China and India in World Trade: Are the Asia Giants a Threat to Malaysia?

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Abstract

With higher shares in world merchandise trade and improvements in product quality, China is better positioned than India in the near term for influencing global trade. From the Malaysian perspective, China represents a non-negligible share in Malaysia's trade. The trends in bilateral trade with both Giants however suggest that competition has intensified. Relative to India, China appears to promulgate a more influential role on Malaysia via higher commodity overlap in external markets, greater matched trade that is of vertical differentiation, distinct quality shifts and negative adjustment pressures. Within this broad rubric of trade-induced changes, there is no evidence of skill upgrading for Malaysia in trade expansion with both Giants. This mirrors the lack of product. the lack of product quality improvements and the low levels of export values of high quality varieties in matched trade. Hence trade induced changes from the Giants that have been grossly overstated. the Giants that have been cited to be favourable from the Malaysian perspective in previous studies, may have been grossly overstated.

Keywords: product quality changes, high quality varieties, skill upgrading

JEL: F14, F16, J23, L60

1. Introduction

The emergence of China and India in the global economy cannot be ignored, given their rapid integration into world markets. The share of both economies in global gross domestic product (GDP) more than doubled to 7 per cent and China now ranks sixth whilst India tenth in GDP terms. In trade, China is currently the third largest trading (Ng, 2006) economy in the world, surpassing Japan, while India ranks twenty-fifth. The manufacturing exports of both countries increased by approximately 15 per cent over the last decade (Lederman of the last decade exports). (Lederman et al., 2007), with China and India accounting for approximately 8 per cent and 1 per cent of world merchandise exports (Spectively, 177), with China and India accounting for approximately 8 per cent and 1 per cent of world merchandise exports (Spectively, 177). respectively (The Star, October 16, 2007). Obviously, China's impact on global trade flows is already evident whilst India's merchanding to the Star, October 16, 2007). Obviously, China's impact on global trade flows is already evident whilst India's merchandise trade still lags behind that of the former (UNCTAD, 2005; Srinivasan, 2006).

Nevertheless, both economies are said to have a much larger impact on the composition of world trade than Japan and the Republic of Korea during their economic nascent. A recent survey of 340 mainly Fortune 500 global manufacturing companies indicates that manufacturing will become the main activity of interest to be offshored to India (The Star, October 16, 2007). Manufacturing outsourcing to I. It is activities of information technology and business process outsourcing outsourcing to India is poised to surpass the country's flagship in activities of information technology and business process outsourcing. It is deemed the country is flagship in activities of information technology and business process outsourcing. It is deemed that 'Made in India' or rather 'Made by India' label will be the next success story. The growing influence of China and India on world a contract of the contract India on world trade basically relates to their consumers integrating into an emerging global middle-class (Winters and Shahid, 2007; Shahid et al. 2007) Shahid et al., 2007), which then results in quality improvements in manufactured products (see also Hummels and Klenow, 2004) and raises demand c raises demand for skilled workers (Bussolo et al., 2007).

The belief therefore is that the 'China effect' and the more recent 'India effect' may have profound consequences on product petitiveness (P.). Winters and Shahid (2007) arms competitiveness (Branstetter and Lardy, 2006) and on income distribution globally (Rowthorn, 2006). Winters and Shahid (2007) argue that both Giove that both Giants are most likely to pose biggest challenges to middle-income Asian countries. In view of this, the paper examines the challenges for New York and Challeng challenges for Malaysia, focusing on trade in manufactures.

The objectives of the study are thus twofold: First, to document key features of the study are thus twofold: First, to document key features of the study are thus twofold: First, to document key features of the study are thus twofold: First, to document key features of the study are thus twofold: First, to document key features of the study are thus twofold: First, to document key features of the study are thus twofold: First, to document key features of the study are thus twofold: First, to document key features of the study are thus twofold: First, to document key features of the study are thus twofold: First, to document key features of the study are thus twofold: First, to document key features of the study are thus twofold: First, to document key features of the study are thus twofold: First, to document key features of the study are thus twofold: First, to document key features of the study are thus twofold: First, to document key features of the study are thus twofold: First, to document key features of the study are thus twofold: First, to document key features of the study are thus twofold: First, to document key features of the study are thus twofold: First, to document key features of the study are thus twofold: First, the study are thus twofold: First, the study are the study are the study are thus twofold: First, the study are the study are thus twofold: First, the study are the study are features of trade between Malaysia and the Asia Giants; and second, to estimate the labour effects of bilateral trade with China and India on Malaysia. The key concerns for Malaysia are: the extent to which both Giants move up market into their 'product space' – in terms of product (composition effect) and quality (technique effect) (see Winters and Shahid, 2007); and the extent to which the both Giants can affect lead to the composition of the composi can affect local skill upgrading.

2. THEORY, METHODOLOGY AND DATA

2.1 Theoretical Exposition: Trade-Induced Changes

There is renewed interest in trade between countries in products that belong to the same sector, known as two-way matched trade or industry to include the same sector, known as two-way matched trade or industry to include the same sector, known as two-way matched trade or industry to include the same sector, known as two-way matched trade or industry to include the same sector, known as two-way matched trade or industry to include the same sector, known as two-way matched trade or industry to include the same sector, known as two-way matched trade or industry to include the same sector, known as two-way matched trade or industry to include the same sector, known as two-way matched trade or industry to include the same sector. Incre is renewed interest in trade between countries in products that belong to the same state of a specific product that are of similar quality, here.

There is renewed interest in trade between countries in products that belong to the same state of a specific product that are of similar quality, here. quality, horizontal intra-industry trade (HIIT). The distinction between HIIT and vertical intra-industry trade (VIIT, quality³ based varieties) has Varieties) has now become critical given that the latter has grown in importance. VIIT is basically driven by differences in skill content since high and the latter has grown in importance. VIIT is basically driven by differences in skill content since high and the latter has grown in importance. VIIT is basically driven by differences in skill content to latter has grown in importance. VIIT is basically driven by differences in skill content since high and the latter has grown in importance. VIIT is basically driven by differences in skill content to latter has grown in importance. VIIT is basically driven by differences in skill content to latter has grown in importance. VIIT is basically driven by differences in skill content to latter has grown in importance. VIIT is basically driven by differences in skill content to latter has grown in importance. VIIT is basically driven by differences in skill content to latter has grown in importance. since high quality goods require higher content of skilled labour relative to low quality goods (Widell, 2005). In fact, quality improvement, in goods require higher content of skilled labour relative to low quality goods (widell, 2005). In fact, quality improvement, in the performance of rapidly growing exporters, such as China and improvements in exports have been identified as a key influence on the performance of rapidly growing exporters, such as China and India (Humpro).

India (Hummels and Klenow, 2005). Trade expansion, alongside product differentiation in matched trade, is critical as it presents different implications for factor model, sets. The present issues in the labour market is the specific factors model, markets. The most accessible framework for a discussion of adjustment issues in the labour market is the specific factors model, expounded a most accessible framework for a discussion of adjustment issues in the labour market is the specific factors model, expounded a most accessible framework for a discussion of adjustment issues in the labour market is the specific factors model, expounded a most accessible framework for a discussion of adjustment issues in the labour market is the specific factors model, expounded a most accessible framework for a discussion of adjustment issues in the labour market is the specific factors model, expounded a most accessible framework for a discussion of adjustment issues in the labour market is the specific factors model, expounded a most accessible framework for a discussion of adjustment issues in the labour market is the specific factors model. expounded concisely by Neary (1985). It is hypothesized that industries with high levels of IIT undergo less structural change in response to trade than it is the latter implies a reallocation within industries while the latter implies a reallocation to trade than industries with low levels of IIT. The former involves a reallocation within industries while the latter implies a reallocation between industries with low levels of IIT. The former involves a reallocation within industries while the latter implies a reallocation between industries with low levels of IIT. The former involves are lower when new trade is of the IIT type because disruption is between industries with low levels of IIT. The former involves a reallocation within industries with low levels of IIT. The former involves a reallocation within industries with low levels of IIT. The former involves a reallocation within industries with low levels of IIT. The former involves a reallocation within industries with low levels of IIT. The former involves a reallocation within industries with low levels of IIT. The former involves a reallocation within industries with low levels of IIT. The former involves a reallocation within industries with low levels of IIT. The former involves a reallocation within industries with low levels of IIT. The former involves a reallocation within industries with low levels of IIT. The former involves a reallocation within industries with low levels of IIT. The former involves a reallocation within industries with low levels of IIT. The former involves a reallocation within industries with low levels of IIT. The former involves are lower when new trade is of the IIT type because disruption is industries. It is often argued that the adjustment costs are lower when new trade is of the IIT type because disruption is minimized when adjustment is internal to an industry. It is easier to transfer and adapt resources within firms or industries than to switch them from one internal to an industry. It is easier to transfer and adapt resources within firms or industries than to switch them from one internal to an industry. It is easier to transfer and adapt resources within firms or industries than to switch them from one industries that the adjustment is internal to an industry. It is easier to transfer and adapt resources within firms or industries than to switch them from one industries that the adjustment is internal to an industry. It is easier to transfer and adapt resources within firms or industries than to switch them from one industries that the adjustment is internal to an industry. It is easier to transfer and adapt resources within firms or industries than to switch them from one industries that the adjustment is internal to an industry. It is easier to transfer and adapt resources within firms or industries than to switch them from one industries that the adjustment is internal to an industry. It is easier to transfer and adapt resources within firms or industries than to switch them from one industries that the adjustment is internal to an industries that the adjustment is industries that t

them from one industry to another. This proposition has become known in the literature as the "smooth adjustment hypothesis (SAH)."

Prulhart (1990) Brulhart (1999) is the first to establish the SAH hypothesis that is firmly rooted in the neo-classical thinking. The SAH simply implies that if ofference occur within a sector, adjustment that if offsetting contemporaneous import and export shocks (expanding and contracting activities) occur within a sector, adjustment costs will be contemporaneous import and export shocks (expanding and contracting activities) occur within a sector, adjustment costs will be contemporaneous import and export shocks (expanding and contracting activities) occur within a sector, adjustment costs will be context of the specific factors model, the SAH costs will be lower or smoother than if those shocks affect separate industries. In the context of the specific factors model, the SAH implicitly site or smoother than if those shocks affect separate industries. According to Brulhart (1999), the implicitly either assumes that the mobility of labour is greater within than between industries. According to Brulhart (1999), the

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Hamin (2007) asserts that the 'Made by India' label will be more appropriate given that it will be made by indigenous Indian companies (see also rinivasan, 2006)

Sinivasan, 2006), unlike the case of China. product quality was first emphasized in international trade by Linder (1961) (cited from Hallak, 2006; Bernard et al., 2007).

International Conference on Applied Economics - ICOAL plausibility of labour mobility being higher within than between industries is more conceivable if skills requirements (factor miss expanding firms within new within than between industries is more conceivable if skills requirements (factor miss expanding firms within the conceivable if skills requirements). similar within industries with IIT. Therefore trade shocks will result in an easier transferability of labour from contracting the per made by Greensweet and the state of the labour can be redeal. expanding firms within an industry since the labour can be redeployed with minimal training to the latter. Several qualifications there is the labour can be redeployed with minimal training to the latter. Several qualifications the latter is in parts and compared to the latter. been made by Greenaway and Hine (1991) to justify smoother adjustment of IIT. First since much of the IIT is in parts and components are produced and components are produced and components are produced and components. (rather than in final goods), traded components are produced presumably in the same industry and rely upon similar skills to smoother adjustment. Second, the issue of retraining is not the action to the latter than the latter than the latter than the same industry and rely upon similar skills to mobility. With the latter than the control of the relative than the latter than the relative than the latter than the latter than the latter than the relative than the latter than the relative than the smoother adjustment. Second, the issue of retraining is not the sole issue to ensure transferability since there is also geographic. III than inter-industry that the latter, they argue that expanding and contraction. mobility. With the latter, they argue that expanding and contracting activities are more likely to be based in a given area in a given area in a given area.

The nature of LIT feet.

The nature of IIT further complicates the conceptualizing of adjustment costs since varieties of vertically differentiated properties.

All labour might be conceptually in the relative properties of vertically differentiated properties. Within the conceptual properties of vertically differentiated properties of vertically differentiated properties. have inherently different factor intensities which link to the relative factor endowments of the trading countries.

may alter in the process of the trading countries.

(1991) posit that factor in the process of the trading countries. the SAH, labour might be relatively less mobile within VIIT than HIIT industries. Greenaway and Hine (1991) posit that factor and the process of specialization, particularly for VIIT than HIIT industries. Greenaway and Hine (1991) posit that factor and the control of the trading countries. may alter in the process of specialization, particularly for VIIT. This results in complete retraining before transferability expanding sector may not be with Following this logic, VIIT implies more severe adjustments since the transferability of labour from the contracting sector and the expansion of product difference are severed as since the transferability of labour from the contracting sector and the contracting se expanding sector may not be with comparative ease.

Given the expansion of product differentiation and quality improvements in international trade, recent contributions link [1].

The reasons for the links between the links be the demand for labour, particularly high skilled [Manasse and Turrini (1999), Duranton (1999), Grossman (1999) and Beallied produced and that the opportunities for The reasons for the links between IIT and skills are as follows: Assuming skilled labour determines the quality products, the guality products, the guality products, the guality products and that the opportunities for greater trade rests with industries the guality products, the guality products, the guality products, the guality products are given by the guality products. produced and that the opportunities for greater trade rests with industries that are basically producing high quality produced, high skilled labour will have to increase. The second, to employ of the producing high quality goods, the produced high skilled labour will have to increase. The second, to employ the producing high quality goods, the producing for high skilled labour would increase much faster. Second, to employ advanced technology to produce high quality goods, the operation in production of each variety. Third, the very fact that specially advanced technology to produce high quality goods to produce high quality goods, the operation in production of each variety. high skilled labour will have to increase much faster. Second, to employ advanced technology to produce high quality goods, operation in production of each variety, which links to skill intensity. Let the smaller variety of products leads to higher pressures (Greenaway et al., 1994, 1994). operation in production of each variety, which links to skill intensity. In this context, trade can be perceived as a cause for markets fail to clear instantaneously in the product of the product in the product of products leads to high quality for the pressures (Greenaway et al., 1994a, 1994b; Brulhart, 1999). Adjustment pressures (Greenaway et al., 1994a, 1994b; Brulhart, 1999). Adjustments occur because of the following - temporary changes in factors of production markets fail to clear instantaneously in response to changes in demand; changes in trade flows between different time period changes in factors of production.

Another dimension of understanding and the standard changes in demand; changes in trade flows between different time period changes in tr

Another dimension of understanding trade and labour markets is the trade inducing technological change, as suggester than directly creating technology. Assumed to rely on imported to the trade inducing technological change, as suggester than directly creating technology. Acemoglu (1999). The developing country is assumed to rely on imported technology mainly through foreign direct investment trade may increase the demand for skilled kell. rather than directly creating technology. Accompliance to rely on imported technology mainly through foreign direct investigated may increase the demand for skilled labour. An additional channel production technology is skill-biased (Robbins abroad, an idea mooted by Feenstra and II. trade may increase the demand for skilled labour. An additional channel of trade-labour links is the outsourcing of production labour at home within each industry which abroad, an idea mooted by Feenstra and Hanson (1995). Moving low skilled activities abroad reduce the relative demand for technological change if the success of authority technological change is a success of authority technological change in the success of authority technological change is a success of authority technological change in the success of authority technological change is a success of authority technological change in the success of authority technological change is a success of authority technological change in the success of authority technological change labour at home within each industry, which produces the same effect as skill-biased technological change. Outsourcing depends on pays in the success of outsourcing depends on the success of outsourcing depend technological change if the success of outsourcing depends on new inventory methods and rapid and sophisticated industries. Therefore employment may yield a success may record in the success of outsourcing depends on new inventory methods and rapid and sophisticated industries. techniques. Productivity gains associated with the new techniques may result in labour reallocation within industries rather than the success of outsourcing depends on new inventory methods and rapid and sophisticated comparison.

In summary, trade may induce comparison and not fall, after some time by the summary trade may induce comparison.

In summary, trade may induce competitive and act. In summary, trade may induce competitive and not fall, after some time lags in import competing in product differentiation and object of trade-induced changes," represent the indirect effects in product markets, resulting in product differentiation in turn, which the competing in turn factors alluded to as "trade-induced changes," represent the indirect effects in product markets, resulting in product differentiation in turn, which for induced changes and adjustment pressures as (Kang, 2007), is able to proper the control of t technological progress in a country's product (Kang, 2007), is able to proxy the degree and quality of labour in a given economic magnitudes depending on conditions in the labour market many the degree and quality of labour in skills, with the labour market many the degree and quality of labour in skills, with the labour market many the degree and quality of labour in skills, with the labour market many the degree and quality of labour in skills, with the labour market many the degree and quality of labour in skills, with the labour market many the degree and quality of labour in skills, with the labour market many the degree and quality of labour in skills, with the labour market many the degree and quality of labour in skills, with the labour market many the degree and quality of labour in skills, with the labour market many the labour induced changes and adjustment pressures of trade on the labour market may therefore translate into changes in skills, with the same product of the skills, with the same product of the s

2.2 Measuring Product Quality Changes

The data are sourced from the UN COMTRADE database that records imports and exports in quantities and values. Metabased on highly disaggregated data, compiled an export of the US consumer of the US consu imports and exports recorded in millions USD are deflated by the US consumer price index (CPI) at 1990 constant prices. Revision problems. The total purples of the US consumer price index (CPI) at 1990 constant prices. be based on highly disaggregated data, compiled at the 5-digit SITC (Standard International Trade Classification), products considered in March 1990 constant prices. Revision matched trade are tracked over the Position products considered in 2 2020. minimize composition problems. The total number of products considered is 2,090 manufactured products (Sectors 5-8). The method adversarial products (Sectors 5-8). The method adversarial products (Sectors 5-8) are deflated by the US consumer price index (CPI) at 1990 constant price (Revision of the product of the priod of the US consumer price index (CPI) at 1990 constant price (Revision of the priod of the priod of the priod of the US consumer price index (CPI) at 1990 constant price (Revision of the priod changes in matched trade are tracked over the periods 1995–2000 and 2000–2005. The bilateral trade relationships are considered is that which has been reached the Sinder of the stage and the stage one, the Sinder of the stage and the stage of the stage one, the Sinder of the stage of the st

five trade flows as follows: China-ROW, India-ROW, Malaysia-ROW, Malaysia-ROW, Malaysia-China and Malaysia-India.

The method adopted is that which has been recently proposed by Arabasia (2007). It involves the control of the contr The method adopted is that which has been recently proposed by Azhar and Elliott, 2003) is used to measure products that mount is used to measure dynamic type. stage one, the S index⁴ (Azhar and Elliott, 2003) is used to measure products that may have experienced large in adjustment, also labeled as an index of the S index is given as: adjustment, is used to measure products that may have experienced large increases or decreases in matched trade over the subset of the subset S = 1/2L $(\Delta X - \Delta M) = (\Delta X - \Delta M)/2[max { <math>|\Delta X|_t, |\Delta M|_t }]$

L = largest change in exports (X) and imports (M) over the period studied

For the study, to infer the adjustments posed by matched trade, products with little IIT change and those that represent the At the extremes, X and M move in every values are taken to be a first that the extremes of 0 means of 0 means and those that represent the first trade are taken to be a first trade and those that represent the first trade are taken to be a first trade and those that represent the first trade are taken to be a first trade and those that represent the first trade are taken to be a first tra industry trade are removed. Therefore the S index values are taken to be -0.4 < S < 0.4. A S index of 0 means X and M move in exact opposite directions either here S = 0.4. A S index of 0 means X and M move in exact opposite directions either here S = 0.4. A S index of 0 means X and M move in exact opposite directions either here S = 0.4. A S index of 0 means X and M move in exact opposite directions either here S = 0.4. A S index of 0 means X and M move in exact opposite directions either here S = 0.4. A S index of 0 means X and M move in exact opposite directions either here S = 0.4. A S index of 0 means X and M move in exact opposite directions either here S = 0.4. A S index of 0 means X and M move in exact opposite directions either here S = 0.4. A S index of 0 means X and M move in exact opposite directions either here S = 0.4. A S index of 0 means X and M move in exact opposite directions either here S = 0.4. A S index of 0 means X and M move in exact opposite directions either here S = 0.4. A S index of 0 means X and M move in exact opposite directions either here S = 0.4. A S index of 0 means X and M move in exact opposite directions either here S = 0.4. A S index of 0 means X and M move in exact opposite directions either here S = 0.4. A S index of 0 means X and M move in exact opposite directions either here S = 0.4. A S index of 0 means X and M move in exact opposite directions either here S = 0.4. A S index of 0 means X and M move in exact opposite directions either here S = 0.4. A S index of 0 means X and M move in exact opposite directions either here S = 0.4. A S index of 0 means X and M move in exact opposite directions either here S = 0.4. A S index of 0 means X and M move in exact opposite directions either here S = 0.4. A S index of 0 means X and M move in exact opposite directions either here S = 0.4. A S index of 0 means X and M move in exact opposite directions either here S = 0.4. A S index of 0 means X and M move in exact opposite directions either here S = 0.4. A S index of 0 means X an matched. At the extremes, X and M move in exact opposite directions either beneficial for the home country or vice versa.

In Stage 2, each product identified in Stage 1 is explicit.

In Stage 2, each product identified in Stage 1 is split into vertical and horizontal components using the product quality for the PQV index is the calculation of crude unit of the PQV index is a measure of the product quality of the product quality in index (Azhar and Elliott, 2006a; Azhar et al., 2006b). The PQV index is a measure of the dispersion of product quality in life is given as: basis for the PQV index is the calculation of crude unit values (UV)⁶ by dividing the monetary value of trade by the quantity is given as:

The S index satisfies four criteria (see Azhar and Elliott, 2003): monotonicity (increasing function of the net change in trade); consistency contracting industries) and matched trade changes do not involve the PQV index exhibits property trade changes do not involve the property of the polynomial of the net change in trade); consistency contraction with an industry contraction of the net change in trade). costs associated with an industry expansion equals that with an industry contracting industries) and matched trade changes do not involve resource reallocation costs.

The PQV index exhibits proportionate scaling which is country.

The GHM (Greenaway, Hine and Miles contracting industries) and matched trade changes do not involve resource reallocation costs.

The PQV index exhibits proportionate scaling which is country invariant and the contraction costs.

The PQV index exhibits proportionate scaling which is country invariant and thus less prone to distortions in product quality measurement and thus less prone to distortions in product quality measurement and thus less prone to distortions in product quality measurement and thus less prone to distortions in product quality measurement and thus less prone to distortions in product quality measurement and thus less prone to distortions in product quality measurement and thus less prone to distortions in product quality measurement and thus less prone to distortions in product quality measurement and thus less prone to distortions in product quality measurement and thus less prone to distortions in product quality measurement and thus less prone to distortions in product quality measurement and thus less prone to distortions in product quality measurement and thus less prone to distortions in product quality measurement and thus less prone to distortions in product quality measurement and thus less prone to distortions in product quality measurement and thus less prone to distortions in product quality measurement and thus less prone to distortions in product quality measurement and thus less prone to distortions in product quality measurement and thus less prone to distortions in product quality measurement and thus less prone to distortions in product quality measurement and thus less prone to distortions in product quality measurement and thus less prone to distortions in product quality measurement and thus less prone to distortions in product quality measurement and thus less prone to distortions in product quality measurement and thus less prone to distortions in product quality measurement and thus less prone to distortions in product quality measurement and thus less prone to distortions in product quality measurement and thus less prone to distortions in product quality measurement and thus less prove the product quality measurement and thus less prove the product quality measurement and thus less prove th the GHM (Greenaway, Hine and Milner, 1994) and FF (Fontagne and Freudenberg, 1997) approaches (see Azhar and Elliott, Widell, 2006; Silver, 2007; Fabrizio et al. (Or rather UVs) may read to the GHM (Silver, 2007; Fabrizio et al. (Or rather UVs) may read to the GHM (Greenaway, Hine and Milner, 1994) and FF (Fontagne and Freudenberg, 1997) approaches (see Azhar and Elliott, Widell, Widell, Or rather UVs) may read to the prices (see Azhar and Elliott, Widell, Or rather UVs) may read to the prices (see Azhar and Composite the Composition of the Hellow prices (see Azhar and Composition of the Hellow pric the GHM (Greenaway, Hine and Milner, 1994) and FF (Fontagne and Freudenberg, 1997) approaches (see Azhar and Elliott, 2006; Azhar Az Hallak, 2006; Silver, 2007; Fabrizio et al., 2007). Nevertheless, Hummels and Klenow (2008) the content of approximately 0.09 per cent in export in export and Klenow (2008). The considered an indicator (albeit imperfect) of quality, that is higher quality goods command higher prices (see Azhar and Elliott, Widell, public account for increases of approximately 0.09 per cent in export and Klenow (2008) the content of the Giants, rising quality in the content of the Giants of the Giants of the Giants of the Content of the Giants of the Content (Hallak, 2006; Silver, 2007; Fabrizio et al., 2007). Nevertheless, Hummels and Klenow (2005) show that for the Giants, rising quality in export prices for each 1 per cent in export prices for each lines account for increases of approximately 0.09 per cent in export prices for each 1 per cent increase in income levels.

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\frac{2V}{N} = 1 + [(UVX - UVM)/(UVX + UVM)] where 0 < PQV < 2
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JVX = unit value of export

WM = unit value of import From the PQV index, the extent of quality differences at the product level associated with the various bilateral trade relationships quantified. The products are cent⁷ of their costs (reflected teppics). The products are considered as HIIT or of similar quality if the X and M share at least 85 per cent⁷ of their costs (reflected 185 Pov. Thus, 085 < PQV < 1.15, HIIT

TV < 1.15, HIIT

Ty 50 per cent of their corts of a quality (VIIT = 0), the PQV index is equal to unity. When imports and exports of a product share and two-way trade is equal in quality (VIIT = 0), the PQV index is equal to unity. When imports and exports of a product share any standard of their corts of The per cent of their costs, they are classified as VIIT. Products that are VIIT are further decomposed into those that are high quality that are low or the products that are VIIT are further decomposed into those that are high quality that are low or the products that are VIIT are further decomposed into those that are high quality that are low or the products that are VIIT are further decomposed into those that are high quality that are low or the products that are VIIT are further decomposed into those that are high quality that are low or the products that are VIIT are further decomposed into those that are high quality that are low or the products that are low or the products that are viii and those that are high quality that are low or the products that are low or the products that are viii and those that are low or the products that are viii and those that are low or the products that are viii and those that are low or the products that are viii and those that are low or the products that are viii and those that are low or the products that are viii and those that are low or the products that are low or the products that are viii and those that are low or the products that are lo work cent of their costs, they are classified as well and those that are low quality (VIITL) as follows: POV < 0.85, VIITL

Estimating Trade Effects on Skills The empirical analysis is based on a specially constructed database, established by integrating trade, labour and industry statistics.

dataset involves consistent. Effects on Skills

dalaset involves consistent yearly and industry coverage of a panel of 19 major industrial groups (at the 3-digit aggregation level)

and the period 1983 to 2004. asset involves consistent yearly and industry coverage of a panel of 19 major industrial groups (at the 3-digit aggregation level) the period 1983 to 2004, to facilitate empirical enquiry.

Thus the unit of observation in the data is industry. The dataset, a least of 418 observation of 418 observation. Thus the unit of observation in the least of accilitate empirical enquiry. Trade data for the papel of the

That the unit of observations only the non-tradeasters.

That panel of 418 observations, is informative in that it includes all manufacturing industries, excluding only the non-tradeasters.

Thus the unit of observations of the A trade data for the panel analysis is informative in that it includes all manufacturing industries, on the panel analysis is compiled for industries at the 3-digit Standard International Trade Classification (STA Trade Salinics Publications, Publications, Exports (M) and exports (X) for the period 1983 to 2004 are derived from the Malaysia: Exports and imports are in Exports and imports are in Exports downward and export price index 3). The data on imports (M) and exports (X) for the period 1983 to 2004 are derived from the Malaysia: External Visiting publications. Exports do not include re-exports. Exports are valued f.o.b. while imports c.i.f. (Exports and imports index price index price index price in the malaysia at current price and export price index (EXPOS). Publications. Exports (M) and exports (X) for the period 1983 to 2004 are derived 2004 are

Malaysia at current prices. Manuace Labour de entire economy respectively. labour data current prices. Manufacturing imports and exports is deflated with the day labour data (employment and wages) is drawn from industrial surveys conducted annually by the Department of Statistics (DOS) available to study only consider the study on the study of the study on th daysia, The study only considers full-time paid employees (measured in terms of numbers employed, and not the total man-hours due to data unavailabilities).

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Stategories of managerial, professional, technical and supervisory workers. intensity is measured as for all output (Q), real value-added are deflated by the GDP deflator at 1980 constant prices.

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Output and value-added are deflated by the GDP deflator at 1980 constant prices and then divided by real measured as for all output (Q). strength in total capital investment (FDI/CI). Output and value-added are deflated by the GDP deflator at 1980 constant prices and then divided by real measured as fixed assets deflated by the consumer price index at 1980 constant prices and then divided by real strength in the strength in total capital investment (FDI/CI). Output and value-added are deflated by the consumer price index at 1980 constant prices and then divided by real measured as fixed assets deflated by the consumer price index at 1980 constant prices and then divided by real measured as fixed assets deflated by the consumer price index at 1980 constant prices.

The study will take the labour perspective in analyzing the skill upgrading implications of trade flows with the global Asia giants.

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The translog function is considered appealing in that it is second on the substitutability of imports. demand are estimated using skill share equations derived from a standard translog cost function is considered appealing in that it leads a second order approximate al. (1996) and Anderton et al. (2001). The translog function is considered appealing in that it with the conditions are studied by Machin et al. (1996) and Anderton et al. (2001). The translog function is considered appealing in that it with the condition of the substitutability of imports. and are estimated using skill share equations derived from a standard translog cost function is considered appealing in that the standard standard translog function is considered appealing in that the standard translog Variables by Machin et al. (1996) and Anderton et al. (2001). The descriptions on the variable coast function in translog form that assumes capital to be a fixed factor of production is as follows: $\frac{1}{2} \sum_{k=1}^{\infty} \frac{1}{2} \sum_{k=1}^{\infty} \frac{1}{2$

which will be a fixed factor of production is as follows: $q_0 + q_0 \ln Q_{ij} + \frac{1}{2} \sum_{i} \sum_{k} \gamma_{ik} \ln W_{ij} + \frac{1}{2} \sum_{j} \sum_{k} \gamma_{ik} \ln W_{ij} \ln W_{ij} + \frac{1}{2} \sum_{j} \sum_{k} \gamma_{ik} \ln W_{ij} \ln W_{ij} + \frac{1}{2} \sum_{j} \sum_{k} \gamma_{ik} \ln W_{ij} \ln W_{ij} + \frac{1}{2} \sum_{j} \sum_{k} \gamma_{ik} \ln W_{ij} \ln W_{ij} + \frac{1}{2} \sum_{j} \sum_{k} \gamma_{ik} \ln W_{ij} \ln W_{ij} + \frac{1}{2} \sum_{j} \sum_{k} \gamma_{ik} \ln W_{ij} \ln W_{ij} + \frac{1}{2} \sum_{j} \sum_{k} \gamma_{ik} \ln W_{ij} + \frac{1}{2} \sum_{j} \sum_{k} \gamma_{ik} \ln W_{ij} + \frac{1}{2} \sum_{j} \sum_{k} \gamma_{ik} \ln W_{ij} + \frac{1}{2} \sum_{k} \sum_{i} \sum_{k} \gamma_{ik} \ln W_{ij} + \frac{1}{2} \sum_{i} \sum_{i} \gamma_{ik} \ln W_{ij} + \frac{1}{2} \sum_{i} \sum_{k} \gamma_{ik} \ln W_{ij} + \frac{1}{$ Variable costs in industry i

output in industry i

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The change of variable factor j and The state of the above generates the state of the state of the above generates the state of the $\begin{array}{l} \left\{ \int_{0}^{t_{i}} \int_{0}^{t_{i}} |nQ_{i}|^{t} dt \text{ he above generates the following inner specific specif$ The state of the

The cut-off point however does involve a certain degree of arbitrariness.

Since Part. conducted at the time of study is 2004. batch in the employee at the time of study is 2004. Point however does involve a certain degree of arbitrariness.

The part time of study is 2004.

Figure 1. The part time of study is 2004.

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The amount of salary and allowances are quite structured in Malaysia. The amount of salary and labour union according to the profit of the firm and performance of individual work. book and bargaining power. It has been argued that capual intensive industries for a variety of reasons.

$$\begin{aligned} dL_{ij} &= \phi_{TWj} dT_i + \delta_{Qj} dln Q_i + \delta_{Kj} dln K_i + \gamma dln (W_j/W_k) \\ \text{with two variable factors } j \text{ and } k. \end{aligned}$$

(4)

Machin et al. (1996) and Anderton et al. (2001) define the two variable factors of production as skilled (S) and unskilled (I) skill share equation is thus defined in the above as the proportion of skilled employment to total employment.

Since there is no technology data available and given that technologies are mostly foreign sourced and embodied in imported enforeign direct investment is used as an indirect measure of technology. Theoretically, skill upgrading occurs when foreign investment causes technological spillovers that are skill-biased and when capital-skill complementarities exist. The other demands considered for the study are the effects of foreign competition, captured by trade flows.

The skill share equation is differenced to transform out the industry specific fixed effects. The static equations estimated in the analyses are as follows:

$$d(S/N)_{it} = \Omega - \Sigma \phi_0 d\ln(SW/USW)_{it} + \Sigma \phi_1 d\ln(VA)_{it} + \Sigma \phi_{2j} dK_{it} + \Sigma \mu_1 d(FDI/CI)_{it} + \Sigma \mu_1 d\ln(MROW)_{it} - \Sigma \mu_2 d\ln(XROW)_{it} + \varepsilon_{it}$$
(5)

$$d(S/N)_{it} = \Omega - \Sigma \phi_0 d\ln(SW/USW)_{it} + \Sigma \phi_1 d\ln(VA)_{it} + \Sigma \phi_{2j} dK_{it} + \Sigma \mu_1 d(FDI/CI)_{it} + \Sigma \mu_1 d\ln(MCHINA)_{it} - \Sigma \mu_2 d\ln(MINDIA)_{it} - \Sigma \mu_3 d\ln(XCHINA)_{it} - \Sigma \mu_4 d\ln(XINDIA)_{it} + \varepsilon_{it}$$
(6)

where

i = industry

t = time

 $\Omega = constant$

(S/N) = ratio of skilled employment to total employment

(SW/USW) = ratio of skilled wages to unskilled wages

VA = real value-added

K = real capital intensity

(FDI/CI) = share of foreign direct investment in total capital investment

MROW = real imports from the ROW

MCHINA = real imports from China

MINDIA = real imports from India

XROW = real exports to the ROW

XCHINA = real exports to China

XINDIA = real exports to India

ε represents the error term that picks up random measurement errors in skill share and the effects of labour demand shocks on the employment, which are not picked up by the included independent variables.

3. Trade PERFOMANCE and Product Evolution

3.1 Global and Bilateral Links

The expansion of trade in China grew as trade became more market determined in the 1980s with the dismantling and substandanded direct controls. Subsequently, duty exemption on imports in China was broadened beyond special economic at the 1990s. Other policy instruments, such as tariffs, quotas and licensing requirements, had also declined significantly by the time entered the World Trade Organization (WTO). The pace of reforms in India however accelerated only in the 1990s, as the reforms 1980s were basically 'pro-business' instead of 'pro-market' (Panagariya, 2004). India also joined the integration process with exemptions and free trade areas for exports in 2001. Amidst these reforms 12, merchandise trade has grown in both countries and shares of manufactures in China and India now constitute 93 per cent (Shahid et al., 2007) and 75 per cent (Parikh, 2006) of total expectively. In Malaysia, merchandise exports command 95 per cent of total exports.

Table 1 clearly shows that both China and India have become increasingly integrated with the global economy, with the taking the lead. Even with major reforms in both the Asia giants, China's export shares are much higher than India's level. Stand (2006) adds that a faster integration of China with the world is reflected in prices of Chinese goods moving closer to world be However, it is noted that exports from both the Asia giants (including Malaysia) are growing faster than world exports. Further emphasis of both China and India are cited to be different; exports of the former comprising mainly finished goods (see also Wines Shahid, 2007; Dimaranan et al., 2007) that are labour intensive (some studies indicate a shift towards low and medium tech products exports of the latter mainly intermediate goods that are capital and skill intensive (Kochhar, et al., 2006).

Table 1: Merchandise Trade, 1990-2005 (in per cent)

		Share in Wo	orld Exports		Average Growth Rate
Country	1990	1995	2000	2005	1990-2005
China*	1.9	3.0	3.9	6.8	17.47
India	0.5	0.6	0.7	0.7	9.94
Malaysia	0.9	1.5	1.5	1.0	10.98
		Share in Wo	orld Imports		Average Growth Rate
China*	1.7	2.6	3.4	8.0	14.49
India	0.5	0.7	0.9	1.0	10.84
Malaysia	0.9	1.5	1.3	0.9	7.89

Note: *Growth rate for China is for the period 1992-2005 since data for 1990-1991 are not available.

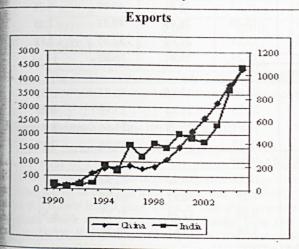
Source: 1. Calculated from the UN COMTRADE.

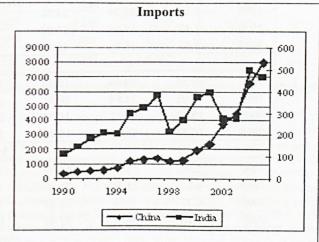
2. Calculated from the IFS (International Financial Statistics).

For a comprehensive examination of the reforms and foreign direct investment (FDI) liberalization in China, see Branstetter and Lardy Similarly, policy changes in India are dealt with extensively by Panagariya (2004) and Kochhar et al. (2006).

In trade relations with Malaysia, China again takes the lead (Figure 1). Exports from Malaysia to China are four times the level of fat to India whilst imports from China are seventeen times that of India. Nevertheless, Malaysia-India trade ties have grown rapidly over feeperiod of review. Malaysia's exports to India grew at an average of 40 per cent for the period 1990 and 2005, whilst export growth to China recorded an average of 33 per cent.

Figure 1: Malaysia: Bilateral Trade with China and India, 1990-2005 (in USD million)





Note: Trade with China is on the left axis and trade with India is on the right axis.

Source: Calculated from the UN COMTRADE.

The growing trade dependence between Malaysia and China is due to trade in intermediate goods (Abeysinghe and Lu, 2003; Ng, 2006; Bussolo et al., 2007; Winters and Shahid, 2007), whilst India remains less integrated in production networks (UNCTAD, 2005). The is also more relevant to Malaysia as it is an important export destination and import source for merchandise goods, representing 6 reent and 13 per cent market shares respectively. Conversely the market shares of trade with India remains below 1 per cent.

12 Trade Composition, Adjustment Pressures and Product Quality Changes

The following section addresses two key issues for Malaysia: Are there mounting adjustment pressures from trade? Is competition quality intensifying? Prior to this investigation, the changes in product composition are examined to identify similarities and efferences in trade flows. Table 2 captures the product shares in to total manufactures of five trade flows.

Table 2: Composition of Trade, 1990-2005 (in per cent)

	SITC 5	SITC 6	SITC 7	SITC 8	SITC 5	SITC 6	SITC 7	SITC		
		Exp	orts							
Year				CHINA	-ROW					
1992	6.44	23.89	19.55	50.12	16.75	28.88	46.09	8.28		
1995	7.16	25.39	24.74	42.71	16.20	26.93	49.28	7.59		
2000	5.42		38.52	17.10	23.67	52.05	7.18			
2005	5.03	18.15	49.52	27.30	15.24	15.91	56.93	11.9		
				INDIA	-ROW					
1990	10.54	50.44	10.55	5 28.46 24.06 36.85	24.06	36.85	32.77	6.32		
1995	11.05	51.88	10.21		35.88	6.4				
2000	13.52	49.31	10.24	26.94	19.91		8.7			
2005	05 16.22 45.07	45.07	15.18	23.53	18.53		45.53	7.27		
				MALAYS	SIA-ROW					
1990	2.96	14.38	64.59	18.07	10.59	19.70	62.63	7.0		
1995	4.02		72.80	11.51	8.29	16.21	69.81	. 5.6		
2000	4.71		72.77	6.59						
2005	7.18	9.75	72.03	11.05	9.66	13.62	70.29	6.4		
				MALAYS	IA-CHINA					
1990		53.93 25.6	25.60	5.78	17.69 52.23 19.64	19.64	10.44			
1995		5 7.17 60.49		7.17 60.49 29.	7.17 60.49 29.50	29.50	2.84	10.32	44.16	34.54
2000	13.70			7.97	16.60	64.69	10.74			
2005	16.07		66.92	6.63	4.83	11.32	76.51	7.3		
k dhe a				MALAYS	IA-INDIA					
1990	15.13	66.95	15.12	2.79	11.73	37.44	36.82	14.0		
1995	9.64	29.11	56.85	4.40	12.98	53.13	26.36	7.5		
2000	9.07	14.30	72.38	4.25	11.87	34.20	48.14	5.7		
2005	23.93	14.45	55.70	5.92	28.66	41.05	23.61	6.6		

Note

Source: Calculated from the UN COMTRADE.

The above table indicates a dramatic shift in the export structure of China. China's fastest growing exports were labour manufactures, apparel, footwear and toys (SITC 8) in the 1990s. Distinct shifts are observed with China emerging as an location for the assembly/ processing operations of consumer electronics, computers and other informational technology productions 7). Jahangir and XianMing (2007) also cite changes in the trade structure of China between 1995 and 2006, identified from riss elasticities. The current composition of Chinese trade is said to have little connection with Chinese comparative advantage (and Lardy, 2006: Rodrik, 2006), resulting from increasing domestic production capabilities (UNCTAD, 2005; Li and Mutual Conversely, India's exports are concentrated in SITC 5 and SITC 6 products, congruent with her comparative advantage in conversely, India's exports are concentrated in SITC 5 and SITC 6 products, congruent with her comparative advantage in conversely, India's exports are concentrated in SITC 5 and SITC 6 products, congruent with her comparative advantage in conversely. iron, steel and textiles (Veeramani, 2004).

Clearly, there is overlap in the export structure (see also Shafaeddin, 2004 on similarities in finished capital goods such processing equipment, telecommunications equipment and some electric machinery; Schmidt, 2006) of Malaysia and China in a the ROW. China's rapid expansion into medium technology products after the mid-1990s, mainly simple electronics and may cited to have hurt some Asian economies (including Malaysia) in their core or third markets (Lall and Albaladejo, 2004; Shall 2004; Ng, 2006). Greenaway et al. (2006) do not agree of any competition from China via the displacement on exports income Asian countries. While some view China as a direct threat, others contend with a co-movement of export expansion China and Malaysia due to the vertical integration of many products (see Wong, 2003; Greenaway et al., 2006; Harrigan 2007), driven by a distinct division of labour. The overlap is also reflected in a growing concentration of Malaysia-China to both the export and import side) in SITC 7 products. Whilst the increasing export shares of SITC 7 products are also noted in India trade, imports from India are mainly in SITC 6 products.

The global and bilateral trade overlaps between Malaysia and China, and to a lesser extent between Malaysia and India, by fore the extent of matched trade¹³ and the associated adjustment pressures from the Malaysian perspective. The S index captures the trade-induced adjustment implications of Malaysia's trade with the ROW and the Asia giants for two periods, and 2000-2005. On aggregate, the S index suggests benign adjustment implications in the early period relative to the recent trade with the Asia Giants. Trade with China, unlike that with India, imposes severe (contracting) adjustment pressures for 2000-2005. At the 5-digit level, only 36 per cent of the industries with matched trade had a positive S index in trade with opposed to 71 per cent in trade with India between 2000 and 2005 (see Appendix 1). On aggregate, both Giants important adjustment pressures to Malaysia than the latter's trade with the ROW. Winters and Shahid (2007) agree that adjustment pressures to Malaysia than the latter's trade with the ROW. inevitable even if the Giants' success is good news for Malaysia.

^{1.} SITC 5 - chemicals and related products; SITC 6 - manufactured goods classified chiefly by material; SITC 7 - machine 1. transport equipment and SITC 8 - miscellaneous manufactured articles.

¹³ The matched trade for Malaysia-China and Malaysia-India based on the traditional GL index at the 3-digit SITC level is 45 per cent (2005) cent (2004) respectively (author's own calculations from national trade statistics).

Table 3: Sindex for Malaysian Manufactures

	Malaysi	a-ROW	Malaysi	a-China	Malays	ia-India
Sector	1995-2000	2000-2005	1995-2000	2000-2005	1995-2000	2000-2005
SITC 5	0.190	0.057	-0.009	0.090	0.137	0.136
SITC 6	0.190	-0.161	-0.046	-0.218	0.399	-0.199
SITC 7	0.068	-0.010	0.015	-0.159	0.090	0.130
SITC 8	-0.388	0.213	-0.094	0.005	0.141	0.020
TOTAL	0.057	0.010	0.011	-0.141	0.093	0.154

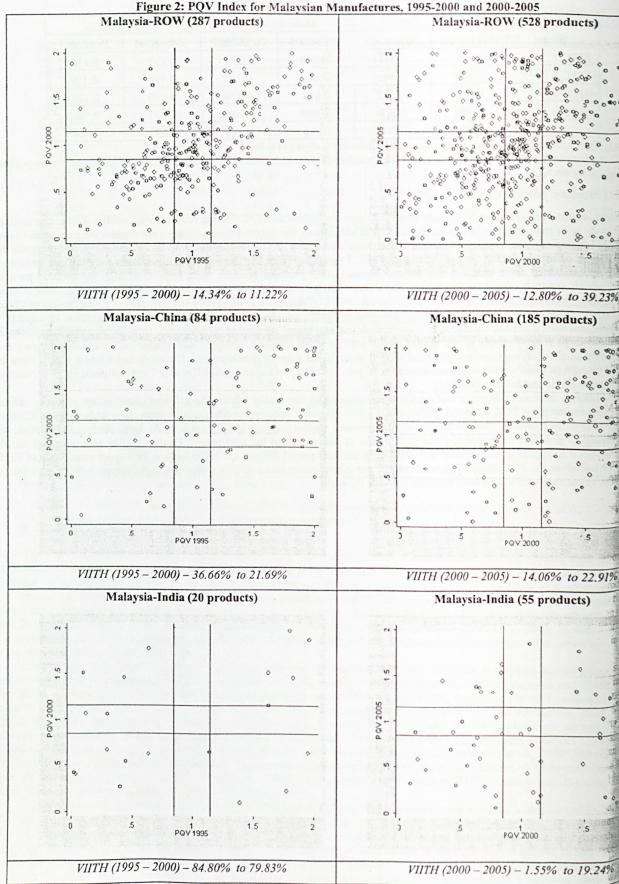
Note: 1. The S index in the above table is aggregated from the 5-digit SITC level.

Source: Calculated from the UN COMTRADE.

By sector, contracting pressures from trade with the Giants are highest in SITC 6 in the recent period, with a drastic turn around in be case of trade with India between both periods. In order of magnitude, the largest adjustment costs are evident via trade with China in STC 6. More importantly, the negative adjustments from trade with China are also associated with those products where there has been ignificant degree of matched trade change, that is for SITC 7 (see also Table 2). The adjustment pressures for Malaysia rests on the vality of products traded since China is now able to export hi-tech products because of its imports of high value-added parts and components which are then assembled by foreign firms (not Chinese-owned firms) located in China (Yue and Hua, 2002; Lall and Albaladejo, 2004; Branstetter and Lardy, 2006; Shahid et al., 2007). Dimaranan et al. (2007) add that the improved quality of Chinese see also Rodrik, 2006; Jahangir and XiangMing, 2007; Kang, 2007) and Indian exports will intensify competition in markets for different goods and lead to further contractions in electronics and machinery equipment for Malaysia. It is deemed that both China and adia combine a large relative supply of low skilled labour with an ample absolute supply of high skilled labour and therefore are more kely to succeed in diversifying their manufactured exports at an earlier stage of development. Hummels and Klenow (2005) show that extensive margin (a wider set of goods) accounted for 70 per cent of export expansion for China in 1995, followed by 54 per cent and 5 per cent for Malaysia and India respectively.

Recent evidence indicates otherwise that despite China moving up the quality ladder, she still specializes in lower quality varieties Stative to Malaysia based on 2002 estimates (Azhar et al., 2006). Figure 2 compares product quality changes in trade with the ROW and Asia Giants over two periods. The results concur with previous studies that high quality varieties do dominate in matched trade with clustering of products in quadrants I and II of Figure 2) particularly in the later period. Product quality improvements are also oled in the various SITC categories in trade with China¹⁴ in the later period (Figure 3). Nevertheless, the export value share of VIITH mains small based on the 2005 data, 19 per cent and 22 per cent in matched trade with China and India respectively. It also appears at the export value shares of VIITH have declined between the early

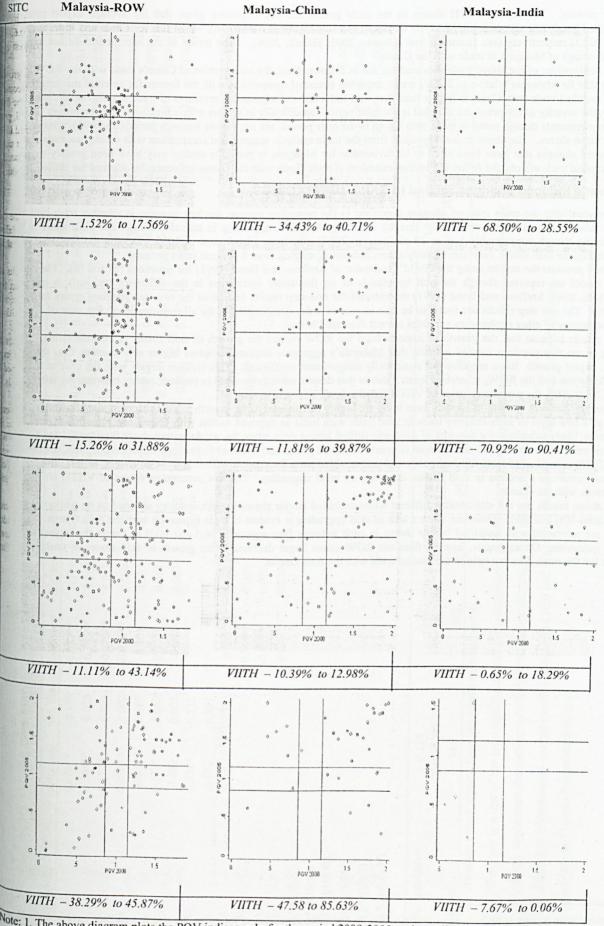
^{2.} Appendix 1 provides information on the total number of industries considered and the number of industries with positive S index by sector.



Note: 1. Data below the respective diagrams indicate the share of export value within matched trade that are VIITH for the end-period.

^{2.} Products that fall within the t-zone represent horizontally differentiated goods (HIIT). Quadrant I represent products that have remained as VIITH, quadrant II refers to products that shifted from VIITL to VIITH, quadrant III are products that have remained as VIITL and quadrant IV represent products that have shifted from VIITH to VIITH to

Figure 3: PQV Index by Sections 5-8, 2000-2005



Note: 1. The above diagram plots the PQV indices only for the period 2000-2005 as the earlier period has missing values for quantity and different quantity measurements for exports and imports. 2. The explanation for the various quadrants of Figure 2 holds. 3. Data

below the respective diagrams indicate the percentage value of exports within matched trade that are high quality varieties between 2000 and 2005. Source: Calculated from the UN COMTRADE

and later periods. The higher VIITH shares in the early period are not surprising given that the average export pixel differentiated goods (for all goods) in Malaysia in 1995-1996 was higher at 0.94 (0.76), whilst that for China and India was liand 0.82 (0.75) respectively (see Hummels and Klenow, 2005; Hallak, 2006). The trends in the later period do not suggest quality advantage of Malaysia in trade with the Giants.

The implications of the above trade data analysis are as follows: First, the composition of China's trade with the ROW is similar to that for Malaysia relative to India's trade, implying potential competition with the former for external markets. So extent of matched trade with China is higher than that with India and the adjustment pressures of trade are also severe with a Critically, the severity of the pressures is noted in the later period, specifically in sectors with a high trade concentration. That quality improvements though noted in trade with China in the later period, are not visible between periods and when considered of export value shares. The above trends appraised from the trade analysis suggest that competition with China has intensible trade induced changes that have been cited to be favourable for Malaysia in previous studies may have been grossly over further expound trade effects, the following section examines if trade flows with the Giants influence the demand for skilled like

4. Are trade induced changes related to SKILL UPGRADING?

Conceptualizing the trade induced changes described in the preceding section, the key question is whether trade with influence labour demand disproportionately, thereby affecting local skill upgrading in manufacturing. The skill share is manufacturing though considerably low at 19 per cent in 2004, rose from 13 per cent in 1983. Despite the low level of manufacturing, the skill shares vary considerably across industries, ranging from 6 per cent to 64 per cent.

Table 4 presents the results using the GMM¹⁵ estimator of Arellano and Bond (1991) for equations (5) and (6). The solution one-step model are reported though the null hypothesis of no first-order correlation in the difference residuals is reconstructed in the difference residuals is reconstructed in the difference residuals is reconstructed. The one step results are found to be free of second order autocorrelation for all specifications. For ease of experimental resulting estimates of other explanatory variables are not discussed below.

The results indicate that the growth of imports from the ROW reduce the growth of skill shares in manufacturing surprising given that previous studies indicate that Malaysia's aggregate imports comprise higher skill content than that Similarly, export growth has a negative but statistically insignificant coefficient. (This concurs largely with the case of much between Malaysia and the ROW, whereby Figure 2 shows that despite an improvement in product quality between the subject to the percentage value of VIITH remains low).

By trading partners, growth in imports from India are highly detrimental to the growth of skill shares in manufacturing of evidence of a low level of intra-industry trade in total trade with India as opposed to that with China, one plausible explainments more likely substitute for services of domestic skilled labour only when the products traded are final goods and imports comprise intermediate and capital input (imports of capital goods may channel technology diffusion/adoption, see No Winters, 2005) as well as of semi-finished goods and unassembled parts for assembly/finishing. Conversely, export growth Asia Giants results in a decline in skill shares, implying no local upgrading. The low percentage values of VIITH are is matched trade with the Giants.

The above results are not statistically different when unskilled labour shares in each industry are used as an additional [see equations 5(b) and (6b)]. However, since a lack of skill upgrading is evident in trade expansion with the Asia Giants, wariables are interacted with unskilled labour shares in each industry [see equations 5(c) and 6(c)] to assess the impact of intensive industries. On aggregate, imports from the ROW cause larger declines in the growth of skill shares in unskilled industries but the same does not hold in the case of trade with the Asia Giants.

As relative labour demand is likely to show inertia leading to first-order correlation in the errors, the lagged dependent variable is explanatory variable. Further, the potential endogeneity of relative wages and capital intensity are addressed by using the first, second values of an additional instrument, unskilled labour shares in each industry.

Independent	(5a)	(1	(6a)	((5b))	(99)	((5c)	((99)	(
Variables	coefficient	Std. Err.	coefficient	Std Fr								
Cons	**9290	0.179	0.632**	0.114	**089.0	0.179	0.632**	0.114	0.663**	0.193	**8690	0.177
d(S/N) _{t-1}	-0.304**	0.023	-0.302**	0.022	-0.303**	0.023	-0.302**	0.022	-0.310**	0.043	-0.195**	9200
d(S/N) _{t-2}	-0.174**	0.021	-0.170**	0.022	-0.173**	0.021	-0.170**	0.022	-0.195**	0.044	-0 146**	0.020
d(SW/USW),	-0.016**	0.002	-0.016**	0.003	-0.016**	0.002	-0.016**	0.003	-0.012**	0.00	-0.011**	0.003
dln(VA)t	-0.854	0.467	-0.903	0.507	-0.862	0.471	-0.912	0.513	-0.248	0920	-0.835	0.003
dK,	0.128*	0.062	0.134*	0.064	0.128*	0.062	0.134*	0.064	0.073*	0.034	*0600	0.043
d(FDI/CI),	-0.002	0.002	-0.002	0.002	-0.002	0.002	-0.001	0.002	-0.005	0.003	0.000	0.004
dln(MROW),	-0.758*	0.222			*0.770*	0.363						100.0
dln(XROW),	-0.041	0.362			-0.060	0.216						
dln(MCHINA),			0.335	0.294			0.338	0 295				
dln(MINDIA),			-0.364**	0.040			**698.0-	0.040				
dln(XCHINA),			-0.045*	0.020			-0.043*	0.020				
dln(XINDIA) _t			*680.0-	0.039			*8800-	0.020				
dln(MROW) ₁ *d(US/N) ₁								6000	**6960	7010		
dln(XROW),*d(US/N),									-0.702	0.120		
dln(MCHINA),*d(US/N),									0.010	0.00		0700
dln(MINDIA),*d(US/N),											neg.	0.040
dln(XCHINA),*d(US/N),											0.015*	0.009
dln(XINDIA),*dln(US/N),											-0.013	0.007
2nd order serial correlation	-0.124	4	-0.621		-0.137	7	-0.627	7	1 232	2	191	
Wald test	695.53 (8)	(8)	907.50 (10)	(10)	723.25 (8)	(8)	929.12 (10)	(10)	1365 57 (8)	(8)	311013	(10)
No. of observations	342		342		342		342		342	(2)	(01) (10) (10)	(01)

Note: 1. The standard errors reported are the robust standard errors.

2. The Wald test is a test of the joint significance of the independent variables asymptotically distributed as a chi-square under the null of no relationship. The figure in paranthesis represents the number of coefficients estimated (excluding time dummies).

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3. The additional instrumental variable used in Equations 5(b) and 6(b) is the shares of unskilled labour in each industry.

** significant at 1% and *significant at 5%.

5. Concluding Remarks

With higher shares in world merchandise trade (and in products that are fastest growing in the world economy) and improve product quality, China is undeniably better positioned than India in the near term for influencing global trade. From the Management presents a non-negligible share in Malaysia's trade. Relative to India, China appears to promulgate influential role on Malaysia via higher commodity overlap in external markets, greater matched trade that is of vertical differentiation, distinct quality changes and negative adjustment pressures. The evidence of no skill upgrading in trade expansion both Giants also mirrors the lack of product quality improvements and the low levels of export values of high quality varieties in trade between Malaysia and gargantuan economies.

Within this broad rubric of trade-induced changes, Malaysia will have to strengthen her position in skill intensive activities at Giants are currently far ahead in technology and the availability of human capital (Abeysinghe and Lu, 2003; Srinivasan, 2006; Shahid et al., 2007; Winters and Shahid, 2007). Improvements in quality are therefore going to accelerate and presser changes in comparative advantage. To avoid being squeezed by competing Chinese exports (and to a lesser degree Indian exposs global market and to simultaneously maintain her market share in China's imports, Malaysia needs to focus on human capital preserved as rising quality of production goes hand in hand with rising skill endowments (Fabrizio et al., 2007).

Appendix 1: Number of Products with Positive S Index

	2000-2	2005	1995-2	2000
	TOTAL*	S > 0	TOTAL*	S > 0
Malaysia-World	(20.88 –	25.54)	(33.17 –	34.99)
SITC 5	118	56	80	43
SITC 6	185	95	176	103
SITC 7	206	95	152	96
SITC 8	146	67	125	59
TOTAL	655	313	533	301
Malaysia-China	(20.81 -	25.95)	(11.00 -	41.45)
SITC 5	56	25	36	16
SITC 6	100	39	67	35
SITC 7	132	45	133	55
SITC 8	69	21	57	30
TOTAL	357	130	293	136
Malaysia-India	(29.16 -	5.75)	(10.05 -	32.12)
SITC 5	32	14	26	15
SITC 6	7	2	6	6
SITC 7	83	36	77	46
SITC 8	46	24	29	20
TOTAL	168	119	138	87

Note: 1. *Total number of products that have experienced significant changes in matched trade for the period the S index (-0.4 < S < 0.4). The S index is calculated at the 5-digit level and reported at the 1-digit level.

2. Figures in parenthesis refer to the percentage value of two-way trade in total trade for the various relationships based on the start and end-year for the period.

Source: Calculated from the UN COMTRADE.

Appendix 2: Product Quality (Number of Products)

Distance of			2000	2000 - 2005					1995 - 2000	- 2000		
		2000			2005			1995			2000	
	VIITL	VIITH	HIIT	VIITL	VIITH	HIIT	VIITL	VIITH	НПТ	VIITL	VIITH	HIIT
Malaysia-World	etr	197										
SITC 5	63	11	37	36	34	42	22	15	17	26	9	21
SITC 6	52	36	50	44	99	37	40	30	52	40	.31	32
SITC 7	81	58	41	62	81	27	37	36	22	39	37	16
SITC 8	36	46	10	25	48	18	20	28	7	16	36	5
TOTAL	232	151	138	184	219	124	119	109	86	121	110	74
Malaysia-China		girat No		ME	la la		Ar , Si					
SITC 5	14	16	∞	17	56	10	4	6	0	6	8	6
SITC 6	14	27	7	17	37	16	4	14	9	11	18	5
SITC 7	63	31	∞	31	41	15	40	32	8	99	25	111
SITC 8	29	10	2	10	14	8	8	4	0	19	7	2
TOTAL	120	84	25	75	118	49	56	59	14	95	58	27
Malaysia-India		e kil	do A	Dan Lan Jeso							To large	
SITC 5	8	2	3	17	. 9	9	2	3	3	7	9	5
SITC 6	2	2	1	1	5	0	1	0	0	1	1	0
SITC 7	18	16	9	25	28	10	13	9	9	16	15	4
SITC 8	9	5	0	10	13	. 5	2	1	1	2	8	1
TOTAL	34	28	10	53	52	21	18	10	10	26	30	10

Note: The total number of products in the above table does not match that which is indicated in Appendix 1 given that for some products, the unit values could not be

calculated either due to missing data on quantity or different units of quantity measurement for exports and imports.

Source: Calculated from the UN COMTRADE.

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