0		0		0		0		0		0		0		0	
	Philippines	MA Total	-9 -13 N	ЛΑ	-19 <i>-27</i>	MA	0	MA	2	MA	1 0	MA	0	MA	2 1	MA	5 11	MA
	(ON)	AG	-13 K	/IA	-27 -1	IVIA	0	IVIA	0	IVIA	0	IVIA	0	IVIA	0	IVIA	0	IVIA
	(3.1)	MI	1		0		0		0		0		0		0		1	
		MA	-13		-26		0		2		0		0		0		10	
	China	Total		ЛΑ	-5	MA	0	MA	0	MA	1	MA	0	MA	1	MA	1	MA
y	(CC)	AG	0		0		0		0		0		0		0		0	
CIS		MI MA	0 -1		0 -5		0		0 0		0 1		0		0 1		0	
2	Norway	Total		MI	-4	MI	0	MA	-2	MI	1	AG	0	MA	0	MA	1	MI
2	(ON)	AG	0	•••	0	••••	0		0		0	710	0		0	1417 (0	
		MI	-4		-3		0		-2		0		0		0		0	
EXPORTS TO		MA	1		-1		0		0		0		0		0		0	
율	Ecuador	Total		MI	-9	MI	1	MA	0	AG	<i>2</i> 2	AG	0	AG	0	AG	1	MI
	(OC)	AG MI	0 -4		-4 -4		0 -1		0		0		0		0 0		0 1	
		MA	1		-1		2		0		0		0		0		0	
	Israel	Total	-13 N	ЛΑ	-23	MA	1	MI	1	MI	4	MI	1	AG	0	MA	2	MI
	(ON)	AG	0		0		0		0		0		0		0		0	
		MI	0		0		0		0		0		0		0		0	
	Bolivia	MA Total	-13 -2 I		-22 -3	N 4 A	1	40	1	N.A.I	4 0	۸.	1 0	N / A	0 0	N 4 A	2	NAI
	(CP)	AG	1 1	MI	0	MA	1	AG	-1 0	MI	0	AG	0	MA	0	MA	0	MI
	(61)	MI	-1		-1		-1		0		0		0		0		0	
		MA	-1		-2		1		0		0		0		0		0	
	Peru	Total	-4 1	MI	-4	MI	1	MA	-2	MI	0	AG	0	MI	0	AG	1	MI
	(OC)	AG	-1		-1		0		0		0		0		0		0	
Csc		MI MA	-1 0		-2 -1		0		0 0		0 0		0		0 0		1 0	
	Colombia	Total		MI	-12	MI	1 6	MA	0	AG	0	AG	0	MA	1	MI	0	MA
10	(OC)	AG	-2	•••	-2	1411	0	141/-1	0	, 10	0	, 10	0	141/-1	0	1411	0	1417-7
LS	` ′	MI	-6		-7		0		0		0		0		1		0	
g		MA	3		-3		6		0		0		0		0		0	
EXPORTS TO	Trinidad T.	Total		MI	-8	MI	1	MA	0	MI	0	ALL	0	MA	0	MA	0	MI
田	(CC)	AG MI	0		0		0		0		0		0		0		0	
ш		MI	-5		-4		0		0		0		0		0		0	

EXPORT TO EUR

Table A10. Selected economies' GEO contribution shares to change in total exports, 2002-2007 (current prices) (continued) (Percentage)

Country	Product	GEO)	N	lA	Cs	SC	Eui	3	C	IS	А	FR	M	EΑ	A	SI
	MA	-2		-3		1		0		0		0		0		0	
USA	Total	-11	MA	-24	MA	4	MA	1	MA	2	MA	1	MA	2	MA	3	MA
(CN)	AG	-1		-1		0		0		0		0		0		0	
	MI	-1		-1		0		0		0		0		0		0	
	MA	-9		-21		4		1		1		1		2		3	
Costa Rica	Total	-17	MA	-28	MA	9	MA	1	AG	0	AG	0	MA	0	MA	1	MA
(ON)	AG	-5		-7		1		1		0		0		0		0	
	MI	-1		0		0		0		0		0		0		0	
	MA	-11		-20		9		0		0		0		0		1	
Jamaica	Total	-18	MI	-22	MI	2	MA	-1	MI	0	MI	1	MI	0	ALL	1	MI
(ON)	AG	-3		-3		0		0		0		0		0		0	
	MI	-14		-15		0		-1		0		1		0		1	
	MA	-2		-4		2		0		0		0		0		0	
Guatemala	Total	-35	MA	-45	MA	9	MA	0	AG	1	AG	0	AG	1	AG	0	AG
(ON)	AG	-3		-6		1		0		1		0		1		0	
	MI	-2		-2		0		0		0		0		0		0	
	MA	-18		-26		8		0		0		0		0		0	
Mexico	Total	-53	MA	-55	MA	2	MA	0	MA	0	MA	0	MA	0	MA	0	MA
(ON)	AG	-2		-2		0		0		0		0		0		0	
	MI	-4		-4		0		0		0		0		0		0	
	MA	-47		-48		2		0		0		0		0		0	
Canada	Total	-55	MA	-57	MA	0	MA	0	MA	0	MA	0	AG	0	MA	0	MI
(CN)	AG	-4		-4		0		0		0		0		0		0	
, ,	MI	-8		-9		0		0		0		0		0		0	
	MA	-37		-38		0		0		0		0		0		0	
Iceland	Total	-1	MI	-4	AG	0	MA	1	AG	1	AG	1	AG	0	MA	0	AG
(ON)	AG	-1		-3		0		1		0		0		0		0	
• •	MI	-1		0		0		-1		0		0		0		0	
	MA	0		-1		0		0		0		0		0		0	

Note: Total GEO effects also include effects from non-specified areas which are not shown in this table.

Legend:

CC: Consistent Confirmed Performer CP: Consistent Partial Performer CS: Consistent Slow

OC: Occasional Confirmed Performer OP: Occasional Partial Performer OS: Occasional Slow Performer

CN: Consistent Non-Performer ON: Occasional Non-Performer

Grey cells indicate the region with the maximum "shift" of exports. Grey figures indicate the region with the least "shift" in exports. Bold and italic GEO figures indicate positive GEO effects.

Table A11. Selected economies' COMPO contribution shares to change in total exports, 1996-2002 (current prices) (Percentage)

CAT	Country	Product	Shai 1996	re in 2002	2002/ 1996	Main X 2002	Тот	AL	COM	PO
					ricultur					
OS	Paraguay	Total	100	100	-9	AG	100	AG	200	AG
	5 ,	AG	82	85	-7		58		206	
		MI	1	1	-15		1		-1	
		MA	17	15	-22		40		-6	
OS	Nicaragua	Total	100	100	-15	AG	100	MA	93	AG
		AG	64	69	-8		35		100	
		MI	2	5	185		-19		-1 7	
ON	l laurannan	MA	33	20	-49	۸.	109	۸.	-7 59	۸.
ON	Uruguay	Total AG	100 62	100 61	-22 -23	AG	100 64	AG	65	AG
		MI	2	1	-44		3		-1	
		MA	36	36	-22		35		-5	
OS	Barbados	Total	100	100	-13	MA	100	AG	49	AG
	2000.000	AG	38	31	-29		82		67	
		MI	14	23	47		-49		-7	
		MA	48	44	-21		78		-11	
OS	Jamaica	Total	100	100	-20	MI	100	MA	7	AG
		AG	24	22	-24		29		28	
		MI	50	67	7		-17		-17	
	(0-)	MA	26	9	-71		94		-4	
ON	EU (27)	Total	100	100	17	MA	100	MA	-1	AG
		AG	11	10	-2		-2		-16	
		MI	5	6	24		8		2	
ON	Indonesia	MA Total	80 100	83 100	20 19	MA	94 100	MA	14 -2	AG
ON	iiiuuiiesia	AG	17	16	10	IVIA	9	IVIA	-21	AG
		MI	32	30	12		19		11	
		MA	51	54	25		69		8	
os	Malaysia	Total	100	100	20	MA	100	MA	-2	AG
	Í	AG	14	10	-16		-11		-16	
		MI	9	9	23		11		3	
		MA	76	80	26		99		11	
OC	Albania	Total	100	100	61	MA	100	MA	-3	AG
		AG	20	10	-22		-7		-8	
		MI	15	5	-42		-10		2	
00	- .	MA	65	81	102		108		3	
OC	Turkey	Total	100	100	<i>56</i>	MA	100	MA	-4 -9	AG
		AG MI	21 4	11 4	-21 44		-8 3		-9 0	
		MA	74	83	75		98		4	
ОС	India	Total	100	100	47	MA	100	MA	-5	AG
	IIIula	AG	21	13	-7	IVIA	-3	IVIA	-10	٨٥
		MI	5	8	123		13		1	
		MA	72	74	52		80		5	
ON	Canada	Total	100	100	25	MA	100	MA	-6	AG
		AG	16	13	0		0		-15	-
		MI	17	17	28		19		4	
		MA	62	63	27		68		8	
OC	Seychelles	Total	100	100	64	MI	100	MI	-6	AG
		AG	30	12	-36		-17		-11	
		MI	22	88	558		193		2	
	l	MA	48	0	-100		-76		2	
CP	Ukraine	Total	100	100	25	MA	100	MA	-8	AG
		AG	20	15	-7		-6		-19	

Except for 5 countries, effect in Agriculture is mostly negative in all countries and LDCs.

Table A11. Selected economies' COMPO contribution shares to change in total exports, 1996-2002 (current prices) (continued) (Percentage)

CAT	Country	Product	Shar 1996	e in 2002	2002/ 1996	Main X 2002	Тота	AL	COM	IPO
		MI	13	18	77		39		3	
ON	1104	MA	66	66	24	N 4 A	65	1.4.4	8	40
ON	USA	Total AG	100 13	100 10	11 -16	MA	100 -19	MA	-9 -27	AG
		MI	4	4	-3		-13 -1		2	
		MA	78	82	18		123		21	
OC	Guatemala	Total	100	100	<i>105</i>	MA	100	MA	-13	AG
		AG	66	30	-7 117		-4		-15	
		MI MA	4 31	5 51	147 243		5 71		0 1	
ON	Pakistan	Total	100	100	6	MA	100	MA	-14	AG
		AG	15	12	-15		-34		-55	
		MI	1	2	130		20		1	
ON	Curinama	MA	84	85	8	MI	109	N // I	40	۸.
ON	Suriname	Total AG	100 23	100 19	10 -11	MI	100 -25	MI	-15 -55	AG
		MI	69	80	26		184		46	
		MA	2	1	-8		-1		0	
OP	Peru	Total	100	100	32	MI	100	MI	-15	AG
		AG	31	25	9		9		-22	
		MI MA	44 14	39 16	17 52		23 23		9 1	
СР	Thailand	Total	100	100	22	MA	100	MA	-17	AG
		AG	25	18	-11		-13		-26	
		MI	2	4	98		10		1	
00	Ocata Dica	MA	71	75	28		89		10	4.0
OC	Costa Rica	Total AG	100 72	100 35	89 -9	MA	100 -7	MA	-18 -19	AG
		MI	2	2	68		2		0	
		MA	25	63	373		106		1	
CP	Bolivia	Total	100	100	26	MI	100	MI	-21	AG
		AG	38	34	<i>11</i>		17		-34	
		MI MA	45 16	44 16	21 25		36 15		11 2	
OP	Serbia &	Total	100	100	24	MA	100	MA	-22	AG
		AG	32	27	4		6		-32	
		MI	17	16	14		10		5	
CD	Dro-il	MA	49	57 100	44	NAA	92	1.4.0	6	۸.
CP	Brazil	Total AG	100 34	100 32	26 20	MA	100 25	MA	-22 -30	AG
		MI	11	14	58		24		3	
		MA	53	52	24		48		6	
OS	Chile	Total	100	100	18	MI	100	AG	-32	AG
		AG MI	37 45	36 40	<i>15</i> 5		30 12		-48 16	
		MA	13	15	39		28		2	
ON	Colombia	Total	100	100	12	MA	100	MA	-38	AG
		AG	32	25	-15		-40		-64	
		MI	37	37	12		39		20	
ONI	Augtro!:	MA	29	38	43	N 4 1	109	N A I	8	۸.
ON	Australia	Total AG	100 29	100 26	8 -5	MI	100 -18	MI	-59 -85	AG
		MI	35	40	23		98		28	
		MA	27	24	-1		-4		10	
OS	Iceland	Total	100	100	18	AG	100	MI	-97	AG
		AG	77 11	65 20	117		-1 72		-103	
		MI MA	11 11	20 14	117 43		72 28		4 2	

Table A11. Selected economies' COMPO contribution shares to change in total exports, 1996-2002 (current prices) (continued) (Percentage)

CAT	Country	Product	Shai 1996	re in 2002	2002/ 1996	Main X 2002	Тот	AL	COM	РО
OS	Argentina	Total AG MI	100 56 14	100 47 21	8 -9 60	AG	100 -60 105	MI	-140 -163 11	AG
ON	South Africa	MA Total AG MI	30 100 14 24	30 100 13 27	9 2 -5 13	MA	35 100 -36 186	MA	11 -153 -185 92	AG
ON	Kenya	MA Total AG	41 100 64	45 100 54	13 6 -10	AG	313 100 -105	MI	72 -216 -238	AG
ON	Ecuador	MI MA Total AG	10 26 100 53	19 26 100 49	111 5 3 -4	AG	173 20 100 -73	MI	10 13 -324 -399	AG
ON	New	MI MA Total AG	37 8 100 61	41 9 100 59	16 23 2 -2	AG	190 58 100 -58	MA	77 8 -670 -724	AG
		MI MA	7 30	6 30	-12 2		-41 36		22 46	
	r =				and Mir					
CP	Russian	Total AG	100 8	100 8	<i>21</i> 29	MI	100 11	MI	<i>12</i> -8	MI
		MI MA	58 30	62 25	29 29 1		82 1		-o 18 4	
OP	Norway	Total AG	100 9	100 7	<i>22</i> 0	MI	100	MI	-10	MI
OC	Algeria	MI MA Total AG	62 23 100 1	67 21 100 0	<i>32</i> 14 <i>69</i> -67	MI	90 15 100 -1	MI	19 3 9 0	MI
CC	Trinidad T.	MI MA Total AG	94 5 100 8	97 2 100 7	<i>76</i> -19 <i>51</i> 18	MI	103 -1 100 3	MI	9 0 5 -4	MI
СР	Egypt	MI MA Total AG	51 41 100 15	60 33 100 17	80 22 33 50	MA	79 18 100 22	MA	6 2 3 -10	MI
СС	Kazakhstan	MI MA Total AG MI	54 32 100 15 53	34 42 100 6 76	-17 76 <i>64</i> -32	MI	-27 72 100 -8 112	MI	11 3 1 -5 5	MI
CC	Azerbaijan	MA Total AG	32 100 13	15 100 4	136 -24 243 15	MI	-12 100 1	MI	2 1 -1	MI
OC	LDCs	MI MA Total AG MI	68 20 100 29 33	90 5 100 20 41	356 -17 51 7 88	MI	99 -1 100 4 57	MI	2 0 -9 -13 4	MI
		MA	28	35	87		48		2	
011	0:	T-1-1			nufactur		400	B 4 4	17.15	N 4 A
ON	Singapore	Total AG	100 4	100 3	0 -40	MA	100	MA	<i>1745</i> -867	MA
		MI MA	11 83	9 85	-40 -21 1		1005		598 2107	

Table A11. Selected economies' COMPO contribution shares to change in total exports, 1996-2002 (current prices) (continued) (Percentage)

CAT	Country	Product	Sha		2002/	Main X	Тот	ΔI	COM	PΩ
	,		1996	2002	1996	2002				
ON	Japan	Total	100	100	1	MA	100	MI	171	MA
		AG	1	1	3		2		-17	
		MI	2	2	7		8		7	
		MA	95	93	-1		-37		200	
ON	Switzerland	Total	100	100	15	MA	100	MA	14	MA
		AG	4	3	-5		-1		-5	
		MI	3	6	152		26		1	
		MA	94	91	12		75		19	
CP	Korea	Total	100	100	<i>25</i>	MA	100	MA	7	MA
		AG	3	2	-12		-2		-3	
		MI	4	5	73		11		1	
		MA	89	92	29		104		11	
OP	Tunisia	Total	100	100	<i>25</i>	MA	100	MA	5	MA
		AG	8	7	8		3		-8	
		MI	12	11	13		6		3	
		MA	80	82	27		89		10	
OC	Israel	Total	100	100	43	MA	100	MA	3	MA
		AG	7	4	-10		-2		-4	
		MI	2	3	155		6		0	
		MA	91	92	45		95		6	
OC	Mexico	Total	100	100	<i>68</i>	MA	100	MA	2	MA
		AG	8	6	23		3		-3	
		MI	14	10	21		4		1	
		MA	78	84	81		93		3	
CC	China	Total	100	100	116	MA	100	MA	1	MA
		AG	10	6	26		2		-2	
		MI	6	4	57		3		0	
		MA	84	90	130		95		2	
OC	Philippines	Total	100	100	<i>72</i>	MA	100	MA	0	MA
		AG	11	6	-13		-2		-4	
		MI	5	3	-10		-1		0	
		MA	83	91	89		103		4	
	World	Total	100	100	20	MA				
		AG	12	9	-3					
		MI	12	13	27					
		MA	74	75	23					

Note: Total COMPO effects also include effects from non-specified products which are not shown in this table.

Legend: CC: Consistent Confirmed Performer CP: Consistent Partial Performer CS: Consistent Slow

OC: Occasional Confirmed Performer OP: Occasional Partial Performer OS: Occasional Slow Performer

CN: Consistent Non-Performer ON: Occasional Non-Performer

Grey cells indicate the positive Compo effects.

Bold and italic figures indicate growth rates which are higher than the "World" growth rate for the sector.

Table A12. Selected economies' COMPO contribution shares to change in total exports, 2002-2007 (current prices) (Percentage)

CAT	Country	Product	Shar		2007/	Main	То	tal	CON	1PO
			Z002	2007	2002	2007				
OC	Paraguay	Total	Effects 100	in Agric 100	<u>194</u>	AG	100	AG	-11	AG
00	raiaguay	AG	85	85	194 195	AG	85	AG	-10	AG
		MI	1	1	163		1		1	
		MA	15	13	172		13		-1	
os	Nicaragua	Total	100	100	114	AG	100	AG	-13	AG
	Modragaa	AG	69	77	138	710	84	,,,	-14	,,,
		MI	5	3	18		1		5	
		MA	20	12	34		6		-3	
OC	Uruguay	Total	100	100	142	AG	100	AG	-14	AG
		AG	61	64	151		65		-10	
		MI	1	5	865		8		1	
		MA	36	30	97		25		-4	
ON	New	Total	100	100	88	AG	100	AG	-15	AG
		AG	59	59	88		59		-16	
		MI	6	9	198		13		8	
		MA	30	28	72		25		-6	
011	l		ffects in I				400		170	
ON	Seychelles	Total	100	100	58	AG	100	AG	179	MI
		AG	12	55	643		130		-5	
		MI MA	88 0	43 2	-23		-35 5		184 0	
ON	lamaiaa		100	100	 74	MI	100	MI	98	N/I
ON	Jamaica	Total AG	22	17	74 29	IVII	9	IVII	-7	MI
		MI	67	76	99		89		108	
		MA	9	6	18		2		-2	
ON	Norway	Total	100	100	129	MI	100	MI	57	MI
	Norway	AG	7	6	72		4		-1	
		MI	67	73	149		77		62	
		MA	21	18	92		15		-3	
ON	Algeria	Total	100	100	220	MI	100	MI	53	MI
		AG	0	0	84		0		0	
		MI	97	98	222		98		53	
		MA	2	1	67		1		0	
OC	Suriname	Total	100	100	199	MI	100	MI	46	MI
		AG	19	19	199		19		-2	
		MI	80	80	199		80		48	
- AL		MA	1	1	199		1		0	
ON	Australia	Total	100	100	117	MI	100	MI	30	MI
		AG	26	17	46		10		-5	
		MI MA	40 24	55 19	201 71		68		41 -3	
CP	Russian	Total	100	100	231	MI	15 100	MI	29	MI
OF	Nussiaii	AG	8	7	169	IVII	6	IVII	-1	IVII
		MI	62	73	284		77		33	
		MA	25	19	162		17		-2	
CC	Azerbaijan	Total	100	100	384	MI	100	MI	28	MI
		AG	4	5	487		5		0	
		MI	90	88	373		87		28	
		MA	5	4	276		3		0	
ON	Indonesia	Total	100	100	99	MA	100	MI	23	MI
		AG	16	21	164		26		-4	
		MI	30	36	144		43		36	
		MA	54	42	56		30		-9	
CC	Trinidad T.	Total	100	100	289	MI	100	MI	23	MI

Positive COMPO effects are only in the Fuels and Mining sector. Even countries which are not oil exporters benefited from the strong fuel import demand.

Table A12. Selected economies' COMPO contribution shares to change in total exports, 2002-2007 (current prices) *(continued)* (Percentage)

CAT	Country	Product	Share 2002	2007	2007/ 2002	Main 2007	То	tal	COM	РО
		AG	7	3	53		1 72		-1	
		MI MA	60 33	69 28	<i>344</i> 235		27		25 -2	
CC	Kazakhstan	Total	100	100	394	MI	100	MI	22	MI
		AG	6	3	164		3		0	
		MI	76	84	449		86		23	
		MA	15	11	255		10		-1	
OC	LDCs	Total	100	100	<i>155</i>	MI	100	MI	21	MI
		AG MI	20 41	13 64	57 <i>296</i>		7 79		-3 28	
		MA	35	22	2 <i>90</i> 65		15		-3	
OC	Colombia	Total	100	100	152	MA	100	MA	21	MI
		AG	25	20	101		16		-4	
		MI	37	39	165		40		29	
		MA	38	39	162		40		4	
OC	Ecuador	Total	100	100	174	MI	100	MI	21	MI
		AG	49	31	71 205		20		-7	
		MI MA	41 9	61 8	<i>305</i> 130		72 7		28 -1	
СР	Bolivia	Total	100	100	251	MI	100	MI	16	MI
01	Donvia	AG	34	16	70	1411	9	1411	-3	1411
		MI	44	74	498		86		21	
		MA	16	7	52		3		1	
ON	Barbados	Total	100	100	86	MA	100	MA	15	MI
		AG	31	19	13		5		-9	
		MI	23	32	158		43		32	
ON	South Africa	MA Total	44 100	49 100	106 <i>135</i>	MA	54 100	MI	-8 <i>14</i>	MI
ON	South Amea	AG	13	8	52	IVIA	5	IVII	-2	IVII
		MI	27	39	241		48		24	
		MA	45	46	137		46		-5	
OC	Peru	Total	100	100	262	MI	100	MI	13	MI
		AG	25	15	114		11		-2	
		MI	39	58	437		65		18	
ОС	Chile	MA Total	16 100	12 100	165 <i>276</i>	MI	10 100	MI	-1 <i>13</i>	MI
00	Crille	AG	36	20	108	IVII	14	IVII	-3	IVII
		MI	40	64	499		72		17	
		MA	15	10	135		8		-1	
CP	Egypt	Total	100	100	244	MI	100	MI	11	MI
		AG	17	10	102		7		-2	
		MI	34	61	531		73		17	
ON	Canada	MA	42	28	131	N 4 A	22	MI	-3	N A I
ON	Canada	Total AG	100 13	100 12	66 49	MA	100 10	MI	-5	MI
		MI	17	29	187		48		31	
		MA	63	54	42		40		-15	
ON	Argentina	Total	100	100	117	AG	100	AG	7	MI
		AG	47	52	137		55		-10	
		MI	21	15	53		10		21	
	14	MA	30	31	120		31		-4	
ON	Kenya	Total	100	100	93	AG	100	AG	7	MI
		AG	54 10	55 6	98 30		57		-14 25	
		MI MA	19 26	6 37	-39 176		-8 49		25 -5	
ON	Iceland	Total	100	100	114	AG	100	MA	-5 5	MI
		AG	65	44	43		25	١	-14	
		MI	20	29	208		36		21	

Table A12. Selected economies' COMPO contribution shares to change in total exports, 2002-2007 (current prices) (continued) (Percentage)

CAT	Country	Product	Share 2002	nare in 2007/ Main 2 2007 2002 2007 Total		tal	СОМРО			
		MA	14	27	310		38		-2	
CP	Ukraine	Total	100	100	174	MA	100	MA	4	MI
		AG MI	15 18	14 11	154 76		13 8		-2 12	
		MA	66	72	200		76		-6	
OC	Serbia &	Total	100	100	326	MA	100	MA	1	MI
	00.0.0	AG	27	20	208		17		-2	
		MI	16	13	<i>252</i>		12		6	
		MA	57	67	396		69		-3	
	I 5 "		Effects in				400			
CP	Brazil	Total	100 32	100	<i>166</i> 152	MA	100 29	MA	0 -5	MA
		AG MI	14	30 20	291		29		-5 10	
		MA	52	47	143		44		-5	
ON	Tunisia	Total	100	100	119	MA	100	MA	-2	MA
		AG	7	10	210		12		-1	
		MI	11	20	289		27		11	
		MA	82	71	89		61		-11	
OC	Singapore	Total	100	100	139	MA	100	MA	-3	MA
		AG	3	2	76		1		0	
		MI	9	15	320		20		8	
ОС	India	MA Total	85 100	77 100	119 195	MA	72 100	MA	-10 -4	MA
00	IIIuia	AG	13	11	145	IVIA	100	IVIA	- 4 -2	IVIA
		MI	8	24	825		33		5	
		MA	74	64	152		58		-6	
CC	China	Total	100	100	274	MA	100	MA	-4	MA
		AG	6	3	107		2		0	
		MI	4	3	209		3		2	
		MA	90	93	288		94		-5	
ON	Mexico	Total	100	100	69	MA	100	MA	-4	MA
		AG	6	6	75		6		-2	
		MI MA	10 84	18 75	209 51		30 62		17 -20	
ОС	Albania	Total	100	100	215	MA	100	MA	-20 -5	MA
	Albania	AG	100	9	184	IVIA	8	IVI/A	-3 -1	IVIZ
		MI	5	14	726		18		3	
		MA	81	71	173		65		-6	
ON	Malaysia	Total	100	100	87	MA	100	MA	-5	MA
		AG	10	12	125		14		-3	
		MI	9	16	212		23		13	
00	Tumbasi	MA	80	71	67 107	NAA	61	N 4 A	-15	N / A
OC	Turkey	Total AG	100 11	100 10	<i>197</i> 168	MA	100 9	MA	-6 -1	MA
		MI	4	7	467		9		2	
		MA	83	81	191		80		-7	
CP	Korea	Total	100	100	129	MA	100	MA	-7	MA
		AG	2	2	63		1		0	
		MI	5	9	290		12		5	
		MA	92	89	122		87		-12	
ON	EU (27)	Total	100	100	102	MA	100	MA	-9	MA
		AG	10	9	93		9		-2	
		MI	6	9	214		12		7 12	
ON	Switzerland	MA Total	83 100	80 100	95 87	MA	77 100	MA	-13 -10	MA
ON	Switzeriand	AG	3	3	124	IVI	4	IVIA	-10 -1	IVIA
		MI	6	6	94		6		8	
		MA	91	90	85		89		-17	

Table A12. Selected economies' COMPO contribution shares to change in total exports, 2002-2007 (current prices) (continued) (Percentage)

CAT	Country	Product	Shar 2002	re in 2007	2007/ 2002	Main 2007	Total		СОМРО	
CP	Thailand	Total	100	100	126	MA	100	MA	-10	MA
		AG	18	16	101		15		-3	
		MI	4	6	271		8		4	
		MA	75	76	129		77		-10	
ON	Israel	Total	100	100	84	MA	100	MA	-15	MA
		AG	4	4	78		4		-1	
		MI	3	5	172		6		4	
		MA	92	89	78		86		-18	
ON	Pakistan	Total	100	100	80	MA	100	MA	-18	MA
		AG	12	13	94		14		-4	
		MI	2	7	467		12		3	
		MA	85	80	69		73		-17	
ON	USA	Total	100	100	68	MA	100	MA	-18	MA
		AG	10	10	65		10		-3	
		MI	4	7	241		13		6	
		MA	82	78	59		72		-20	
ON	Guatemala	Total	100	100	66	MA	100	AG	-20	MA
		AG	30	41	129		58		-11	
		MI	5	9	231		16		8	
		MA	51	50	61		48		-13	
ON	Japan	Total	100	100	71	MA	100	MA	-20	MA
		AG	1	1	69		1		0	
		MI	2	4	288		7		3	
		MA	93	90	65		85		-21	
ON	Costa Rica	Total	100	100	78	MA	100	MA	-21	MA
		AG	35	33	69		31		-11	
		MI	2	2	119		3		3	
		MA	63	65	82		66		-13	
ON	Philippines	Total	100	100	43	MA	100	MA	-30	MA
		AG	6	6	54		7		-3	
		MI	3	8	314		19		7	
	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	MA	91	85	34		71		-34	
	World	Total	100	100	116	MA				
		AG	9	8	92					
		MI	13	20	236					
		MA	75	70	100					

Note: Total COMPO effects also include effects from non-specified products which are not shown in this table.

Legend: CC: Consistent Confirmed Performer CP: Consistent Partial Performer CS: Consistent Slow

OC: Occasional Confirmed Performer OP: Occasional Partial Performer OS: Occasional Slow Performer

CN: Consistent Non-Performer ON: Occasional Non-Performer

Grey cells indicate the positive Compo effects.

Bold and italic figures indicate growth rates which are higher than the "World" growth rate for the sector.