Assessment of Arab Export Competitiveness in International Markets using Trade Indicators

Walid Abdmoulah Belkacem Laabas

API/WPS 1010

Correspondence

Dr. Walid Abdmoulah, The Arab Planning Institute, P.O. Box: 5834 Safat. 13059 Kuwait, Tel: (965) 24843130, Fax: (965) 24842935, E-mail: walid@api.org.kw.

Dr. Belkacem Laabas, The Arab Planning Institute, P.O. Box: 5834 Safat. 13059 Kuwait, Tel: (965) 24843130, Fax: (965) 24842935, E-mail: belkacem@api.org.kw.

Assessment of Arab Export Competitiveness in International Markets using Trade Indicators

Walid Abdmoulah Belkacem Laabas

Abstract

Most of the Arab countries face the daunting task of accelerating economic growth and creating jobs for a fast growing young labor force. In an open economic environment, export development can help achieve the growth challenge. The paper used a host of quantitative indicators that summarize the extent of Arab export competitiveness. The data used in the analysis are based on trade flows disaggregated at the three level digits (ISTC) for the years 2000 and 2006⁽¹⁾. The results show that most Arab economies face difficulties in sustaining and developing a competitive trade sector because of lagging industrialization and slow structural transformation, weak supply of exportable commodities, excess reliance on natural resources and primary products in low technology sectors, and low level of integration in the global production chains.

تقييم القدرة التنافسية للصادرات العربية في الأسواق الدولية باستخدام مؤشرات التجارة ملخص

تواجه معظم الدول العربية مهمة صعبة من أجل تسريع وتيرة النمو الاقتصادي للحد من بطالة الشباب المتنامية. وتشكل تنمية الصادرات، في بيئة اقتصادية مفتوحة، أمثل السبل لرفع هذا التحدي. تقوم هذه الورقة بتقييم القدرة التنافسية لصادرات الدول العربية اعتماداً على مجموعة من المؤشرات الكمية وباستخدام بيانات التجارة الخارجية المفصلة إلى المستوى الثالث لعامي 2000 و2006. تخلص الورقة إلى استحالة الحفاظ على تنافسية قطاع الصادرات بسبب تخلف التصنيع وبطء التحول الهيكلي وضعف العرض من السلع الأساسية وزيادة الاعتماد على الموارد الطبيعية وانخفاض مستوى الاندماج في سلاسل الإنتاج العالمية.

1. Introduction

Most of the Arab countries⁽²⁾ had engaged, prior to mid eighties and with varying degrees, in a development strategy based on inward looking development strategies characterized mainly by import substitution industrialization, large government intervention assorted with high levels of protection and investment financed mainly by oil rents and external debt⁽³⁾, aid and remittances. Despite registering respectable high economic growth rates, this strategy failed to sustain growth because of severe binding inefficiency and balance of payments constraints. By mid eighties most of the non oil exporting countries, and Algeria, resorted to IMF sponsored stabilization and structural adjustment programs as well as external debt rescheduling with Paris club creditors in order to re-establish balance of payments equilibrium⁽⁴⁾. During the sixties average Arab economic growth (Simple average period in year to year percentage change in GDP per capita in constant US\$) was 2.0 % pa and 2.8 % during the seventies and collapsed to just -1.0 % during the eighties, 1.6 % during the nineties. Growth picked to 2.8 % pa between 2000 and 2008 (see Table 1 in Appendix). Economic growth of this magnitude is only sufficient to keep unemployment stationary at historical high levels. Unemployment rate outside the GCC countries was around 17 %, more than three times the world average in 2008 (ILO, KLIM database). In an attempt to revive growth Arab countries changed course and embarked on a development strategy based on transition to a "liberal market economy" hoping to enhance the export sector in order to relieve such binding constraints⁽⁵⁾. However the pace of reforms were very slow, piecemeal, lukewarm, in a stop and go fashion thereby in most cases, it lost momentum and credibility.

The group of Gulf countries endowed with large deposits of hydrocarbon (oil and gas) specialized in the extraction and sales of these resources, maintained a fairly open economic environment and used rents to achieve high level of economic and social development despite the resource curse manifested in large non tradable sector and volatile and low economic growth⁽⁶⁾. Algeria, Iraq (up to the end of the eighties) and Libya are also oil based economies however their economic development experience is different. Typically these economies followed an Import Substitution Strategy (ISI) with high levels of protection and state monopoly over most aspects of economic activity. The strategy was interrupted in Algeria in the mid eighties because the oil price decline coincided with spiraling external debt payments. The invasion of Kuwait in 1990 and the ensuing events halted economic development in Iraq, and in Libya, USA sanctions and lack of reforms and stability also blocked economic development in this oil rich country. As a result, all oil producing countries despite having a good financial leverage face a difficulty of achieving the structural transformation needed to diversify the economy that permit the emergence of industrial sector capable of sustaining non oil exports. Although early development pioneers such as Lewis (1955) and Rostow (1960), and based on the Keynesian Harrod-Domar model resource gap, they foresaw that resource endowed countries have better chances of economic development. However, before them Prebisch (1950) and Singer (1950) warned against terms of trade deterioration of primary exports that potentially could harm the development of resource based economies. Corden and Neary (1982) and Corden (1984) emphasized the role of the appreciation of the real exchange rate thereby shifting resources from tradable to non-tradable. This process is known as the Dutch Disease. The real appreciation of the exchange rate impedes economic diversification and increases dependence on volatile commodity markets. The recent resource curse literature emphasizes the negative effects on development of rent seeking behavior as they are captured by the ruling elite (Davis and Tilton, 2005), stunt institutions

(Sala-i-Martin and Subramanian, 2003) and a grater conflict for rents control and probability of civil conflict (Collier and Hoeffler, 2005), and general waste and corruption (Leite and Weidmann, 2002). In fact the academic assessment of the role of oil in development and mostly on economic growth still unsettled. Models based on growth regressions *a la* Barro confirm the negative impact of oil on economic growth (see for example Hakura (2004) Makdissi et al (2007)), however models that explains income differences confirm that oil impact on development was overall positive(see for example Alexeev and Conrad (2009))⁽⁷⁾.

Arab economies are facing the daunting challenge of accelerating growth, alleviating poverty and fighting unemployment by adopting a development strategy based on the transition to a market economy and by shifting policies from inward to outward development orientation by attracting more Foreign Direct Investment (FDI) and encouraging manufactured exports. The returns of this strategy hitherto are believed to be minor because countries still find it very hard to build a supply capacity and a competitive export sector. One way of evaluating the degree of success of such development orientation is by looking at the structural shift in the export sector at a fairly detailed commodity level in order to be able to pinpoint the trend and the progress made in enhancing the prospects of such a development model. This paper is primarily concerned with the assessment of Arab export competitiveness, and provides new empirical evidence based on the computation of structural trade indicators at a fairly detailed goods level⁽⁸⁾. In fact, the paper also update on the previous work of Yeats and Ng (2000), Haddad (2000), and Limam (2005), who used trade indicators to assess the prospects of Arab export sector. In our paper we use a larger sample of Arab and comparators countries as well as a larger array of trade based indicators and needless to say more up to date results. Thus, the objective of this paper is to assess the extent of goods export competitiveness in international markets, using a set of trade indicators computed from disaggregated data at the third SITC commodity level over the period 2000-2006. The analysis provides policy makers with valuable information on the stance of export promotion, and where success and potential failure lies.

The approach used in this paper to assess export competitiveness which is based on computing structural trade indicators complements the work based on composite competitiveness indicators such as those published by the World Economic forum (WEF), The Arab Planning institute (API) or the International Management Development (IMD) Institute. The three institutions publish regularly competitiveness reports where countries are ranked according to the quality of their national competitiveness environment, summarized by a myriad of qualitative and quantitative indicators. These indicators are a summary of the macro, financial, institutional, human and technological factors that are thought to have a direct and indirect bearing on the performance of firms in export markets. Composite indicators were criticized by Lal (2001.b) among others as being holistic and arbitrary, therefore are of little value to policy makers. In fact Lal (2001a, 2003) prefers an economic development approach where he concentrates on the analysis of the industrialization efforts and on the development of an export oriented manufacturing. The works of Lal (2003), Rodrick (2004) and Noland and North (2002), Westphal (1990) highlights the need for an active industrial policy in order to develop an outward oriented manufacturing sector. These studies also cast doubts on the ability of the neoliberal development strategy dubbed the "Washington Consensus" in promoting industrial development. Notwithstanding these critiques the finding of the paper should complement the information provided by composite indices of national competitiveness.

For an analysis of competitiveness using composite indicators for Arab countries see Laabas (2005) and Laabas (2008) for an assessment of the competitiveness and efficiency of Arab manufacturing sector. Policy induced distortions such as excessive trade barriers are believed to create a wedge between prices and cause resource mis-allocation and ultimately creates a bias against exports. Early studies of Krueger and Bhagwati and Ballassa concentrated on the assessments of trade distortions by means of effective protection rates and domestic resource cost. The computation of these indicators is constrained by the very limited availability of input-output tables. In this vein of analysis exchange rate behavior is regarded as reflect of the price and cost competitiveness (Neary, 2006). A real appreciation is regarded as a loss of such competitiveness. Some researchers found that exchange rate distortions negatively harm economic growth (Dollar, 1992) and inhibit manufactured exports (El-Badawi, 1996).

The paper is organized as follows. Section 2 explains the underlying trade indicators used in the assessment of export competitiveness as well as the data sources used in the computation of the indices. Section 3 provides an analysis of Arab export competitiveness using the indicators computed in the section 2. The emphasis is given to the role of competitiveness in enhancing Arab economic development. Section 4 concludes the paper.

2. Trade indicators of Export Competitiveness

Trade data come from COMTRADE database of the United Nations⁽⁹⁾. Data is available at highly disaggregated (256 commodities at ISIC 3 Digits Version 3) level that permits to minimize aggregation bias when computing the structural trade indicators of export competitiveness. Such indicators are computed for the benchmark years 2000, 2006 and 2007 depending on data availability. These benchmark periods were chosen so as to evaluate the latest progress in trade policies, and gauge the shifts operated in trade structures as a result of economic reforms implemented in most Arab countries, who aim to transit to market economy and to more outward trade orientation in order to achieve economic success through further exports of manufactured exports and hopefully mimic the East Asian Tigers. The sample includes all Arab countries that have comparable trade data at the required level of disaggregation. Thus the sample comprises Algeria, Bahrain, Egypt, Jordan, Kuwait, Lebanon, Morocco, Oman, Qatar, Saudi Arabia, Syria, Tunisia, United Arab Emirates, Yemen and Mauritania. The original intention was to include data for a larger period, but given the unavailability of data for Arab countries in the nineteenths the paper covers only the period 2000 and 2006-07.

There is panoply of trade indicators that were developed in trade literature that reflect the commodity export competitiveness in international markets⁽¹⁰⁾. In this paper we use growth rates of imports and exports between 2000 and 2006, commodity export shares in global markets, export structure, revealed comparative advantage (RCA), intra-industry trade (IIT), export similarity, export dynamics, diversification and concentration, and technological contents of exports (see Table 1 below for index definition). The combined use of such indicators is hoped to facilitate unveiling the nature of commodity exports and reflects the degree of export competitiveness⁽¹¹⁾. In this context it is assumed that progress in export competitiveness requires, among other things, enhanced real growth of the commodity exports, and less growth volatility; contributes to increase market share and enhances the country revealed comparative advantage in non-primary goods and also enhances intra-trade industry; reduces commodity concentration; improve technology content of goods exported; and also reflects more export dynamics in the sense that more exports are compatible with world demand and in the same time a retreat is made from traditional commodities where global demand is declining. From policy evaluation standpoint, and based on these indicators progress in export competitiveness is enhanced if one detect a build-up of a comparative advantage in new non-traditional commodities, a shift in export structure away from resource based commodities, a decline in export concentration, an increase in intra-industry trade, and an increase of the share of rising stars, and improving the technological content of the exports, and improving trade similarities and complementarities. From these attributes we can synthesize a competitiveness indicator that truly reflects progress toward making trade for development.

For comparison purposes, the sample also includes South Korea, South Africa, Malaysia, Portugal, Chili and Ireland. The choice is *ad hoc* and only made for the purpose of benchmarking Arab performance. However, we can argue that these comparator countries could be regarded a representing best practice group that Arab policy makers should benefit from their economic development experience taking into consideration different historical and initial conditions. The analysis covers, besides exports and imports trend, trade structure and competitiveness. In addition, we use several indices that assess complementarily of each country with Arab countries as a group. These indices include Relative Growth rates of exports and imports, Export dynamics, Intra Industry Trade (IIT), Revealed Comparative Advantage (RCA), Diversification, Concentration, Specialization, Complementarily and Similarity. First, indices are computed for each country. Then results are summarized in separate tables by index, sorted by technology level (resource based, low tech, medium tech and high tech, hereinafter RB, LT, MT and HT respectively) or by one digit SITC products classification groups. Results are reported in the Appendix. Table 1 briefly discusses what is meant by each indicator or index.

1- Growth rate	
1- Growth rate	$G_i = \left(\frac{X_{t2}}{X_{t1}}\right)^{(1/n-1)} \times 100$
	Where X_{t1} and X_{t2} are the trade values (exports or imports) of product i in the beginning period (t1) and the end period (t2), respectively and n the number of years.
2- Export Diversification Index This index intend to reveal highly or lowly exports dependent on relatively few products.	$DX_j = (\sum h_{ij} - h_i)/2$
exports dependent of relatively lew products.	where <i>hij</i> is the share of commodity <i>i</i> in the total exports of country <i>j</i> and <i>hi</i> is the share of the commodity in world exports.
3- Export Concentration Or Hirschmann (1958) index (H), which is calculated using the shares of all three-digit products in a country's exports.	$H_j = \sqrt{\left[\sum \left(\frac{x_i}{X_t}\right)^2\right]}$
	Where <i>xi</i> is country <i>j</i> 's exports of product <i>i</i> (at the three-digit SITC classification) and <i>Xt</i> is country <i>j</i> 's total exports. The lower is this index, the less cocentrated are a country's exports.
4-RCA (Revealed Comparative Advantage index) Suggested by Balassa (1965), the RCA captures	$RCA_{ij} = \frac{\left(x_{ij} / X_{it}\right)}{\left(x_{wj} / X_{wt}\right)}$
the degree of trade specialization of a country.	Where x_{ij} and x_{wj} are the values of country i's exports of product j and the world exports of product j and where X_{it} and X_{wt} refer to the country i's total exports and world total exports. A value of less than unity implies that the country has a revealed comparative disadvantage in the product. Similarly, if the index exceeds unity, the country is said to have a revealed comparative advantage in the product.

5- Export Specialization Index Like RCA this index provides product information on revealed specialization in the export sector of a country i.	$ES = {\binom{x_{ij}}{X_{it}}} / {\binom{m_{kj}}{M_{Kt}}}$
	Where x_{ij} and X_{it} are export values of country <i>i</i> in product <i>j</i> and total exports of country <i>i</i> , respectively, and where m_{kj} and M_{kt} are the import values of product <i>j</i> in market <i>k</i> and total imports in market <i>k</i> . The ES is similar to the RCA in that a value of the index less than unity indicates a comparative disadvantage and a value above unity represents specialization in this market.
6-IIT (intra-Industry Trade) Reveals the specialization degree in a given industry which allows the country to	$IIT = \left[sum(X_i + M_i) - sum \left X_i - M_i \right / \left(X_i + M_i \right) \right]$
increase its integration into the world economy. Havryllyshyn and kenzel (2000)	Where X_i and M_i represent exports and imports of products from industry <i>i</i> The index ranges between zero and one, with larger values indicating a greater level of trade between firms in the same industry.
7-Export Dynamics: commodities are regarded Dynamic if their share in global exports is increasing. If country's exports structure follows that of global markets means the country is enhancing export competitiveness. Trade Can (2005) World Bank.	By comparing changes in export shares in global markets ΔS_w and domestic markets ΔS_d between 2000 and 2006 we classify commodities as Rising Stars (FS), Falling Stars (FS), Missed Opportunities (MO), and Strategic Retreat (SR) according to the following rules. A commodity is regarded RS if $\Delta S_w > 0$ and $\Delta S_d > 0$, and FS $\Delta S_w < 0$ and $\Delta S_d > 0$, MO if $\Delta S_w > 0$ and $\Delta S_d < 0$ and SR $\Delta S_w < 0$ and $\Delta S_d < 0$.
8-Decomposition of Competitive Factors: Changes in Exports between two periods is decomposed to changes due to global demand changes, and due to market share (competitiveness) changes. Sources GATT (1966) and Kravis (1970).	Changes in exports due global demand is computed as follows: $\Delta E_{di} = \sum S_{0j}(D_{tj} - D_{0j}) \text{where E exports D is global demand, S is}$ commodity share in global demand, I is for exporting country during period 0 and t and j index of commodities. The competitiveness p0art is calculated as follows: $\Delta E_{ci} = \sum (S_{tj} - \Delta S_{0j}) D_{tj}$.
9- Export similarity index (Finger and Kreinin, 1979)	$S_{jk} = \left[\sum Min(X_{ij}, X_{ik})\right] * 100$
	Where Xij and Xik are industry i's export shares in country j's and country k's exports, which is Arab group here. The index varies between zero and 100, with zero indicating complete dissimilarity and 100 representing identical export composition.
10- Trade Complementarily Index Shows how well the structures of a country's	$TC_{ij} = 100 - \sum (m_{ik} - x_{ij} /2)$
(or a country with a block of countries) imports and exports match. Then, it provides useful information on potential Arab intraregional trade since it is computed with regards to Arab countries as partners. See	Where xij is the share of good i in the global exports of country j and mik is the share of good i in all imports of country k . The index is zero when no goods are exported by one country or imported by the other and 100 when the export and import shares exactly match.
Michaely (1996).	

3. Assessing Arab Exports Competitiveness

As stated previously, the goal is to gauge Arab export competitiveness and to find out to what extent Arab countries were successful in increasing and diversifying their trade away from resource based commodities to labor, capital or skill based intensive goods and catch up with other successful exporting countries, represented here the six comparator countries. Arab countries' trade patterns are examined in the following subsections through the study of their structures, competitiveness and dynamics, as well as complementarities between Arab countries.

3.1 Economic Development and Export Supply Capacity

As countries progress along their historical economic development, their industrial supply capacity is expected to improve in terms of production quantity and in terms of product quality. Such improvements would allow a production surplus that could be exported if competitiveness conditions are addressed⁽¹²⁾.

To assess the status of the supply capacity of the Arab production system we look at the detailed commodity exports (three digit level) and compare the number of commodities exported with a group of non Arab comparator countries that have an export oriented production system (See Appendix, Table 2). In fact, the absence of exports (zero exports) would suggest that supply capacity is very low or that production is oriented to local markets⁽¹³⁾. In Arab countries the number of commodities not exported or having exports value less than one million US\$ in 2000 and 2006 represent a very large share of the total commodities that could be exported. For the six comparator countries only 4 goods are not exported compared to 98 commodities for the Arab countries. This number increases to 173 for Arab primary low income countries (Mauritania, Sudan, and Yemen), and reaches 91 for oil based economies. The diversified Arab economies group performs better by having only 30 commodities not exported. However, the extent of this penetration of the global export markets is very shallow and reflects a weak supply capacity. This is verified by looking at the number of commodities not exported whose value does not exceed one million US\$. The average number of commodities of this category is only 35 commodities for comparator countries and reached 132 for Arab diversified economies. For Oil based economies the figure is 181 and 234 for Arab primary poor countries. At the country level, the number of zero export commodities does not exceed 9 in Chile, while in Arab countries the number of zero exports is much higher and only Egypt, Lebanon, Morocco, Saudi Arabia, Syria, Tunisia and UAE had figure below 30 in 2006. It is noteworthy the Syrian performance in decreasing this number from 172 to 13. But, when looking to the number of commodities with less than 1 million US\$ export value, lack of export development is even higher. In comparator countries the number does not exceed 60 however the best performing Arab countries reached 92-93 (Saudi Arabia and Tunisia respectively). This figure in most Arab countries is well above 100 and could reach 200 in oil exporting countries.

The process of supply intensification and building new comparative advantage is very complex and probably represent the "crux" of economic development. The neoliberal paradigm policy prescriptions dubbed the Washington Consensus by Williamson (1989) and largely implemented in World Bank-IMF adjustment programs saw the success of Asian Tigers in becoming newly industrialized economies was largely due to their policy discipline in keeping the economic fundamentals in check, promoting openness and curbing government failures (World Bank, 1993). On the other hand, structuralists and development economists such as Rodrick (2004), Lal (2003) regard that market failures are at the core of development obstacles and industrial development will fail unless policy makers address the investment coordination problem and the information externalities. As markets do not provide price signals for goods that are not produced yet, producers have to rely on "self discovery" in order to establish the cost structure and thereby industry profits that enable producers to invest. Both externalities blunt the incentives for productive diversification. It is widely accepted that East Asian countries picked the winners and were very selective in addressing such constraints and were means tested by satisfying export targets. The relevance of the experience of East Asian economic development model is discussed in Noland and Pack (2000, 2003, 2005). Galal and El-Megharbel (2005) and Nabli et al (2006), evaluate such strategy for Egypt and the Middle East respectively. A recent World Bank report (2007) discusses in detail the export promotion policies in the MENA region.

Defenders of the neoliberal model argue that such actions were irrelevant. On the other hand, public action nowadays is largely diminished by the powers attributed to the

WTO as selective public subsidy is combated by this organization. Rodrick argues for a deliberate proactive exchange rate policy to offset the negative effects of protection dismantling knowing that exchange rate policy is outside the scope of the WTO. He also argues that China by keeping its currency undervalued created incentives for fast export growth. Probably one of the main reasons of the weaknesses of Arab manufacturing is the premature death of the infant industry and the lack of a proper industrial strategy that permit the successful shift from ISI to export promotion as just was operated in most East Asian countries (Nouira et al, 2009). In fact, Chang (2002) by reading the industrial development throughout the history has advocated the impossibility of successful industrial development without protection.

With this definition of development as a self discovery in mind, Haussmann and Rodrick (2006) and Haussmann and Klinger (2007) established a relation between commodity exports sophistication and development level and found that the process of structural transformation and building new comparative advantage is guided by what countries actually export (or by their export sophistication). Because poor countries have a sparse product space they are trapped in low quality exports and moving to high quality exports (high income) is made difficult because of long distance in the product space. Agosin (2009) found that export diversification exerts a positive effect on economic growth in emerging countries. Oil and primary products are at the periphery of the product space. El Badawi (2009) found that Arab countries are characterized by relatively low export sophistication and high export concentration by testing the relation between export concentration, and the share of exports to output with the share of hydrocarbon output. Although the hydrocarbon sector might be the reason for low export sophistication, El Badawi (2009) emphasizes the role of the real exchange rate as a determinant of the profitability of tradable activities. In line of thinking of Rodrick (1996, 2009), who argue that deliberate real exchange rate undervaluation promotes diversification, Nouira et al (2010) in a study of four Arab economies found that the relative success of diversification of Morocco and Tunisia compared to Egypt and Jordan could be attributed to the deliberate use of proactive of undervalued exchange rate.

Using the approach developed at the World Bank by Chenery and Syrquin (1989) for the study of structural adjustment, Laabas (2009) based on data for the period 1960-2006 found that most Arab countries follow a primary production led industrialization strategy. Only Jordan, Lebanon, Morocco and Tunisia are considered to have a manufacturing based industrialization. As for the structural transformation most of the Arab countries are slow to change and the actual share of manufacturing output and manufacturing exports both expressed as a share of GDP are below the expected level. Only Jordan, Tunisia and Morocco have achieved their structural transformation in the manufacturing sector. Egypt is still a primary producer and Lebanon output and exports are below the expected level because its GDP is inflated by remittances. Also such success might be exaggerated due to data measurement problems. For example using data from WDI, and UNIDO especially in the case of Tunisia, Morocco and Jordan the ratio of manufacturing exports to manufacturing output is consistently higher than one. Even if we consider the experience of the diversified group as successful in terms of export diversification and structural transformation, it is worth to note debt and unemployment are running high despite respectable economic growth. The size of the exporting sector is small and in absolute terms compares less than oil exporting countries, i.e., of Saudi Arabia and the UAE. In 2007⁽¹⁴⁾ the exports of manufacturing exports of both countries was around 26.0 Bn US\$ although it represented only 6 % of their commodity exports. However, the manufacturing

exports of the diversified economies of Jordan, Lebanon, Morocco, Tunisia was also around 26 Bn US\$ representing more than 60 % of their commodity exports. Tunisia⁽¹⁵⁾ and morocco have the highest manufacturing exports around 10 Bn US\$ each but it is only half the level of Saudi Arabia, a primary export non diversified economy. This finding is in stark opposition with the widely used taxonomy of classification which regards Syria and Egypt as diversified economies. For a recent example see Ali (2001) and El Badawi (2009).

3.2. Export structure

On top of the weak export supply capacity, most of the Arab countries, namely Saudi Arabia, Kuwait, UAE, Oman, Bahrain, Qatar, Algeria, Sudan and Yemen are mono exporters of oil and gas. In these countries, hydrocarbons account for more than 90% of their commodity exports. The policy challenge is how to reduce the overwhelming dominance of the hydrocarbon over the economy. Egypt and Syria although are regarded as diversified economies, are also hydrocarbon exporters but oil accounts for smaller share of commodity exports, though considerable⁽¹⁶⁾ (Appendix-Table 3). Resource based economies arguably suffer from the syndrome of "resource curse" and "Dutch disease"⁽¹⁷⁾ which distort resource allocation mechanisms and encourages rent seeking behavior⁽¹⁸⁾, especially in the case of weak institutions. However, despite the huge accumulated empirical evidence on the slow economic growth of resource based economies (e.g Sachs and Warner (1995), Frankel (2010)) oil and gas exports generated substantial financial wealth, though volatile, made macroeconomic management difficult, however it permitted substantial economic development, especially in GCC countries who achieved high levels of income per capita and high levels of human development. In a recent study Alexeev and Conrad (2009) used regression equations based on per capita GDP levels found the performance of oil based economies was on balance positive. They also found no empirical evidence of the negative impact of the quality of institutions on income levels in oil exporting countries. This is because oil discoveries increase income substantially although subsequent growth rates tend to be volatile and decreasing.

Arab non-oil exporters, though are considered as diversified economies, still have a narrow industrial supply base. Lack of capital (both physical and human) restricted their relative growth and economic development. As they have started from low levels of income, their respectable economic growth was not sufficient to lift them to high income as happened for the East Asian tigers. Morocco, Tunisia and Jordan, Syria and Egypt are all in the lower middle income countries. Mauritania is a resource poor country. Lebanon enjoys higher middle income level thanks to the services industry and to a large expatriate population.

Although hydrocarbon dominates exports in Algeria, Yemen and Sudan, the quantities extracted and exported are not high enough to increase GDP as in the case of the GCC countries. Libya, oil based small economy and labor importing did not reach the income level of GCC countries. The Syrian economy experienced a decline of its oil exports from 76.3% in 2000 to just 40.7% in 2006, indicating a shift away from oil dominance due to a decline in oil output. This decline of 36.3 % was matched by an increase in non oil exports. In fact between the two periods commodity exports more than doubled from 4.6 Bn US\$ to 10.9 Bn US\$. By contrast, Egypt and Sudan show an increase of their Oil exports from 33.2% to 52% and from 66% to 90% respectively, principally due to the increase of oil prices. Both countries run the risk of real exchange rate appreciation.

Inflation is running at double digit. By contrast Tunisia, Jordan, Morocco and Lebanon were able to diversify their exports away from agriculture and raw materials and partially tend to rely more on manufactured products. These countries aim to benefit from positive effects of manufacturing exports including higher and stable export earnings.

Looking at export structure from the angle of technological contents, and classifying commodity exports and imports with respect to their technological content⁽¹⁹⁾ based on ISIC Rev.3 (Appendix-Tables 4 and 5), provides further support to the finding that most Arab countries are RB exporters. In fact, low quality of exports explains the weak link between exports and economic growth. On the other hand Jordan, Tunisia, Lebanon and Morocco are the only exceptions since the share of their RB exports is below 50%. It is worth to note the significant decline of Syria's RB exports from 88,3% in 2000 to 59,7% in 2006. Syria, Yemen, Oman and Bahrain are small producers of hydrocarbons. However, the impact on the balance of payments of these countries is considerable. According to Chenery and Syrquin (1995), and Syrquin and Chenery (1989) small economies with little endowments in natural resources will engage in an outward development strategy and engage early in manufacturing industrialization. The speed of such structural transformation is governed by the availability of foreign capital and by the degree of their openness to trade. They will first specialize in LT products in order to exploit their comparative advantage of low wages and subsequently they will move up the technological ladder by specializing more in MT and HT products. However, countries with large natural resource endowment will opt for delayed industrialization and only engage in industrialization at a point when natural resources are no longer sufficient to sustain population welfare or after depleting the stock of natural resources. Accordingly, exports of Jordan, Tunisia, Lebanon and Morocco, Syria and Egypt are dominated by LT exports, while HT exports are not large enough, in any case below 10%. The change in export pattern according to technology contents is not uniform across Arab counties. HT exports in 2006 are highest in Lebanon (10.26 %), followed by Jordan (7.97%), Morocco (7.05 %), Tunisia (4.58 %). HT exports in other Arab countries are negligible. The MT category accounts for a higher proportion in Tunisia (23.67 %), Lebanon (19.64%), and Morocco (16.72 %). LT exports are concentrated in Jordan (42.56 %), Morocco (33.1 %), Tunisia (39.30 %), Lebanon (28.98 %), Egypt (25.55%) and Syria (25.36 %). Although these countries are considered as diversified economies and their exports originate in manufacturing goods, the share of resource based is still important in some countries. This category accounted in 2006 more than two thirds of exports in Egypt, 43 % in Morocco, 59.7 % in Syria, 41% in Lebanon, and around a third in Jordan and Tunisia. By summing RB and LT exports it is clear that Arab production and exports are not sophisticated and are concentrated at the lower spectrum of technology and consists mainly of primary products (mining and agriculture) or processing of resource based products such as agrofood, leather and textiles. Even in diversified Arab economies resource based and low technology exports account for more than 70 % of their commodity exports. By further looking at export structure by sectors (Appendix-Table 3) confirms the fact that Arab exports are concentrated in raw and processed natural resources. Food and live animals, beverages and tobacco, crude materials and inedible, animal and vegetable oils and fats, contributed in 2006 a large share in commodity exports in Tunisia (13.29 %), Syria (20.59 %), Mauritania (93.3%), Morocco (28.52%), Lebanon (25.84%), Jordan (26.74%) and Egypt (10.08 %). Some Arab countries also developed chemical industry to exploit their endowments of mineral deposits of phosphate such as Jordan (20 %), Morocco (13 %), Lebanon (9 %), and Tunisia (8%). As for machinery and transport equipment category Jordan (7%), Lebanon (20%), Morocco (18%), Tunisia (21%), and Syria (5%) have

developed exports geared toward producing parts. Some countries like Algeria and Egypt invested in machinery and transport but mostly oriented towards local markets.

Given the weak production systems in most Arab countries, commodity exports require high import content. In general oil exporting countries have higher export ratio compared to import ratio, thereby generating a trade surplus. In non-oil exporting countries the opposite situation prevails. For example, in Saudi Arabia the export ratio in 2006 was 59.3 % compared to 17.9 % for the import ratio. In Tunisia the export ratio was 37.8 % and the import ratio was 45.9 % (Appendix-Table 1). The trade balance in the diversified economies is largely improved by the export of tourism services. Commodity imports are largely concentrated in manufactured goods, machinery and transport equipments and to a lesser extend in food and live animals, even in non-oil countries. The high propensity of importing manufactured goods is driven mainly by the high demand of consumer goods as well as industrial inputs and the demand for investment. When looking at imports by technological contents it turns out that they are mainly MT, followed by RB and LT products. HT imports don't exceed 9% of Arab imports. Noteworthy, RB imports rise is fairly compensated by a decrease in HT imports (around 5%). Likely, LT imports rise is compensated by MT decrease imports (around 1.5%) (see Appendix - Tables 4 and 6).

The structure of commodity exports is further summarized by calculating diversification and concentration indices, reported in Appendix -Tables 7 and 8. Both indices are also calculated for different technology levels. There are 256 commodities in the 3 digit ISIC rev 3. 117 (45.7 %) commodities are classified as RB, 48 (18.75%) as LT, 69 (26.9%) as MT and 18 (7.03%) as HT. The diversification index measure the total deviation of export structure from global export pattern. The best record in the comparator countries is achieved by Portugal and Korea (0.41 and 0.44 points respectively). In most Arab countries the figure is nearly double. Tunisia is the most diversified Arab economy with 0.59 index points. The index is higher in other Arab "diversified economies". It reached 0.65 in Lebanon, 0.70 in Syria, 0.69 in Egypt, 0.74 in Morocco, and 0.77 in Jordan. These countries although achieved some degree of export diversification, their export structure still deviates noticeably from that of world exports. This is so because, unlike Tunisia who achieved the highest export diversification in the manufacturing sector, these countries are still dominated by resource based exports. For example diversification index in the RB in Tunisia was 0.16 whereas it was 0.28 in Morocco and 0.32 in Egypt. Most of the deviation from world exports structure originates in the RB commodities category, in Oil and Agriculture goods exporting countries. Whereas LT, MT, and HT categories, they contribute nearly evenly in most Arab countries. It is worth to note the low diversification in LT sectors in Jordan, Morocco and Tunisia. In these countries the industrialization efforts is more concentrated in some sectors such as food and textiles that are considered as low technology

These findings are corroborated when calculating Hirschmann (1958) concentration index. The exports of oil and other primary goods are heavily concentrated in several countries leading to a concentration index well above 0.60 and equal the concentration levels in RB based commodities. Exports of other categories are negligible or nonexistent therefore giving a zero concentration levels. Concentration increased in Sudan due to increased oil exports, but declined sharply in Syria. Concentration levels in Syria and Egypt are intermediate levels. Exports concentration levels in the Arab non primary exporters are similar to the comparator countries. Lebanon had the least concentrated exports with an export concentration index of 0.16, followed Morocco with 0.21, Tunisia with 0.22 and Jordan with 0.23.

3.3 Exports Competitiveness

Although Porter (1990) stressed on building competitive advantage through innovation and productivity as the best way for enhancing national competitiveness, developing countries still need to build, in their initial development stage, on their comparative advantage in natural resources and factor intensity to enhance economic growth. As their economic system gets more sophisticated the role of comparative advantage is expected to decline as countries progress from factor driven economies to efficiency and innovation driven economies. The importance of such comparative advantage and where it lies is assessed by computing indices of Revealed Comparative Advantage (RCA), Export Specialization (ES) and Intra Industry Trade (IIT) indices. The World Economic Forum in their flagship World Competitiveness Report (2010) used classification taxonomy based on GDP per capita and the share of mineral exports in order to classify countries according to their economic development stage and their comparative advantage. Yemen, Mauritania and Sudan are considered as factor driven economies. Most of the Arab countries are in transition from factor to efficiency driven economies (Algeria, Egypt, Kuwait, Libya, Morocco, Qatar, Saudi Arabia, and Syria). Tunisia is considered to be efficiency driven, Bahrain and Qatar are in transition from efficiency to innovation driven economies. Only UAE is considered as innovation driven economy.

Most Arab countries possess few revealed comparative advantage. Table 9 in the Appendix reports the information relative to RCA index. All oil exporters have, on average, only less than 10 commodities with RCA above one and the bulk of the exports are in these commodities. In Mauritania only 4 commodities have RCA above 1 and 14 commodities in Oman. However, the group of Arab diversified economies performs better in term of the number of commodities with RCA greater than one. In fact they achieved the same performance as the comparator countries. For example in 2006, Lebanon had 74 commodities with RCA above one and was only second to Portugal. The number of commodities with RCA above one in Tunisia, Egypt, Morocco, Syria and Tunisia are comparable to Korea and Malaysia. In oil exporting countries most of their comparative advantage is in resource based commodities, and only few comparative advantage is created outside the resource based commodities. For the diversified economies more than 50 % of their comparative advantage is in the resource based economies. The figure is around 63 % for Egypt and Morocco and around 50 % for Jordan, Syria and Tunisia. In Lebanon, it was 44%. In fact this structure compares with that of Malaysia (45%) and Portugal (44%) and Ireland (64%). Only in Korea resource based comparative advantage Arab diversified economies also developed some comparative is minimal (18%). advantage in low and medium technology commodities. Lebanon has a small comparative advantage in high tech commodities. In Egypt, Jordan and Lebanon there is a balance in their comparative advantage between low and medium tech exports. However this has to be weighted with their contribution in total exports. Medium tech export represented in 2006 only 6 % in Egypt, 15 % in Jordan and was 20 % in Lebanon. However, low comparative advantage in low tech exports is more important than medium tech in Syria, Morocco and Tunisia. These countries increased their comparative advantage considerably mainly in resource based and low tech commodities.

The dynamics of RCA between 2000 and 2006, in Arab countries, was considerable in terms of the number of commodities that had positive change in the index. However, looking at their relative contribution in the value of exports is only minimal. Although, most of the exports are made in sectors where countries posse strong comparative advantage, then it is interesting to see where these increases originate. The underlying tendency may indicate where lay the future of Arab comparative advantage. As most of Arab exports are concentrated in RB products and account for almost exports, it is imperative that Arab countries diversify away from RB products in order to sustain high economic growth. The data show that RCA dynamics is strong in the Emirates, Lebanon, Morocco, Saudi Arabia, Syria, Tunisia, and Yemen. Around 45 % of the increase in RCA was in RB commodities. It is interesting to note that MT contribution is higher than LT sectors and even some countries RCA in HT registered some positive increases. This tendency could indicate further strengthening of export diversification away from resource and low tech based commodities.

Further evidence on revealed comparative advantage is given in Appendix - Table 10, in which Export Specialization (ES) index is reported. The index is a slightly modified RCA in which the denominator is usually measured by specific markets or partners. It provides product information on revealed specialization in the export sector of a country as the ratio of the share of a product in a country's total exports to the share of this product in imports to specific markets. The index was computed relative to the world market. As was stated previously, Arab oil dominated countries have few commodities in which they are specialized (ES>1) outside the resource based commodities. In non-oil countries this figure reaches almost 69, which is quite comparable to comparator countries, but still originates in RB. Nevertheless, some specialization in LT and MT commodities appear in Jordan, Lebanon, Morocco, Tunisia and Egypt.

Ricardian and New Classical trade theory attribute the occurrence of trade mainly to relative endowments, and factor intensity differences. Countries are expected to specialize according to their respective comparative advantage. Countries also engage in Intra Industry trade. In the beginning the phenomena was dismissed and regarded as marginal, and was considered as the outcome of aggregating heterogeneous commodities. Krugman (1981) in his new trade theory explains intra industry trade by the fact that it enables countries to gain further from trade because it allows countries to take advantage from of larger markets. In fact, the phenomena increased considerably since the 1980s as multinational corporations engaged in establishing global production chains in order to minimize their cost. Also, developing countries welcomed foreign direct investment because it is thought to help growth through providing non debt financial resources and help transfer technology and provide easy access to markets. In this regard, IIT is taken as indicator of potential competitiveness because it directly affects the export of manufacturing and help accelerates structural transformation. In fact empirical evidence suggests that IIT levels increase with the level of economic development. In order to measure the extent of IIT we use the index developed by Havrylyshyn and Kenzel (2000) based on the work of Grubel and Lloyd (1975). The index is calculated for aggregate trade flows as well as disaggregated by technology levels as well as one digit sectors. The results are reported in Table 11 of the Appendix. In general, oil exporting economies have very little intra industry trade because their exports are concentrated in hydrocarbon and imports of oil are minimal. Only Bahrain imports oil from Saudi Arabia and in the same time has a considerable export of oil⁽²⁰⁾. Oil exporting countries also do not have considerable IIT outside the resource based sectors. This is the consequence of their slow

structural transformation into manufacturing. In the diversified Arab economies the levels are remarkably higher. Tunisia is the best performing Arab country. IIT index reached almost 0.4 in 2006. In fact Tunisia diversified its economy and deepened its industrial development through further participation in European production chains. IIT levels increased in most of the sectors. Most noticeably IIT reached 0.5 in HT sectors as well as in tobacco and beverages and in transport equipment. Levels of IIT in other Arab diversified economies are well below the level of comparator countries. In Egypt it reached 0.34 in 2006, and is particularly strong in mineral fuels and chemicals and in low tech industries. IIT levels in Jordan, Morocco, and Syria stood at only 0.2 in 2006 compared to 0.6 in Malaysia and Portugal. In Jordan IIT is particularly high in chemicals, beverage and tobacco and miscellaneous manufacturing. In Morocco IIT is high in animal and vegetable oils and fats and to a lesser extent in chemical, machinery and transport equipments, and miscellaneous manufacturing. We notice some sectors with some IIT activity in Oman, Saudi Arabia, and the UAE.

3.4. Export Dynamics

Sustaining gains in export competitiveness positions in international markets depends partly on the ability of the domestic economy to rapidly adapt to structural changes in global trade. In order to evaluate the ability of Arab economies to adapt to world trade requirements we first use the approach developed by the Economic commission of Latin America (ECLA) and the World Bank (2005) known as Trade CAN. The idea is very simple and consists of comparing the change in the country's export share with the change in global commodity shares. If both shares were increasing the commodity is regarded as a Rising Star (RS), and if they were decreasing the commodity is regarded as a Strategic Retreat (SR). However, if the country's export share was increasing and its global share was decreasing the commodity is regarded as a Falling Star (FS). In the opposite case the commodity is regarded as a Missed Opportunity (MO). In Table 12 of the Appendix, we decompose changes in exports over 2000-2006 periods due to RS, FS, SR and MO. Between 2000 and 2006 the price of oil increased substantially pushing up oil share in domestic and global exports. As a consequence, in all oil exporting countries rising star commodities accounted for a substantial share of the export growth between the two periods. However many countries missed this opportunity because their export share in hydrocarbon products slipped between 2000 and 2006 despite the fact that the increase in export proceeds in this category was remarkable. In Kuwait most of the export increase was in the missed opportunity because of a substantial decline in hydrocarbon export market share. The same phenomenon was observed in Bahrain, and to a lesser extent in Algeria, the UAE and Oman. Only in Saudi Arabia, Qatar and Yemen, RS category dominated export change because of a gain in global market share. Rising stars (Missed Opportunity) accounted for export change by 67% (0.33) in Algeria, 88% (9%) in KSA, 32% (65%) in UAE, 95% (3%) in Yemen, 99% (0%) in Oatar and 43% (63%) in Oman. In Egypt all the export growth was in RS because 25% of the commodities that contributed to total export change had their share increased in both domestic as well as global markets. In fact natural gas and heavy petroleum oils alone contributed by more than 54% of the export increase. As long as hydrocarbon prices are on the increase oil exporters will enjoy higher export proceeds and their export pattern seems to be in line with global demand dynamics. The situation is reversed in the case of prolonged decline of oil prices. Oil exporters are unable to shift their exports away from hydrocarbon.

In non-oil exporting countries the export dynamics is less nuanced. First RS contributed between a quarter and a third of the exports increase between 2000 and 2006. RS contribution was highest in Lebanon and reached 47%, but export growth in RS is very limited because it mainly originated in RB and LT sectors. The contribution of RS in Syria was 32% and 31% in Tunisia and 26 % Jordan and Morocco. In all diversified economies despite the fact that a good part of the exports is generated in RS the expansion of exports sectors is very limited. These countries cannot accelerate growth and create jobs without a substantial increase of the exports sector. The growth is further hindered because diversified economies have a sizeable part of the exports generated in falling stars category. These countries continue to increase exports share in commodities that are fading away in global trade. The weight of these goods reached 68% in Jordan, 55 % in Tunisia, 54% in Syria, 47 % in Lebanon, 46% in Morocco. These countries need to shift away from these commodities in order to maximize the benefit of trade and adapt more to global trade ramifications.

Export dynamics was further detailed by classifying goods according to their technological contents. This information is summarized in Table 13 of the Appendix. Although the export increase in oil exporting countries was very substantial between 2000 and 2006 due to price increases, RSs were mainly concentrated in RB category. For example, export increase in Saudi Arabia was more than 130 Bn US\$, 115 Bn US\$ were in RS goods of which 109 Bn in RB sectors. Also, most of the exports dynamics in Algeria and Bahrain are confined to RB and are RS and MO. In Egypt, 8.7 Bn US\$ increase in exports were all in RS but yet most of it is in RB (67%) and LT (28%). The picture is the same in oil exporting countries. In Jordan most of the export increase is FS category and concentrated in RB (30%) and in LT (58%) indicating potential structural problems. Also RS exports in Jordan are dominated by RB and LT goods. Export increase in Lebanon was only 1.15 Bn US\$. The export growth is split between RS and FS. More than half of export growth in these two groups originates in RB and LT. Medium Technology goods accounted for 20 % in RS and 33% in FS. In Syria more than half of the exports growth was in FS category and a third of the 6 Bn US\$ export increase was in RS. In the former category nearly a fifth was in MT and 47 % in LT. Resource based accounted for 22 % of RS while LT and MT share was 76%. Although, Syria is well managing the shits away from RB and diversifying into low and medium tech sectors, it appears that the allocation of resources were not appropriate as most of good deal of the exports are in the falling stars. If the trend persists for long time economic growth could be stalled. In Morocco more than a quarter of export increase was in RS and 45 % in FS and 23 % in SR. Rising Stars were essentially in RB sectors and FS are in LT (15 %) and MT (43). A great proportion of growth exports is concentrated in FS and in the MT segment. As in Syria this requires a shift away of production into more raising stars. In Morocco a good deal of export growth was in sectors of SR and in low technology in particular. More shifts away from FS are needed in order to maximize export growth. Likewise, most of export growth in Tunisia (55%) was in falling stars and 31% was in RS. In Tunisia no significant SR was operated. RS export growth is concentrated in RB (56%) and FS is concentrated in MT (42%). Tunisia also presents the same dysfunction of the export structure. The diversified countries need to move to more RS commodities but outside the RB and LT segments. These patterns are more detailed by disaggregating export change by sectors of origin. Table 14 of the Appendix gives sources of export change between 2000 and 2006 for one digit sector. The reported information gives exactly how exports are generated in every sector.

In the previous paragraph we concentrated on export dynamics and how the domestic exports sector respond to global demand. However it is interesting to see how export growth is generated and how it relates to the competitiveness of the domestic economy. To this end, we use a market share framework developed by UNCTAD (1964) that decomposes export change into global demand increase and domestic market share change. The results of the exports decomposition are given Table 15 of the Appendix. An increase of exports due to global demand is regarded as a emanating from a comparative advantage, whereas an exports increase due to an increase of market share is regarded as a conciliation of the competitive advantage of the economy. The analysis is further detailed by technology level. Export growth due to market share increase in high technology sectors is regarded as sustaining the competitive advantage of the economy.

Algerian commodity export increased by 32.5 Bn US\$ between 2000 and 2006. Most of the increase was in RB commodities. Global demand and market share increase accounted for two third and one third was due to strong global demand despite a decline in market share in some commodities, mainly natural gas exports. The problem in Algeria is the absence of exports growth outside the RB sector. In Bahrain, export growth of 5.3 Bn US\$ was driven only by global demand increase in RB commodities despite a decline in market share. Also, exports shrunk in some commodities due to a loss of market share despite strong global demand.

In Egypt export increased by only by 5.5 bn US\$ between 2000 and 2006. Strong global demand and market share increase in RB and LT accounted for most of export growth (3.5 bn US\$ in RB and 2.2 bn US\$ in LT). The increase of RB exports was mainly driven by higher exports of natural gas. Medium technology export growth is limited and also exports declined in some sectors due to a loss of market share. The loss of export due to market share decline is very limited. In Kuwait exports increased only by 8.7 bn US\$ between 2000 and 20006. Export growth in RB was due to global demand increase despite a decline in market share. In Oman exports increased by 5.6 Bn US\$ partly (1.35 bn US\$) due to demand and market share and half of the increase was in RB sectors. The other half was in LT and MT sectors. In fact the bulk of increase was in RB sectors (5.7 bn US\$) where global demand was strong but market share declined. In Qatar exports increased by 23.8 bn US\$ mainly due to strong market share and global demand mostly in RB sectors. Nevertheless, some progress was made in MT. In KSA exports increased by 122 Bn US\$, mainly (102 bn US\$) due to increased demand and market share with almost 8 Bn US\$ in non RB sectors. Around 10 Bn US\$ in export growth was due to global demand despite a decline in market share is some RB commodities. In UAE exports increased by 49.4⁽²¹⁾ Bn US\$, of which 17.1 Bn US\$ was due to market share and global demand increase. RB commodities accounted only 13.6 Bn US\$ whereas LT and MT share was around 3.42 Bn US\$. Also exports increased by some 32.6 Bn US\$ Bn due to global demand despite a decline in market share.

As for non-oil exporting countries, exports change patterns are slightly different, in accordance with exports structure differences with oil exporting countries, as discussed previously. In Jordan growth of exports of 3.07 Bn US\$ was driven solely by both strong global demand and market share penetration. The contribution of RB sector is limited to one third. The bulk of exports growth is in low and medium technology sectors. In Lebanon exports increased by 1.14 bn US\$ mostly due to market share and demand and around 40 % of this increase was in RB sectors and nearly 50 % in LT and MT categories. In Morocco exports increased by 5.16 Bn US\$, 3.7 bn US\$ of them were due to demand

and market share. Around 1.7 bn US\$ was in RB and around 2 bn US\$ in LT-MT-HT. Also nearly 1.8 bn US\$ export increase was due to demand increase despite market share loss, mostly registered in RB and LT. In Tunisia exports increased by nearly 5.9 Bn US\$ due to both market share increase and global demand expansion. RB commodities accounted only for 1.45 bn US\$ compared to 1.58 bn US\$ for LT and 1.68 bn US\$ for MT. Tunisian export that emanate from demand and market share increase in HT are quite considerable and reached 0.386 Bn US\$. Around 0.9 Bn US\$ of export increase were due to global demand a loss of market share.

3.5. Intra-Arab trade

Export competitiveness is intimately related to intra-regional trade. According to Gravity models, market proximity and other similarity and contiguity factors play a major role in explaining bilateral trade flows. In developed countries trading blocks account for a sizable part of their trade. For example, according the UNCTADE, the shares of intraregional trade flows are about 67%, 65% and 49% in EU, APEC and NAFTA in 2008, respectively. Enhancing export competitiveness should be facilitated by consolidating Arab intra regional trade. Notwithstanding the importance of intra trade in enhancing export competitiveness, its role is somewhat limited because Arab countries are in a similar development stage and Arab production supply do not meet all the demand requirement for production, consumption and investment. Some authors argued that Arab intra trade is limited because Arab economies are similar. Also Arab economies under trade between themselves because of policy induced trade restrictions. In order to gauge the extent of Arab intra trade, we computed indices that summarize trade similarity and complementarity.

Exports similarity index developed by Finger and Kreinin (1979) compares exports shares of a country to exports shares of Arab group of the 256 commodities. The index varies between zero and 100, indicating complete dissimilarity or complete similarity, respectively. The similarity index, reported in Appendix-Table 16, is well above 70 for all oil exporting countries and above 60 for Bahrain. Similarity increased sharply in Yemen and surprisingly did not in Sudan, but declined in Syria. Once again, non-oil exporting countries, i.e., Tunisia, Jordan, Lebanon and Morocco express similarity levels that are similar to comparator countries, indicating that their exports structure is quite different of Arab countries as a group, given that they rely less on resource based products. Further information is given by assessing the complementarity between Arab countries exports and their imports as a group. In this regard, Complementarity index is calculated. Basically this index compares exports of a given country i to Arab imports as a group in order to show how well countries' exports fit Arab group needs in terms of imports and thus it provides useful information on the potential intraregional trade. Complementarity index varies between 0 and 100, zero indicating no match between exports and Arab imports. When looking at Exports Complementarity Index reported in Appendix-Table17, oil exporting countries express the lowest levels of complementarity with Arab group since the index values are in general under 15. Only, UAE achieved a noticeable increase by reaching 19.29 index points, but not enough to reach other non-oil exporting countries where the figure is fairly close to some comparator countries. In fact, complementarity index reached 37.42 in Lebanon, 34.13 in Tunisia, 32.91 in Egypt, 30.43 in Syria and 24.24 in Jordan. Hence, Syria recorded the largest increase about 16 index points, followed by Egypt and Tunisia (5 points), while the figure is opposite in Jordan which recorded a loss of 10 index points.

The large exports similarity coupled with low levels of trade complementarity give a good reason why Arab countries have so far failed to achieve the ultimate objective of a common market where intraregional trade is substantial despite the numerous Trade Agreements launched since the early 1980s and the impressive development in communications and infrastructure networks in the region⁽²²⁾. In fact, according to UNCTADE database the share of intra Arab exports is below 9% in 2008. Likewise, GAFTA (the Greater Arab Free Trade Area), AMU (Arab Maghreb Union), GCC (Gulf Cooperation Council) and AGADIR 2004 Agreement have only achieved 8.5%, 5.5%, 2.5% and 11.5% of intra-trade in 2008, respectively, while regional trading groups show intra-regional trade above 30% and even more than 60% in the case of EU or APEC.

Overall, despite the pessimistic findings regarding the incapability of Arab countries to significantly enhance their intraregional trade, intraregional trade is still seen as a good advocate of strategic and potential economic development and stability. Therefore, increasing its share leads to a need to explain more precisely the economic features underlying this failure and thus exploring the options for achieving more progress towards larger share of intraregional trade.

4. Conclusion

Arab countries embarked since the nineties on a development strategy based on transition to a liberal market economy hoping to enhance the export sector, accelerate growth and alleviate poverty and unemployment. This paper is concerned with the evaluation of the supply capacity and the competitiveness of the export sector of 16 Arab countries. Accordingly, the paper provides new empirical evidence based on the computation of structural trade indicators at a fairly detailed goods level over the period 2000-2006.

There are many pieces of evidence resulting from the analysis. First, the traditional separation between countries largely endowed with large deposits of hydrocarbon and poorly endowed countries holds. The structural transformation of most Arab countries is slow as exerted by a high number of commodities not exported coupled with the number of exported commodities with less than 1 million US\$. Oil exporting countries stand on the top of the weak export supply capacity due to their heavy reliance on oil production and export. In fact, in Saudi Arabia, Kuwait, UAE, Oman, Bahrain, Qatar, Algeria, Sudan and Yemen oil accounts for almost 90% of their exports. While, Jordan, Tunisia, Morocco, Lebanon and to a lesser extent Syria and Egypt were able to diversify their exports from agriculture and raw materials and tend to rely more on manufactured products. Furthermore, by looking at the technological content of their exports it resorts that Jordan, Lebanon, Tunisia and Morocco, and to a lesser extent Syria and Egypt, are the only countries whose share of resource-based exports is less than 50%. Even though, export pattern according to technological contents is not uniform across these countries. Overall, high-tech exports do not exceed 10.5% in the best figure. Most of low and middle-tech exports are originated in raw and processed natural resources along with some progress in chemical or machinery and transport industries. Diversification and concentration indexes give more support to these findings. In most of the Arab oil exporting countries the figure is to the least disappointing contrary to the few outperformers who achieved greater progress towards building a diversified export supply. In order to strengthen this export supply base Arab countries need to build not only on their comparative advantage in natural resources but beyond as they get more sophisticated. Unfortunately, most of Arab

countries have few revealed comparative advantage. Even, in diversified Arab countries most of the progress in their revealed comparative advantages is resource based. Nevertheless, some specialization in low and middle-tech commodities appears in Jordan, Morocco, Tunisia and Egypt. In this regards, IIT gives a good explanation of exports competitiveness weakness since it is a good indicator of potential structural transformation. Oil exporting countries have little intra industry trade notwithstanding the presence of some IIT activity in some sectors in Bahrain, Oman, Saudi Arabia and UAE. Even diversified Arab countries stood at only 0.2 in 2006, Tunisia being the only figure that reached 0.4 likely through further participation in European production chains. Sustaining these gains in export competitiveness positions in international markets depends on the ability of to rapidly adapt to the structural changes in global demand. In this regard, oil exporting countries seem in line with the increasing demand for oil due to its increasing price, but less in Bahrain, Kuwait, UAE, Algeria and Oman. Oil countries will enjoy higher export proceeds as long as oil prices are on the increase. The situation reverses in the case of prolonged decline of oil price, urging these countries to diversify away from oil. Non-oil exporting diversified countries despite the fact that good part of their exports is generated in rising stars, the expansion of exports sectors is very limited. Besides, a sizable part of the exports is generated in commodities that are fading away in global trade. Therefore, these countries need to shift away from these commodities and adopt more to global trade ramifications and to expand the rest of commodities categorized as in line with global demand in order to maximize the benefit of trade. Simultaneously, Arab countries can count on intraregional trade and benefit from market proximity and other similarity and contiguity factors with Arab neighbors. Nonetheless, the large exports similarity coupled with low levels of trade complementarity seem to be behind the failure of Arab countries in achieving substantial share of intraregional trade.

Overall, Arab countries are a heterogeneous group in terms of resource endowment and exports competitiveness. Oil exporting countries failed to diversify their exports outside the hydrocarbon sector. Although oil revenues permitted oil exporting countries to achieve high development levels, the development model based on oil is by essence not sustainable. Arab non-oil exporting countries made some progress in export diversification through manufacturing exports, however the scale and quality of industrialization still below the required levels capable of inducing high growth capable of absorbing fast growing labor force.

Footnotes

¹ Although some countries have data for subsequent years, but for comparison purpose we choose common data points for the entire sample.

² The Arab Countries included in this study are: Algeria, Bahrain, Egypt, Jordan, Kuwait, Libya, Lebanon, Mauritania, Morocco, Oman, Qatar, Saudi Arabia, Sudan, Syria, Tunisia, United Arab Emirate, and Yemen.

See Laabas (2002) and Howard and Pack(2007) on the issues of Arab development Challenges.

⁴ These countries are: Egypt, Jordan, Morocco, Tunisia, Mauritania, Yemen, and Algeria.

⁵ See El Badawi (2003), Makdissi, Fateh and Imam (2007), Sala-i-Martin and Artadi (2003), Bhattacharya and Wolde (2009).

⁶ On resource curse see Sachs and Warner (1999, 2000) Collier and Goderis (2007) and Frankel (2010).

⁷ For example long term growth (1970-2008) was in Egypt 4.03 % pa compared to 0.61 % in Bahrain. However income in Egypt is only around 12 % on the income in Bahrain.

This approach is different from that based on the assessment of the growth potential of the manufacturing sector undertaken by many researchers among them Lal (2003), Rodrick (2004), and enquire on the role of the industrial policy in promoting an export led manufacturing sector.

⁹ COMTADE data was extracted from The World Bank's WITS system.

¹⁰ See the World Bank Handbook on Trade and Development, Appendix B.

¹¹ This approach is in contrast with the assessments of National Competitiveness using a composite index which measure the quality of economic environment that enables companies to compete in international markets. See the Arab Competitiveness Report (2009) published by the Arab Planning institute, Kuwait, and the Global Competitiveness published by the World Economic forum, Davos, Switzerland. On the other hand some studies concentrate on the analysis of the competitiveness of the manufacturing sector by looking at the ability of this sector in producing goods that meet the conditions of the international markets. See Lal (2003).

¹² It is assumed that companies choose to exports not only to drain surplus in the case of tight local market, but also need to enter export markets in order to learn from exporting. For an application to a sample of Arab countries see Weshah (2009).

¹³ Lack of data of production output and exports at the same detailed three digit level is not available, however from the available data taken from the UNIDO database for some Arab countries show that the production system is characterized by absence of production just as the absence of exports. ¹⁴ Data taken from the internet based WDI of the World Bank.

¹⁵ INS data for 2007 show that manufacturing output was only 6 Bn DT compared to 15 Bn DT of manufactured exports ?

¹⁶ According to BP Statistical Review Oil production (Natural Gas) in Egypt in 2008 was 0.722 Million Barrel per day (58.9 Billion Cubic Meters) and for Syria it was 0.398 million Barrel per day (5.5 Billion Cubic Meters).

¹⁷See Sachs and Warner (1995, 1999) for the explanation of the relation between growth and natural resource abundance and for Dutch Disease. The resource case is contradicted by the recent study of Alexeev and Conrad (2009) who argued that development record of resource based economies was not that bad. For a recent survey of resource curse see Davis and Tilton (2005).

¹⁸ See Melhum et al (2006) for an explanation why resource based economies are prone to such phenomena and how good institutions prevent such behavior.

¹⁹ Commodities are classified by their technological contents following the UNIDO classification. See the Industrial Development Report (2009).

²⁰ According to COMTRADE data oil imports were 4.9 Bn US\$ and exports reached 9.2 Bn US\$ in 2006.

²¹ UAE trade data include a large amount of re-exports activity. If this was to be included in exports the growth in exports would have been more than 80 Bn US\$ between 2000 and 2006. ²² See Al Atrach and Youssef (2000), Maamri (2004), Bayar (2005), Galal and Hoekman (2003), Bousseta

(2004), Achy (2006), Limam and Abdalla (1998), Neaime (2005), Bhattacharva and Wolde (2010).

References

Abed, A. G and Davoodi, H. R (2003), "Challenges of Growth and Globalization in the MENA", International Monetary Fund

Achy L., 2006, Assessing Regional Integration Potential in North Africa, National Institute of Statistics and Applied Economics Rabat, Morocco.

Agosin, M (2009), "Export Diversification and Growth in Emerging Economies", CEPAL Review, Vol 97, April, pp. 115-131.

Al Atrash, H Yousef, T (2000) "Intra Arab Trade Is it too Little ?, IMF Working Paper.WP/00/10

Alexeev, M and Conrad, R 92009). "The Elusive Curse of oil". The Review of Economics and statistics. Volume 91, No 3, pp. 586-598.

Ali, A (2001) Internal Sustainability And Economic Growth In The Arab States ", Arab Planning Institute working Paper No 0102, Kuwait,

Arab Planning Institute, Arab Competitiveness Report, 2003, 2006, 2009. API, Kuwait.

Balassa, B. (1965): Trade Liberalization and 'Revealed' Comparative Advantage, The Manchester School of Economic and Social Studies, 32, 99-123.

Bhattacharya, R and Wolde, H (2009), "Constraints on Growth in the MENA Region", IMF Working Paper WP/10/30.

Bhattacharya R and Wolde, R (2010), "Constraints on Trade in the MENA Region", February 2010, IMF Working Paper WP/10/31

Bayar A., 2005, An Evaluation of the Benefits and Challenges of the South-South Integration among the Mediterranean Partner countries, FEMISE Report, FEM-22-27.

Boussetta M., 2004, Espace Euro-méditerranéen et Coûts de la Non Intégration Sud-Sud:le cas des pays du Maghreb, FEMISE Report, FEM-21-43.

Chang, H (2002), "Kicking Away the Ladder-Development Strategy in Historical perspective, Anthem Press.

Chenery, H and Syrquin, M (1995), "Patterns of Development 1950-1970", Published for the World Bank by Oxford University Press.

Collier, P and Goderis, B (2007), "Commodity Prices, Growth, and the Natural Resource Curse: Reconciling a Conundrum", University of Oxford August, 2007

Collier, P and Hoeffler, A (2005), "Democracy and Natural Resource Rents", Working Paper GPRC-WPS-016, Department of Economics, Oxford University, Oxford. UK.

Cordon, W (1984) "Booming Sectors and Dutch Disease Economics: A Survey and Consolidation", Oxford Economics Papers 36, pp.359-380.

Cordon, W, and Neary, J (1982), "Booming Sectors and Dutch Disease Economics: A Survey", The Economic Journal, Vol 92, pp. 825-848.

Dasgupta, D, Nabli, M Pissarides, C Varoudakis, C (2003) "Making Trade Work for Jobs : International Evidence and Lessons for MENA", World Bank Mimeo.

Davis G, and Tilton J (2005), "The Resource Curse". Natural Resource Forum. 29, pp. 233-242.

Dollar, D. (1992), "Outward-Oriented Developing Economies Really Do Grow More Rapidly", Economic Development and Cultural Change 40(3), April: 545-66.

Elbadawi, I (2003) "Reviving Growth in the Arab World", Arab Planning institute, Kuwait.

Elbadawi, I (1998), "Can Africa Export Manufactures? The Role of Endowment, Exchange Rates and Transaction Costs". AERC/OECD/IMF workshop on "Policies for Competitiveness in Manufacturing in Sub-Saharan Africa", Johannesburg, South Africa, November 6-7, 1998.

Elbadawi, I (2009) Oil, Economic Diversification and Development in the Arab World workshop on "Natural Resources and Economic Diversification: Towards a Research Agenda for ERF", November 6, Cairo, Egypt.

Elbadawi, I. A (2009), "Oil, Economic Diversification and Development in the Arab World". Dubai Economic Policy and Research Institute.

El-Erian, M A. Fischer, S (1996) Is MENA a Region? The Scope for Regional Integration. IMF working paper, WP/96/30

Finger, J. M. and M. E. Kreinin (1979), "A Measure of 'Export Similarity' and Its Possible Uses," Economic Journal, 89, 905-912.

Frankel, F (2010), "The Natural Resource Curse: A Survey", CID Working Paper No. 195 May 2010

Galal, A and El-Megharbel, N (2005), "DO GOVERNMENTS PICK WINNERS OR LOSERS? AN ASSESSMENT OF INDUSTRIAL POLICY IN EGYPT" ECES Working Paper No. 108

Galal A., and Bernard Hoekman., 2003, Arab Economic Integration Between Hope and Reality, eds., Brookings Institution Press and Egyptian Center For Economic Studies.

Gregoir, S, Maurel, F(2002), " Les indices de compétitivité des pays : interprétation et limites. INSEE Document de travail, G 2002 / 16 France.

Grubler and Loyd (1975), "Intra Industry Trade", Halsted Press, London.

Haddad, M (2000), "Export Competitiveness: Where the MENA Region Stand?" ERF Working Paper No 2030. ERF, Cairo, Egypt.

Hakura D (2004), "Growth in the Middle East and North Africa", IMF Working Paper Research Department, April 2004.

Hausmann, R and Rodrik, D (2006), "Doomed To Choose: Industrial Policy As Predicament", Paper prepared for the first Blue Sky seminar organized by the Center for International Development at Harvard University on September 9, 2006. Harvard University John F. Kennedy School of Government. Hausmann, R and Klinger B (2007), "The Structure of the Product Space and the Evolution of Comparative Advantage". CID Working Paper No. 146

Havrylyshyn, O and Kenzel, P (2000), "Intra-industry Trade of Arab countries: An Indicator of potential Competitiveness", in Hoekman, B and Zarrouk, J, Editors, "Catching up with the competition", The University of Michigan Press, Ann Arbor.

Hirshman, A (1958), "The Strategy of Economic Development", New Haven, CT: Yale University Press.

Hoekman, B, Mattoo, A and English, P (2002), "Development, Trade, and The WTO", A Handbook, World Bank, Washington. DC.

Imam, I (2005), "Competitiveness Capacity and Foreign Trade: Indicators of Arab Export Competitiveness in Global Markets", Chapter Three in Wadie (ed.), "Competitiveness: The Challenge of Arab Economies", Arab Planning Institute Book Publication, Kuwait.

John Page (1998), "From Boom to Bust – and Back? The Crisis of Growth in the Middle East and North Africa," in Nemat Shafik, ed., Prospects for Middle Eastern and North African Economies: From Boom to Bust and Back?, Economic Research Forum for the Middle East, Iran and Turkey, Cairo.

Kravis, I. (1970) : "Trade as Handmaiden of Growth : Similarities between the Nineteenth and Twentieth Centuries ", Economic Journal, Vol.80, No.320, December, 850-72

Krugman, P (1981) "Intra-industry specialization and the gains from trade,' Journal of Political Economy, 91, 1981, 959-973.

Laabas, B (2002), "Arab Development Challenges of the New Millennium", Ashgate, London.

Laabas, B (2005), "Arab Competitiveness Index: Results Analysis", In Wadie, A and El Hag, H (2005), "Competitiveness: The Challenge of Arab Economies", Arab Planning Institute Publication, Kuwait.

Laabas, B (2009), "Structural Transformation, productive Efficiency, and competitiveness of Arab Manufacturing Sector", Journal of Development and Economic policies", Vol 11. No 2, pp. 35-66.

Lall, S (2003), "Reinventing industrial strategy: The role of government policy in building industrial competitiveness",

Lall, S. (2001.a) Competitiveness, Technology and Skills, Cheltenham: Edward Elgar.

Lall, S. (2001.b) 'Competitiveness indices and developing countries: an economic evaluation of the Global Competitiveness Report', World Development, 29(9), 1501-1525.

Leite, C and Weidmann, J (2002), "Does Mother Nature Corrupt?", Natural Resource, Corruption, and Economic Growth", In : Abed, G, and Gupta, S (Eds) Governance, Corruption, and Economic Performance. International Monetary Fund. Washington, DC, pp. 159-196.

Lewis, A (1955), "The Theory of Economic Growth", Allen and Unwin, London.

Limam, I and Abdalla, A (1999), "Inter-Arab Trade and Potential Success of AFTA, In Al-Kawaz, (ed.) New Economic Developments and their Impact on Arab Economies, North Holland, Amsterdam.

Linnemann, H (1966), "An Econometric Study of International Trade Flows", Amsterdam,

Maamri N., 2004, Free trade areas, Euro-mediterranan partnership and prospects of south-south integration in the mediterranenan, University of Al Manar, Tunis. http://emo.pspa.uoa.gr/data/papers/7_paper.pdf

Makdissi, S Fattah, Z, and Limam, I (2007), "Determinants of Growth in the MENA Countries", In Nugent, J and Pesaran H (2007), Explaining Growth in thr Middle East. Elsevier, Amsterdam.

Melhum, H, Moene, K, Torvik, R (2006), "Institutions and the Resource Curse", The Economic Journal, Vol 116, January, pp. 1-20.

Michaely, M., 1996, "Trade Preferential Agreements in Latin America: An Ex-Ante Assessment," Policy Research Working Paper No. 1583 (Washington: World Bank).

Nabli, M Keller, K Veganzones, M. A (2004) Exchange Rate Management within the Middle East and North Africa Region The Cost to Manufacturing Competitiveness

Nabli, M Keller, J Nassif C, Silva-Jáuregui C (2006), "The Political Economy Of Industrial Policy In The Middle East And North Africa" World Bank, March 2006

Neaime S., 2005, South South Trade, Monetary and Financial Integration and the Euro-Mediterranean Partnership: An empirical Investigation, FEMISE Report, FEM-22-39.

Neary, J (2006) "Measuring Competitiveness", IMF Working Paper WP/06/209

Noland, M and Pack, H (2002), "Industrial Policy and growth: Lessons from International Experience", Central Bank of Chile Working Paper Series No 169.

Noland, M, and Pack H. (2003). Industrial Policy in an Era of Globalization: Lessons from Asia. (Washington: Institute for International Economics.) Noland, M and Pack, H (2005), 'THE EAST ASIAN INDUSTRIAL POLICY EXPERIENCE: IMPLICATIONS FOR THE MIDDLE EAST", ECES Working Paper No. 106, December 2005

North, P and Pack, H (2007). The Arab Economies in a Changing World. Peter Peterson Institute for International Economics.

Nouira, R, Plane, P Sekkat, K (2010), "Exchange Rate Undervaluation and Manufactured Exports: A Deliberate Strategy ?. Economic Research Forum Working Paper No 510. ERF Cairo, Egypt.

Prebish, R (1950), "The Economic Development of Latin America and its Principal Problems", United Nations, New York.

Rodrik, D (1986), "Disequilibrium Exchange Rates as Industrialization Policy", Journal of Development Economics", pp.89-106.

Rodrik, D (2004), "Industrial Policy for the Twenty-First Century", Harvard University John F. Kennedy School of Government. http://www.ksg.harvard.edu/rodrik/

Rodrik, D (2009), "Industrial Policy: Don't Ask Why Ask How", Middle East Development Journal, Volume 1, Issue, 1.

Rostow, W (1960), "The Stages of Economic Growth". Cambridge University Press. Cambridge, UK.

Sachs, J., and Warner, A (1995), "Natural Resource Abundance and Economic Growth," in G. Meier and J. Rauch (eds.), Leading Issues in Economic Development, New York: Oxford University Press.

Sachs, J. and Warner A. (1999) "The Big Rush, Natural Resource Booms And Growth," Journal of Development Economics, Vol 59, No 1, June, pp. 43-76.

Sala-i-Martin, X and Subramanian, A (2003), "Addressing the Natural Resource: An Illustration From Nigeria. International Monetary Fund Working Paper, 03/139, Washington DC.

Sala-i-Martin, X and Artadi, E (2002), "Economic Growth and Investment in the Arab World", Department of Economics Discussion Paper Series #:0203-08, Columbia University

Singer, H (1950), "US Foreign Investment and Underdeveloped Areas: The Distribution of Gains Between Investing and Borrowing Countries.". American Economic Review, Papers and Proceedings, Vol 40, pp. 473-485.

Söderbom M, Teal, F (2002), "Are manufacturing exports the key to economic success in Africa?, Centre for the Study of African Economies, Department of Economics University of Oxford, November 2002

Söderling, L (2005) Is the Middle East and North Africa Region Achieving Its Trade Potential? IMF working paper, WP/05/90

Syrquin, M and Chenery, H (1989), Patterns of Development 1950 to 1983", World Bank Discussion Paper No 41.

TradeCAN 2005 : Database Tool to Analyze International Competitiveness Published by World Bank, Washington, DC, USA

Porter, M (1990), "The Competitive Advantage of Nations", Free Press New York.

UNIDO (2009), Industrial Development Report, Geneva Switzerland.

Weshah, R (2009), "Self Selection Versus Learning By Exporting: Four Arab Countries," Journal of Applied Business and Economics, Issue 9(3), July 2009, 97-130.

Westphal, L. E. (1982) 'Fostering technological mastery by means of selective infant-industry protection', in M. Syrquin and S. Teitel (eds.), Trade, Stability, Technology, and Equity in Latin America, New York: Academic Press, 255-279

Westphal, L. E. (1990), 'Industrial policy in an export-propelled economy: lessons from South Korea's experience', Journal of Economic Perspectives, 4(3), 41-59.

Williamson, J (1989) What Washington Means by Policy Reform, in: Williamson, John (ed.): Latin American Readjustment: How Much has Happened, Washington: Institute for International Economics 1989.

Williamson, J (2004) A Short History of the Washington Consensus. Paper commissioned by Fundación CIDOB for a conference "From the Washington Consensus towards a new Global Governance," Barcelona, September 24–25, 2004.

World Economic Forum, Global competitiveness Report, 2009/2010, Davos, Switzerland.

Yeats, A (1996), "Export Prospects of Middle Eastern Countries", A Post Uruguay Round Analysis", Policy Research Working Paper, N0 1571, The World Bank, Washington, DC.

Yeats, J and Ng, F (2000), "Beyond the year 2000: Implications of the Middle East's Recent Trade Performance", In Hoekman, B and Zarrouk, J, Editors, "Catching up with the competition", The University of Michigan Press, Ann Arbor.

World Bank, (1993), The East Asian Miracle, New York, Oxford University Press.

World Bank (2003) MENA DEVELOPMENT REPORT: Trade, Investment, and Development in the Middle East and North Africa, The World Bank, Washington DC

World Economic Forum, Global Competitiveness Report, 2009/10, Switzerland.

Appendix

Table 1	Some Trade Indicators
Table 2	Zero exports
Table 3	Exports structure by group
Table 4	Imports structure by group
Table 5	Exports structure by technology
Table 6	Imports structure by technology
Table 7	Diversification Index-Exports
Table 8	Concentration Index-Exports
Table 9	Revealed Comparative Advantage
Table 10	Export Specialization Index
Table 11	Intra Industry Trade (IIT) Index
Table 12	Exports dynamics 1
Table 13	Exports dynamics 2
Table 14	Exports dynamics 3
Table 15	Exports dynamics 4
Table 16	Exports Similarity Index
Table 17	Trade Complementarity Index

Table 1: Some Trade Indicators

		GDP (consta	nt us\$ 2000))	GDP F	Per Capita (c	onstant us\$	2000)	Exp	orts of Goo	ds and Serv	ices		Imp	orts			Trade E	Balance	
	2000	2006	GR	2000	2006	GR	2000	2006	%GDP	%GDP	GR	2000	2006	%GDP	%GDP	GR	2000	2006	%GDP	%GDP
Algeria	54,790	70,820	4.3%	1796	2123	2.8%	22,050	54,620	40.3	46.9	15.1%	9,984	22,640	18.2	19.4	13.6%	12,066	31,980	22	28
Bahrain	7,971	11,140	5.6%	12261	14776	3.1%	6,243	12,340	78.3	78	11.4%	4,375	9,954	54.9	62.9	13.7%	1,868	2,386	23	15
Egypt	99,840	126,900	4.0%	1501	1711	2.2%	7,061	20,550	7.1	19.1	17.8%	15,380	28,980	15.4	27	10.6%	(8,319)	(8,430)	(8)	(8)
Jordan	8,464	12,130	6.0%	1764	2191	3.6%	1,899	5,204	22.4	36.9	16.8%	4,074	10,260	48.1	72.8	15.4%	(2,175)	(5,056)	(26)	(36)
Kuwait	37,720	60,160	7.8%	17223	23142	4.9%	19,480	58,640	51.6	57.7	18.4%	6,451	14,330	17.1	14.1	13.3%	13,029	44,310	35	44
Lebanon	16,820	20,530	3.3%	4459	5063	2.1%	717	3,207	4.3	14.1	25.0%	6,331	9,345	37.6	41.1	6.5%	(5,614)	(6,138)	(33)	(27)
Morocco	37,020	50,860	5.3%	1301	1668	4.1%	7,419	11,930	20	18.2	7.9%	10,650	21,680	28.8	33	11.8%	(3,231)	(9,750)	(9)	(15)
Oman	19,870	26,750	5.0%	8271	10506	4.0%	11,320	21,590	57	60.4	10.8%	4,593	9,880	23.1	27.7	12.8%	6,727	11,710	34	33
Qatar	17,760	26,080	6.4%	28797	32755	2.1%	8,674	33,620	48.8	63.8	22.6%	3,638	18,330	20.5	34.8	27.0%	5,036	15,290	28	29
Saudi Arabia	188,400	234,100	3.6%	9121	9887	1.3%	77,480	211,300	41.1	59.3	16.7%	27,700	63,910	14.7	17.9	13.9%	49,780	147,390	26	41
Syria	19,330	24,970	4.3%	1170	1287	1.6%	5,146	10,240	26.6	30.7	11.5%	3,723	9,359	19.3	28	15.4%	1,423	881	7	3
Tunisia	19,440	25,500	4.5%	2033	2518	3.6%	5,840	11,690	30	37.8	11.6%	8,093	14,200	41.6	45.9	9.4%	(2,253)	(2,510)	(12)	(8)
United Arab Emirates	70,590	107,000	6.9%	21739	25192	2.5%	30,690	116,600	43.5	71.4	22.2%	29,970	102,900	42.5	63	20.6%	720	13,700	1	8
Yemen	9,441	11,980	4.0%	519	551	1.0%	3,797	7,316	40.2	38.3	10.9%	2,484	5,926	26.3	31.1	14.5%	1,313	1,390	14	7
Mauritania	1,081	1,471	5.1%	421	483	2.3%	343	556	31.7	20.9	8.1%	370	2,041	34.3	76.6	28.4%	(28)	(1,485)	(3)	(56)
Sudan	12,370	18,430	6.6%	371	489	4.6%	1,807	5,657	14.6	15.5	19.0%	1,366	7,105	11	19.5	27.5%	441	(1,448)	4	(4)
Ireland	96,390	133,200	5.4%	25329	31259	3.5%	73,530	104,700	76.3	47.8	5.9%	48,520	72,780	50.3	33.2	6.8%	25,010	31,920	26	15
Portugal	112,600	119,200	0.9%	11016	11259	0.4%	24,660	43,590	21.9	22.4	9.5%	39,190	64,510	34.8	33.1	8.3%	(14,530)	(20,920)	(13)	(11)
South Africa	132,900	169,300	4.0%	3020	3573	2.8%	31,950	63,840	24	24.8	11.5%	27,250	69,940	20.5	27.2	15.7%	4,700	(6,100)	4	(2)
Chile	75,210	96,430	4.1%	4880	5868	3.1%	19,210	58,490	25.5	39.9	18.6%	17,090	35,900	22.7	24.5	12.4%	2,120	22,590	3	15
Malaysia	93,790	125,100	4.8%	4030	4789	2.9%	98,430	160,800	104.9	102.8	8.2%	77,600	124,100	82.7	79.4	7.8%	20,830	36,700	22	23
Korea	511,700	672,200	4.5%	10884	13918	4.1%	176,200	331,800	34.4	37.4	10.5%	159,300	303,900	31.1	34.2	10.8%	16,900	27,900	3	3

	Alı	geria	Ba	hrain	Fø	ypt
	2000	2006	2000	2006	2000	2006
zero export	55	58	121	121	27	17
less than 1 million	206	198	213	209	148	121
		rdan	_	wait	-	anon
				1		
	2000	2006	2000	2006	2000	2006
zero export	55	63	156	178	22	16
less than 1 million	173	147	206	215	167	132
	Mau	ritania	Mo	rocco	On	nan
	2000	2006	2000	2006	2000	2006
zero export	247	248	30	22	38	128
less than 1 million	251	250	121	100	147	176
	Q	atar	Saud	i Arabia	Su	dan
	2000	2006	2000	2006	2000	2006
zero export	174	123	29	11	104	212
less than 1 million	233	226	131	92	220	237
	S	yria	Tu	nisia	U	AE
	2000	2006	2000	2006	2000	2006
zero export	172	13	25	24	47	28
less than 1 million	205	142	113	93	172	111
	Ye	men				
	2000	2006				
zero export	126	100				
less than 1 million	230	215				
	С	hile	Ire	land	Ко	rea
	2000	2006	2000	2006	2000	2006
zero export	9	9	7	4	6	5
less than 1 million	79	57	38	27	32	31
	Ma	laysia	Poi	rtugal	South	Africa
	2000	2006	2000	2006	2000	2006
zero export	3	1	4	3	0	2
less than 1 million	33	20	37	26	24	16

Table 2: Zero exports

Table 3: Exports structure by group

		nd live nals	Bevera toba	0	Crude m ined				Anim vegeta	al and ble oils fats		nicals	Manufa	actured ods	Machin trans equip		manufa	aneous actured cles		dities. & not class
	2000	2006	2000	2006	2000	2006	2000	2006	2000	2006	2000	2006	2000	2006	2000	2006	2000	2006	2000	2006
ARE	0.00	0.01	0.00	0.00	0.00	0.01	0.94	0.90	0.00	0.00	0.00	0.01	0.04	0.02	0.01	0.01	0.01	0.01	0.00	0.02
BHR	0.00	0.00	0.00	0.00	0.03	0.01	0.73	0.81	0.00	0.00	0.02	0.02	0.15	0.14	0.01	0.01	0.05	0.01	0.00	0.00
CHL	0.21	0.13	0.03	0.02	0.27	0.32	0.01	0.02	0.00	0.00	0.05	0.04	0.34	0.41	0.03	0.02	0.02	0.01	0.04	0.03
DZA	0.00	0.00	0.00	0.00	0.00	0.01	0.98	0.98	0.00	0.00	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00
EGY	0.08	0.07	0.00	0.00	0.07	0.03	0.33	0.53	0.01	0.00	0.07	0.05	0.20	0.14	0.02	0.01	0.19	0.03	0.03	0.15
IRL	0.07	0.08	0.01	0.02	0.01	0.02	0.00	0.01	0.00	0.00	0.31	0.43	0.02	0.02	0.42	0.29	0.11	0.10	0.04	0.04
JOR	0.13	0.10	0.01	0.02	0.14	0.12	0.00	0.01	0.01	0.02	0.22	0.20	0.16	0.07	0.12	0.07	0.19	0.38	0.00	0.00
кwт	0.00	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.00	0.00	0.04	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
LBN	0.13	0.11	0.04	0.04	0.06	0.11	0.00	0.00	0.01	0.01	0.12	0.09	0.18	0.22	0.15	0.20	0.24	0.16	0.07	0.07
MAR	0.21	0.18	0.00	0.00	0.09	0.09	0.03	0.04	0.00	0.01	0.12	0.13	0.06	0.07	0.11	0.18	0.36	0.30	0.00	0.00
MRT	0.21	0.25	0.00	0.00	0.46	0.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.07
MYS	0.02	0.02	0.00	0.00	0.03	0.03	0.10	0.14	0.03	0.05	0.03	0.04	0.07	0.08	0.64	0.54	0.08	0.08	0.01	0.02
OMN	0.02	0.02	0.01	0.00	0.00	0.00	0.82	0.92	0.00	0.00	0.01	0.02	0.02	0.02	0.09	0.01	0.02	0.00	0.01	0.00
PRT	0.04	0.04	0.02	0.03	0.04	0.04	0.02	0.05	0.00	0.00	0.04	0.05	0.23	0.21	0.38	0.35	0.22	0.15	0.00	0.08
QAT	0.00	0.00	0.00	0.00	0.00	0.00	0.91	0.91	0.00	0.00	0.05	0.06	0.02	0.01	0.00	0.00	0.02	0.00	0.00	0.02
SAU	0.01	0.01	0.00	0.00	0.00	0.00	0.92	0.91	0.00	0.00	0.05	0.06	0.01	0.01	0.00	0.01	0.00	0.00	0.00	0.00
SDN	0.07	0.03	0.00	0.00	0.14	0.05	0.66	0.90	0.00	0.00	0.00	0.00	0.02	0.00	0.06	0.00	0.00	0.00	0.04	0.02
SYR	0.08	0.15	0.00	0.01	0.05	0.03	0.76	0.41	0.00	0.02	0.00	0.04	0.04	0.11	0.00	0.05	0.03	0.12	0.02	0.07
TUN	0.04	0.04	0.01	0.01	0.02	0.02	0.12	0.13	0.04	0.07	0.10	0.08	0.07	0.10	0.15	0.21	0.45	0.34	0.00	0.00
YEM	0.04	0.04	0.00	0.00	0.01	0.00	0.95	0.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ZAF	0.06	0.05	0.02	0.01	0.10	0.10	0.08	0.09	0.00	0.00	0.06	0.06	0.28	0.39	0.22	0.27	0.04	0.03	0.13	0.01
KOR	0.01	0.01	0.00	0.00	0.01	0.01	0.05	0.06	0.00	0.00	0.06	0.08	0.17	0.13	0.62	0.63	0.07	0.08	0.01	0.00

	Food a anin		Bevera toba	-	Crude m ined		Minera lubrica related p	l fuels, nts and	Anima	al and ble oils		nicals	Manufa	actured ods		ery and sport ment	manufa	aneous actured cles		dities. & not class
	2000	2006	2000	2006	2000	2006	2000	2006	2000	2006	2000	2006	2000	2006	2000	2006	2000	2006	2000	2006
ARE	9.05	5.16	0.61	0.46	1.63	1.76	0.69	0.80	0.37	0.29	5.72	4.03	19.98	18.12	46.89	33.97	14.64	10.06	0.42	25.37
BHR	7.68	4.37	1.37	1.04	6.83	5.20	43.78	54.45	0.26	0.18	3.66	2.63	11.39	9.52	20.08	19.44	4.93	3.16	0.01	0.02
CHL	6.30	5.83	0.27	0.19	1.57	3.40	17.58	23.42	0.47	0.35	9.67	8.56	13.43	11.19	39.63	38.17	10.27	8.73	0.81	0.15
DZA	23.68	15.98	0.37	0.43	2.63	2.66	1.28	1.06	1.75	1.69	8.91	9.73	15.72	21.39	41.62	42.48	4.04	4.58	0.00	0.01
EGY	19.77	14.40	1.66	1.00	7.01	7.28	7.29	15.88	2.05	2.26	9.62	7.72	14.40	11.95	29.76	22.80	4.11	2.94	4.33	13.76
IRL	5.12	6.46	0.94	1.19	1.51	1.72	4.10	7.61	0.23	0.26	9.33	10.93	7.82	8.89	56.98	45.44	10.54	11.80	3.43	5.71
JOR	17.04	10.63	1.07	1.08	3.40	1.62	4.55	23.27	1.31	1.09	9.37	7.06	15.87	18.27	38.31	27.79	5.94	7.10	3.12	2.08
кwт	15.11	16.66	0.90	1.26	1.94	1.87	0.57	0.60	0.54	0.00	6.03	2.33	17.05	7.57	42.47	17.51	14.19	6.12	1.21	46.07
LBN	14.33	12.09	2.08	1.81	2.87	2.64	16.25	23.65	0.75	0.89	8.49	9.67	14.73	15.86	24.60	23.36	10.04	9.98	5.85	0.05
MAR	10.72	6.75	0.58	0.44	5.05	4.76	17.07	20.87	1.25	1.14	6.75	7.53	20.55	20.46	31.62	32.07	6.34	5.91	0.06	0.08
MRT	15.29	18.34	1.12	3.53	0.52	0.72	21.90	25.88	1.43	2.21	2.67	3.53	9.26	14.23	28.91	27.68	2.85	3.81	16.06	0.08
MYS	3.59	4.03	0.22	0.31	2.24	2.58	4.72	8.66	0.19	0.54	5.72	6.25	10.26	11.25	64.95	57.99	5.52	5.48	2.59	2.91
OMN	11.46	8.50	8.25	0.73	2.76	2.74	1.56	3.10	1.43	0.71	4.80	4.58	13.25	17.79	47.21	53.53	5.76	5.33	3.53	2.99
PRT	9.02	9.14	1.05	0.74	3.35	2.56	9.93	14.82	0.31	0.55	7.35	8.98	17.26	16.11	41.16	32.66	10.18	9.58	0.39	4.85
QAT	9.16	3.85	0.92	0.64	2.30	1.87	0.38	0.54	0.40	0.17	4.57	3.54	18.59	22.56	51.81	50.85	11.76	8.68	0.12	7.29
SAU	14.43	10.92	1.18	0.74	1.65	1.67	0.15	0.21	0.66	0.53	7.08	6.78	15.53	19.16	45.81	51.79	9.91	7.64	3.59	0.56
SDN	19.34	10.24	0.06	0.32	1.19	0.77	7.13	4.80	1.59	0.78	9.11	5.67	16.94	16.77	38.66	53.10	5.98	6.59	0.00	0.95
SYR	13.01	10.56	0.27	0.87	5.72	3.97	3.66	26.73	3.75	0.70	9.87	8.63	29.23	20.72	25.58	24.16	1.64	1.72	7.28	1.94
TUN	6.09	5.89	0.56	0.50	4.29	3.42	9.86	14.42	0.92	1.55	6.70	7.66	22.98	23.36	38.44	33.93	9.92	9.19	0.22	0.08
YEM	6.09	5.89	0.56	0.50	4.29	3.42	9.86	14.42	0.92	1.55	6.70	7.66	22.98	23.36	38.44	33.93	9.92	9.19	0.22	0.08
ZAF	3.24	2.98	0.52	0.55	3.09	2.84	13.60	17.51	0.58	0.61	8.68	6.74	11.57	10.34	42.26	42.53	8.21	8.50	8.24	7.42
KOR	3.97	3.60	0.32	0.19	6.05	6.24	23.25	27.51	0.17	0.20	6.36	6.33	11.17	13.43	39.97	33.68	7.34	8.47	1.39	0.36

Table 4: Imports structure by group

Table 5: Exports by technology

	F	Resource Based	(RB)	L	ow Technology	/ (LT)		um Technology	/ (MT)	Hi	gh Technology	(HT)
	2000	2006	Δ	2000	2006	Δ	2000	2006	Δ	2000	2006	Δ
ARE	0.98	0.95	-0.03	0.01	0.03	0.02	0.01	0.02	0.01	0.00	0.00	0.00
BHR	0.91	0.95	0.04	0.07	0.02	-0.04	0.03	0.03	0.00	0.00	0.00	0.00
CHL	0.86	0.90	0.05	0.07	0.04	-0.02	0.06	0.05	-0.02	0.01	0.00	-0.01
DZA	0.99	0.99	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00
EGY	0.56	0.67	0.11	0.27	0.26	-0.02	0.15	0.06	-0.09	0.02	0.01	-0.01
IRL	0.32	0.36	0.04	0.14	0.11	-0.03	0.11	0.12	0.00	0.41	0.40	-0.01
JOR	0.40	0.33	-0.07	0.27	0.43	0.15	0.20	0.15	-0.05	0.13	0.08	-0.05
кwт	0.95	0.95	0.00	0.00	0.01	0.01	0.04	0.03	-0.01	0.00	0.00	0.00
LBN	0.42	0.41	-0.01	0.33	0.29	-0.04	0.16	0.20	0.03	0.09	0.10	0.02
MAR	0.44	0.43	-0.01	0.38	0.33	-0.05	0.10	0.17	0.07	0.08	0.07	-0.01
MRT	0.66	0.93	0.27	0.34	0.07	-0.27	0.00	0.00	0.00	0.00	0.00	0.00
MYS	0.22	0.28	0.06	0.09	0.11	0.02	0.20	0.19	0.00	0.49	0.41	-0.08
OMN	0.87	0.95	0.09	0.03	0.02	-0.01	0.09	0.03	-0.06	0.01	0.00	-0.01
PRT	0.24	0.27	0.03	0.32	0.32	0.00	0.37	0.33	-0.04	0.06	0.08	0.01
QAT	0.92	0.92	0.00	0.03	0.03	0.00	0.05	0.05	0.00	0.00	0.00	0.00
SAU	0.95	0.93	-0.02	0.01	0.02	0.01	0.04	0.05	0.01	0.00	0.00	0.00
SDN	0.85	0.96	0.11	0.06	0.02	-0.04	0.05	0.00	-0.05	0.01	0.00	-0.01
SYR	0.88	0.60	-0.29	0.08	0.25	0.17	0.01	0.12	0.11	0.00	0.01	0.01
TUN	0.29	0.32	0.03	0.49	0.39	-0.10	0.19	0.24	0.05	0.03	0.05	0.02
YEM	0.99	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ZAF	0.43	0.54	0.10	0.25	0.10	-0.15	0.28	0.32	0.05	0.04	0.04	0.00
KOR	0.13	0.14	0.01	0.17	0.11	-0.06	0.38	0.46	0.08	0.32	0.29	-0.03

Table 6: Imports by technology

		RB			LT		<u>0,</u>	МТ			HT	
	2000	2006	Δ	2000	2006	Δ	2000	2006	Δ	2000	2006	Δ
ARE	20.66	22.06	1.40	23.53	30.66	7.13	50.52	40.94	-9.58	14.63	12.37	-2.26
BHR	66.04	69.68	3.64	10.96	8.93	-2.03	22.31	19.56	-2.75	3.90	3.68	-0.22
CHL	32.77	38.89	6.13	16.18	13.36	-2.82	37.99	36.75	-1.23	12.02	10.12	-1.91
DZA	36.61	26.75	-9.86	10.90	18.48	7.58	38.21	40.67	2.46	13.85	13.24	-0.61
EGY	42.42	44.89	2.47	13.75	20.32	6.57	33.23	26.08	-7.15	7.87	6.65	-1.22
IRL	17.60	24.18	6.58	14.72	19.28	4.55	29.54	26.75	-2.79	37.71	29.23	-8.48
JOR	33.13	43.33	10.20	15.08	17.44	2.37	37.55	27.43	-10.12	12.41	10.83	-1.58
кwт	26.68	20.56	-6.12	22.41	59.21	36.80	44.11	21.41	-22.69	10.69	5.17	-5.52
LBN	40.24	46.00	5.77	21.07	15.95	-5.12	27.05	26.03	-1.02	9.23	9.76	0.54
MAR	39.67	40.06	0.39	16.99	16.47	-0.52	29.57	33.49	3.92	13.59	9.82	-3.77
MRT	45.16	15.49	-29.66	22.18	3.52	-18.66	28.19	75.80	47.60	4.46	5.11	0.64
MYS	16.85	22.78	5.93	10.14	10.85	0.71	28.68	26.92	-1.76	44.14	39.27	-4.87
OMN	29.28	21.43	-7.85	14.15	17.80	3.65	49.32	54.45	5.13	6.10	5.52	-0.58
PRT	30.28	34.61	4.33	17.72	21.31	3.59	38.40	30.15	-8.25	12.78	13.09	0.31
QAT	17.44	12.37	-5.07	21.39	29.59	8.20	50.63	48.31	-2.32	9.43	9.35	-0.09
SAU	25.23	21.74	-3.49	16.65	15.47	-1.18	43.77	48.71	4.94	13.32	13.03	-0.29
SDN	37.55	22.66	-14.89	14.86	15.01	0.15	36.35	50.15	13.81	11.23	12.16	0.93
SYR	33.61	51.03	17.42	26.84	13.71	-13.13	34.73	31.27	-3.46	4.53	3.70	-0.83
TUN	26.68	32.16	5.48	23.41	22.55	-0.86	39.29	35.40	-3.89	10.47	9.73	-0.74
YEM	57.60	48.68	-8.92	8.37	14.34	5.97	27.62	28.50	0.87	6.05	7.21	1.16
ZAF	29.42	31.17	1.74	17.55	17.46	-0.09	33.93	36.52	2.59	19.03	14.77	-4.26
KOR	40.51	45.82	5.30	9.40	10.49	1.09	23.33	24.66	1.33	26.30	18.76	-7.53

Table 7: Diversification Index-Exports

	AI	RE	Bł	IR	Cl	ΗL	DZ	Δ	E	GΥ	IF	RL	JC	DR	PI	RT	YE	М	S	/R	SA	AU
Year	2000	2006	2000	2006	2000	2006	2000	2006	2000	2006	2000	2006	2000	2006	2000	2006	2000	2006	2000	2006	2000	2006
Total	0.87	0.81	0.88	0.88	0.78	0.82	0.89	0.86	0.70	0.69	0.60	0.65	0.71	0.77	0.47	0.41	0.97	0.87	0.84	0.70	87.25	81.88
RB	0.52	0.48	0.51	0.54	0.45	0.50	0.53	0.51	0.28	0.32	0.23	0.26	0.26	0.25	0.13	0.14	0.60	0.52	0.47	0.30	51.21	48.26
LT	0.08	0.08	0.09	0.08	0.07	0.07	0.09	0.08	0.11	0.11	0.09	0.08	0.13	0.23	0.14	0.11	0.09	0.08	0.08	0.11	8.25	7.79
MT	0.17	0.16	0.17	0.17	0.16	0.17	0.17	0.17	0.22	0.17	0.14	0.14	0.16	0.18	0.12	0.11	0.17	0.17	0.17	0.20	17.48	16.86
HT	0.10	0.09	0.10	0.09	0.10	0.09	0.10	0.09	0.09	0.09	0.14	0.16	0.14	0.10	0.07	0.05	0.10	0.09	0.10	0.08	10.14	8.81
	KOR		ки	νт	LE	BN	M	٩R	м	RT	м	YS	ON	ΝN	Z	٨F	τι	JN	SE	DN	Q	AT
Year	2000	2006	2000	2006	2000	2006	2000	2006	2000	2006	2000	2006	2000	2006	2000	2006	2000	2006	2000	2006	2000	2006
Total	0.41	0.44	0.90	0.86	0.67	0.65	0.75	0.74	0.96	0.96	0.51	0.46	0.76	0.85	0.52	0.55	0.69	0.59	0.87	0.94	0.88	0.83
RB	0.11	0.13	0.52	0.51	0.26	0.27	0.27	0.28	0.46	0.61	0.12	0.13	0.46	0.51	0.20	0.28	0.16	0.16	0.47	0.58	0.50	0.48
LT	0.06	0.06	0.09	0.08	0.16	0.13	0.21	0.18	0.23	0.09	0.06	0.05	0.08	0.08	0.11	0.07	0.25	0.19	0.11	0.09	0.08	0.07
МТ	0.13	0.14	0.19	0.18	0.14	0.14	0.19	0.20	0.18	0.17	0.15	0.12	0.13	0.17	0.12	0.13	0.19	0.18	0.19	0.17	0.19	0.19
HT	0.11	0.11	0.10	0.09	0.10	0.11	0.08	0.08	0.10	0.09	0.19	0.17	0.10	0.09	0.08	0.07	0.10	0.07	0.10	0.09	0.10	0.09

Table 8: Concentration Index – Exports

	AF	RE	BH	IR	Cl	HL	D	ZA	EC	6Y	IF	RL	JC	DR	PI	RT	YE	М	S	/R	SA	NU NU
Year	2000	2006	2000	2006	2000	2006	2000	2006	2000	2006	2000	2006	2000	2006	2000	2006	2000	2006	2000	2006	2000	2006
Total	0.74	0.70	0.75	0.82	0.33	0.43	0.55	0.63	0.28	0.35	0.28	0.28	0.21	0.23	0.16	0.15	0.95	0.91	0.70	0.36	0.81	0.79
RB	0.74	0.70	0.75	0.82	0.33	0.43	0.55	0.63	0.25	0.32	0.19	0.19	0.15	0.12	0.06	0.06	0.95	0.91	0.70	0.35	0.81	0.79
LT	0.00	0.02	0.03	0.01	0.03	0.02	0.00	0.00	0.08	0.13	0.07	0.05	0.08	0.17	0.09	0.10	0.00	0.00	0.03	0.08	0.00	0.00
МТ	0.00	0.01	0.01	0.01	0.02	0.02	0.00	0.00	0.09	0.02	0.03	0.03	0.06	0.06	0.11	0.10	0.00	0.00	0.01	0.05	0.02	0.02
нт	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.01	0.00	0.19	0.19	0.11	0.07	0.02	0.04	0.00	0.00	0.00	0.01	0.00	0.00
	ко	DR	ки	νт	LB	BN	M	AR	М	RT	м	YS	ON	/IN	Z	4F	τι	IN	SE	DN .	Q	۹T
Year	2000	2006	2000	2006	2000	2006	2000	2006	2000	2006	2000	2006	2000	2006	2000	2006	2000	2006	2000	2006	2000	2006
Total	0.20	0.20	0.66	0.67	0.18	0.16	0.23	0.21	0.60	0.73	0.27	0.23	0.80	0.75	0.19	0.20	0.26	0.22	0.63	0.90	0.60	0.60
RB	0.05	0.06	0.66	0.67	0.11	0.11	0.14	0.12	0.50	0.73	0.06	0.09	0.80	0.75	0.10	0.17	0.12	0.13	0.63	0.90	0.60	0.59
LT	0.03	0.03	0.00	0.01	0.13	0.09	0.17	0.14	0.34	0.07	0.02	0.03	0.01	0.01	0.14	0.03	0.22	0.16	0.04	0.02	0.02	0.02
МТ	0.10	0.14	0.03	0.03	0.04	0.05	0.05	0.08	0.00	0.00	0.05	0.04	0.04	0.02	0.08	0.10	0.08	0.08	0.04	0.00	0.03	0.04
нт	0.16	0.14	0.00	0.00	0.04	0.06	0.07	0.06	0.00	0.00	0.25	0.21	0.01	0.00	0.02	0.01	0.01	0.02	0.00	0.00	0.00	0.00

Table 9: Revealed Comparative Advantage

			% of exports with				1001.0			RCA > 1 by Tech Levels							
	RCA>1		RCA>1		ΔRCA>0					RB		LT		МТ		HT	
	2000	2006	2000	2006	Total	RB	LT	мт	нт	2000	2006	2000	2006	2000	2006	2000	2006
ARE	8	14	0.97	0.96	159	66	32	49	11	8	11	0	1	0	2	0	0
BHR	12	8	0.96	0.97	64	23	22	17	2	7	3	3	2	2	3	0	0
CHL	43	37	0.87	0.90	61	30	7	14	9	38	32	2	2	2	3	1	0
DZA	10	8	0.99	0.98	92	51	17	15	8	10	8	0	0	0	0	0	0
EGY	57	45	0.93	0.85	99	46	13	34	8	32	28	18	8	7	9	0	0
IRL	35	39	0.85	0.85	136	70	15	38	11	21	25	3	3	4	6	7	5
JOR	59	45	0.91	0.90	72	28	16	22	4	27	24	16	11	14	9	2	1
кwт	6	5	0.98	0.98	32	22	4	4	0	4	3	0	0	2	2	0	0
LBN	66	74	0.85	0.84	141	61	28	40	11	31	34	19	19	14	18	2	3
MAR	50	57	0.92	0.90	143	59	27	43	13	33	36	13	15	3	5	1	1
MRT	4	4	1.00	1.00	4	3	1	0	0	3	3	1	1	0	0	0	0
MYS	37	49	0.74	0.71	161	67	30	55	8	17	22	5	9	8	12	7	6
OMN	10	14	0.84	0.96	43	26	9	8	0	8	11	1	1	1	2	0	0
PRT	75	93	0.76	0.82	164	86	24	43	8	30	41	25	30	18	20	2	2
QAT	10	8	0.96	0.97	86	36	19	25	6	6	6	2	0	2	2	0	0
SAU	8	8	0.97	0.94	157	67	30	44	14	4	5	0	0	4	3	0	0
SDN	20	8	0.93	0.99	10	8	1	1	0	17	7	2	1	1	0	0	0
SYR	22	44	0.95	0.94	222	94	44	65	17	14	22	7	18	1	4	0	0
TUN	44	59	0.85	0.80	154	63	29	51	10	24	30	15	21	4	7	1	1
YEM	13	12	0.98	0.95	119	54	28	31	6	13	10	0	1	0	1	0	0
ZAF	68	59	0.73	0.76	91	40	12	31	9	47	39	10	8	10	11	1	1
KOR	60	55	0.78	0.83	113	48	10	46	9	12	10	22	14	22	25	4	6
	SI>	1							Count if s	SI>1 by tech							
-----	------	------	-----------	-----------	--------	------	------	------	------------	--------------	------	------	------				
	312	1	% exports	with SI>1	ΔRCA>0	RE	3	I	.T	N	ИТ		IT				
	2000	2006	2000	2006		2000	2006	2000	2006	2000	2006	2000	2006				
ARE	8	8	97%	92%	126	8	8	0	0	0	0	0	0				
BHR	10	8	96%	97%	64	5	3	3	2	2	3	0	0				
CHL	42	39	87%	90%	67	37	34	2	2	2	3	1	0				
DZA	10	8	99%	98%	92	10	8	0	0	0	0	0	0				
EGY	57	45	93%	85%	100	32	28	18	8	7	9	0	0				
IRL	36	39	85%	85%	137	22	25	3	3	4	6	7	5				
JOR	57	46	90%	90%	74	26	24	15	12	14	9	2	1				
кwт	7	6	98%	98%	32	5	4	0	0	2	2	0	0				
LBN	68	76	85%	85%	143	33	35	19	20	14	18	2	3				
MAR	51	59	93%	90%	151	33	36	13	16	4	6	1	1				
MRT	4	4	100%	100%	4	3	3	1	1	0	0	0	0				
MYS	38	47	74%	71%	168	19	21	5	8	7	12	7	6				
OMN	10	14	84%	96%	43	8	11	1	1	1	2	0	0				
PRT	72	95	75%	79%	168	28	42	24	30	18	22	2	1				
QAT	11	8	99%	97%	85	7	6	2	0	2	2	0	0				
SAU	7	8	96%	94%	159	4	5	0	0	3	3	0	0				
SDN	19	8	93%	99%	10	16	7	2	1	1	0	0	0				
SYR	22	45	95%	94%	223	14	22	7	19	1	4	0	0				
TUN	46	64	86%	86%	149	24	30	17	20	4	12	1	2				
YEM	12	13	98%	95%	118	12	11	0	1	0	1	0	0				
ZAF	67	60	72%	77%	94	46	39	10	9	10	11	1	1				
KOR	61	54	78%	82%	114	10	9	24	15	23	25	4	5				

Table 10: Export Specialization Index

Table 11: Intra Industry Trade (IIT) index

	Alg	eria	Bah	rain	Egy	/pt	Jor	dan	Kuv	wait	Leba	anon	Maur	itania	Port	ugal	South A	frica	Ко	rea	Mala	aysia
	2000	2006	2000	2006	2000	2006	2000	2006	2000	2006	2000	2006	2000	2006	2000	2006	2000	2006	2000	2006	2000	2006
Aggregate	0.020	0.013	0.447	0.36	0.222	0.343	0.234	0.214	0.020	0.028	0.161	0.232	0.167	0.001	0.521	0.597	0.461	0.395	0.521	0.476	0.583	0.662
RB	0.014	0.010	0.508	0.39	0.297	0.344	0.211	0.164	0.017	0.016	0.141	0.186	0.000	0.000	0.445	0.443	0.285	0.306	0.321	0.310	0.449	0.531
LT	0.068	0.064	0.374	0.36	0.358	0.572	0.378	0.267	0.080	0.091	0.236	0.367	0.604	0.011	0.513	0.707	0.651	0.334	0.614	0.678	0.521	0.654
МТ	0.048	0.020	0.121	0.10	0.071	0.183	0.177	0.193	0.027	0.022	0.126	0.232	0.000	0.000	0.615	0.710	0.577	0.592	0.445	0.483	0.550	0.705
нт	0.150	0.050	0.154	0.15	0.197	0.128	0.320	0.312	0.175	0.058	0.214	0.202	0.000	0.000	0.514	0.511	0.435	0.508	0.582	0.509	0.428	0.551
0.00	0.003	0.028	0.087	0.12	0.131	0.209	0.160	0.296	0.055	0.033	0.182	0.292	0.000	0.001	0.364	0.449	0.299	0.344	0.456	0.336	0.477	0.544
1.00	0.045	0.061	0.045	0.15	0.035	0.045	0.416	0.825	0.068	0.230	0.150	0.210	0.000	0.000	0.674	0.519	0.467	0.561	0.624	0.482	0.362	0.665
2.00	0.037	0.007	0.296	0.36	0.132	0.157	0.087	0.055	0.021	0.003	0.116	0.160	0.000	0.000	0.338	0.423	0.193	0.193	0.139	0.144	0.338	0.323
3.00	0.009	0.004	0.622	0.42	0.627	0.439	0.002	0.030	0.005	0.004	0.000	0.001	0.000	0.000	0.249	0.285	0.113	0.209	0.220	0.191	0.507	0.631
4.00	0.042	0.090	0.761	0.00	0.126	0.055	0.157	0.239	0.117	0.023	0.333	0.297	0.000	0.000	0.843	0.706	0.380	0.125	0.112	0.074	0.087	0.177
5.00	0.146	0.087	0.091	0.14	0.285	0.436	0.579	0.470	0.074	0.076	0.142	0.189	0.000	0.000	0.447	0.433	0.533	0.511	0.565	0.533	0.641	0.726
6.00	0.055	0.064	0.203	0.13	0.312	0.300	0.281	0.197	0.122	0.216	0.232	0.305	0.000	0.000	0.595	0.607	0.436	0.334	0.529	0.608	0.544	0.599
7.00	0.031	0.006	0.129	0.09	0.029	0.048	0.127	0.156	0.017	0.003	0.123	0.283	0.000	0.000	0.598	0.712	0.552	0.566	0.615	0.556	0.633	0.713
8.00	0.069	0.057	0.221	0.34	0.148	0.328	0.494	0.298	0.043	0.034	0.309	0.445	0.000	0.000	0.481	0.598	0.427	0.378	0.524	0.462	0.509	0.648
	Mor	0000	On	nan	Qa	tar	Saudi	Arabia	Su	dan	Sy	ria	Tun	isia	U	AE	Yem	en	Ch	ile	Irel	land
	2000	2006	2000	2006	2000	2006	2000	2006	2000	2006	2000	2006	2000	2006	2000	2006	2000	2006	2000	2006	2000	2006
Aggregate	0.191	0.216	0.223	0.078	0.016	0.043	0.051	0.064	0.120	0.071	0.111	0.219	0.306	0.394	0.041	0.087	0.027	0.058	0.182	0.153	0.546	0.454
RB	0.144	0.169	0.090	0.063	0.006	0.011	0.032	0.036	0.151	0.135	0.074	0.238	0.372	0.417	0.033	0.067	0.027	0.068	0.153	0.144	0.280	0.304
LT	0.203	0.216	0.369	0.256	0.108	0.275	0.243	0.368	0.033	0.035	0.298	0.308	0.295	0.308	0.109	0.168	0.044	0.031	0.332	0.229	0.497	0.596
MT	0.183	0.254	0.545	0.058	0.011	0.011	0.106	0.119	0.088	0.000	0.066	0.123	0.285	0.445	0.046	0.095	0.032	0.029	0.230	0.188	0.618	0.522
НТ	0.377	0.413	0.509	0.293	0.060	0.093	0.168	0.252	0.123	0.000	0.006	0.115	0.524	0.551	0.014	0.058	0.003	0.026	0.244	0.246	0.738	0.512
0.00	0.092	0.163	0.381	0.329	0.022	0.023	0.157	0.247	0.132	0.062	0.215	0.255	0.171	0.207	0.058	0.266	0.109	0.135	0.223	0.226	0.437	0.490
1.00	0.171	0.280	0.491	0.178	0.007	0.001	0.132	0.320	0.177	0.008	0.000	0.087	0.646	0.576	0.305	0.272	0.426	0.349	0.118	0.113	0.542	0.599
2.00	0.128	0.191	0.116	0.128	0.055	0.034	0.183	0.236	0.017	0.096	0.047	0.072	0.208	0.256	0.259	0.134	0.074	0.086	0.056	0.104	0.435	0.294
3.00	0.149	0.116	0.018	0.018	0.003	0.005	0.001	0.001	0.199	0.168	0.045	0.245	0.430	0.469	0.009	0.016	0.002	0.052	0.126	0.223	0.202	0.195
4.00	0.049	0.518	0.557	0.898	0.043	0.093	0.178	0.216	0.067	0.005	0.148	0.239	0.470	0.406	0.464	0.590	0.047	0.166	0.254	0.643	0.203	0.126
5.00	0.248	0.224	0.346	0.189	0.053	0.106	0.250	0.285	0.019	0.002	0.071	0.191	0.252	0.322	0.065	0.220	0.094	0.090	0.395	0.368	0.253	0.244
6.00	0.206	0.190	0.406	0.334	0.050	0.087	0.319	0.302	0.036	0.000	0.249	0.272	0.276	0.340	0.094	0.191	0.028	0.010	0.179	0.105	0.540	0.440
7.00	0.245	0.295	0.559	0.039	0.001	0.001	0.048	0.063	0.102	0.000	0.013	0.088	0.314	0.513	0.036	0.057	0.006	0.011	0.160	0.137	0.724	0.591
8.00	0.220	0.213	0.441	0.240	0.155	0.017	0.058	0.187	0.037	0.000	0.048	0.136	0.305	0.305	0.101	0.084	0.029	0.047	0.272	0.178	0.445	0.464

DZA	Count	%	Value	%	BHR	Count	%	Value DX	%
RS	43.00	0.19	21781123.19	0.67	RS	28.00	0.18	81142.36	0.02
FS	55.00	0.24	82948.94	0.00	FS	35.00	0.22	116351.27	0.02
SR	73.00	0.32	-52207.28	0.00	SR	55.00	0.35	-275178.30	-0.05
MO	54.00	0.24	10751118.84	0.33	мо	40.00	0.25	5385776.84	1.01
Total	225.00	1.00	32562983.69	1.00	Total	158.00	1.00	5308092.17	1.00
EGY	Count	%	Value	%	JOR	Count	%	Value	%
RS	62.00	0.25	8713397.04	1.00	RS	47.00	0.22	829137.82	0.26
FS	73.00	0.30	820161.80	0.09	FS	64.00	0.30	2140639.89	0.68
SR	68.00	0.28	-415058.32	-0.05	SR	57.00	0.27	-41561.96	-0.01
мо	41.00	0.17	-427750.57	-0.05	мо	42.00	0.20	211272.70	0.07
Total	244.00	1.00	8690749.95	1.00	0.00	210.00	1.00	3139488.45	1.00
KWT	Count	%	Value	%	LBN	Count	%	Value	%
RS	10.00	0.10	306487.53	0.03	RS	65.00	0.27	544214.64	0.47
FS	18.00	0.17	124275.65	0.01	FS	96.00	0.40	438573.23	0.38
SR	42.00	0.40	-51777.51	-0.01	SR	46.00	0.19	28925.15	0.02
MO	35.00	0.33	8595919.74	0.96	мо	36.00	0.15	146075.29	0.13
Total	105.00	1.00	8974905.41	1.00	0.00	243.00	1.00	1157788.31	1.00
MRT	Count	%	Value	%	MAR	Count	%	Value	%
RS	0.00	0.00	0.00	0.00	RS	55.00	0.23	1361860.56	0.26
FS	4.00	0.57	66523.15	0.31	FS	76.00	0.32	2372977.91	0.46
SR	1.00	0.14	-5.22	0.00	SR	61.00	0.26	1205656.08	0.23
MO	2.00	0.29	147072.60	0.69	мо	44.00	0.19	234464.96	0.05
Total	7.00	1.00	213590.53	1.00	0.00	236.00	1.00	5174959.50	1.00
OMN	Count	%	Value	%	QAT	Count	%	Value	%
RS	20.00	0.09	3726608.42	0.43	RS	49.00	0.35	24647606.69	0.99
FS	22.00	0.10	624623.54	0.07	FS	54.00	0.38	511283.56	0.02
SR	108.00	0.49	-1148502.84	-0.13	SR	21.00	0.15	-132011.93	-0.01
MO	72.00	0.32	5401180.04	0.63	мо	17.00	0.12	-82110.36	0.00
Total	222.00	1.00	8603909.15	1.00	0.00	141.00	1.00	24944767.96	1.00
KSA	Count	%	Value	%	SDN	Count	%	Value	%
RS	74.00	0.30	115195095.30	0.88	RS	9.00	0.06	3808491.38	1.03
FS	112.00	0.46	3296202.52	0.03	FS	5.00	0.03	97054.87	0.03
SR	31.00	0.13	-62058.93	0.00	SR	83.00	0.54	-59280.53	-0.02
MO	29.00	0.12	11780889.99	0.09	мо	58.00	0.37	-146695.95	-0.04
Total	246.00	1.00	130210128.87	1.00	0.00	155.00	1.00	3699569.78	1.00

Table 12: Exports dynamics 1

SYR	Count	%	Value	%	TUN	Count	%	Value	%
RS	92.00	0.38	1994981.84	0.32	RS	71.00	0.30	1846466.95	0.31
FS	133.00	0.55	3321683.03	0.54	FS	89.00	0.37	3267023.43	0.55
SR	10.00	0.04	-6538.72	0.00	SR	48.00	0.20	122846.87	0.02
мо	7.00	0.03	865058.94	0.14	мо	31.00	0.13	660325.17	0.11
Total	242.00	1.00	6175185.09	1.00	0.00	239.00	1.00	5896662.41	1.00
UAE	Count	%	Value DX	%	YEM	Count	%	Value	%
RS	65.00	0.28	15685879.95	0.32	RS	49.00	0.25	5594388.02	0.95
FS	105.00	0.45	1599310.23	0.03	FS	70.00	0.36	169330.59	0.03
SR	33.00	0.14	-75039.04	0.00	SR	45.00	0.23	-13476.81	0.00
мо	31.00	0.13	32317145.54	0.65	мо	30.00	0.15	169330.59	0.03
Total	234.00	1.00	49527296.67	1.00	0.00	194.00	1.00	5919572.39	1.00
CHL	Count	%	Value	%	IRL	Count	%	Value	%
RS	54.00	0.22	30890150.62	0.82	RS	42.00	0.17	22447994.55	0.69
FS	65.00	0.26	4023141.37	0.11	FS	58.00	0.23	4817713.08	0.15
SR	78.00	0.31	1767459.65	0.05	SR	86.00	0.34	753404.87	0.02
мо	51.00	0.21	906366.04	0.02	мо	67.00	0.26	4390617.57	0.14
Total	248.00	1.00	37587117.68	1.00	0.00	253.00	1.00	32409730.07	1.00
KOR	Count	%	Value	%	MYS	Count	%	Value	%
RS	55.00	0.22	53015607.70	0.31	RS	60.00	0.24	18192532.83	0.28
FS	59.00	0.24	89871701.30	0.53	FS	72.00	0.28	27216918.57	0.43
SR	85.00	0.34	-4581639.08	-0.03	SR	73.00	0.29	3110494.77	0.05
мо	51.00	0.20	30312058.55	0.18	мо	49.00	0.19	15445694.55	0.24
Total	250.00	1.00	168617728.47	1.00	0.00	254.00	1.00	63965640.72	1.00
PRT	Count	%	Value	%	ZAF	Count	%	Value	%
RS	68.00	0.27	10016279.41	0.52	RS	43.00	0.17	17836400.82	0.62
FS	84.00	0.33	7060813.66	0.37	FS	59.00	0.23	6355585.37	0.22
SR	61.00	0.24	839555.31	0.04	SR	86.00	0.34	1483324.85	0.05
мо	40.00	0.16	1202466.17	0.06	мо	66.00	0.26	3025165.37	0.11
Total	253.00	1.00	19119114.55	1.00	0.00	254.00	1.00	28700476.40	1.00

DZA	RS	FS	SR	мо	SUM	BHR	RS	FS	SR	мо	SUM
RB	21620989.00	47785.65	-14724.04	10826286.77	32480337.39	RB	10962.66	13709.78	-19171.52	5320052.19	5325553.11
LT	103974.33	24926.05	-2132.12	-6964.28	119803.97	LT	46577.09	36542.82	-242850.62	-5138.53	-164869.24
МТ	50844.69	8582.79	-19523.60	-67268.00	-27364.11	МТ	23119.06	66098.22	-12858.44	70996.15	147354.99
HT	5315.17	1609.90	-15870.21	-935.66	-9880.80	HT	483.55	0.45	-4.72	-132.98	346.30
sum	21781123.19	82904.39	-52249.96	10751118.84	32562896.45	sum	81142.36	116351.27	-274885.30	5385776.84	5308385.16
RB	0.99	0.58	0.28	1.01	1.00	RB	0.14	0.12	0.07	0.99	1.00
LT	0.00	0.30	0.04	0.00	0.00	LT	0.57	0.31	0.88	0.00	-0.03
мт	0.00	0.10	0.37	-0.01	0.00	МТ	0.28	0.57	0.05	0.01	0.03
нт	0.00	0.02	0.30	0.00	0.00	HT	0.01	0.00	0.00	0.00	0.00
sum	1.00	1.00	1.00	1.00	1.00	sum	1.00	1.00	1.00	1.00	1.00
EGY	RS	FS	SR	мо	SUM	JOR	RS	FS	SR	мо	SUM
RB	5868390.53	612210.32	-49395.36	-106772.32	6324433.17	RB	349815.91	635104.72	1959.57	-4533.94	982346.26
LT	2412417.27	93441.26	-330731.35	-18198.91	2156928.28	LT	297109.29	1197934.50	-25973.29	8422.32	1477492.82
МТ	432010.51	104425.43	-28857.88	-315222.63	192355.44	МТ	170520.51	240502.40	-14228.19	17300.87	414095.59
HT	578.73	10084.78	-6700.36	12443.28	16406.44	НТ	11692.12	8893.86	-3320.05	190083.45	207349.37
sum	8713397.04	820161.80	-415684.94	-427750.57	8690123.33	sum	829137.82	2082435.47	-41561.96	211272.70	3081284.03
RB	0.67	0.75	0.12	0.25	0.73	RB	0.42	0.30	-0.05	-0.02	0.32
LT	0.28	0.11	0.80	0.04	0.25	LT	0.36	0.58	0.62	0.04	0.48
мт	0.05	0.13	0.07	0.74	0.02	МТ	0.21	0.12	0.34	0.08	0.13
нт	0.00	0.01	0.02	-0.03	0.00	HT	0.01	0.00	0.08	0.90	0.07
sum	1.00	1.00	1.00	1.00	1.00	sum	1.00	1.00	1.00	1.00	1.00
кwт	RS	FS	SR	мо	SUM	LBN	RS	FS	SR	МО	SUM
RB	22588.14	39828.10	-14794.96	8513033.04	8560654.32	RB	271997.49	120427.38	14243.01	63791.94	470459.82
LT	281576.05	7454.63	-14312.00	13400.22	288118.91	LT	67917.97	152331.49	10476.87	74739.34	305465.68
МТ	2323.34	75725.06	-22380.65	76859.87	132527.62	МТ	106802.92	143820.29	-4668.03	5888.08	251843.26
HT	0.00	0.00	-289.90	-7373.39	-7663.29	HT	97496.26	21924.09	8813.76	1655.94	129890.04
sum	306487.53	123007.79	-51777.51	8595919.74	8973637.55	sum	544214.64	438503.25	28865.61	146075.29	1157658.80
RB	0.07	0.32	0.29	0.99	0.95	RB	0.50	0.27	0.49	0.44	0.41
LT	0.92	0.06	0.28	0.00	0.03	LT	0.12	0.35	0.36	0.51	0.26
МТ	0.01	0.62	0.43	0.01	0.01	МТ	0.20	0.33	-0.16	0.04	0.22
нт	0.00	0.00	0.01	0.00	0.00	HT	0.18	0.05	0.31	0.01	0.11
sum	1.00	1.00	1.00	1.00	1.00	sum	1.00	1.00	1.00	1.00	1.00

MRT	RS	FS	SR	мо	SUM	MAR	RS	FS	SR	MO	SUM
RB	0.00	66522.14	-5.22	224841.52	291358.43	RB	1014595.56	706607.31	247635.73	187745.21	2156583.81
LT	0.00	1.02	0.00	-77768.91	-77767.89	LT	190647.62	350674.71	779627.43	20915.59	1341865.34
мт	0.00	0.00	0.00	0.00	0.00	МТ	147734.70	1019373.38	186008.20	9152.61	1362268.89
НТ	0.00	0.00	0.00	0.00	0.00	нт	8882.69	293482.40	-7471.41	16651.55	311545.23
sum	0.00	66523.15	-5.22	147072.60	213590.53	sum	1361860.56	2370137.80	1205799.96	234464.96	5172263.27
RB		1.00	1.00	1.53	1.36	RB	0.75	0.30	0.21	0.80	0.42
LT		0.00	0.00	-0.53	-0.36	LT	0.14	0.15	0.65	0.09	0.26
MT		0.00	0.00	0.00	0.00	МТ	0.11	0.43	0.15	0.04	0.26
нт		0.00	0.00	0.00	0.00	нт	0.01	0.12	-0.01	0.07	0.06
sum		1.00	1.00	1.00	1.00	sum	1.00	1.00	1.00	1.00	1.00
OMN	RS	FS	SR	мо	SUM	QAT	RS	FS	SR	МО	SUM
RB	3535466.16	136326.45	-165887.56	5631293.30	9137198.35	RB	22953740.84	19362.55	-48.19	-42140.77	22930914.43
LT	167839.28	26602.97	-100807.71	-70131.68	23502.86	LT	800176.55	717.32	-131159.30	-33627.67	636106.90
МТ	23302.98	461694.12	-733142.55	-153858.40	-402003.85	МТ	893614.61	487853.28	-852.69	-6341.92	1374273.28
НТ	0.00	0.00	-130029.32	-6123.19	-136152.50	нт	74.70	243.00	48.26	0.00	365.96
sum	3726608.42	624623.54	-1129867.14	5401180.04	8622544.85	sum	24647606.69	508176.16	-132011.93	-82110.36	24941660.56
RB	0.95	0.22	0.15	1.04	1.06	RB	0.93	0.04	0.00	0.51	0.92
LT	0.05	0.04	0.09	-0.01	0.00	LT	0.03	0.00	0.99	0.41	0.03
мт	0.01	0.74	0.65	-0.03	-0.05	МТ	0.04	0.96	0.01	0.08	0.06
нт	0.00	0.00	0.12	0.00	-0.02	НТ	0.00	0.00	0.00	0.00	0.00
sum	1.00	1.00	1.00	1.00	1.00	sum	1.00	1.00	1.00	1.00	1.00
SAU	RS	FS	SR	мо	SUM	SDN	RS	FS	SR	MO	SUM
RB	109161619.14	964624.77	-31030.13	10298263.29	120393477.06	RB	3782177.11	33343.65	-2843.45	-81288.95	3731388.36
LT	1357743.61	813932.73	-8279.00	240336.62	2403733.96	LT	25969.43	0.00	-31705.07	13233.64	7498.01
MT	4541692.86	1410855.93	-23040.00	1242417.44	7171926.23	МТ	344.84	446.98	-13005.22	-76646.00	-88859.40
НТ	134039.69	78072.36	290.20	-127.36	212274.88	нт	0.00	0.00	-8425.72	-1994.64	-10420.36
sum	115195095.30	3267485.78	-62058.93	11780889.99	130181412.13	sum	3808491.38	33790.63	-55979.45	-146695.95	3639606.61
RB	0.95	0.30	0.50	0.87	0.92	RB	0.99	0.99	0.05	0.55	1.03
LT	0.01	0.25	0.13	0.02	0.02	LT	0.01	0.00	0.57	-0.09	0.00
МТ	0.04	0.43	0.37	0.11	0.06	МТ	0.00	0.01	0.23	0.52	-0.02
HT	0.00	0.02	0.00	0.00	0.00	НТ	0.00	0.00	0.15	0.01	0.00
sum	1.00	1.00	1.00	1.00	1.00	sum	1.00	1.00	1.00	1.00	1.00

SYR	RS	FS	SR	мо	SUM	TUN	RS	FS	SR	МО	SUM
RB	431261.96	1055838.74	6355.16	866971.47	2360427.33	RB	1024857.48	432907.79	-1868.78	641936.87	2097833.36
LT	889901.55	1474569.21	-12905.04	0.00	2351565.72	LT	495278.39	1087893.47	133859.60	21137.06	1738168.52
MT	614308.36	590487.74	11.16	-1912.53	1202894.73	МТ	318222.18	1367537.86	-8419.16	-599.73	1676741.15
НТ	59509.97	33624.51	0.00	0.00	93134.48	НТ	8108.90	378611.81	-724.80	-2149.03	383846.88
sum	1994981.84	3154520.20	-6538.72	865058.94	6008022.27	sum	1846466.95	3266950.93	122846.87	660325.17	5896589.92
RB	0.22	0.33	-0.97	1.00	0.39	RB	0.56	0.13	-0.02	0.97	0.36
LT	0.45	0.47	1.97	0.00	0.39	LT	0.27	0.33	1.09	0.03	0.29
МТ	0.31	0.19	0.00	0.00	0.20	МТ	0.17	0.42	-0.07	0.00	0.28
нт	0.03	0.01	0.00	0.00	0.02	нт	0.00	0.12	-0.01	0.00	0.07
sum	1.00	1.00	1.00	1.00	1.00	sum	1.00	1.00	1.00	1.00	1.00
UAE	RS	FS	SR	МО	SUM	YEM	RS	FS	SR	мо	SUM
RB	13240943.42	419207.35	-3058.54	32273806.34	45930898.57	RB	5568977.09	150257.51	-22977.19	-2934799.91	2761457.50
LT	1497822.43	392588.84	-64597.85	35770.47	1861583.89	LT	7840.69	14071.18	-3303.29	-208.04	18400.55
MT	927704.49	714925.32	-377.20	9242.81	1651495.43	МТ	15355.65	4814.60	-1699.07	-7958.45	10512.74
НТ	19409.60	65767.35	-410.73	-1674.08	83092.13	HT	2214.59	187.30	0.00	42.97	2444.86
sum	15685879.95	1592488.85	-68444.31	32317145.54	49527070.02	sum	5594388.02	169330.59	-27979.54	-2942923.42	2792815.65
RB	0.84	0.26	0.04	1.00	0.93	RB	1.00	0.89	0.82	1.00	0.99
LT	0.10	0.25	0.94	0.00	0.04	LT	0.00	0.08	0.12	0.00	0.01
МТ	0.06	0.45	0.01	0.00	0.03	МТ	0.00	0.03	0.06	0.00	0.00
нт	0.00	0.04	0.01	0.00	0.00	НТ	0.00	0.00	0.00	0.00	0.00
sum	1.00	1.00	1.00	1.00	1.00	sum	1.00	1.00	1.00	1.00	1.00
CHL	RS	FS	SR	МО	SUM	IRL	RS	FS	SR	мо	SUM
RB	28754280.01	3706452.24	1876330.32	417704.10	34754766.66	RB	5567847.45	1888664.67	5354177.67	1425970.27	14236660.06
LT	820746.02	132086.85	-30346.07	301698.44	1224185.24	LT	2291788.16	171258.88	-2012136.99	871425.11	1322335.17
МТ	1297046.00	134560.35	-28082.40	149367.43	1552891.38	МТ	1597050.26	1374102.85	-901800.79	2115963.09	4185315.41
НТ	18078.60	23619.17	-46201.54	37596.07	33092.29	НТ	12991308.68	602751.43	-1766603.00	-22740.91	11804716.19
sum	30890150.62	3996718.60	1771700.30	906366.04	37564935.57	sum	22447994.55	4036777.83	673636.89	4390617.57	31549026.83
RB	0.93	0.93	1.06	0.46	0.93	RB	0.25	0.47	7.95	0.32	0.45
LT	0.03	0.03	-0.02	0.33	0.03	LT	0.10	0.04	-2.99	0.20	0.04
МТ	0.04	0.03	-0.02	0.16	0.04	МТ	0.07	0.34	-1.34	0.48	0.13
НТ	0.00	0.01	-0.03	0.04	0.00	нт	0.58	0.15	-2.62	-0.01	0.37
sum	1.00	1.00	1.00	1.00	1.00	sum	1.00	1.00	1.00	1.00	1.00

KOR	RS	FS	SR	мо	SUM	MYS	RS	FS	SR	мо	SUM
RB	7985484.90	1729652.81	137588.23	15733748.47	25586474.40	RB	6850082.19	1074660.25	1297685.84	14906317.05	24128745.33
LT	4476960.07	1557434.79	-4145776.13	5931019.27	7819638.00	LT	4742185.54	2725594.16	811329.09	651954.90	8931063.68
МТ	26044944.28	61560834.27	-2580367.83	8136232.42	93161643.13	МТ	6539867.54	5502844.35	-14855.74	-54964.95	11972891.20
нт	14508218.45	25023033.49	2007607.49	511058.40	42049917.83	НТ	60397.56	17913819.81	992638.30	-57612.44	18909243.23
sum	53015607.70	89870955.36	-4580948.25	30312058.55	168617673.36	sum	18192532.83	27216918.57	3086797.49	15445694.55	63941943.44
RB	0.15	0.02	-0.03	0.52	0.15	RB	0.38	0.04	0.42	0.97	0.38
LT	0.08	0.02	0.91	0.20	0.05	LT	0.26	0.10	0.26	0.04	0.14
МТ	0.49	0.68	0.56	0.27	0.55	МТ	0.36	0.20	0.00	0.00	0.19
нт	0.27	0.28	-0.44	0.02	0.25	НТ	0.00	0.66	0.32	0.00	0.30
sum	1.00	1.00	1.00	1.00	1.00	sum	1.00	1.00	1.00	1.00	1.00
PRT	RS	FS	SR	мо	SUM	ZAF	RS	FS	SR	MO	SUM
RB	3227844.62	1642632.01	154646.89	786105.33	5811228.85	RB	11476363.34	1771436.89	1053309.04	3912641.31	18213750.58
LT	4611480.62	1134497.92	327372.99	74486.68	6147838.20	LT	1282095.41	79581.08	11544.55	-2402954.89	-1029733.86
МТ	2106770.68	2479990.10	523664.91	211724.99	5322150.68	МТ	4923633.18	3774915.83	387462.98	1476542.00	10562553.99
нт	70183.50	1776160.69	-166129.47	130149.17	1810363.88	нт	154308.89	729651.57	26661.90	38936.96	949559.32
sum	10016279.41	7033280.71	839555.31	1202466.17	19091581.61	sum	17836400.82	6355585.37	1478978.48	3025165.37	28696130.03
RB	0.32	0.23	0.18	0.65	0.30	RB	0.64	0.28	0.71	1.29	0.63
LT	0.46	0.16	0.39	0.06	0.32	LT	0.07	0.01	0.01	-0.79	-0.04
МТ	0.21	0.35	0.62	0.18	0.28	МТ	0.28	0.59	0.26	0.49	0.37
нт	0.01	0.25	-0.20	0.11	0.09	нт	0.01	0.11	0.02	0.01	0.03
sum	1.00	1.00	1.00	1.00	1.00	sum	1.00	1.00	1.00	1.00	1.00

Table 14: Exports dynamics 3

DZA	RS	FS	SR	MO	SUM	BHR	RS	FS	SR	MO	SUM
0	0.0006	0.250	-0.098	0.000	0.001	0	0.000	0.108	0.002	0.000	0.002
1	0.000	0.000	0.150	0.000	0.000	1	0.078	0.000	0.000	0.000	0.001
2	0.012	0.232	0.215	0.000	0.008	2	0.000	0.005	0.002	-0.008	-0.008
3	0.970	0.000	0.000	1.006	0.981	3	0.018	0.000	0.000	0.878	0.891
4	0.001	0.000	0.000	0.000	0.000	4	0.000	0.000	0.000	-0.002	-0.002
5	0.007	0.010	0.149	0.001	0.005	5	0.136	0.554	0.000	0.011	0.025
6	0.009	0.127	0.032	-0.004	0.005	6	0.583	0.246	0.200	0.118	0.123
7	0.000	0.119	0.458	-0.003	-0.001	7	0.062	0.000	0.041	0.005	0.003
8	0.000	0.261	0.094	0.000	0.000	8	0.111	0.086	0.755	-0.001	-0.036
9	0.000	0.000	0.000	0.000	0.000	9	0.012	0.000	0.000	0.000	0.000
Total	1	1	1	1	1	Total	1	1	1	1	1
EGY	RS	FS	SR	MO	SUM	JOR	RS	FS	SR	МО	SUM
0	0.007	0.547	0.001	-0.010	0.059	0	0.052	0.116	-0.030	-0.002	0.093
1	0.000	0.000	0.000	0.001	0.000	1	0.025	0.027	0.000	0.000	0.025
2	0.009	0.114	0.112	-0.003	0.014	2	0.053	0.148	0.041	0.018	0.115
3	0.618	0.000	0.000	0.006	0.620	3	0.050	0.000	0.000	0.000	0.013
4	0.001	0.000	0.000	0.048	-0.001	4	0.088	0.000	0.000	-0.007	0.023
5	0.031	0.118	0.000	0.023	0.041	5	0.210	0.119	0.105	0.906	0.196
6	0.129	0.108	0.398	0.161	0.112	6	0.156	0.012	0.127	0.009	0.048
7	0.004	0.034	0.005	0.016	0.006	7	0.126	0.029	0.278	0.073	0.055
8	0.002	0.078	0.483	0.758	-0.051	8	0.229	0.550	0.479	0.003	0.429
9	0.199	0.000	0.000	0.000	0.199	9	0.011	0.000	0.000	0.000	0.003
Total	1	1	1	1	1	Total	1	1	1	1	1
кwт	RS	FS	SR	мо	SUM	LBN	RS	FS	SR	мо	SUM
0	0.005	0.042	0.212	0.000	-0.001	0	0.094	0.092	0.537	-0.001	0.092
1	0.053	0.000	0.000	0.000	0.002	1	0.035	0.050	0.000	0.000	0.035
2	0.000	0.001	0.074	-0.001	-0.001	2	0.180	0.046	-0.169	0.297	0.135
3	0.000	0.000	0.000	0.990	0.948	3	0.002	0.000	0.000	0.000	0.001
4	0.000	0.000	0.000	0.000	0.000	4	0.000	0.000	0.000	0.031	0.004
5	0.001	0.625	0.029	0.010	0.018	5	0.044	0.104	-0.003	0.088	0.071
6	0.018	0.332	0.083	0.002	0.006	6	0.292	0.243	0.218	0.084	0.245
7	0.001	0.000	0.403	0.000	-0.002	7	0.321	0.234	-0.230	-0.007	0.233
8	0.005	0.000	0.199	0.000	-0.001	8	0.016	0.231	0.647	0.015	0.113
9	0.916	0.000	0.000	0.000	0.031	9	0.016	0.000	0.000	0.493	0.070
Total	1	1	1	1	1	Total	1	1	1	1	1

OMN	RS	FS	SR	МО	SUM	QAT	RS	FS	SR	МО	SUM
0	0.005	0.147	0.041	0.002	0.009	0	0.000	0.008	-0.003	0.002	0.000
1	0.000	0.000	0.116	0.000	-0.015	1	0.000	0.000	0.000	0.000	0.000
2	0.011	0.000	0.002	0.001	0.005	2	0.000	0.025	0.003	-0.002	0.001
3	0.901	0.000	0.000	1.035	1.040	3	0.921	0.000	0.000	0.829	0.907
4	0.013	0.000	0.000	0.000	0.006	4	0.000	0.000	0.000	0.002	0.000
5	0.004	0.463	-0.001	-0.003	0.034	5	0.046	0.955	0.000	-0.369	0.066
6	0.065	0.080	0.023	0.001	0.031	6	0.005	0.009	0.000	0.539	0.003
7	0.000	0.283	0.709	-0.026	-0.090	7	0.000	0.003	0.000	0.000	0.000
8	0.000	0.027	0.110	-0.001	-0.013	8	0.000	0.000	0.999	0.000	-0.005
9	0.000	0.000	0.000	-0.010	-0.007	9	0.027	0.000	0.000	0.000	0.027
Total	1	1	1	1	1	Total	1	1	1	1	1
KSA	RS	FS	SR	MO	SUM	SDN	RS	FS	SR	MO	SUM
0	0.002	0.186	0.751	0.000	0.006	0	0.000	0.652	0.477	0.020	0.009
1	0.001	0.000	0.000	0.000	0.001	1	0.000	0.000	0.002	0.000	0.000
2	0.000	0.035	0.074	0.005	0.002	2	0.002	0.344	-0.376	0.035	0.016
3	0.941	0.000	0.000	0.775	0.903	3	0.991	0.000	0.000	0.455	1.002
4	0.000	0.000	0.000	0.000	0.000	4	0.000	0.000	0.000	0.043	-0.002
5	0.037	0.281	0.418	0.191	0.057	5	0.000	0.000	0.000	0.009	0.000
6	0.008	0.219	-0.319	0.029	0.016	6	0.000	0.000	0.531	0.007	-0.009
7	0.004	0.182	0.028	0.000	0.008	7	0.000	0.005	0.339	0.526	-0.026
8	0.002	0.096	0.047	0.000	0.004	8	0.000	0.000	0.028	0.002	-0.001
9	0.004	0.000	0.000	0.000	0.004	9	0.007	0.000	0.000	-0.096	0.011
Total	1	1	1	1	1	Total	1	1	1	1	1
SYR	RS	FS	SR	мо	SUM	TUN	RS	FS	SR	мо	SUM
0	0.054	0.340	-0.058	0.000	0.200	0	0.042	0.064	-0.083	0.000	0.046
1	0.032	0.001	0.000	0.000	0.011	1	0.012	0.004	0.032	0.000	0.007
2	0.014	0.016	-0.914	-0.001	0.014	2	0.009	0.013	-0.065	0.015	0.010
3	0.000	0.000	0.000	1.003	0.141	3	0.133	0.000	0.000	0.855	0.138
4	0.093	0.000	0.000	0.000	0.030	4	0.303	0.000	0.000	0.000	0.095
5	0.182	0.008	0.000	0.000	0.063	5	0.030	0.087	-0.001	0.097	0.068
6	0.121	0.235	0.000	0.000	0.165	6	0.281	0.068	-0.004	0.041	0.130
7	0.148	0.071	-0.002	-0.002	0.086	7	0.112	0.448	-0.002	-0.009	0.282
8	0.014	0.329	1.870	0.000	0.180	8	0.078	0.317	1.125	0.000	0.224
9	0.341	0.000	0.104	0.000	0.110	9	0.001	0.000	-0.001	0.000	0.000
Total	1	1	1	1	1	Total	1	1	1	1	1

UAE	RS	FS	SR	MO	SUM	YEM	RS	FS	SR	MO	SUM
0	0.033	0.137	0.119	0.000	0.015	0	0.001	0.666	-0.074	0.001	0.041
1	0.000	0.003	0.000	0.001	0.001	1	0.000	0.160	0.124	0.000	0.009
2	0.055	0.023	0.002	0.000	0.018	2	0.001	0.053	0.601	0.001	-0.002
3	0.721	0.000	0.001	1.005	0.884	3	0.992	0.000	0.106	0.994	0.939
4	0.006	0.000	0.000	0.000	0.002	4	0.001	0.000	0.000	0.000	0.003
5	0.045	0.040	0.000	0.000	0.015	5	0.003	0.003	0.005	0.003	0.002
6	0.041	0.260	0.014	-0.006	0.017	6	0.000	0.080	0.153	0.000	0.004
7	0.012	0.393	0.002	0.000	0.017	7	0.001	0.026	0.055	0.000	0.002
8	0.002	0.145	0.858	0.000	0.004	8	0.000	0.012	0.030	0.000	0.001
9	0.086	0.000	0.003	0.000	0.027	9	0.001	0.000	0.000	0.000	0.001
Total	1	1	1	1	1	Total	1	1	1	1	1
CHL	RS	FS	SR	MO	SUM	IRL	RS	FS	SR	МО	SUM
0	0.006	0.571	0.615	0.139	0.098	0	0.018	0.294	0.741	0.231	0.104
1	0.000	0.005	0.216	0.003	0.011	1	0.004	0.158	-0.004	0.000	0.026
2	0.381	0.161	0.207	0.203	0.345	2	0.025	0.039	0.016	0.054	0.031
3	0.027	0.000	0.000	0.031	0.023	3	0.004	0.007	0.000	0.074	0.014
4	0.002	0.000	0.000	0.001	0.001	4	0.000	0.000	0.000	-0.001	0.000
5	0.029	0.066	-0.002	0.144	0.034	5	0.820	0.005	6.502	-0.003	0.720
6	0.523	0.158	0.017	0.166	0.451	6	0.009	0.073	-0.428	0.028	0.011
7	0.009	0.022	-0.016	0.055	0.010	7	0.021	0.135	-3.504	0.243	-0.014
8	0.000	0.017	-0.037	0.009	0.001	8	0.099	0.288	-2.323	0.208	0.086
9	0.024	0.000	0.000	0.250	0.026	9	0.000	0.000	0.000	0.166	0.022
Total	1	1	1	1	1	Total	1	1	1	1	1
KOR	RS	FS	SR	MO	SUM	MYS	RS	FS	SR	MO	SUM
0	0.004	0.001	0.124	0.006	0.000	0	0.036	0.019	-0.002	0.018	0.022
1	0.001	0.003	-0.011	0.000	0.002	1	0.000	0.006	-0.001	0.002	0.003
2	0.023	0.002	-0.013	0.000	0.009	2	0.003	0.009	0.021	0.106	0.031
3	0.014	0.000	0.000	0.357	0.068	3	0.197	0.000	0.000	0.585	0.197
4	0.000	0.000	0.000	0.000	0.000	4	0.056	0.000	0.000	0.199	0.064
5	0.139	0.036	-0.056	0.167	0.094	5	0.138	0.022	0.062	0.045	0.063
6	0.188	0.012	0.710	0.275	0.096	6	0.193	0.015	0.419	0.072	0.099
7	0.356	0.915	-0.371	0.225	0.650	7	0.257	0.765	0.360	-0.070	0.399
8	0.273	0.031	0.616	-0.007	0.084	8	0.001	0.165	0.140	0.042	0.087
9	0.001	0.000	0.000	-0.023	-0.004	9	0.119	0.000	0.000	0.000	0.034
Total	1	1	1	1	1	Total	1	1	1	1	1

Table 15: Exports dynamics 4

	DX>0	DX>0	DX>0	DX<0	DX<0	DX<0			DX>0	DX>0	DX>0	DX<0	DX<0	DX<0	0.00
	D>0	d>0	d<0	D<0	d>0	d<0			D>0	d>0	d<0	D<0	d>0	d<0	0.00
DZA	C>0	c<0	c>0	c>0	c<0	c<0	SUM	BHR	C>0	c<0	c>0	c>0	c<0	c<0	SUM
RB	21663467.93	10942958.19	0.00	0.00	-122364.28	-9031.18	32475030.67	RB	24593.17	5391972.56	0.00	0.00	-91086.86	-5.03	5325473.84
LT	125198.45	1696.54	0.00	0.00	-10792.95	0.00	116102.05	LT	82025.39	11339.29	0.00	0.00	-259328.45	0.00	-165963.77
MT	30439.75	768.90	0.00	0.00	-87560.49	0.00	-56351.84	MT	87436.96	72575.62	0.00	0.00	-14437.90	0.00	145574.68
HT	6925.07	0.00	0.00	0.00	-16795.52	-10.35	-9880.80	HT	0.00	0.00	0.00	0.00	-137.70	0.00	-137.70
Aggregate	21826031.20	10945423.63	0.00	0.00	-237513.23	-9041.53	32524900.07	Aggregate	194055.53	5475887.47	0.00	0.00	-364990.91	-5.03	5304947.06
	DX>0	DX>0	DX>0	DX<0	DX<0	DX<0	0.00		DX>0	DX>0	DX>0	DX<0	DX<0	DX<0	0.00
	D>0	d>0	d<0	D<0	d>0	d<0	0.00		D>0	d>0	d<0	D<0	d>0	d<0	0.00
EGY	C>0	c<0	c>0	c>0	c<0	c<0	SUM	JOR	C>0	c<0	c>0	c>0	c<0	c<0	SUM
RB	3554474.27	26114.48	78.74	0.00	-182282.16	0.00	3398385.33	RB	984583.27	9127.97	0.00	0.00	-11702.34	0.00	982008.90
LT	2249722.18	8658.05	0.00	0.00	-357588.31	0.00	1900791.92	LT	1494972.70	11055.54	0.00	0.00	-28606.51	0.00	1477421.73
MT	535896.07	20481.71	0.00	0.00	-364562.21	0.00	191815.57	MT	403444.58	31974.94	0.00	0.00	-28902.26	0.00	406517.26
HT	10066.71	19215.27	143.56	0.00	-13472.35	0.00	15953.19	HT	20519.60	190234.59	66.38	0.00	-3471.19	0.00	207349.37
Aggregate	6350159.23	74469.52	222.30	0.00	-917905.03	0.00	5506946.02	Aggregate	2903520.14	242393.04	66.38	0.00	-72682.30	0.00	3073297.26
0.00	DX>0	DX>0	DX>0	DX<0	DX<0	DX<0	0.00		DX>0	DX>0	DX>0	DX<0	DX<0	DX<0	0.00
0.00	D>0	d>0	d<0	D<0	d>0	d<0	0.00		D>0	d>0	d<0	D<0	d>0	d<0	0.00
KWT	C>0	c<0	c>0	c>0	c<0	c<0	SUM	LBN	C>0	c<0	c>0	c>0	c<0	c<0	SUM
RB	55383.61	8580474.12	0.00	0.00	-82236.04	0.00	8553621.69	RB	391316.20	85625.97	834.67	0.00	-7591.02	0.00	470185.82
LT	8134.90	15178.57	0.00	0.00	-16090.35	0.00	7223.13	LT	211608.46	85375.79	0.00	0.00	-159.57	-0.01	296824.68
MT	78048.40	138454.92	0.00	0.00	-83975.70	0.00	132527.62	MT	250533.22	7563.93	0.00	0.00	-6343.89	0.00	251753.26
HT	0.00	0.00	0.00	0.00	-7663.29	0.00	-7663.29	HT	119267.48	13156.83	152.87	0.00	-2687.13	0.00	129890.04
Aggregate	141566.91	8734107.61	0.00	0.00	-189965.38	0.00	8685709.14	Aggregate	972725.36	191722.52	987.54	0.00	-16781.61	-0.01	1148653.80
	DX>0	DX>0	DX>0	DX<0	DX<0	DX<0	0.00		DX>0	DX>0	DX>0	DX<0	DX<0	DX<0	0.00
	D>0	d>0	d<0	D<0	d>0	d<0	0.00		D>0	d>0	d<0	D<0	d>0	d<0	0.00
MRT	C>0	c<0	c>0	c>0	c<0	c<0	SUM	MAR	C>0	c<0	c>0	c>0	c<0	c<0	SUM
RB	66522.14	224841.52	0.00	0.00	-5.22	0.00	291358.43	RB	1720927.98	694729.78	14.67	0.00	-245728.02	-13620.81	2156323.60
LT	1.02	0.00	0.00	0.00	-77768.91	0.00	-77767.89	LT	540876.40	856317.18	0.00	0.00	-55774.16	0.00	1341419.42
MT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	MT	1164844.40	214169.18	0.00	0.00	-19008.37	0.00	1360005.20
HT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	HT	302162.11	24042.55	202.57	0.00	-14862.41	0.00	311544.82
Aggregate	66523.15	224841.52	0.00	0.00	-77774.14	0.00	213590.53	Aggregate	3728810.89	1789258.68	217.24	0.00	-335372.96	-13620.81	5169293.04
	DX>0	DX>0	DX>0	DX<0	DX<0	DX<0	0.00		DX>0	DX>0	DX>0	DX<0	DX<0	DX<0	0.00
	D>0	d>0	d<0	D<0	d>0	d<0	0.00		D>0	d>0	d<0	D<0	d>0	d<0	0.00
OMN	C>0	c<0	c>0	c>0	c<0	c<0	SUM	QAT	C>0	c<0	c>0	c>0	c<0	c<0	SUM
RB	690908.53	5715155.65	0.00	0.00	-249652.63	-97.28	6156314.27	RB	22731316.30	30851.04	0.00	0.00	-73040.01	0.00	22689127.34
LT	194442.25	5304.40	0.00	0.00	-176243.79	0.00	23502.86	LT	574.81	64.64	0.00	0.00	-164851.61	0.00	-164212.16
MT	473608.69	7175.56	0.00	0.00	-894176.51	0.00	-413392.26	MT	1377673.76	76.28	0.00	0.00	-7270.90	0.00	1370479.15
HT	0.00	443.12	0.00	0.00	-128051.01	-8544.61	-136152.50	HT	14.78	48.26	0.00	0.00	0.00	0.00	63.04
Aggregate	1358959.46	5728078.74	0.00	0.00	-1448123.95	-8641.89	5630272.36	Aggregate	24109579.65	31040.23	0.00	0.00	-245162.52	0.00	23895457.36

	DX>0	DV: 0	DY: 0	DV 10	DY -0	DV -0	0.00		DY: 0	DY: 0	DV: 0	DV 10	DV 10	DY 10	0.00
	DX>0 D>0	DX>0	DX>0 d<0	DX<0 D<0	DX<0 d>0	DX<0 d<0	0.00		DX>0 D>0	DX>0 d>0	DX>0 d<0	DX<0 D<0	DX<0 d>0	DX<0 d<0	0.00
SAU	C>0	d>0 c<0	u<0 c>0	c>0	u>0 c<0	u<0 c<0	SUM	SDN	C>0	0>0 c<0	u<0 c>0	c>0	u>0 c<0	u<0 c<0	SUM
RB	101912758.21	10329886.80	3690.00	0.00	-62615.81	-37.84	112183681.36	RB	3814004.99	31360.04	0.00	0.00	-115492.43	0.00	3729872.60
LT	2171270.68	244185.20	0.00	0.00	-02015.81	-37.84	2403328.30	LT	0.00	14029.70	0.00	0.00	-32501.12	0.00	-18471.43
MT	5951559.01	1245686.70	0.00	0.00	-26309.26	0.00	7170936.45	MT	791.82	0.00	0.00	0.00	-89651.22	0.00	-18471.43
HT	210306.96	1018.82	1624.60	0.00	-20309.20	0.00	212094.40	HT	0.00	0.00	0.00	0.00	-10412.78	-7.57	-10420.36
	110245894.86	11820777.53	5314.60	0.00	-101895.29	-51.19	121970040.51	Aggregate	3814796.81	45389.73	0.00	0.00	-248057.55	-7.57	3612121.42
Aggregate	DX>0	DX>0	DX>0	DX<0	DX<0	DX<0	0.00	Aggregate	DX>0	43389.73 DX>0	DX>0	DX<0	DX<0	DX<0	0.00
	D>0	d>0	d<0	DX<0 D<0	d>0	d<0	0.00		DX>0	d>0	d<0	DX<0 D<0	d>0	d<0	0.00
SYR	C>0	 c<0	c>0	c>0	u>0 c<0	u<0 c<0	SUM	TUN	C>0	u>0 c<0	u<0 c>0	c>0	c<0	u<0 c<0	SUM
RB	1234682.85	881039.60	0.00	0.00	-7712.97	0.00	2108009.47	RB	1455719.71	700213.35	876.69	0.00	-60145.27	0.00	2096664.49
LT	1234082.85	0.00	0.00	0.00	-12228.26	-676.78	1801127.15	LT	1580702.65	198993.63	0.00	0.00	-43908.30	-88.66	1735699.32
MT	892874.97	11.16	0.00	0.00	-12228.20	0.00	890973.60	MT	1685026.69	3689.90	0.00	0.00	-43908.30	-88.00	1676007.80
HT	56171.47	0.00	0.00	0.00	0.00	0.00	56171.47	HT	386720.09	1361.56	0.00	0.00	-4046.30	-189.09	383846.26
	3997761.48	881050.75	0.00	0.00	-21853.75	-676.78	4856281.69		5108169.14	904258.45	876.69	0.00	-4046.30	-189.09	5892217.87
Aggregate	DX>0	DX>0	DX>0	DX<0	-21853.75 DX<0	-676.78 DX<0	0.00	Aggregate	DX>0	904258.45 DX>0	DX>0	DX<0	-120808.66 DX<0	-277.75 DX<0	0.00
	DX>0 D>0	d>0	d<0	DX<0 D<0	d>0	d<0	0.00		DX>0	d>0	d<0	DX<0 D<0	d>0	d<0	0.00
LIAE	D>0 C>0		-				SUM	VENA	C>0						SUM
UAE RB	C>U 13655225.86	c<0 32500869.25	c>0	c>0 0.00	c<0 -230121.45	c<0 0.00	SUM 45925973.67	YEM RB	C>0 5674370.82	c<0 8808.01	c>0 0.00	c>0 0.00	c<0 -2966529.13	c<0 -55.97	2716593.72
LT	13055225.80	45233.23	0.00	0.00	-73850.54	-210.07	1861312.94	LT	6408.16	0.27	0.00	0.00	-2966529.13	0.00	2716593.72
MT	1536227.47	54536.11	0.00	0.00	-45670.49	-210.07	1545093.08	MT	13879.28	0.27	0.00	0.00	-9657.51	0.00	4221.77
HT	81888.66	372.18	74.19	0.00	-45670.49 -2456.99	0.00	79878.03	HT	90.64	48.76	0.00	0.00	-9657.51	0.00	4221.77 133.61
	17163482.30	32601010.77	74.19	0.00	-352099.47	-210.07	49412257.72		5694748.90	8857.04	0.00	0.00	-2979704.03	-55.97	2723845.94
Aggregate								Aggregate							
	DX>0	DX>0	DX>0	DX<0	DX<0	DX<0	0.00		DX>0	DX>0	DX>0 d<0	DX<0	DX<0 d>0	DX<0 d<0	0.00
CI !!	D>0	d>0	0>b	D<0	d>0	d<0	0.00	101	D>0	d>0		D<0			0.00
CHL RB	C>0 32460646.05	c<0 2356287.58	c>0 32.51	c>0 0.00	c<0 -62251.85	c<0 -1.31	SUM 34754712.98	IRL RB	C>0 7422402.42	c<0 7223420.80	c>0 17747.02	c>0 0.00	c<0 -443144.15	c<0 -128.71	SUM 14220297.38
LT	952626.77	341440.96	206.10	0.00	-02251.85	-1.31	1224185.24	LT	2463052.56	1137802.22	0.00	-5.52	-2278514.09	0.00	1322335.17
MT	1431606.35	196099.24	0.00	0.00	-70088.59	0.00	1552891.38	MT	2971153.11	2331130.68	0.00	-5.52	-1116968.38	0.00	4185315.41
HT	40797.42	45725.63	873.15	0.00	-74814.22 -54331.10	0.00	33065.10	HT	13593925.95	3485298.10	134.15	0.00	-5274642.01	0.00	4185315.41 11804716.19
	34885676.59	2939553.41	1111.76	0.00	-261485.75	-1.31	37564854.70		26450534.05	14177651.79	17881.17	-5.52	-9113268.62	-128.71	31532664.15
Aggregate	DX>0	DX>0	DX>0					Aggregate	DX>0		DX>0	-5.52 DX<0	-9113268.62 DX<0	-128.71 DX<0	
	-		DX>0 d<0	DX<0	DX<0 d>0	DX<0	0.00		-	DX>0	DX>0 d<0	-	DX<0 d>0	-	0.00
KOD	D>0	d>0		D<0		d<0		NAV/C	D>0	d>0		D<0		d<0	
KOR RB	C>0 9714819.69	c<0 16701273.32	c>0 269.67	c>0 0.00	c<0 -810636.17	c<0 -19300.45	SUM 25586426.05	MYS RB	C>0 7923524.73	c<0 16445240.89	c>0 1095.53	c>0 0.00	c<0 -240363.82	c<0 -874.17	SUM 24128623.15
LT	5983664.54	8204092.78	850.77	0.00	-6418849.64	-19300.45	7769758.45	LT	7923524.73	1672092.27	0.00	0.00	-240363.82	-874.17	8930936.61
MT	87605778.55	9311969.14	0.00	0.00	-6418849.64 -3756104.55	0.00	93161643.13	MT	12042711.90	1867301.50	0.00	0.00	-208808.29	0.00	11972891.20
	0/003//8.33		0.00	0.00										0.00	119/2091.20
HT	39495187.02	4356573.58	36064.92	0.00	-1837907.69	0.00	42049917.83	HT	17974217.37	3391489.94	0.00	0.00	-2277127.39	179336.70	18909243.23
Aggregate	142799449.80	38573908.81	37185.36	0.00	-12823498.06	-19300.45	168567745.45	Aggregate	45408106.62	23376124.60	1095.53	0.00	-4663421.69	- 180210.87	63941694.18
	DX>0	DX>0	DX>0	DX<0	DX<0	DX<0	0.00		DX>0	DX>0	DX>0	DX<0	DX<0	DX<0	0.00
	D>0	d>0	d<0	D<0	d>0	d<0	0.00		D>0	d>0	d<0	D<0	d>0	d<0	0.00
PRT	C>0	c<0	c>0	c>0	c<0	c<0	SUM	ZAF	C>0	c<0	c>0	c>0	c<0	c<0	SUM
RB	4864110.05	1526224.35	6284.93	0.00	-585428.07	-44.06	5811147.19	RB	13242596.79	5194359.00	5203.44	0.00	-228349.59	-59.06	18213750.58
LT	5745922.01	654438.10	56.52	0.00	-252578.43	0.00	6147838.20	LT	1361676.49	1150252.28	0.00	0.00	-3541242.25	-420.37	-1029733.86
MT	4586760.78	1303826.32	0.00	0.00	-568436.42	0.00	5322150.68	MT	8698549.01	1935291.25	0.00	0.00	-71286.27	0.00	10562553.99
HT	1846344.18	283767.65	0.00	0.00	-306010.16	-13737.80	1810363.88	HT	879319.35	83423.27	4641.11	0.00	-17824.41	0.00	949559.32
Aggregate	17043137.03	3768256.42	6341.45	0.00	-1712453.08	-13781.86	19091499.95	Aggregate	24182141.64	8363325.79	9844.55	0.00	-3858702.52	-479.43	28696130.03

Table 16: Exports Similarity Index

	AF	RE	BH	IR	D	ZA	EC		JC		KV	NT	LE		M	AR	м	RT	ON	лN	Q	AT
	2000	2006	2000	2006	2000	2006	2000	2006	2000	2006	2000	2006	2000	2006	2000	2006	2000	2006	2000	2006	2000	2006
Total	85.21	78.07	67.68	63.04	65.79	73.39	34.60	41.93	11.59	10.10	76.95	75.64	11.48	10.66	14.28	10.97	0.62	6.88	69.11	71.12	58.60	65.86
RB	83.41	75.07	63.40	60.44	65.08	72.94	27.56	28.55	4.01	4.41	75.25	72.83	3.79	3.38	6.91	5.00	0.42	0.21	65.18	68.72	55.29	61.90
LT	1.11	1.36	2.49	1.16	0.18	0.23	4.69	10.36	4.45	3.26	0.32	1.25	4.56	4.07	4.47	3.32	0.20	6.66	1.97	0.82	1.84	2.33
MT	0.65	1.57	1.78	1.43	0.42	0.19	2.01	2.78	2.54	2.13	1.34	1.54	2.76	2.87	2.29	2.19	0.00	0.00	1.66	1.49	1.44	1.62
НТ	0.04	0.07	0.01	0.00	0.10	0.03	0.25	0.20	0.49	0.20	0.03	0.01	0.35	0.32	0.60	0.43	0.00	0.00	0.20	0.01	0.00	0.00
0.00	0.20	0.54	0.30	0.30	0.10	0.10	1.24	1.07	1.11	1.04	0.19	0.12	1.07	1.06	1.57	1.21	0.24	0.18	0.83	0.66	0.04	0.02
1.00	0.07	0.08	0.02	0.06	0.03	0.02	0.14	0.05	0.16	0.09	0.01	0.06	0.08	0.10	0.07	0.07	0.00	0.00	0.15	0.04	0.00	0.00
2.00	0.21	0.41	0.35	0.19	0.18	0.27	0.64	0.69	0.67	0.68	0.16	0.12	0.39	0.50	0.73	0.74	0.18	0.03	0.24	0.29	0.06	0.04
3.00	81.78	73.09	61.24	59.12	64.15	71.99	23.53	25.30	0.02	1.03	74.54	72.23	0.02	0.06	3.46	1.96	0.00	0.00	63.30	66.90	54.56	61.25
4.00	0.05	0.10	0.15	0.00	0.02	0.03	0.07	0.11	0.17	0.26	0.02	0.00	0.18	0.26	0.02	0.26	0.00	0.00	0.18	0.27	0.00	0.00
5.00	0.18	0.99	1.57	1.38	0.73	0.60	1.81	2.64	2.18	1.65	1.45	1.73	1.72	1.97	1.60	1.37	0.00	0.00	0.36	0.93	1.98	2.18
6.00	1.52	1.45	1.66	1.06	0.24	0.26	2.68	2.14	2.32	1.99	0.33	0.31	2.48	2.18	1.55	1.54	0.00	0.00	0.99	1.04	0.27	0.31
7.00	0.45	0.51	0.50	0.28	0.28	0.05	0.76	0.64	1.45	1.06	0.14	0.02	1.67	1.45	1.49	1.43	0.00	0.00	1.44	0.61	0.01	0.02
8.00	0.75	0.49	1.89	0.64	0.06	0.06	3.54	1.51	3.51	2.07	0.11	0.05	3.80	2.22	3.75	2.22	0.00	0.00	1.38	0.36	1.67	0.04
9.00	0.00	0.41	0.00	0.01	0.00	0.01	0.20	7.79	0.02	0.23	0.00	1.00	0.06	0.87	0.04	0.17	0.20	6.66	0.25	0.01	0.00	2.00
	SA	U U	SD	N	S۱	/R	τι	Л	YE	м	ZA	٩F	CI	ΗL	IR	۲L	к	OR	PC	т	м	YS
	2000	2006	2000	2006	2000	2006	2000	2006	2000	2006	2000	2006	2000	2006	2000	2006	2000	2006	2000	2006	2000	2006
Total	78.07	77.01	21.50	12.83	72.85	55.20	23.26	22.46	2.25	64.10	14.16	11.94	9.57	10.06	6.93	9.57	15.00	13.88	14.89	22.09	17.92	23.41
RB	74.55	72.54	20.11	11.82	70.20	43.27	15.57	16.11	1.77	63.62	7.75	6.38	4.68	4.32	2.35	2.58	7.58	8.10	6.33	7.96	11.74	15.64
LT	0.90	1.35	0.42	0.90	2.08	10.18	4.57	3.36	0.14	0.24	2.71	2.48	1.70	3.58	1.86	4.81	3.82	2.30	4.96	10.77	2.85	4.15
MT	2.57	3.01	0.67	0.02	0.40	1.50	2.54	2.56	0.31	0.22	3.20	2.63	2.82	1.88	2.01	1.65	3.03	3.08	2.95	2.85	2.68	3.19
НТ	0.04	0.10	0.20	0.00	0.07	0.15	0.57	0.42	0.02	0.03	0.45	0.43	0.30	0.25	0.61	0.43	0.57	0.40	0.60	0.43	0.56	0.37
0.00	0.40	0.50	0.73	0.48	0.93	1.13	1.32	1.04	1.41	1.08	1.41	1.12	1.74	1.21	0.96	1.15	0.84	0.49	1.57	1.47	0.99	0.91
1.00	0.04	0.05	0.01	0.00	0.01	0.07	0.16	0.10	0.01	0.05	0.17	0.09	0.10	0.04	0.16	0.09	0.08	0.05	0.17	0.10	0.16	0.09
2.00	0.12	0.15	0.59	0.39	0.63	0.54	0.73	0.72	0.14	0.19	0.71	0.50	0.76	0.44	0.26	0.35	0.19	0.29	0.45	0.57	0.21	0.20
3.00	72.72	70.81	18.70	11.04	68.41	40.75	12.05	12.90	0.13	62.15	2.59	2.69	1.11	1.90	0.30	0.54	5.10	5.84	2.10	4.09	9.25	13.06
4.00	0.03	0.02	0.17	0.00	0.14	0.25	0.15	0.26	0.00	0.11	0.12	0.05	0.04	0.02	0.01	0.01	0.01	0.01	0.17	0.27	0.15	0.14
5.00	3.05	3.09	0.07	0.01	0.29	0.57	1.74	1.63	0.31	0.18	2.96	2.49	2.24	1.65	0.92	0.80	2.06	2.29	1.78	2.02	1.64	2.33
6.00	1.13	1.24	0.36	0.00	0.89	1.81	1.68	1.93	0.15	0.12	2.85	2.32	1.39	1.09	1.35	1.01	2.09	2.07	2.74	2.33	1.74	1.95
7.00	0.45	0.62	0.73	0.01	0.12	0.90	1.76	1.59	0.02	0.07	1.79	1.34	1.28	0.79	1.90	1.33	1.95	1.61	1.93	1.61	1.81	1.60
8.00	0.12	0.28	0.07	0.00	1.23	2.16	3.67	2.27	0.06	0.10	1.29	0.75	0.65	0.46	0.88	0.70	2.61	0.98	3.80	2.24	1.71	1.31
9.00	0.01	0.23	0.06	0.90	0.20	7.03	0.00	0.02	0.00	0.06	0.26	0.60	0.26	2.47	0.20	3.58	0.06	0.25	0.18	7.40	0.26	1.83

	Α	RE	BI	HR	C	HL	D	ZA	E	GY	I	RL	J	OR	М	AR	M	RT	Μ	IYS	0	MN
	2000	2006	2000	2006	2000	2006	2000	2006	2000	2006	2000	2006	2000	2006	2000	2006	2000	2006	2000	2006	2000	2006
Total	8.60	19.29	11.62	7.74	22.33	17.28	7.12	8.43	27.94	32.91	29.21	27.17	34.58	24.24	19.59	20.56	1.40	7.11	35.68	40.83	21.48	10.82
	K	OR	к١	NТ	LE	BN	Q	AT	S,	AU	S	DN	S	YR	т	JN	YI	M	Z	AF	Р	RT
	2000	2006	2000	2006	2000	2006	2000	2006	2000	2006	2000	2006	2000	2006	2000	2006	2000	2006	2000	2006	2000	2006
Total	51.05	47.47	7.59	2.82	36.92	37.42	9.13	10.86	9.26	12.90	13.60	6.51	13.99	30.43	29.22	34.13	3.19	9.44	45.55	45.03	52.13	57.73

Table 17: Trade Complementarity Index

Previous Publications

No	Author	Title
API/WPS 9701	جميل طاهر	النفط والتنمية المستديمة في الأقطار العربية : الفرص والتحديات
API/WPS 9702	Riad Dahel	Project Financing and Risk Analysis
API/WPS 9801	Imed Limam	A SOCIO-ECONOMIC TAXONOMY OF ARAB COUNTRIES
API/WPS 9802	محمد عدنان وديع بلقاسم العباس	منظومات المعلومات لأسواق العمل لخليجية
API/WPS 9803	Adil Abdalla	The Impact of Euro-Mediterranean Partnerships on Trade Interests of the OIC Countries
API/WPS 9804	رياض دهال حسن الحاج	حول طرق الخصخصة
API/WPS 9805	Ujjayant Chakravorty Fereidun Fesharaki Shuoying Zhou	DOMESTIC DEMAMD FOR PETROLEUM PRODUCTS IN OPEC
API/WPS 9806	Imed Limam Adil Abdalla	Inter-Arab Trade and the Potential Success of AFTA
API/WPS 9901	Karima Aly Korayem	Priorities of Social Policy Measures and the Interset of Low-Income People; the Egyptian Case
API/WPS 9902	Sami Bibi	A Welfare Analysis of the Price System Reforms' Effects on Poverty in Tunisia
API/WPS 9903	Samy Ben Naceur Mohamed Goaied	The Value Creation Process in The Tunisia Stock Exchange
API/WPS 9904	نجاة النيش	تكاليف التدهور البيئي وشحة الموارد الطبيعية: بين النظرية وقابلية التطبيق في الدول العربية
API/WPS 9905	Riad Dahel	Volatility in Arab Stock Markets
API/WPS 9906	Yousef Al-Ebraheem Bassim Shebeb	IMPORTED INTERMEDIATE INPUTS: IMPACT ON ECONOMIC GROWTH
API/WPS 9907	Magda Kandil	Determinants and Implications of Asymmetric Fluctuations: Empirical Evidence and Policy Implications Across MENA Countries
API/WPS 9908	M. Nagy Eltony	Oil Price Fluctuations and their Impact on the Macroeconomic Variables of Kuwait: A Case Study Using a VAR Model
API/WPS 9909	علي عبد القادر	إعادة رؤوس الأموال العربية إلى الوطن العربي بين الأماني والواقع
API/WPS 0001	محمد عدنان وديع	التنمية البشرية ، تنمية الموارد البشرية والإحلال في الدول الخليجية
API/WPS 0002	محمد ناجي التوني	برامج الأفست : بعض التجارب العربية
API/WPS 0003	Riad Dahel	On the Predictability of Currency Crises: The Use of Indicators in the Case of Arab Countries
API/WPS 0004	نسرين بركات عـــادل العلــــي	مفهوم التنافسية والتجارب الناجحة في النفاذ إلى الأسواق الدولية

No	Author	Title
API/WPS 0101	Imed Limam	Measuring Technical Efficiency Of Kuwaiti Banks
API/WPS 0102	Ali Abdel Gadir Ali	Internal Sustainability And Economic Growth In The Arab States
API/WPS 0103	Belkacem Laabas	Poverty Dynamics In Algeria
API/WPS 0104	محمد عدنان وديع	التعليم وسوق العمل : ضرورات الاصلاح ـحالة الكويت
API/WPS 0105	محمد ناجي التوني	دور وأفاق القطاع السياحي في اقتصادات الأقطار العربية
API/WPS 0106	نجاة النيش	الطاقة والبيئة والتنمية المستديمة : آفاق ومستجدات
API/WPS 0107	Riad Dahel	Telecommunications Privatization in Arab Countries: An Overview
API/WPS 0108	علي عبد القادر	أسس العلاقة بين التعليم وسوق العمل وقياس عوائد الاستثمار البشري
API/WPS 0201	أحمد الكواز	مناهج تقدير المداخيل المختلطة في الأقطار العربية
API/WPS 0202	سليمان شعبان القدسي	الكفاءة التوزيعية لشبكات التكافل الاجتماعي في الاقتصاد العربي
API/WPS 0203	Belkacem Laabas and Imed Limam	Are GCC Countries Ready for Currency Union?
API/WPS 0204	محمد ناجي التوني	سياسات العمل والتنمية البشرية في الأقطار العربية : تحليل للتجربة الكويتية
API/WPS 0205	Mustafa Babiker	Taxation and Labor Supply Decisions: The Implications of Human Capital Accumulation
API/WPS 0206	Ibrahim A. Elbadawi	Reviving Growth in the Arab World
API/WPS 0207	M. Nagy Eltony	The Determinants of Tax Effort in Arab Countries
API/WPS 0208	أحمد الكواز	السياسات الاقتصادية ورأس المال البشري
API/WPS 0209	Mustafa Babiker	The Impact of Environmental Regulations on Exports: A Case Study of Kuwait Chemical and Petrochemical Industry
API/WPS 0301	Samir Makdisi, Zeki Fattah and Imed Limam	Determinants Of Growth In The Mena Countries
API/WPS 0302	طارق نوير	دور الحكومة الداعم للتنافسية "حالة مصر"
API/WPS 0303	M. Nagy Eltony	Quantitative Measures of Financial Sector Reform in the Arab Countries
API/WPS 0304	Ali Abdel Gadir Ali	Can the Sudan Reduce Poverty by Half by the Year 2015?
API/WPS 0305	Ali Abdel Gadir Ali	Conflict Resolution and Wealth Sharing in Sudan: Towards an Allocation Formula
API/WPS 0306	Mustafa Babiker	Environment and Development in Arab Countries: Economic Impacts of Climate Change Policies in the GCC Region
API/WPS 0307	Ali Abdel Gadir Ali	Globalization and Inequality in the Arab Region
API/WPS 0308	علي عبد القادر علي	تقييم سياسات وإستراتيجيات الإقلال من الفقر في عينة من الدول العربية

No	Author	Title
API/WPS 0401	Belkacem Laabas and Imed Limam	Impact of Public Policies on Poverty, Income Distribution and Growth
API/WPS 0402	Ali Abdel Gadir Ali	Poverty in the Arab Region: A Selective Review
API/WPS 0403	Mustafa Babiker	Impacts of Public Policy on Poverty in Arab Countries: Review of the CGE Literature
API/WPS 0404	Ali Abdel Gadir Ali	On Financing Post-Conflict Development in Sudan
API/WPS 0501	Ali Abdel Gadir Ali	On the Challenges of Economic Development in Post-Conflict Sudan
API/WPS 0601	Ali Abdel Gadir Ali	Growth, Poverty and Institutions: Is there a Missing Link?
API/WPS 0602	Ali Abdel Gadir Ali	On Human Capital in Post-Conflict Sudan: Some Exploratory Results
API/WPS 0603	Ahmad Telfah	Optimal Asset Allocation in Stochastic Environment: Evidence on the Horizon and Hedging Effects
API/WPS 0604	Ahmad Telfah	Do Financial Planners Take Financial Crashes In Their Advice: Dynamic Asset Allocation under Thick Tails and Fast volatility Updating
API/WPS 0701	Ali Abdel Gadir Ali	Child Poverty: Concept and Measurement
API/WPS 0702	حاتم مهر ان	التضخم في دول مجلس التعاون الخليجي ودور صناديق النفط في الاستقرار الاقتصادي
API/WPS 0801	Weshah Razzak	In the Middle of the Heat The GCC Countries Between Rising Oil Prices and the Sliding Greenback
API/WPS 0802	Rabie Nasser	Could New Growth Cross-Country Empirics Explain the Single Country Growth of Syria During 1965-2004?
API/WPS 0803	Sufian Eltayeb Mohamed	Finance-Growth Nexus in Sudan: Empirical Assessment Based on an Application of the Autoregressive Distributed Lag (ARDL) Model
API/WPS 0804	Weshah Razzak	Self Selection versus Learning-by-Exporting Four Arab Economies
API/WPS 0805	ر شا مصطفى	اتفاقية أغادير : نحو بيئة أعمال أفضل
API/WPS 0806	Mohamed Osman Suliman & Mahmoud Sami Nabi	Unemployment and Labor Market Institutions: Theory and Evidence from the GCC
API/WPS 0901	Weshah Razzak & Rabie Nasser	A Nonparametric Approach to Evaluating Inflation-Targeting Regimes
API/WPS 0902	Ali Abdel Gadir Ali	A Note on Economic Insecurity in the Arab Countries
API/WPS 0903	وشاح رزاق	الأزمة المالية الحالية
API/WPS 0904	Ali Abdel Gadir Ali	The Political Economy of Inequality in the Arab Region and Relevant Development Policies
API/WPS 0905	Belkacem Laabas Walid Abdmoulah	Determinants of Arab Intraregional Foreign Direct Investments

No	Author	Title
API/WPS 0906	Ibrahim Onour	North Africa Stock Markets: Analysis of Unit Root and Long Memory Process
API/WPS 0907	Walid Abdmoulah	Testing the Evolving Efficiency of 11 Arab Stock Markets
API/WPS 0908	Ibrahim Onour	Financial Integration of North Africa Stock Markets
API/WPS 0909	Weshah Razzak	An Empirical Glimpse on MSEs Four MENA Countries
API/WPS 0910	Weshah Razzak	On the GCC Currency Union
API/WPS 0911	Ibrahim Onour	Extreme Risk and Fat-tails Distribution Model: Empirical Analysis
API/WPS 0912	Elmostafa Bentour Weshah Razzak	Real Interest Rates, Bubbles and Monetary Policy in the GCC countries
API/WPS 1001	Ibrahim Onour	Is the high crude oil prices cause the soaring global food prices?
API/WPS 1002	Ibrahim Onour	Exploring Stability of Systematic Risk: Sectoral Portfolio Analysis
API/WPS 1003	علي عبدالقادر علي	ملاحظات حول تحديات الأمن الاقتصادي في الدول العربية
API/WPS 1004	أحمد الكواز	بعض مفاهيم التدريب مع إشارة للمعالجة النظرية الاقتصادية
API/WPS 1005	بلقاسم العباس وشاح رزّاق	Taxes, Natural Resource Endowment, and the Supply of Labor: New Evidence.
API/WPS 1006	رياض بن جليلي عادل عبدالعظيم	Tourism in Arab South Mediterranean Countries: The Competitiveness Challenge
API/WPS 1007	Riadh Ben Jelili	Conventional and Corrected Measures of Gender-related Development Index (GDI):What Happens to the Arab Countries Ranking?
API/WPS 1008	أحمد الكواز	هيكل وتحديات التجارة الخارجية في دولة الإمارات العربية المتحدة
API/WPS 1009	Ibrahim Onour	The Global Financial Crisis and Equity Markets in Middle East Oil Exporting Countries