

research paper series

Globalisation, Productivity and Technology



Research Paper 2008/08

An Account of Global Intra-industry Trade, 1962-2006

by

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Acknowledgements

This paper is a background contribution to the World Bank's 2009 World Development Report. I thank Bolormaa Tumurchudur for excellent research assistance and Souleymane Coulibaly, Uwe Deichmann, Rob Elliott and Andreas Kopp for helpful comments.

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Abstract

This paper provides a comprehensive description of intra-industry trade patterns and trends, using data on more than 39 million bilateral trade flows. In 2006, 27 percent of global trade was intra-industry if measured at the finest (5-digit) level of statistical aggregation, and 44 percent if measured at a coarser (3-digit) level of statistical aggregation. The observed steady growth in global intra-industry trade since the early 1960s suggests a process of world-wide structural convergence: economies are becoming more similar over time in terms of their sectoral compositions. In particular since the 1990s, this trend appears to be driven to a significant extent by the international fragmentation of vertical production chains. Intra-industry trade is a high-income and middle-income country phenomenon: African trade remains overwhelmingly of the inter-industry type. Moreover, the observed increase in intra-industry trade was not accompanied by a comparable increase in *marginal* intra-industry trade, suggesting that trade-induced adjustment pressures remain potentially important.

JEL classification: F1

Keywords: intra-industry trade, marginal intra-industry trade

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Non-Technical Summary

I describe global merchandise trade flows through the lens of intra-industry trade (IIT) indices, using data on more than 39 million bilateral trade flows. IIT indices quantify the extent to which bilateral imports and exports are matched within sectors. A simple description of IIT patterns is of interest for two main purposes: as a gauge of the sectoral similarity of different national economies, and as a proxy for the intensity of factor-market adjustment pressures associated with trade expansion.

It is easy to see how IIT can serve as an indicator of economic similarity: for two countries to be able to export goods of a particular sector to each other, they both need to produce this good. Given the relative paucity of internationally comparable and sectorally disaggregated production and employment data, trade-based measures can provide uniquely comprehensive (though indirect) evidence on international specialization patterns.

The link between IIT and adjustment is similarly intuitive. If tighter international trade integration leaves the sectoral composition of national economies broadly intact by fostering the two-way exchange of different “varieties” of the same type of good, then labor and capital does not have to be reallocated from declining import-competing sectors to expanding export sectors, but simply between different product lines within a given sector. It is primarily due to this “smooth-adjustment hypothesis” that the original discovery of high IIT levels among liberalizing European countries in the late 1960s generated enormous interest among policy-oriented economists and that IIT continues to be used as a diagnostic tool in impact assessments of trade reforms.

A number of broad results emerge:

- In 2006, 27 percent of global trade was intra-industry if measured at the finest (5-digit) level of statistical aggregation, and 44 percent if measured at a coarser (3-digit) level of statistical aggregation.
- The share of IIT has been on a secular upward trend over the last five decades, suggesting a gradual convergence of the sector composition of national economies worldwide.
- The increase in IIT and the implied structural convergence are a high-income and middle-income phenomenon: while some, mainly Asian, lower-income countries exhibit rapidly increasing IIT shares, Africa has largely been excluded from this trend.
- Many indications point toward the importance of outward processing trade in explaining recent rises in IIT.
- The observed increase in IIT does not necessarily imply lower adjustment costs to trade expansion. MIIT is significantly lower than IIT, and no clear time trend is discernible for MIIT.

1. Introduction

Merchandise trade is by far the best documented aspect of international economic relations. Trade data therefore offer a rich source of information on patterns and shifts in the allocation of economic activity around the globe.

In this paper I describe global merchandise trade flows through the lens of intra-industry trade (IIT) indices, which quantify the extent to which bilateral imports and exports are matched within sectors. A simple description of IIT patterns is of interest for two main purposes: as a gauge of the sectoral similarity of different national economies, and as a proxy for the intensity of factor-market adjustment pressures associated with trade expansion.

It is easy to see how IIT can serve as an indicator of economic similarity: for two countries to be able to export goods of a particular sector to each other, they both need to produce this good.¹ Given the relative paucity of internationally comparable and sectorally disaggregated production and employment data, trade-based measures can provide uniquely comprehensive (though indirect) evidence on international specialization patterns.

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¹ The link between export values and production values is provided by export propensities, which can vary considerably across sectors and destinations. Hence, trade values are a noisy measure of underlying production values. Trade and production specialization may even diverge. Epifani (2005), for example, develops a trade model within which increasing inter-industry specialization in production coincides with rising IIT. The present study relies on the premise that such configurations are the exception, not the rule. Moreover, actual trade data occasionally (and erroneously) report goods that merely transit a country (typically one that hosts an important port) as exports. In this case, trade flows also do not reflect production patterns. Work by Amiti and Venables (2002) and by Venables, Rice and Steward (2003) supports the interpretation of IIT that motivates this study. Venables *et al.* (2003), for example, conclude that their results “provide strong support for the view that the spatial pattern of IIT is merely reflecting the spatial distribution of country characteristics” (p. 2) and that “close countries do a lot of IIT because they have similar economic structures” (Abstract).

generated enormous interest among policy-oriented economists and that IIT continues to be used as a diagnostic tool in impact assessments of trade reforms.²

The paper is organized as follows. Section 2 presents the IIT measures employed and the data on which they are computed. In Section 3, I provide a snapshot of global IIT patterns in 2006, the last year for which I have data; and in Section 4 I take a longer view by describing the evolution of IIT over the full sample period 1962-2006. The evolution of the main cross-country determinants of IIT, based on annual regression estimates, is described in Section 5. Section 6 reports measures of marginal IIT, which are more closely related to structural adjustment than the standard IIT indices. Section 7 concludes.

2. Measurement and Data

The Grubel-Lloyd Index

IIT is commonly understood as coterminous with the index proposed by Grubel and Lloyd (1975), which expresses IIT as a share of total bilateral trade in a particular industry i :

$$GL_{cd,i} = 1 - \frac{|X_{cd,i} - M_{cd,i}|}{(X_{cd,i} + M_{cd,i})}, \quad (1)$$

where $X_{cd,i}$ and $M_{cd,i}$ refer to country c 's exports and imports respectively, to/from country d over one particular year (time subscripts are implied). This measure takes values between zero and one and increases in the share of IIT.

GL indices can be aggregated across N industries, as a trade-weighted (rather than simple arithmetic) average of the industry indices:

$$GL_{cd} = \sum_{i=1}^N w_{cd,i} GL_{cd,i} = \sum_{i=1}^N \left(\frac{X_{cd,i} + M_{cd,i}}{\sum_{i=1}^N (X_{cd,i} + M_{cd,i})} \right) GL_{cd,i} = 1 - \frac{\sum_{i=1}^N |X_{cd,i} - M_{cd,i}|}{\sum_{i=1}^N (X_{cd,i} + M_{cd,i})}.$$

Equivalent to this definition is the following expression:

² The proposition that IIT entails lower adjustment costs than inter-industry trade has originally been articulated by Balassa (1966) and further developed in the influential monographs on IIT by Grubel and Lloyd (1975) and Greenaway and Milner (1986). For a survey, see Brühlhart (1999).

$$GL_{cd} = \frac{\sum_{i=1}^N 2 * (\min X_{cd,i}, M_{cd,i})}{\sum_{i=1}^N (X_{cd,i} + M_{cd,i})}, \quad (2)$$

which is easily summed to give a country's total bilateral IIT across all trade partners:

$$GL_c = \sum_{d=1}^{D_c} \left(\frac{\sum_{i=1}^N 2 * (\min X_{cd,i}, M_{cd,i})}{\sum_{i=1}^N (X_{cd,i} + M_{cd,i})} \right), \quad (3)$$

where D_c is country c 's number of trading partners. This can be further aggregated across countries, for a measure of IIT by group of countries C (which could mean the entire world economy):

$$GL_{countrygroup} = \sum_{c=1}^C \sum_{d=1}^{D_c} \left(\frac{\sum_{i=1}^N 2 * (\min X_{cd,i}, M_{cd,i})}{\sum_{i=1}^N (X_{cd,i} + M_{cd,i})} \right), \quad (4)$$

where C delineates the group of countries considered.³

Three variants of the index in (4) will be distinguished. First, for IIT *within* a particular country group C (say, among all low-income countries), $D_c \subseteq C \forall c$. Conversely, for IIT *between* country groups (say, between low-income and high-income countries), $D_c \not\subseteq C \forall c$. Finally, country group C 's *total* IIT (say, IIT of low-income countries with all their trading partners) obtains when $D_c \subseteq \{C, C'\} \forall c$, where C' denotes the complement to C (i.e. all trading nations that are not part of the group C).

Note that all these indices are computed for pairs of countries. It would be simple to aggregate a country's trade flows across all (or a subset) of that country's trade partners to obtain a measure of "multilateral IIT". However, most of the interest in IIT measures stems from the observation of simultaneous imports and exports between a given pair of countries, and this definition of IIT also serves best to identify similarity of trade

³ I let C symbolize both the number of countries in a particular group and the particular group (set) itself.

compositions among country pairs. I therefore use bilateral IIT measures as the basis for all the results reported in this paper.⁴

The GL index is highly intuitive and has found near-universal acceptance. Two additional measurement issues nonetheless merit discussion.

Categorical aggregation. The definition of an “industry” is probably the most contentious issue in applied IIT research. Grubel and Lloyd (1975, p. 86) defined IIT as “trade in differentiated products which are close substitutes”. Over time, it has become generally accepted that the relevant criterion is substitutability in production (rather than in consumption), since this is the aspect of industries that (a) maps trade flows to production patterns and (b) lies at the heart of the link between IIT and factor-market adjustment.⁵ Whilst statistical product classifications are inevitably imperfect in this respect, they are nevertheless largely guided by the correct criterion, i.e. an effort to group together goods with similar input requirements.⁶ This still leaves open the question about the most appropriate level of statistical aggregation for the calculation of IIT indices. Whilst many empirical studies use data at the 3-digit level, this choice is mostly motivated by expediency rather than any *a priori* reason for favoring that level of aggregation. I opt for a narrower definition in this paper, by working mainly with 5-digit sectors and thus distinguishing up to 1,161 different “industries”. This minimizes the likelihood of grouping substantially different activities under the same industry heading.

Adjustment for overall trade imbalance. The upper bound of a country’s mean GL index is negatively related to the size of that country’s overall trade surplus or deficit relative to total trade. Hence, a larger imbalance in the trade account implies lower GL indices on average. Aquino (1978) has suggested a corresponding adjustment method for the GL

⁴ Through this bilateral definition, our IIT indices are conservative measures of the international fragmentation of production (also referred to as outward processing), as they will not capture sequential production chains that encompass more than two countries (see e.g. Hummels, Ishii and Yi, 2001).

⁵ Furthermore, it is this definition of IIT that distinguishes it from comparative-advantage based trade and that provided the impetus for economic theorists to develop the “new trade theory” (see Helpman and Krugman, 1985, for a comprehensive statement).

⁶ In the list of five similarity criteria used by the experts in charge of the third revision of the Standard International Trade Classification (SITC), an earlier version of which my calculations are based on, the first principle was “the nature of the merchandise and the materials used in its production”, while “the uses of the product” only ranks third (United Nations, 1986, p. viii). Evidence in favor of reasonable homogeneity of statistical sectors in terms of factor requirements has been found by Elliott, Greenaway and Hine (2000).

index. The rationale for such an adjustment has, however, been questioned on the grounds that visible trade imbalances, both bilateral and multilateral, may well be compatible with balance of payments equilibrium (Greenaway and Milner, 1986).⁷ Given the difficulty in estimating equilibrium trade imbalances, the professional consensus has been to work with unadjusted GL indices. Furthermore, if IIT measures are to be interpreted as gauges of international specialization patterns, no modification of the basic GL index is warranted. I therefore report unadjusted indices throughout.

Marginal IIT

The GL index refers to the pattern of trade in one year, and in that sense it is a static measure. This is appropriate if one seeks to quantify international specialization patterns at a particular point in time. In the context of structural adjustment, however, it is the structure of *changes* in trade patterns which is important. This insight has motivated the development of “dynamic” measures referred to as *marginal* IIT (MIIT).⁸

Hamilton and Kniest (1991) first made this distinction by pointing out that the observation of a high proportion of IIT in one particular time period does not justify *a priori* any prediction of the likely pattern of *change* in trade flows. Even an observed increase in static IIT between two periods ($GL_t - GL_{t-1} > 0$) could “hide” a very uneven change in trade flows, concomitant with *inter-* rather than *intra-*industry adjustment.

MIIT denotes parallel increases or decreases of imports and exports in an industry. Such matched changes of sectoral trade volumes can plausibly be associated with a broadly neutral effect on employment. For example, if industry *i* imports expand, domestic jobs may be threatened in that industry, but if industry *i* exports expand by a comparable

⁷ Egger, Egger and Greenaway (2007) propose a similar adjustment motivated by the fact that profit repatriation of multinational firms can imply inherently unbalanced bilateral trade. This is an interesting extension of IIT measurement. However, the bulk of global merchandise trade continues to be arms-length (OECD, 2002). Moreover, while multinational activity may cause bilateral imbalances at the sector level, this is not a necessary implication.

⁸ The GL index is calculated on the basis of cross-border flows of goods and is thus not a static measure in the strictest sense. Yet, “static” IIT in the sense of the GL index contrasts with “dynamic” measures of MIIT since the latter relate to the change in these flows between two different periods.

amount, this may offset lost market share in the domestic market and yield a zero net change in the industry's domestic employment.⁹

An illustration of the difference between IIT and MIIT is given in Figure 1. Figure 1A graphs a hypothetical country's bilateral imports and exports in a particular industry. All points along any ray from the origin share the same GL index, since they represent equal sectoral import-export proportions. Assume that P represents the sectoral trade balance in the base year ($t-n$): home-country imports exceed exports by a ratio of 3:1. The industry thus exhibits a GL index of 0.5. Assume further that the GL index is higher in the end year (t). A move from P to both $Q1$ and to $Q2$ would show up as an increase in the GL index from 0.5 to 0.8. However, the pattern of trade change is quite different between the two scenarios. With a shift from P to $Q1$, exports and imports of increase at the same absolute rate, and both countries (assuming there are only two) have captured an equal share of the increased volume of trade in this sector. If this pattern appears for other industries as well, then the adjustment process is *intra*-industry, since all countries share equally in the growth (or decline) of all these sectors. A move from P to $Q2$, however, implies that exports have declined while imports have increased. If this pattern appears also in other industries - with the home country not necessarily always on the 'losing' side - the adjustment process is *inter*-industry. A rise in the GL index can thus hide both a process of *intra*- and *inter*-industry trade change.

Several MIIT measures have been developed to quantify the "matchedness" of trade changes. The most straightforward of these measures is a transposition of the Grubel-Lloyd index to first differences of sectoral trade flows (country subscripts implied):

$$MIIT_{it} = 1 - \frac{|\Delta X_{it} - \Delta M_{it}|}{|\Delta X_{it}| + |\Delta M_{it}|}, \quad (5)$$

where Δ stands for the difference between years t and $t-T$.¹⁰ This index, like the GL index, varies between 0 and 1, where 0 indicates marginal trade in the particular industry to be completely of the *inter*-industry type, and 1 represents marginal trade to be entirely of the *intra*-industry type.

⁹ This conjecture evidently only holds if other relevant variables are held constant. Lovely and Nelson (2000) have shown that, in general equilibrium, MIIT can be associated with inter-industry reallocation of factors if productivity is also allowed to change.

¹⁰ See Brühlhart (1994).

The MIIT index is related strictly to the structure of the *change* in trading patterns – information on levels of exports or imports is not required. Hence, MIIT can be mapped onto a plane that is defined by ΔX and ΔM (Figure 1B). The possibility of such a mapping is what essentially distinguishes MIIT measures from IIT.

The MIIT index shares most of the statistical properties of the GL index.¹¹ In particular, it can also be summed across industries, by applying the following formula for a weighted average:

$$MIIT_t = \sum_{i=1}^N w_{it} MIIT_{it}, \quad \text{where } w_{it} = \frac{|\Delta X|_{it} + |\Delta M|_{it}}{\sum_{i=1}^N (|\Delta X|_{it} + |\Delta M|_{it})}, \quad (6)$$

and where $MIIT_t$ is the weighted average of $MIIT_{it}$ over all sectors of the economy or over all the sub-sectors of a sector.

A number of empirical studies have established significantly negative partial correlations between MIIT and various measures of labor-market adjustment pressures.¹²

Data

All trade data used for this paper are taken from the World Integrated Trade Solution (WITS) database, jointly developed by the World Bank and UNCTAD. The underlying information source is the United Nation Statistical Division’s Commodity Trade data base (COMTRADE). I retain all bilateral imports and exports in value terms (current US dollars).

The definition of an “industry” requires a choice not only about the level of statistical aggregation but also about the classification scheme to adopt. I have chosen to work with the Revision 1 version of the UN’s Standard International Trade Classification (SITC). Revision 1 has the advantage of offering maximum comparability over the sample period, as trade statistics have been recorded according to this classification since 1960. The

¹¹ For a detailed exploration of the parallels and differences between the IIT and MIIT indices, see Oliveras and Terra (1997).

¹² See Brühlhart (2002) and Azhar and Elliott (2004) for discussions of the properties of this and alternative MIIT measures. Brühlhart, Elliott and Lindley (2006) and Cabral and Silva (2006) are two recent empirical tests of the “smooth adjustment hypothesis” associated with MIIT.

disadvantage is that some sectors which are larger and more differentiated now than they were in 1960 are still recorded as a unique “industry”. This will imply a tendency toward higher measured IIT in sectors that have experienced product innovation relative to sectors whose traded goods have remained unchanged. Since my main focus is on the geographic pattern of IIT rather than on sector variations, however, my priority is to obtain consistent time series by country.

Most of my calculations are performed at the 5-digit level of the SITC classification, which corresponds to the finest possible definition of an “industry” in the available data. At the 5-digit level of the SITC Revision 1, trade is categorized into 1,161 different sectors.¹³ For the purpose of comparison, I also carry out some IIT computations at the SITC 3-digit level, where 177 sectors are distinguished.

Although COMTRADE offers the most comprehensive available database on international trade flows, country coverage is not uniform between 1962 and 2006. I address this issue in two ways.

One approach is to narrow down the list of countries to those for which coverage is broad enough such that I can be confident that intertemporal comparisons are not driven by variations in country coverage. I have therefore established a list of 56 countries which report trade data in at least 40 of the 45 sample years, to produce an (almost) balanced panel of consistent data.¹⁴ I refer to this as the “*long coverage*” data set. For this data set, I retain only data reported by the importing countries, as these can be considered to be more reliable on average (customs services having a stronger incentive to monitor imports than to monitor exports).

¹³ Four examples to illustrate the narrowness of the basic industry definition: in 2006, the smallest 5-digit sector was SITC 3324 (“residual fuel oils”), accounting for 0.000002 percent of the value of recorded world trade; the biggest 5-digit sector was SITC 33101 (“crude petroleum”), accounting for 9.54 percent of world trade; the median 5-digit sector was SITC 71965 (“automatic vending machines”), accounting for 0.00014 percent of world trade; and the mean 5-digit sector was SITC 03201 (“fish, prepared or preserved”), which accounted for 0.087 percent of world trade.

¹⁴ In the construction of the balanced panel, I also drop four of the 1,161 5-digit sectors for which COMTRADE does not provide consistent coverage over the sample period. Appendix Table 1 lists the 56 countries included in the “*long coverage*” data set.

As a second approach, I exploit the fact that country coverage is broader if one takes account of reported export data as well as of reported imports. One can take exporting country statistics to infer imports of countries that have not submitted their statistics to the UN. I therefore use exporter data to fill as many gaps as possible for four sample years: 1962, 1975, 1990 and 2006. Since the non-reporting countries are mainly from the developing world, this “*wide coverage*” data set allows me to incorporate many low-income countries into the analysis that are not part of the “long coverage” sample.¹⁵

At the 5-digit level, the “long coverage” data set identifies between 565,000 (1962) and 3,952,000 (2005) 5-digit bilateral trade flows.¹⁶ Over the 45-year sample period, this data set contains a total of some 39.6 million observations. In the “wide coverage” data set, the number of observations ranges from 962,000 in 1962 to 4,903,000 in 2006. The “wide coverage” data report trade flows for 177 countries in 1962 and for 214 countries in 2006.¹⁷

3. Global IIT in 2006

I begin by documenting IIT patterns in 2006, the latest available sample year.

In 2006, 27 percent of world trade were intra-industry if measured at the 5-digit level, and fully 44 percent if measured at the 3-digit level. These are my best estimates of the most recent IIT share, based on the 214 countries in the “wide coverage” sample, and applying the trade-weighted aggregator of expression (4).

At the level of individual nations, Table 1 reports trade shares and GL indices, computed according to expression (3), for the 214 sample countries. Countries are sorted in decreasing order of their recorded share in world trade.

¹⁵ In addition to question marks over the reliability of reported export statistics, there is a definitional inconsistency. Export values are officially measured “free on board” (FOB), whereas import values are recorded inclusive of the cost of insurance and freight (CIF). In the actual data, this seems to be a minor concern. On average, reported imports are valued about one percent higher than the corresponding exports.

¹⁶ The data for 2006 were downloaded from WITS in January 2008. At that stage, coverage for 2005 was still slightly larger than for 2006 (3,771,754 observations).

¹⁷ See Table 1 for a list of the 214 countries in the 2006 “wide coverage” data set.

It becomes immediately apparent that IIT at the 3-digit level is higher than IIT at the 5-digit level. The unweighted IIT averages are 0.14 at the 3-digit level and 0.07 at the 5-digit level (see final row of Table 1). Table 1 also clearly shows that large trading nations tend to exhibit higher IIT, which explains why these unweighted averages are significantly smaller than the aggregate IIT shares reported above. It suffices to look at the third and fourth data columns to realize that GL indices tend to increase with the size of countries' trade. The simple correlation coefficients between trade shares and GL indices are 0.58 (3-digit) and 0.52 (5-digit).

Furthermore, the second data column of Table 1 shows that larger trading countries also tend to trade in a broader set of industries. France is the country with the highest level of IIT at the 5-digit level (0.424) whereas at the 3-digit level the highest level of IIT is recorded by the Czech Republic (0.622). At the opposite end of the list, a full 85 sample countries do not engage in any discernable IIT at the 5-digit level. The largest of these 85 countries, in terms of its share in recorded world trade, is the United Arab Emirates. At the 3-digit level, however, all countries exhibit some IIT, with the lowest GL index of 0.001 observed for Benin, Lesotho and Liberia.

While *average* IIT shares differ significantly, *variations* across countries are very similar for the two levels of sectoral aggregation: the correlation coefficient across the 216 countries between the 3-digit and the 5-digit GL indices is 0.97.

In Table 2, I slice the global trade matrix by sector rather than country, and I present trade shares as well 5-digit and 3-digit GL indices separately for the 177 3-digit sectors. Again one can easily observe that 3-digit GL indices are higher than 5-digit GL indices (aggregated to the 3-digit level), the unweighted averages corresponding to 0.28 and 0.21 respectively. And at 0.92, the correlation between the two sets of GL indices is again very high. Sectoral disaggregation thus strongly affects observed average levels of IIT, but it is of secondary importance in a description of broad cross-sectional patterns.

The 3-digit sector with the highest level of observed 5-digit IIT (GL= 0.527) is "Electric Power Machinery and Switchgear", whereas the only 3-digit sector for which I find a 5-digit GL index of 0.000 is "Concentrated Uranium and Thorium Ore".

Figure 2 shows IIT by country income groups, taking the World Bank's (2006) categorization and applying the "within" version of the group-level GL index defined in expression (4). Trade among high-income countries is characterized by the highest IIT shares on average. IIT among the low-income countries, in contrast, is virtually non-existent. Strikingly, however, the highest 5-digit IIT level is observed for trade among lower-middle-income countries – higher even than for trade among high-income economies. There are good reasons to believe that the high IIT among lower-middle-income countries is due to processing trade in vertically fragmented industries (the four main trading nations in this category are China, Thailand, the Philippines and Indonesia, see Table 1).

Finally, Figure 3 reports summary IIT according to a classification of 5-digit sectors by the three main stages of the production chain: primary, intermediate and final goods.¹⁸ Not surprisingly, primary goods are found to exhibit by far the lowest average IIT. It is interesting, however, to observe that average IIT in intermediate goods is considerably higher than IIT in final goods. This again suggests that vertical fragmentation of production processes across country borders might be as important (or even more important) in explaining global IIT patterns as international product differentiation and consumer tastes for variety.

4. The Evolution of Global IIT, 1962-2006

Aggregate IIT

I now turn to the description of changes in IIT over time, based on the "wide coverage" sample, which offers comparable data over the full sample period. Figure 4 provides the main picture. It shows how, irrespective of the level of categorical aggregation, global IIT has exhibited a secular upward trend that has leveled out in the mid-1990s.¹⁹ In this narrower country sample, more than a third of global trade is now IIT if measured at the 5-digit level, and more than half if measured at the 3-digit level. The upward trend in IIT

¹⁸ The classification at the 5-digit level is taken from the United Nations' Broad Economic Categories, concorded to the SITC, Rev. 1. Table 2 shows this grouping at the 3-digit level. The full (5-digit) classification can be provided on request.

¹⁹ Measured IIT in 2004 and 2005 is somewhat biased downward due to the fact that in those years COMTRADE data attribute a significant share of EU imports to the EU as a whole rather than to the individual destination countries. This reduces observed import volumes of EU member states in those two years.

suggests a process of world-wide structural convergence: economies are becoming more similar over time in terms of their sectoral compositions.

As a complement to the time series of Figure 4, which is based on data for the 46 predominantly higher-income countries for which consistent import data are available, I show aggregate IIT levels for the “wide coverage” data set in Figure 5. It is unsurprising that IIT shares are lower in Figure 5 than in Figure 4, as the latter omits most low-income countries. Nonetheless, the broadly increasing share of IIT in world trade is as evident in Figure 5 as in Figure 4. Since the “wide coverage” data set is my most comprehensive sample, it provides my preferred estimates for the current (i.e. 2006) shares of IIT in world trade: 27 percent if measured at the 5-digit level, and 44 percent if measured at the 3-digit level.

IIT by Sector

Figure 6 illustrates that the rise in global IIT has been broadly shared across sectors. Over our sample period, the average 5-digit GL index has increased in nine out of the ten 1-digit sectors. The only exception is the Mineral Fuels sector (SITC sector 3), where, for obvious reasons, inter-industry trade has remained highly dominant. Proportionally the largest rise in IIT is observed in the “Food and Live Animals” sector (SITC sector 0), which exhibits a nine-fold rise from a GL index of 0.02 in 1962 to a GL index of 0.17 in 2006. Clearly, with the increasing sophistication and differentiation of food products, even agricultural goods are now subject to considerable IIT. The 1-digit sector with consistently the highest recorded level of 5-digit IIT, however, is “Machines and Transport Equipment” (SITC sector 7).

In Figure 7, I show changes in IIT separately for 3-digit sectors. While there are now more cases of declining IIT between 1962 and 2006, it again appears that the rise in IIT is a pervasive phenomenon. Only 29 of the 177 3-digit sectors experienced a decrease in IIT over the sample period.

Figure 8 tracks the evolution of IIT separately for primary, intermediate and final goods. Again, it becomes apparent that the rise in IIT has been a very general phenomenon, as it is observed for all three product groups. Primary products, not surprisingly, have consistently exhibited the lowest IIT shares and also recorded the slowest increase. Average IIT levels

in intermediate and final goods were very similar until around 1975, after which IIT in intermediate goods has consistently exceeded IIT in final goods. This could again be taken as evidence that outward processing is the dominant driver of rises in IIT over the last three decades.

IIT by Country and Country Group

Long-run changes in average IIT levels of individual countries are illustrated in Figures 9 and 10, for the full sample period 1962-2006, and in Figures 11 and 12, for the more recent time interval 1990-2006. These plots show that IIT has been increasing in virtually all countries over the past 45 years. Some countries, however, have experienced declines in their IIT levels since 1990. These include advanced economies such as Norway, which experienced a boom in primary exports, and Ireland, which specialized heavily into high-tech exports. Both these countries have experienced strong economic growth over that period, and their example shows that the positive association between IIT and income is not universal and may well be relevant only up to some critical income level.

Figures 13 to 17 document IIT patterns and trends within and between world regions and income-based country groups.

In Figure 13, I show IIT levels for trade within 16 world regions commonly distinguished by the World Bank. IIT among industrialized economies dwarfs IIT among developing countries. While, by 2006, roughly half of internal trade in Western Europe, North America and Australia-New Zealand was intra-industry (at the 5-digit level!), the corresponding shares are below 5 percent for Western Asia and Eastern Africa and well below one percent for trade among Southern and Central Asian as well as among all other African nations. The increase in IIT observed at the global level is a phenomenon that was largely confined to Europe, North America, East Asia and Australia-New Zealand. Figure 14, which shows IIT levels for trade between as well as within the seven broader world regions in 2006 confirms this summary view: no trading relationship involving Africa exhibits an IIT share above 5 percent, and, with exception of its trade with high-income countries, the same is true for South Asia.

Detailed results on IIT and trade shares within and between the 16 world regions for 1962 and 2006 are reported in Table 3. A striking feature of this Table are again the low IIT

levels for the African regions. None of the cells of this matrix pertaining to East Africa, Middle Africa, Northern Africa and Western Africa show an IIT share exceeding 5 percent. Table 3 also shows that the share of Africa in world trade has fallen over the sample period in a majority of the country combinations considered. While Africa stands out with uniquely low IIT as well as trade shares, very low IIT is also observed for Western Asia (mainly Middle Eastern countries), whose IIT share reaches 10 percent only for trade with Western Europe.

Figure 15 illustrates the evolution of IIT within and between country income groups. Because the poorest countries are underrepresented in the “long coverage” data set (see Appendix Table 1), I combine the World Bank’s “low income” and “lower middle income” categories into a single “low” group. Again a positive correlation between income levels and IIT is clearly apparent, with IIT among high-income countries far outstripping IIT among all other country groups. There has, however, been some marked convergence in global IIT patterns, with IIT shares among all country groups trending upwards since around 1980, and IIT shares involving middle-income and low-income countries growing more rapidly than IIT among high-income countries.

One conspicuous pattern in Figure 15 is a leveling-off in all IIT series, coinciding roughly with the turn of the millennium. A similar, though less pronounced, trend break is also visible in the aggregate IIT time paths shown in Figure 3. Figure 15 shows that the recent stagnation in aggregate IIT growth is not due to the increased integration into world trade of emerging economies and an associated inter-industry “re-specialization”, because all country groups exhibit slowdowns.²⁰ One possibility is that IIT has leveled off because of the recent increase in the share of primary goods in the value of world trade. Only some 6 percent of global trade in primary goods were intra-industry in 2006 (see Figure 2).

Being based on the “long coverage” sample, Figure 15 offers a continuous time series, but it does not take account of most of the world’s poorest countries. Figures 16 and 17, being based on the “wide coverage” data set, address this issue. The exclusion from global IIT by the poorest countries emerges starkly from Figure 16. Among countries categorized as “low income” by the World Bank, the intra-group IIT share has remained stuck below a derisory

²⁰ Note, furthermore, that China does not feature in the “long coverage” dataset (Appendix Table 1). Its economic ascent cannot therefore explain the observed patterns.

0.5 percent since 1962. The convergence in global IIT levels is clearly a middle-income country phenomenon. The surge in IIT among the lower middle income countries from 2.2 percent in 1990 to 13.9 percent in 2006 is particularly striking.

The polarized global geography of IIT is also apparent in Figure 17, where I report the evolution of IIT *between* income groups: everybody's average IIT is highest with the high-income countries and lowest with the low-income countries.

IIT and Regional Integration

In light of the ongoing proliferation of regional integration agreements (RIAs), I report some relevant evidence for the EU and for four Sub-Saharan African RIAs.

Figures 18 and 19 show the evolution of IIT and of intra-RIA trade shares for the EU-15 and for the EU-27 respectively. The internal trade share has been increasing steadily since the early 1960s, and intra-EU IIT has risen in parallel. Thus, European integration has gone hand in hand with significant strengthening of intra-European trading relations as well as with increasing structural similarity of the participating economies. The coexistence of trade expansion and increasing sectoral similarity across member states that surprised researchers in the early years of European integration (e.g. Balassa, 1966) thus continued to mark the evolution of the European economy over the subsequent four decades.

Figures 20 to 23 show comparable statistics for four African RIAs. These integration schemes differ substantially in terms of age and institutional depth, but my calculations show that they resemble each other in two fundamental respects. First, both intra-RIA trade shares and average levels of IIT are extremely low in those RIAs compared to the EU. In Africa, intra-RIA IIT in no case exceeds 2 percent, whereas in the EU-15 it reached 46 percent in 2006. Second, in Africa neither intra-RIA trade shares nor intra-RIA IIT show any clear time trends. On the basis of these (rather rough) computations, there is evidence of African RIAs having stimulated neither substantial regional trade nor structural convergence.

5. Some Simple Regressions: IIT, Income and Distance over Four Decades

As a complement to the descriptive statistics that represent the main contribution of this paper, I report some simple regression results to quantify the sensitivity of IIT to bilateral

distance as well as its relation to per-capita income levels. The main value added here is that I can trace how these parameters have evolved over time, and that I run the regression separately for primary, intermediate and final goods sectors.

I estimate the following regression equation separately by sample year:

$$\ln\left(\frac{GL_{cd}}{1-GL_{cd}}\right) = \beta_0 + \beta_1 \ln\left(\frac{pcGDP_c + pcGDP_d}{2}\right) + \beta_2 \ln|pcGDP_c - pcGDP_d| + \beta_3 \ln(dist_{cd}) + \beta_4 \ln(contig_{cd}) + \varepsilon_{cd}, \quad (7)$$

where GL_{cd} is the aggregate bilateral GL index between countries c and d as defined in (2), $pcGDP$ is per-capita GDP, $dist$ is the geodesic distance between the two countries' main cities and $contig$ is a dummy variable set to one for countries that share a common land border. The dependent variable is a log transformation of the GL index, which centers it symmetrically around zero and makes it unbounded.²¹ Specification (7) contains the main variables featuring in most cross-country IIT regressions: the joint income level of the country pair, which is commonly associated with high IIT; the difference in income levels, which is associated with low IIT; and distance measures, which are also associated with low IIT.²²

Table 5 reports full regression results for three sample years, 1965, 1990 and 2006. The model explains between 27 and 41 percent of the sample variance in bilateral IIT, and the findings of numerous previous papers (as well as of the previous two sections of this paper) are confirmed: high-income and proximate country pairs have higher IIT than low-income and/or distant country pairs. This applies across all three types of goods. Only the difference in per-capita GDP does not seem to affect bilateral IIT shares systematically: while there are instances of statistically significant positive as well as negative coefficients, the large majority of estimates are not statistically significantly different from zero.

The main output from this exercise is Figure 24, which traces the annual estimated coefficients on distance and on average GDP per capita over the sample period. Two

²¹ In order not to lose bilateral observations with no IIT, I have set $GL_{cd} = 0.0001$ for all country pairs with zero recorded IIT, this number being slightly lower than the smallest observed non-zero bilateral GL index. The qualitative results are fairly robust to the particular choice of this number.

²² See, e.g., Hummels and Levinsohn (1995), and Bergstrand and Egger (2006).

tendencies are apparent. First, the estimated coefficients on per-capita incomes were generally increasing until around 1982 but have been falling steadily since. This implies that, while IIT continues to be largely confined to high-income countries, this link has been weakening somewhat over the last quarter of a century. In 1982, the estimated elasticity of bilateral IIT with respect to average per-capita GDP ($\hat{\beta}_1$) stood at 2.47, whereas by 2006 it had fallen to 1.62. IIT thus seems to be increasingly characterizing trade involving middle-income and low-income countries as well.

The coefficients on distance, shown in the lower part of Figure 24, have been gradually shrunk in absolute magnitude. While the elasticity of IIT with respect to distance stood at -1.46 in 1965, it had reached a value of -0.70 – still highly statistically significant, but only half as large as some forty years earlier. The reduction in the distance sensitivity of aggregate bilateral IIT has been driven mainly by IIT in intermediate goods. This could be taken as another piece of indicative evidence for the growing weight of intermediate (outward processing) trade in global IIT, and it suggests that two-way intermediates trade on average stretches over larger distances than two-way trade in primary and final goods..

6. Marginal IIT

Figures 25 to 29 illustrate the broad patterns of global MIIT, computed using definitions (5) and (6), and Table 4 lists MIIT indices by country. All trade values underlying the reported indices are converted into constant prices using the US GDP deflator.

First, I report aggregate MIIT indices for each of my five sample decades (the “1960s” starting in 1962 and the “2000s” ending in 2006), taking three adjacent years for the base and end periods in order to smooth out any year-specific variations. What emerges in Figure 25 is a remarkably stable level of MIIT. On average, about one fifth of trade expansion was in the form of bilaterally matched import and export changes at the 5-digit level. Hence, the bulk of trade changes involve inter-industry adjustments. The observed secular increase in IIT therefore was not accompanied by an equivalent rise in MIIT. While

static IIT has been increasing strongly, the pressures for intersectoral factor reallocations implied by this trade expansion do not appear to have lessened proportionally over time.²³

In Figures 26 to 29, decade-by-decade MIIT is shown separately for country groups by income level and for sector groups by processing stage. Two patterns emerge very clearly: averaged across product groups, MIIT is highest among the high-income countries; and averaged across countries, MIIT is highest in the intermediate goods category. Adjustment to trade expansion is thus likely to be smoother for trade among high-income countries and in intermediate-good sectors.

Of all the cases distinguished in Figures 26 to 29, the highest level of MIIT (0.37) is observed for trade between middle-income and high-income countries in intermediate goods in the 1990s. Once again, this evidence suggests that outward processing trade is the main driving force toward higher observed increases in IIT and MIIT in recent years.

Table 5 shows MIIT measures country-by-country for three long periods of some 15 years each, using the “wide coverage” sample. Countries are sorted in decreasing order of their share in average gross changes in global trade volumes over the total 1962-2006 interval. I find that the large industrialized countries again feature at the top of the list. The most sectorally balanced trade expansion over the full interval is recorded for Austria (MIIT index of 0.45). In the 1990-2006 sub-period the highest value is obtained for Hungary (MIIT index of 0.51), followed by Austria (0.49) and Canada (0.45). For most countries, however, MIIT is tiny. Over the 1990-2006 subperiod, 141 of the 190 sample countries have an MIIT index below 0.1, suggesting that more than 90 percent of their trade changes (generally in the form of expansion) implied reallocations between rather than within 5-digit industries.²⁴ For most countries, therefore, trade expansion continues to entail primarily inter-industry adjustments.

7. Concluding Comments

²³ It does however appear that MIIT was considerably higher in the 1990s than in the three previous decades, and the apparent drop in MIIT in the 2000s could be due to the shorter time interval considered. This may therefore suggest that MIIT is on the rise too, but with a certain lag compared to the increases in IIT.

²⁴ I can compute MIIT only for 190 of the 214 countries in the “wide coverage” data set, because I need to observe trade for both the base and the end year.

This paper provides a comprehensive description of global IIT patterns. A number of broad results emerge:

- The share of IIT is on a secular upward trend, suggesting a gradual convergence of the sector composition of national economies worldwide.
- The increase in IIT and the implied structural convergence are a high-income and middle-income phenomenon: while some, mainly Asian, lower-income countries exhibit rapidly increasing IIT shares, Africa has largely been excluded from this trend.
- Many indications point toward the importance of outward processing trade in explaining recent rises in IIT.
- The observed increase in IIT does not necessarily imply lower adjustment costs to trade expansion. MIIT is significantly lower than IIT, and no clear time trend is discernible for MIIT.

The richness and detail of global trade data open the door to many conceivable extensions of this work. One potential avenue would be to explore not just bilateral IIT, but trilateral or more generally multilateral trade flows within the same industry. This is of particular relevance for an analysis of the global dispersion of product chains via outward processing trade. Another possibly fruitful extension would be to explore the link between (M)IIT and factor reallocation in developing-country settings, all of the existing evidence on the “smooth-adjustment hypothesis” being based on data for developed economies.

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Figure 1: IIT, MIIT, and Trade Changes

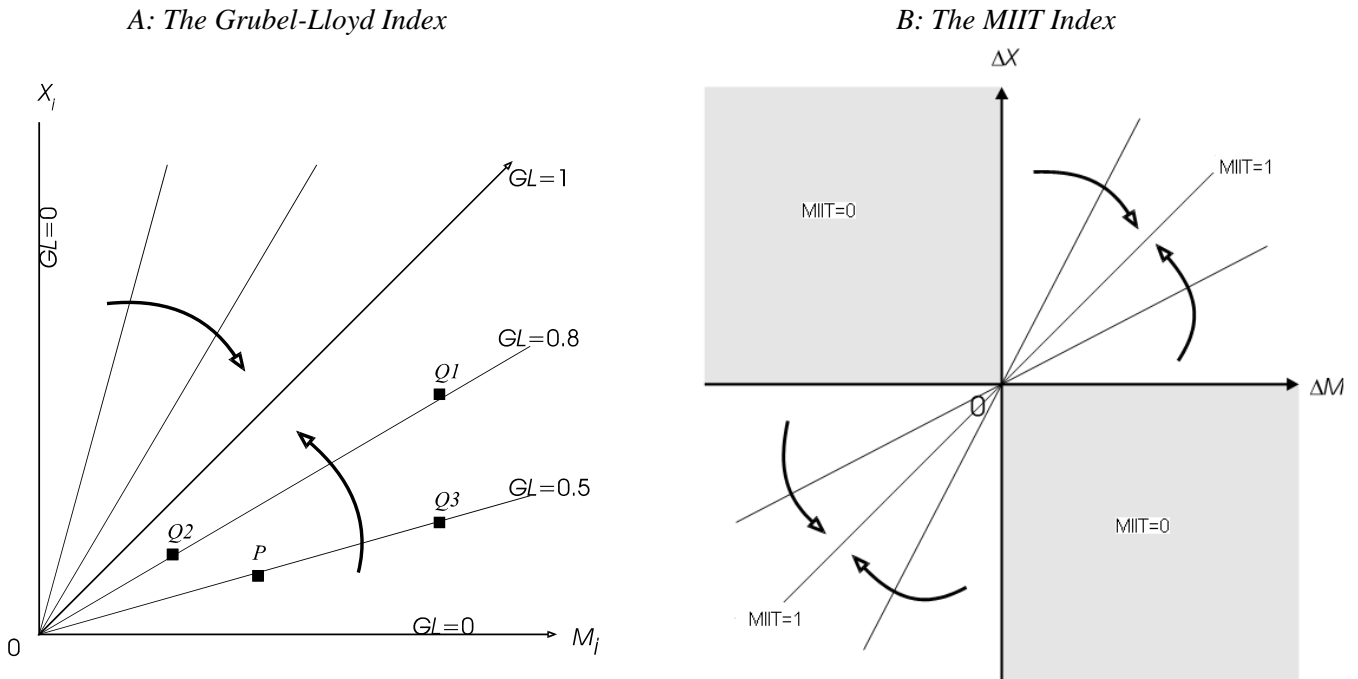
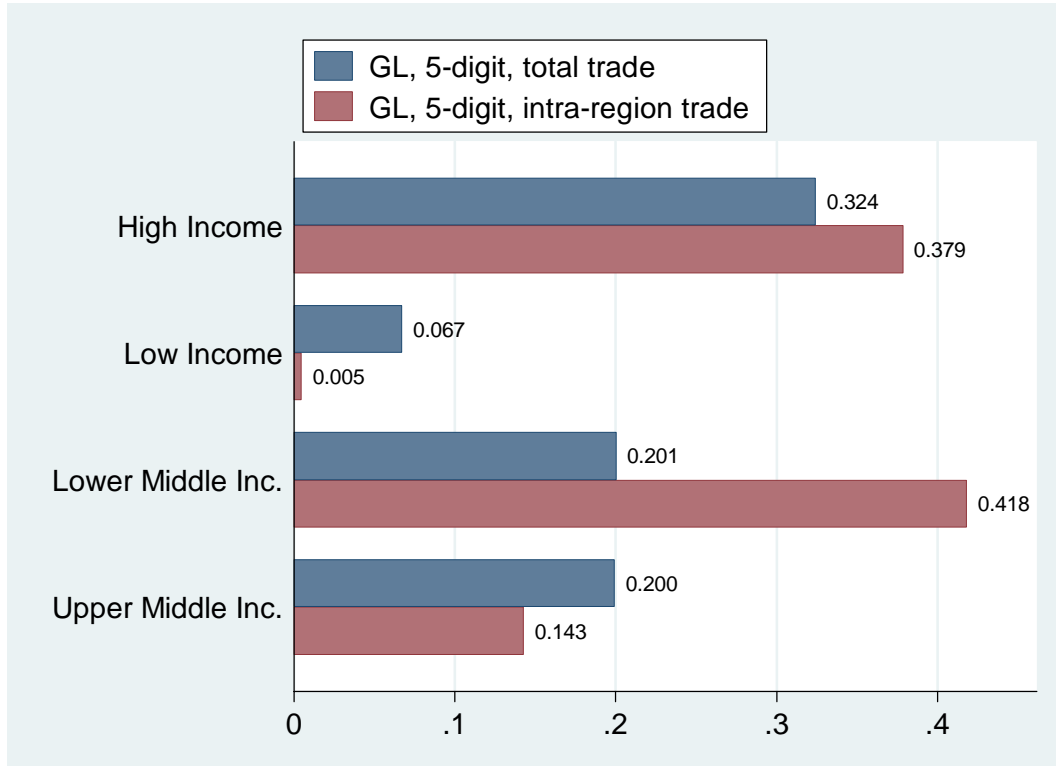
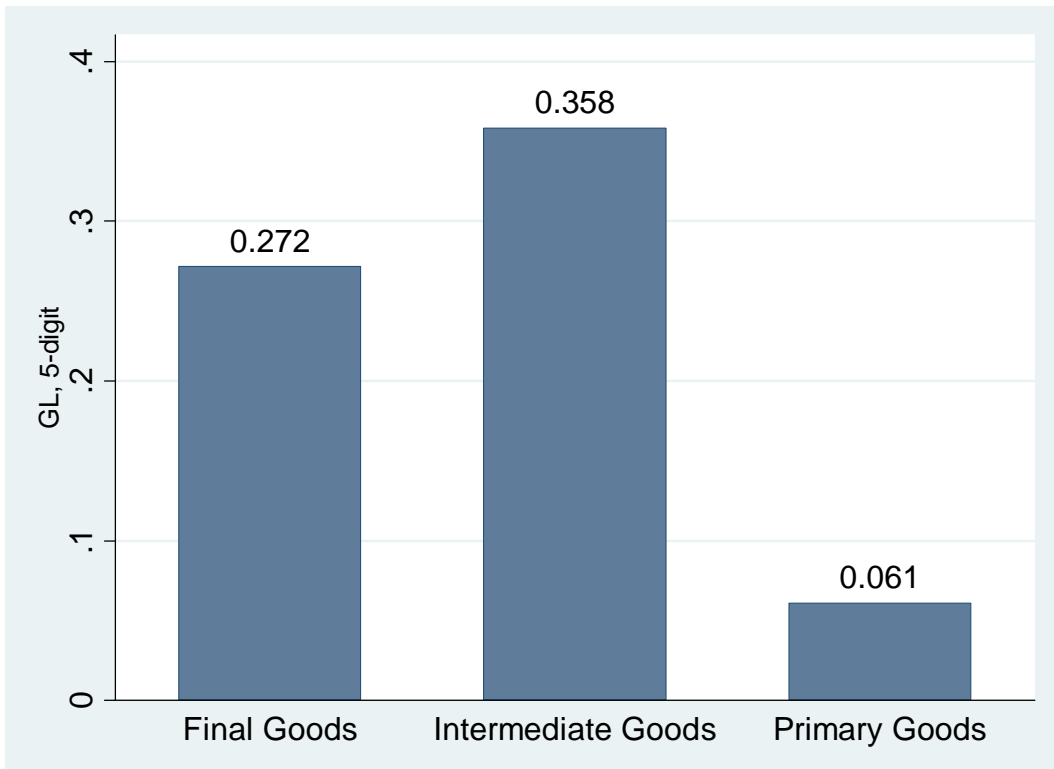


Figure 2: IIT by Income Group, 2006



Notes: Country grouping according to World Bank categorization (see Table 1); “wide coverage” data set

Figure 3: IIT by Product Group, 2006



Notes: Product grouping according to United Nations “Broad Economic Categories”; “wide coverage” data set

Figure 4: Evolution of Global IIT, 1962-2006 (“Long Coverage” Sample)

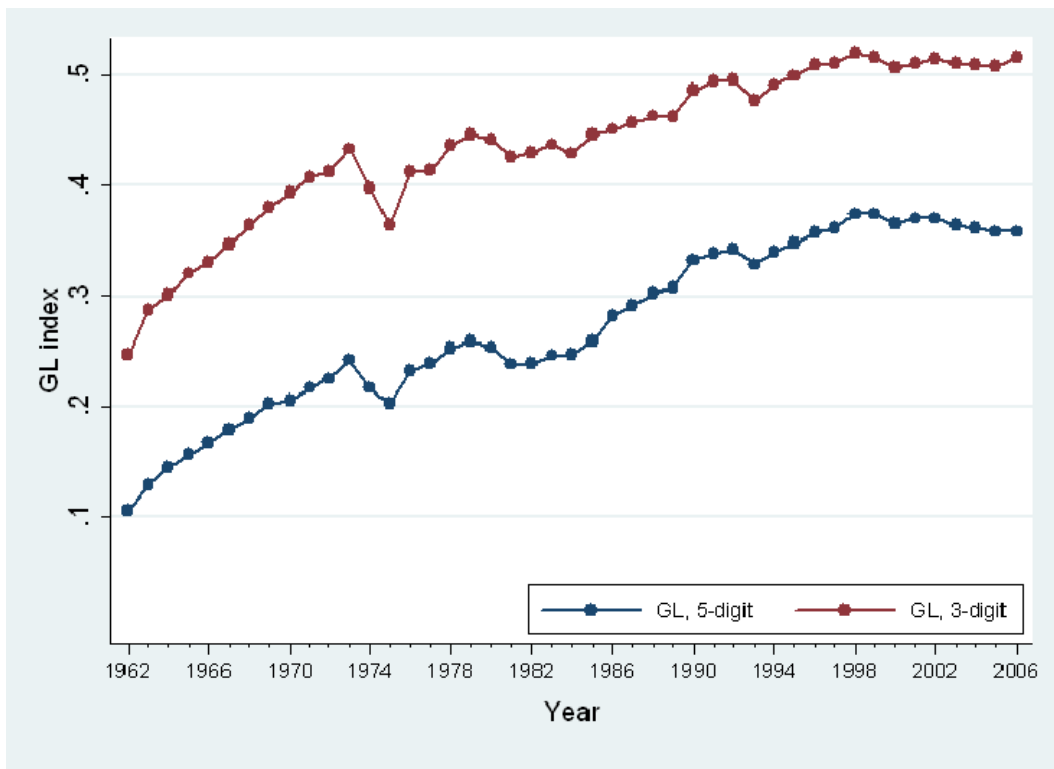


Figure 5: Global IIT in 1962, 1975, 1990 and 2006 (“Wide Coverage” Sample)

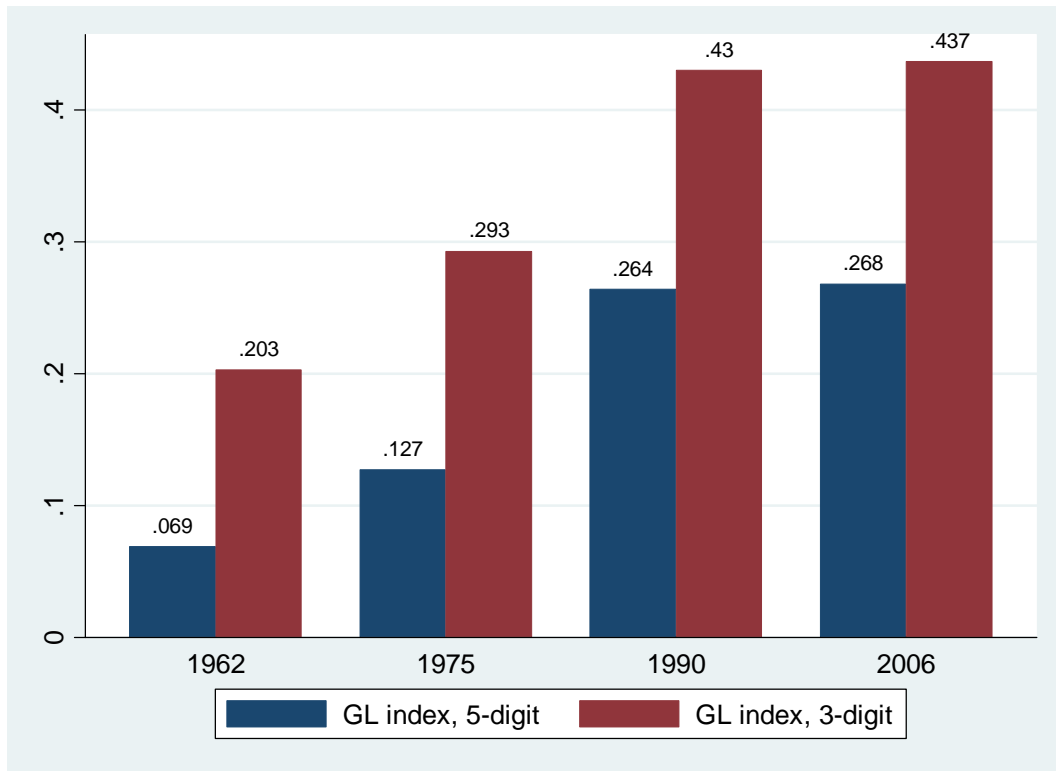
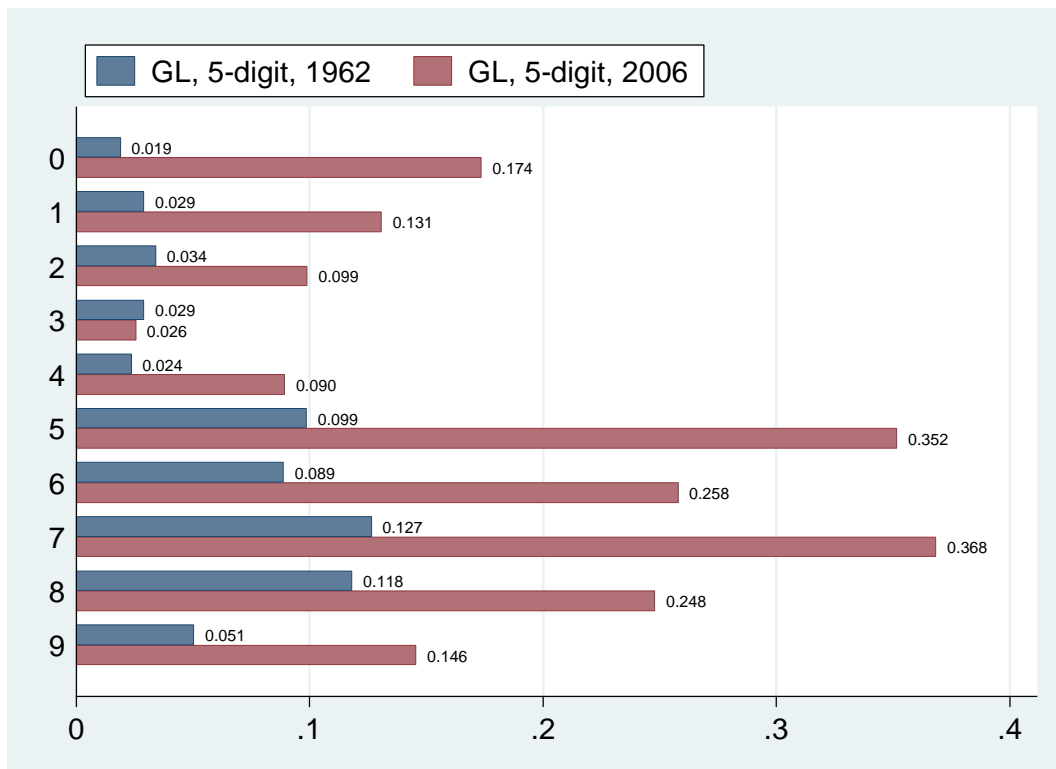
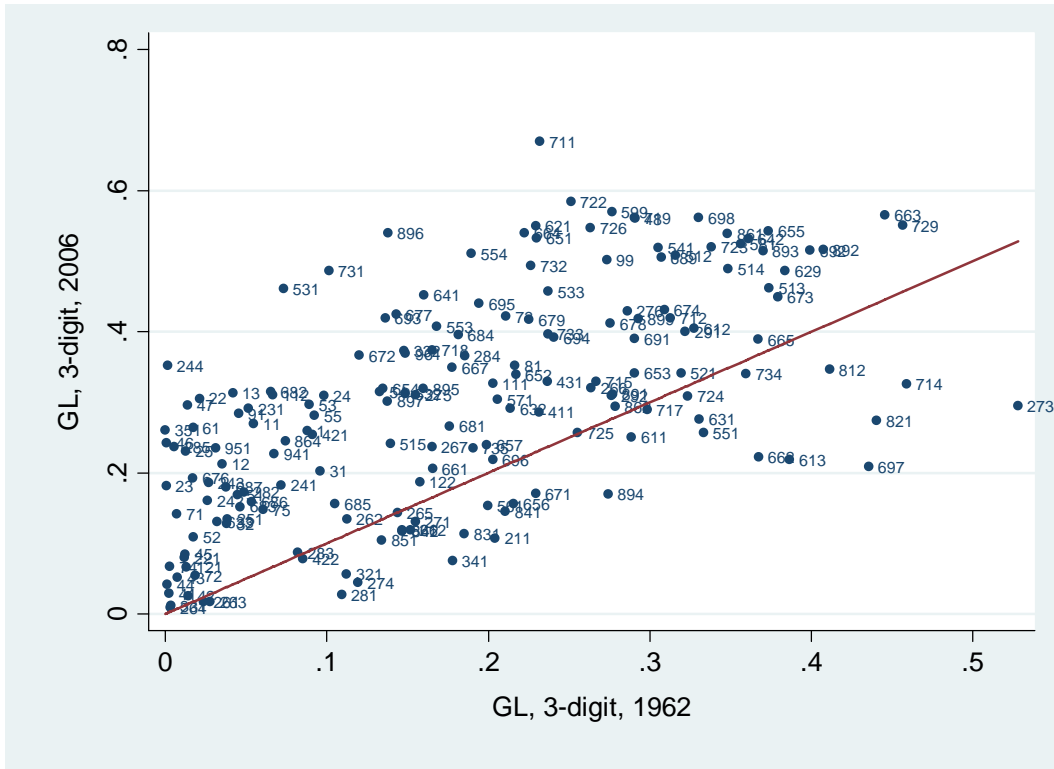


Figure 6: Global IIT by SITC 1-digit Sector, 1962 and 2006



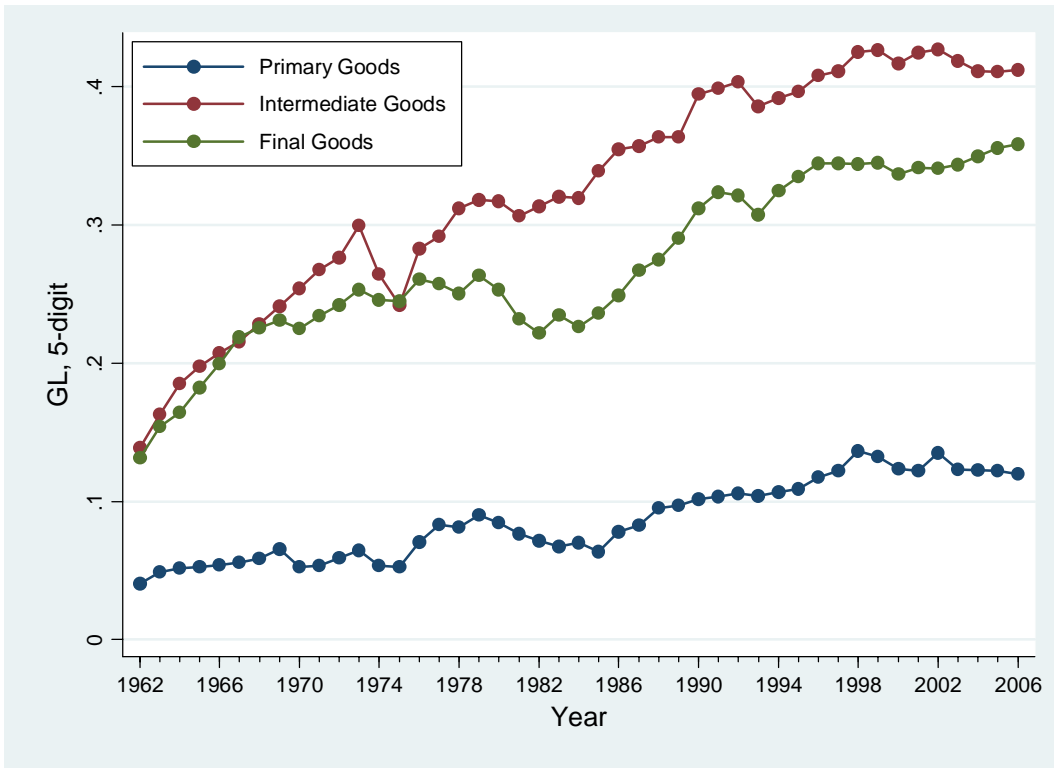
Notes: “wide coverage” data set; SITC 1-digit sectors: 0 – Food and Live Animals, 1 – Beverages and Tobacco, 2 – Crude Materials Excluding Fuels, 3 – Mineral Fuels Etc., 4 – Animal & Vegetable Oils & Fats, 5 – Chemicals, 6 – Basic Manufactures, 7 – Machines & Transport Equipment, 8 – Misc. Manufactures, 9 – Goods Not Classified by Kind

Figure 7: Global by SITC 3-Digit Sector, 1962 and 2006



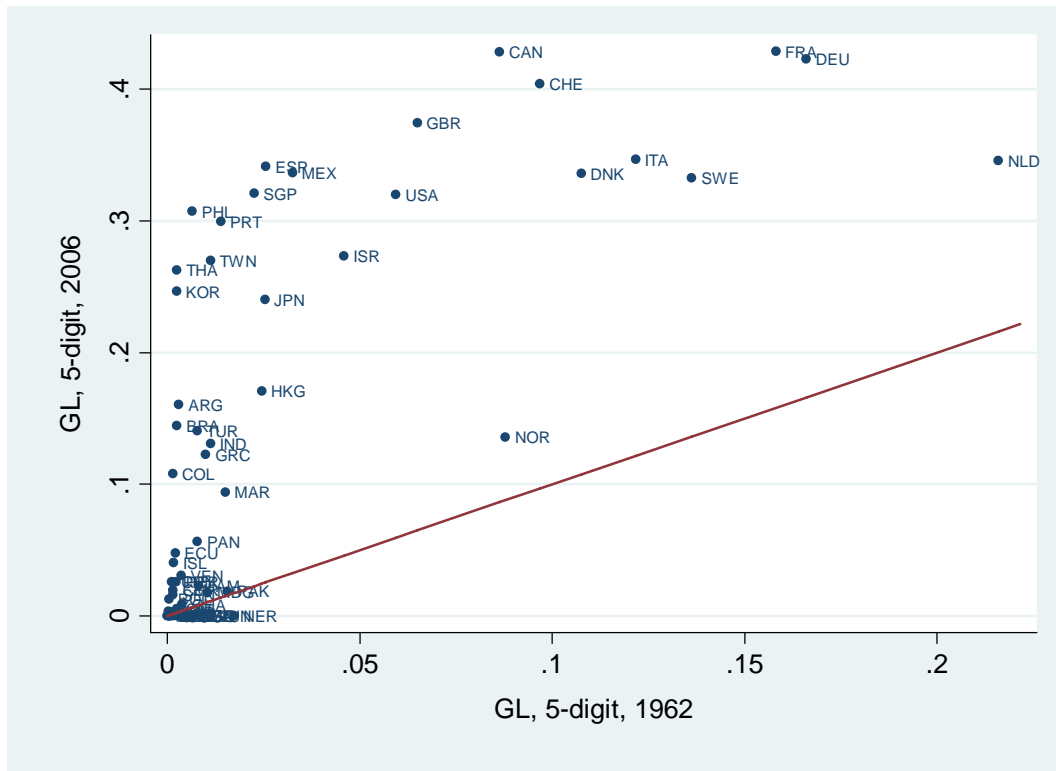
Note: “wide coverage” data set; for sector names see Table 2

Figure 8: Evolution of Global IIT by Product Group, 1962-2006



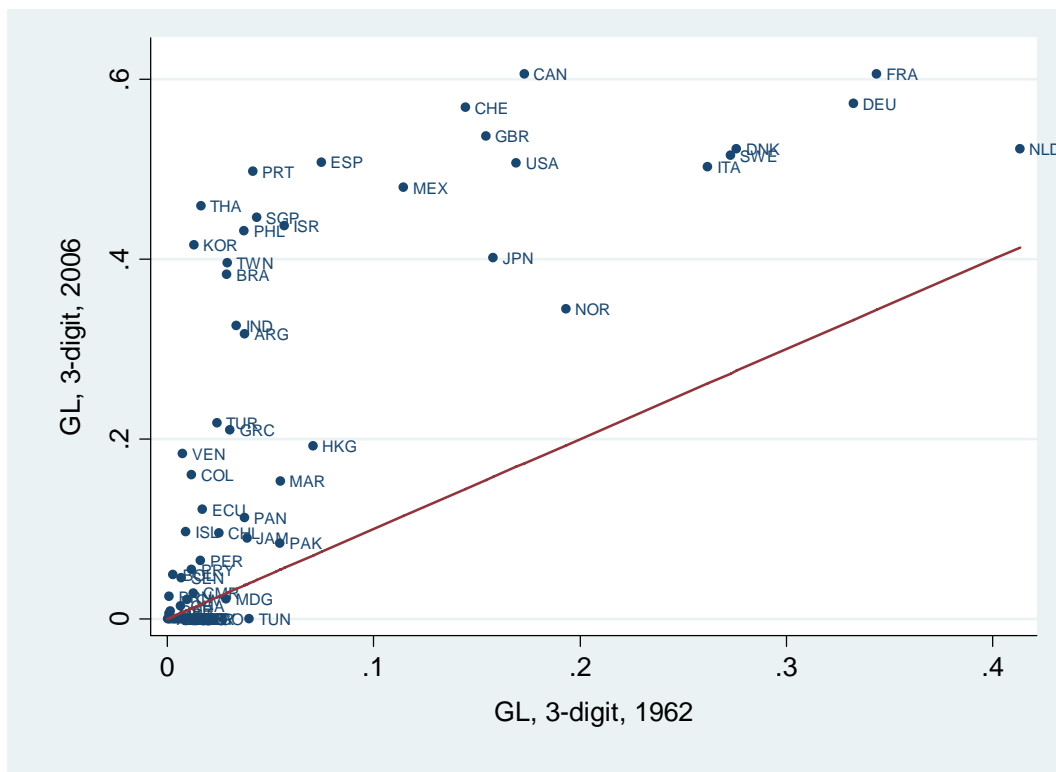
Notes: Product grouping according to United Nations “Broad Economic Categories”; “long coverage” data set

Figure 9: Global IIT by Country, SITC 5-Digit, 1962 and 2006



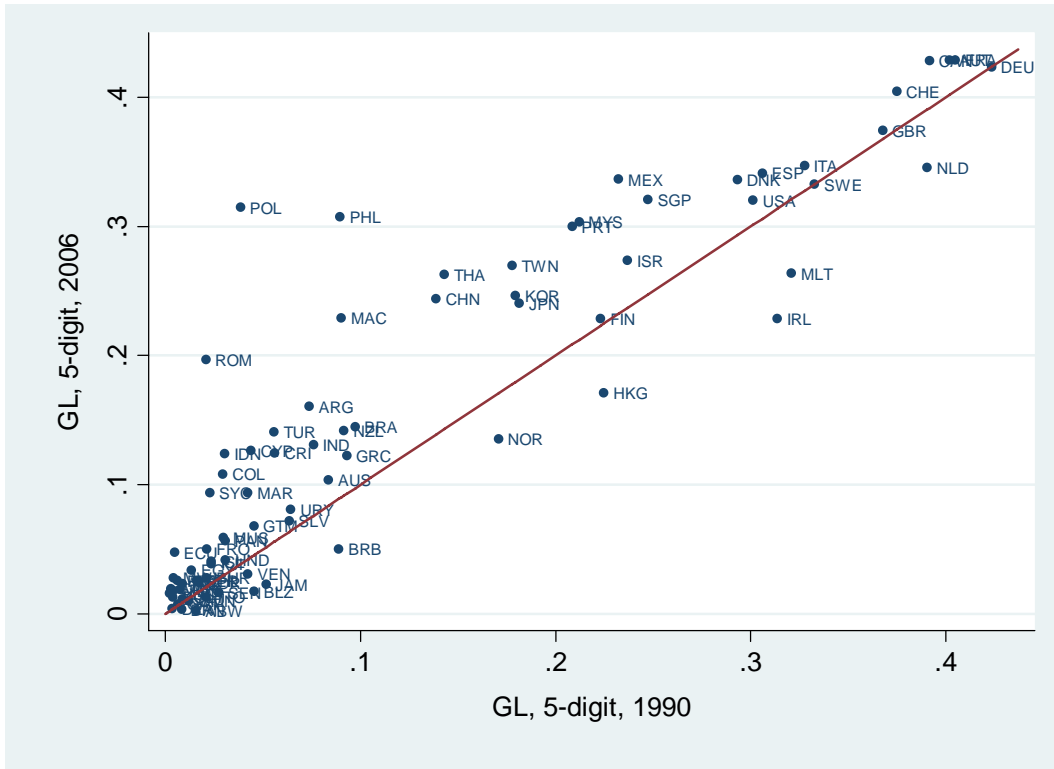
Note: "wide coverage" data set

Figure 10: Global IIT by Country, SITC 3-Digit, 1962 and 2006



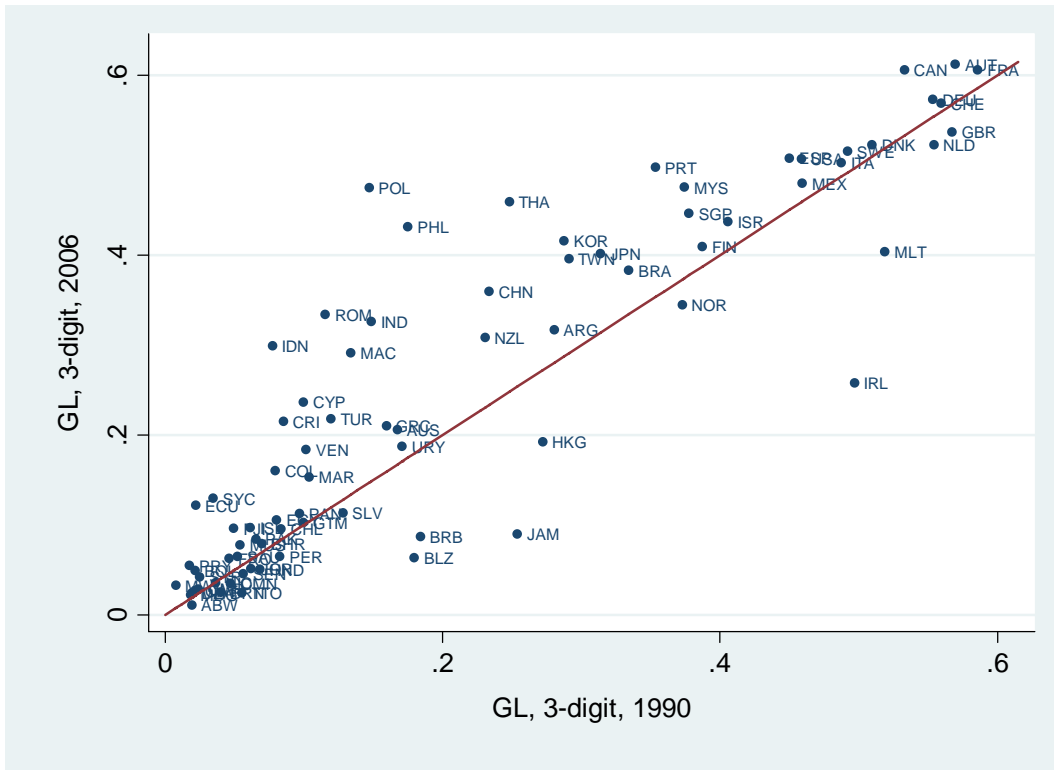
Note: "wide coverage" data set

Figure 11: Global IIT by Country, SITC 5-Digit, 1990 and 2006



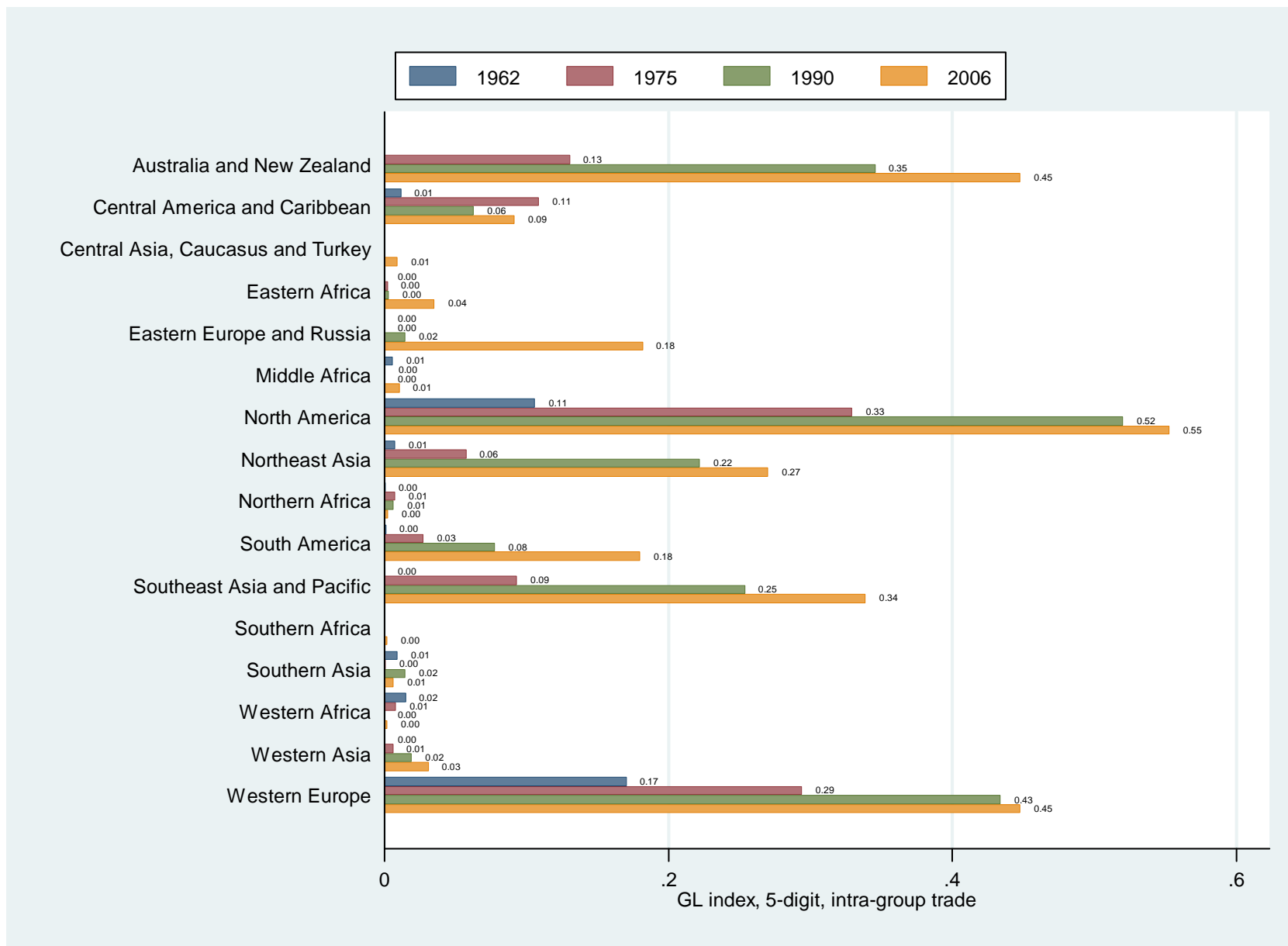
Note: "wide coverage" data set

Figure 12: Global IIT by Country, SITC 3-Digit, 1990 and 2006



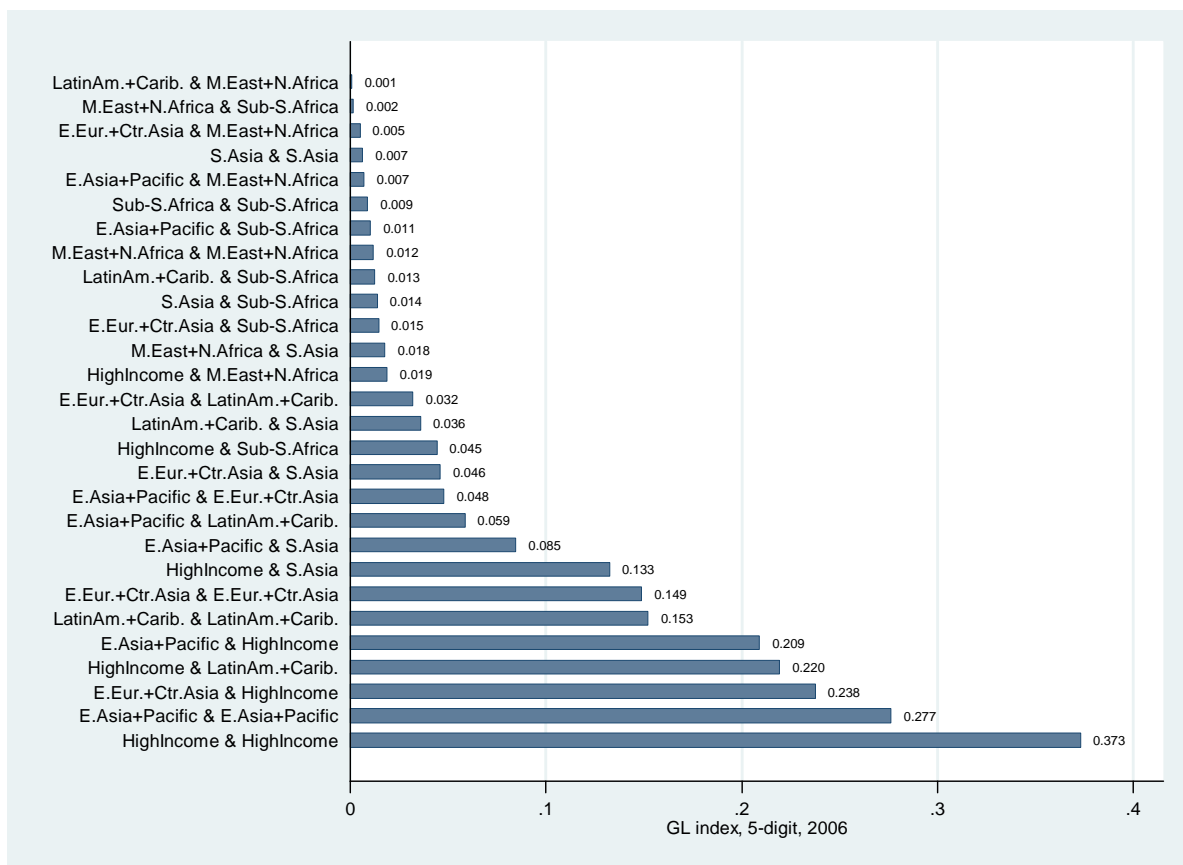
Note: "wide coverage" data set

Figure 13: IIT within World Regions; 1962, 1975, 1990 and 2006



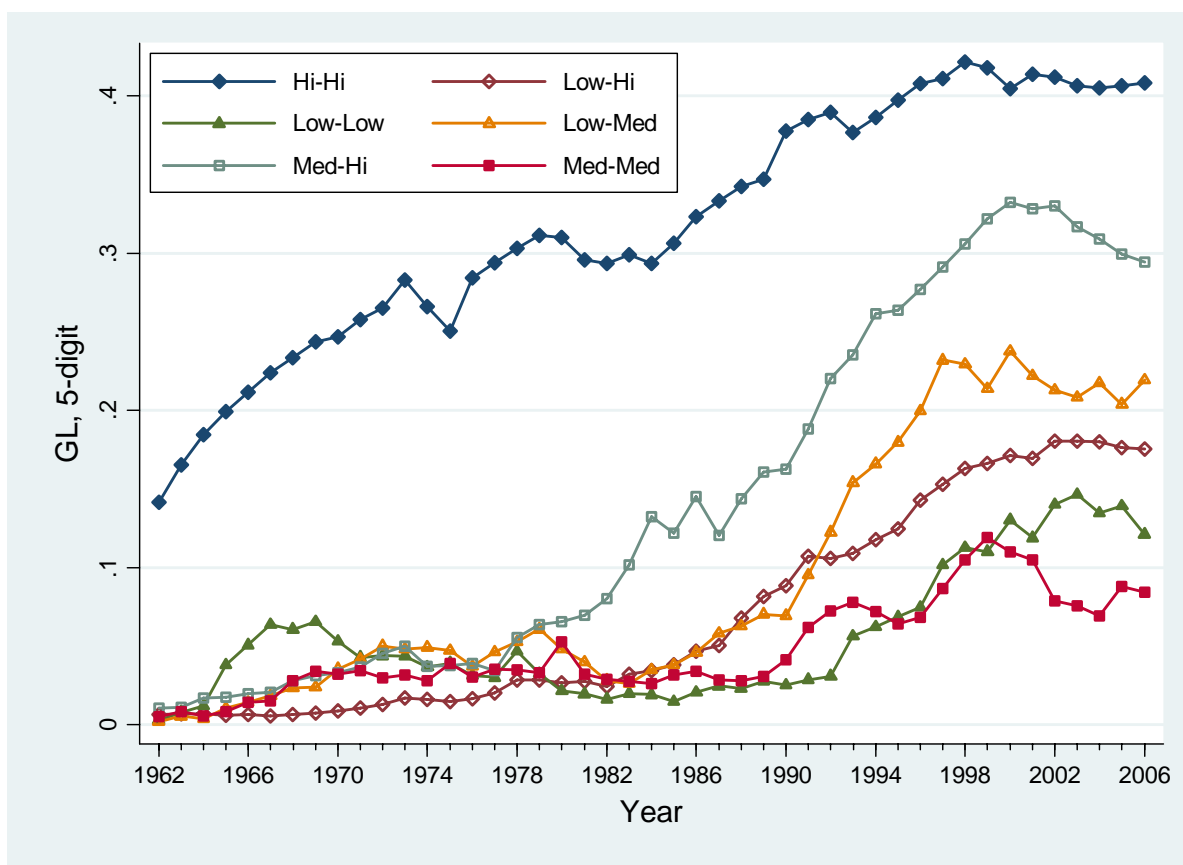
Notes: Country grouping according to World Bank categorization (see Table 1); “wide coverage” data set

Figure 14: IIT between World Regions; 2006



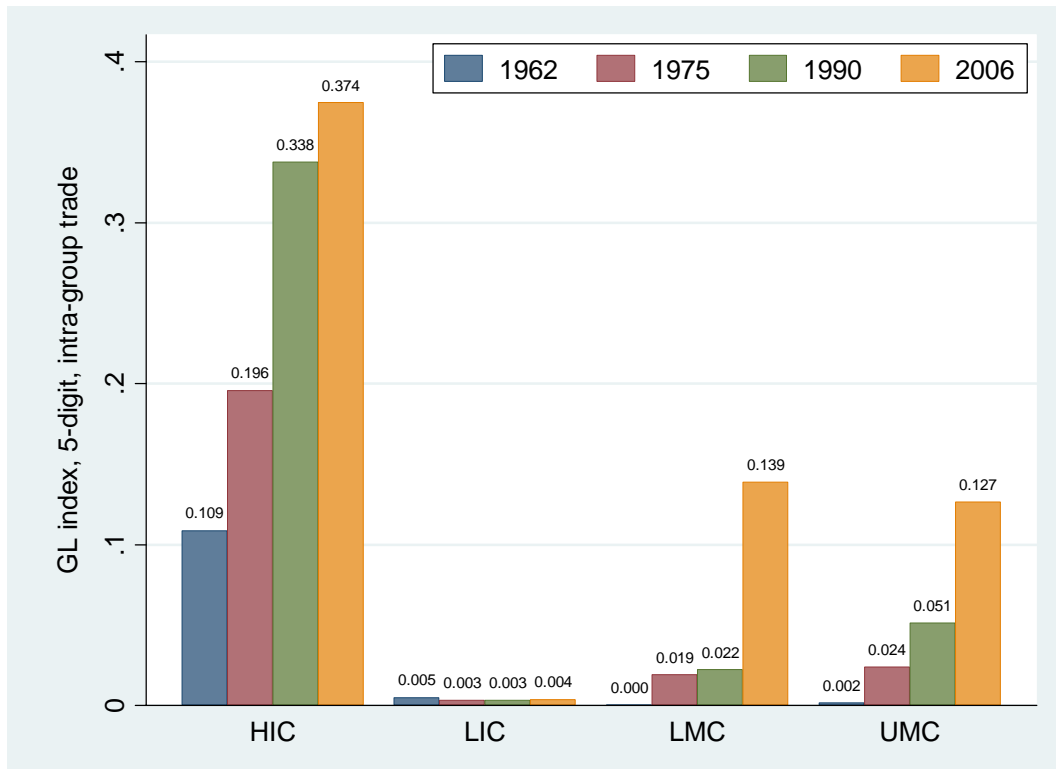
Notes: Country grouping according to World Bank categorization (see Table 1); “wide coverage” data set

Figure 15: Evolution of Global IIT by Income Group, 1962-2006



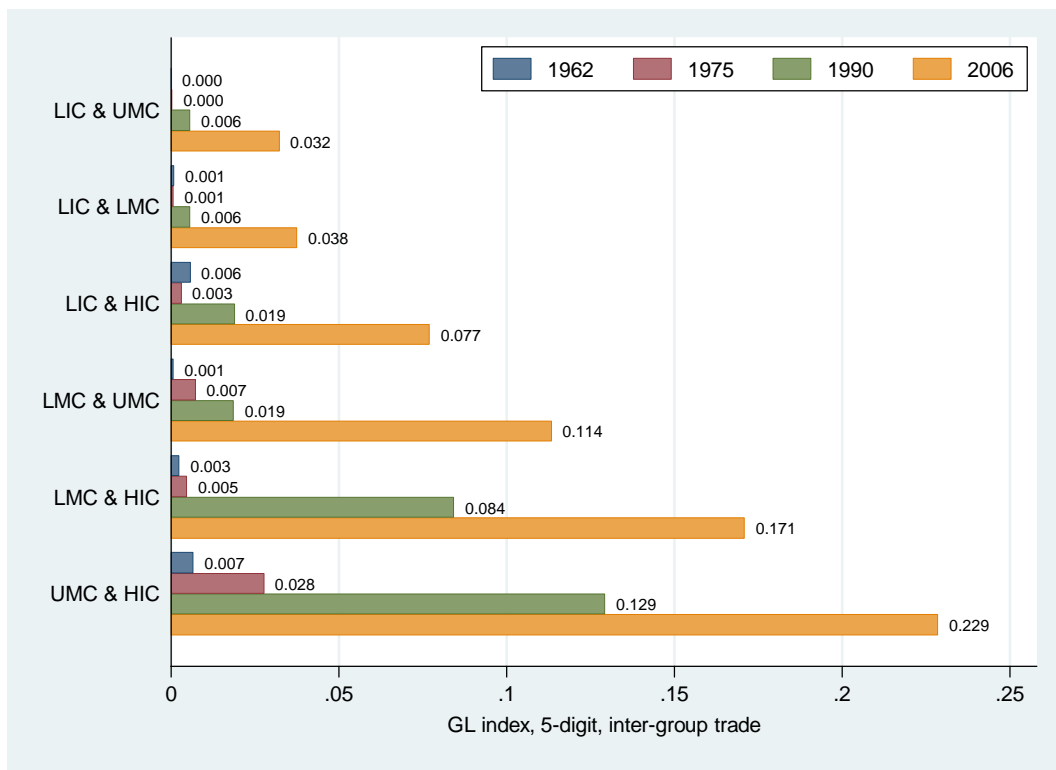
Notes: Country grouping according to World Bank categorization (see Table 1); “long coverage” data set

Figure 16: IIT within Income Groups; 1962, 1975, 1990 and 2006



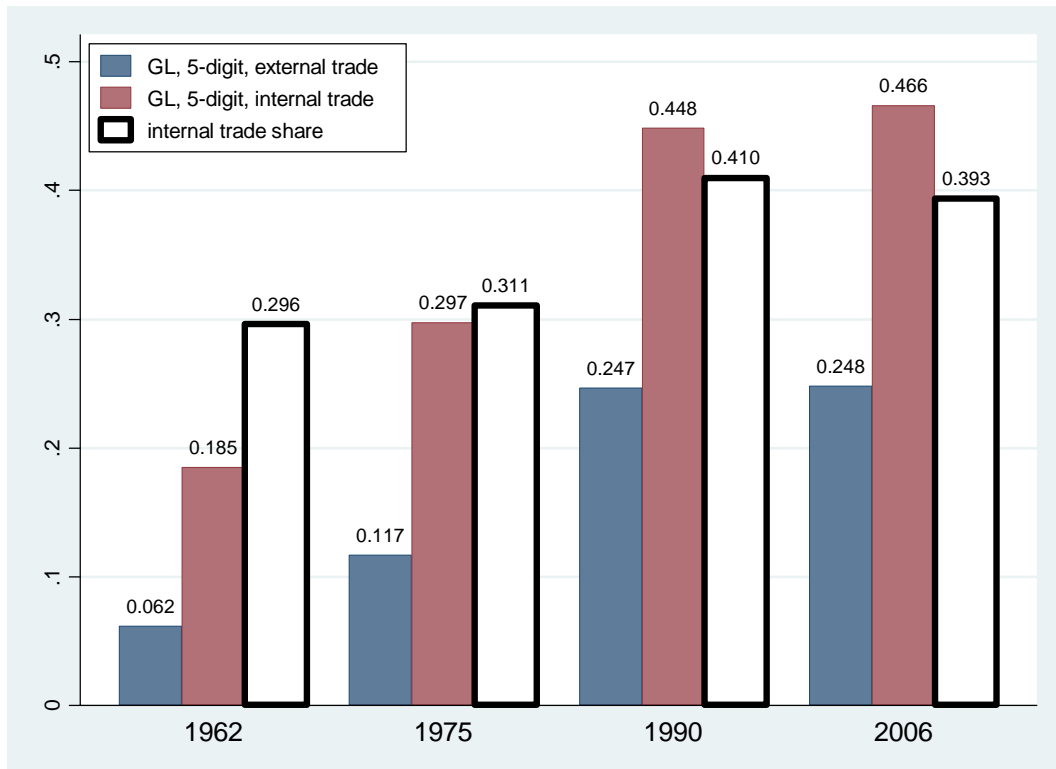
Notes: Country grouping according to World Bank categorization (see Table 1); “wide coverage” data set

Figure 17: IIT between Income Groups; 1962, 1975, 1990 and 2006



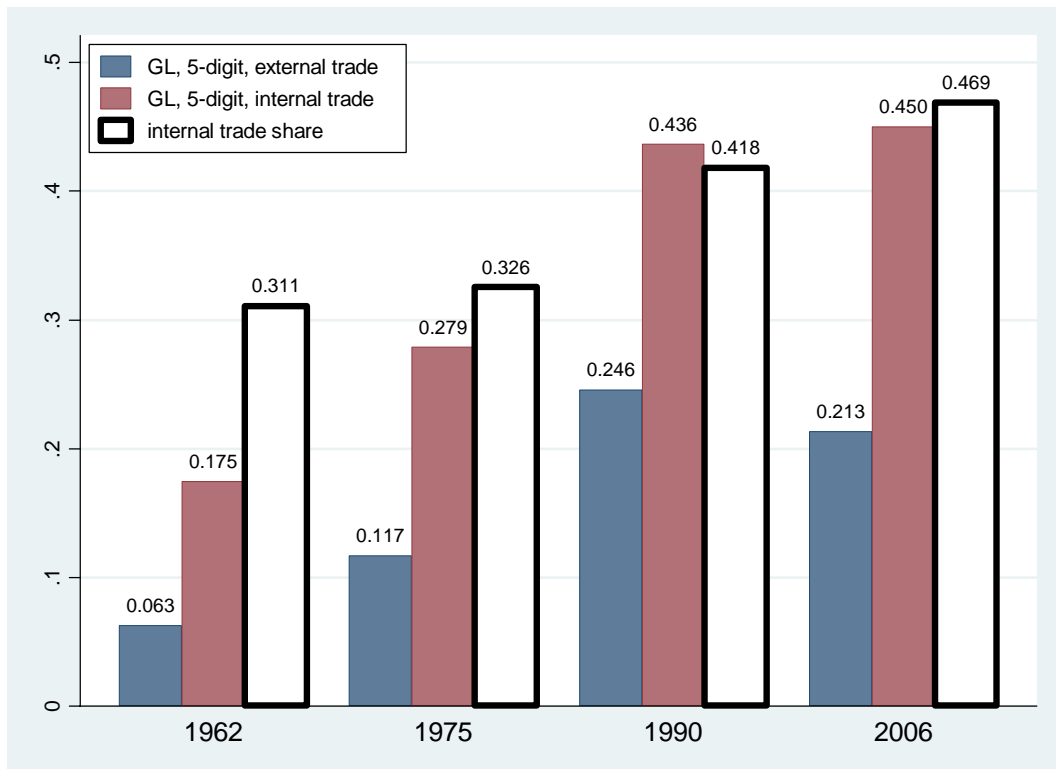
Notes: Country grouping according to World Bank categorization (see Table 1); “wide coverage” data set

Figure 18 IIT of the EU-15; 1962, 1975, 1990 and 2006



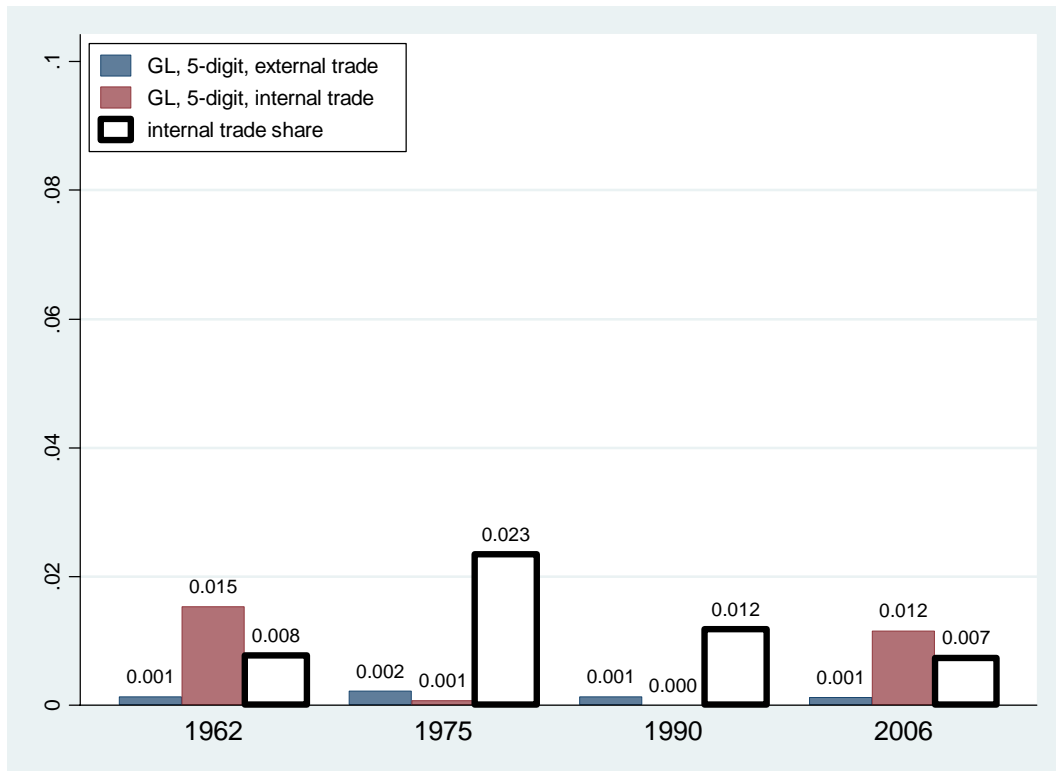
Notes: “wide coverage” data set; EU 15 (since 1995): Austria, Belgium, Denmark, Finland, France, Germany, Greece, Ireland, Italy, Luxembourg, Netherlands, Portugal, Spain, Sweden, United Kingdom

Figure 19 IIT of the EU-27; 1962, 1975, 1990 and 2006



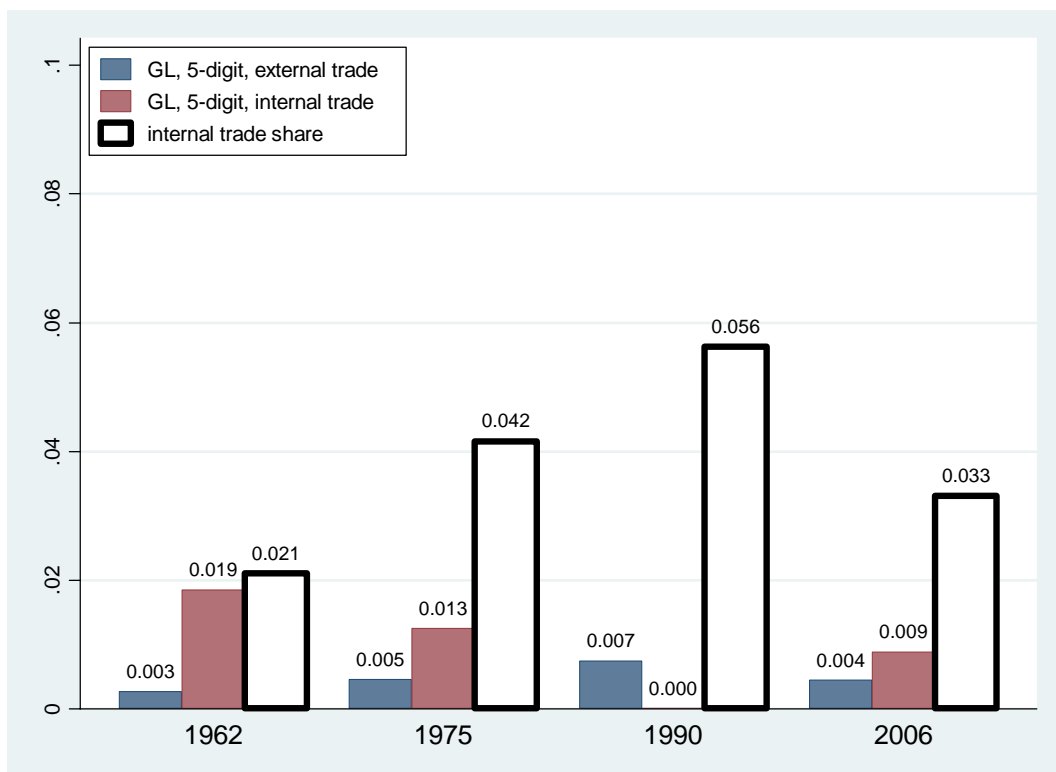
Notes: “wide coverage” data set; EU-27 (since 2007): EU-15 + Bulgaria, Cyprus, Czech Republic, Estonia, Hungary, Latvia, Lithuania, Malta, Poland, Romania, Slovakia, Slovenia

Figure 20: IIT of the Central African Economic and Monetary Community (CEMAC); 1962, 1975, 1990 and 2006



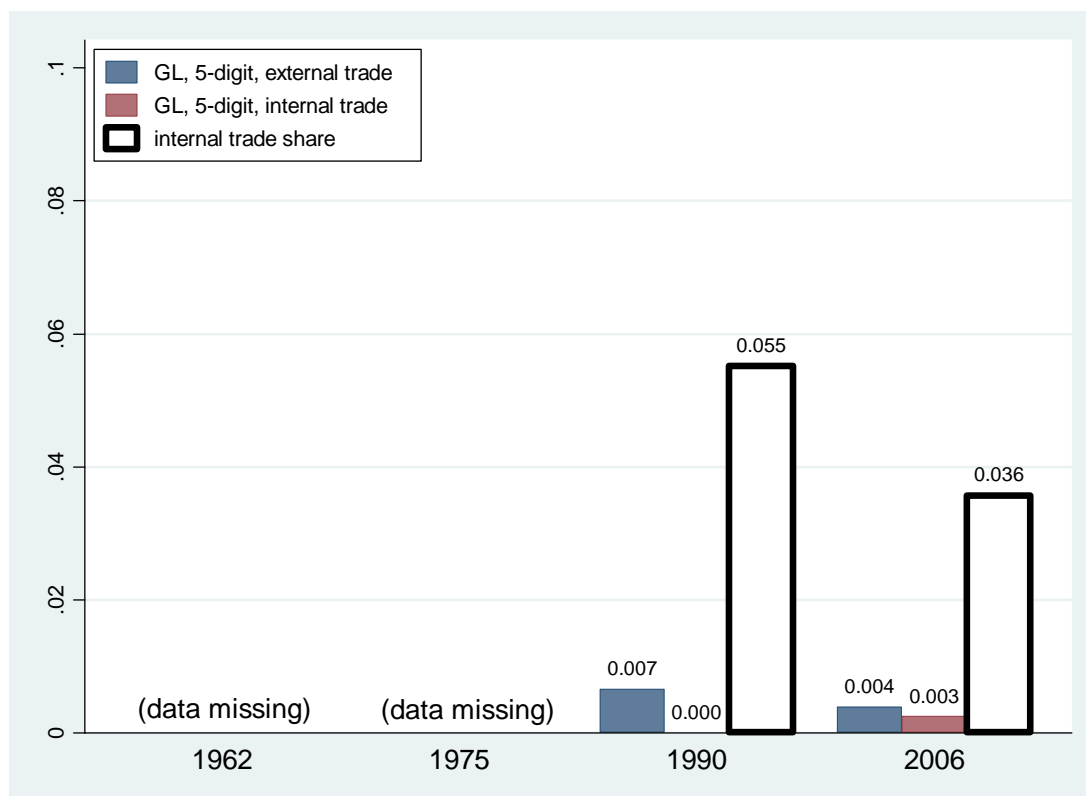
Notes: “wide coverage” data set; CEMAC (since 1999): Cameroon, Central African Republic, Chad, Republic of Congo, Equatorial Guinea, Gabon

Figure 21: IIT of the West African Economic and Monetary Union (WAEMU); 1962, 1975, 1990 and 2006



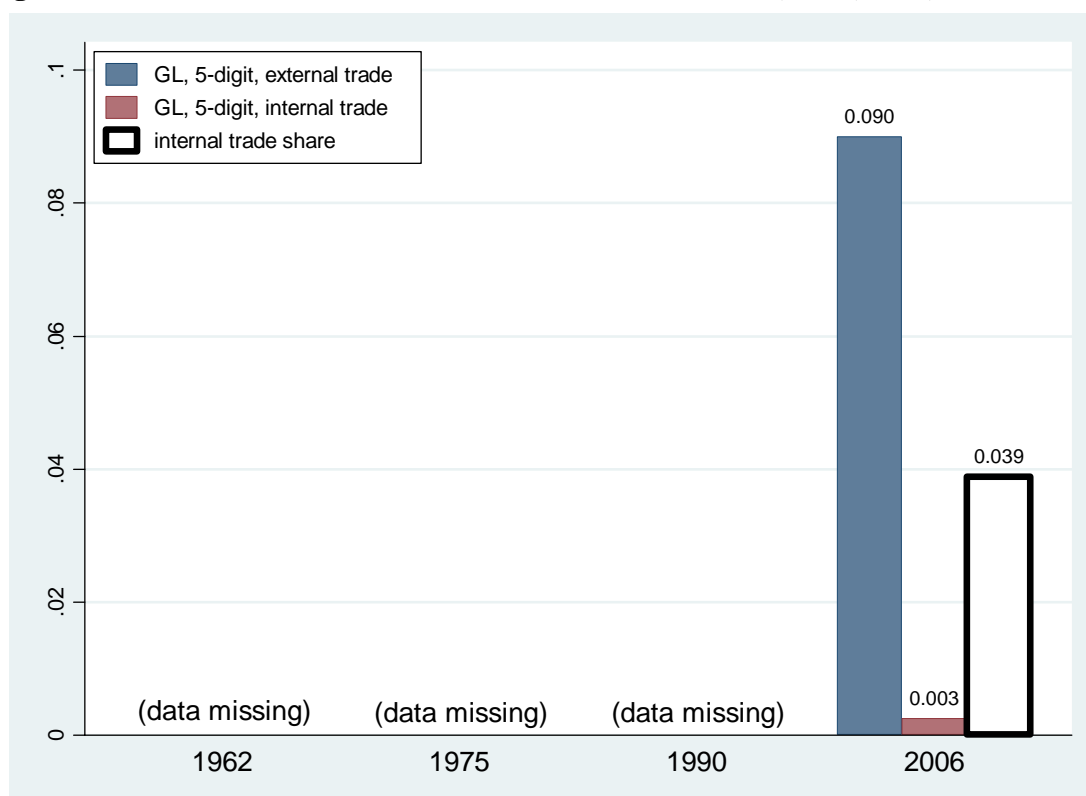
Notes: “wide coverage” data set; WAEMU (since 1997): Benin, Burkina Faso, Côte d’Ivoire, Guinea-Bissau, Mali, Niger, Senegal, Togo

Figure 22: IIT of the East African Community (EAC); 1962, 1975, 1990 and 2006



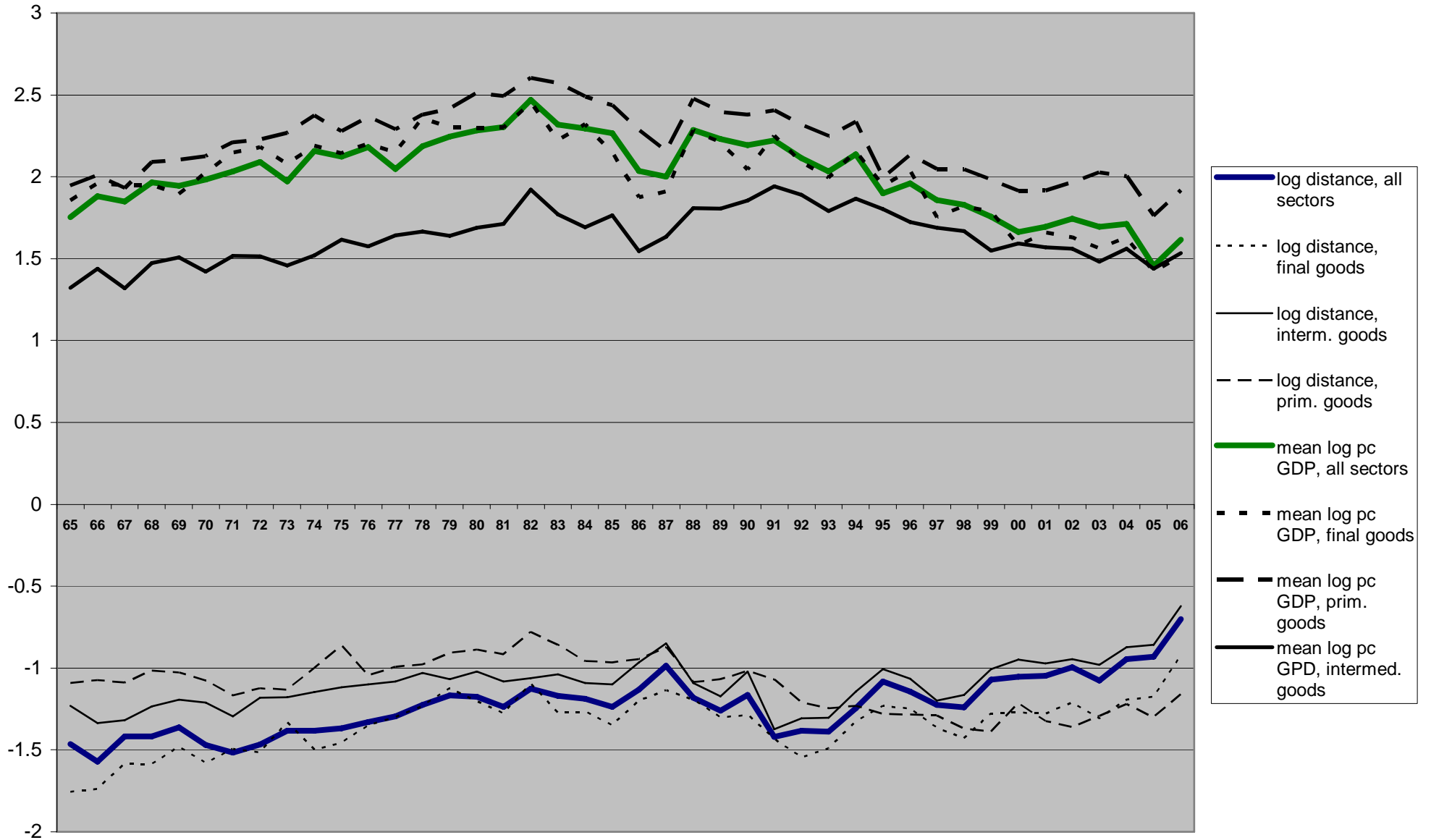
Notes: "wide coverage" data set; EAC (since 2007): Burundi, Kenya, Rwanda, Tanzania, Uganda

Figure 23: IIT of the Southern African Customs Union (SACU); 1962, 1975, 1990 and 2006



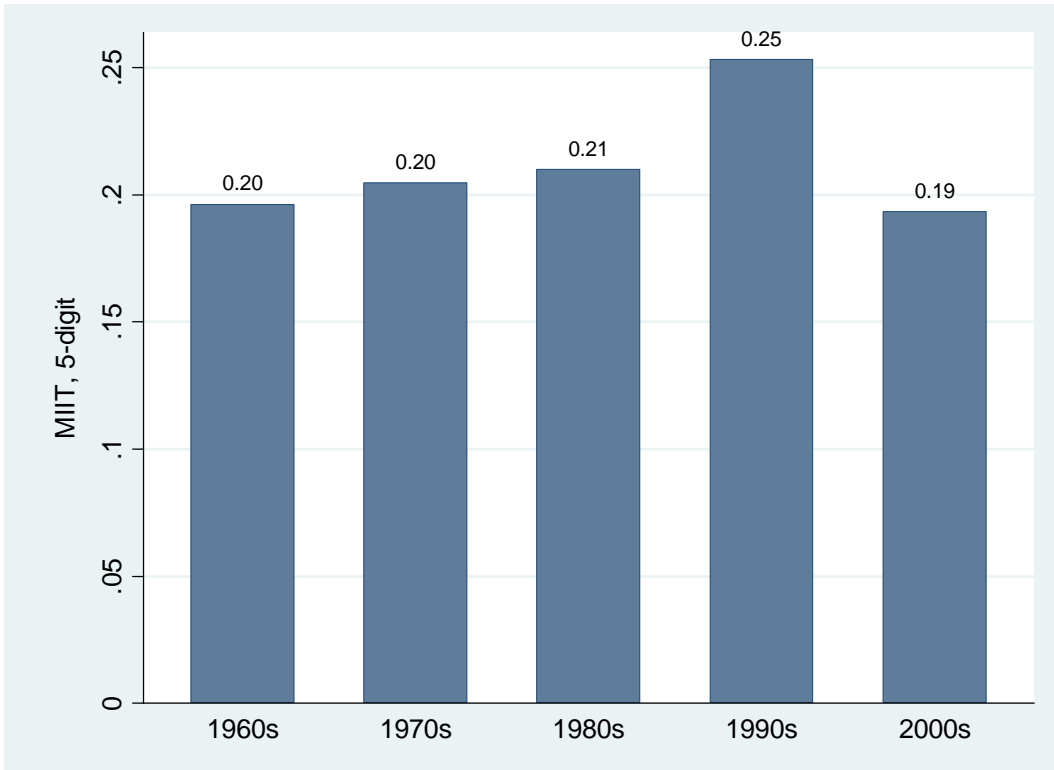
Notes: "wide coverage" data set; SACU (since 1990): Botswana, Lesotho, Namibia, South Africa, Swaziland

Figure 24: Sensitivity of IIT to Distance and Income, 1965-2006



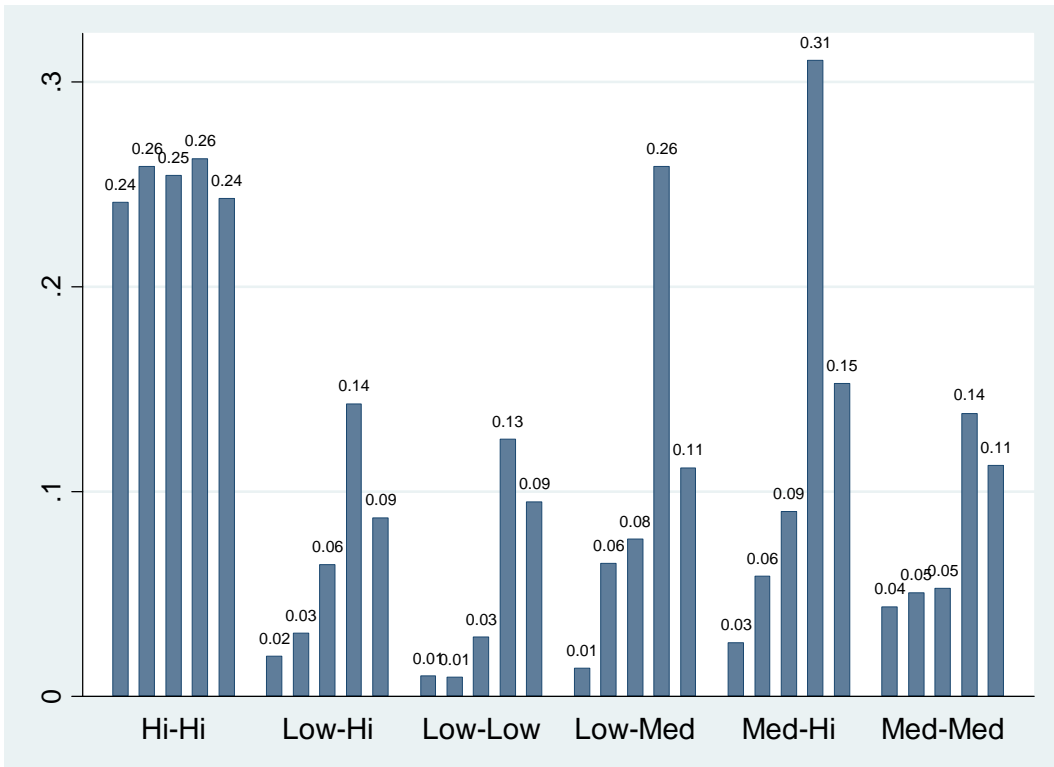
Notes: Coefficients from annual cross-section regressions analogous to those reported in Table 4.

Figure 25: Global MIIT over Five Decades



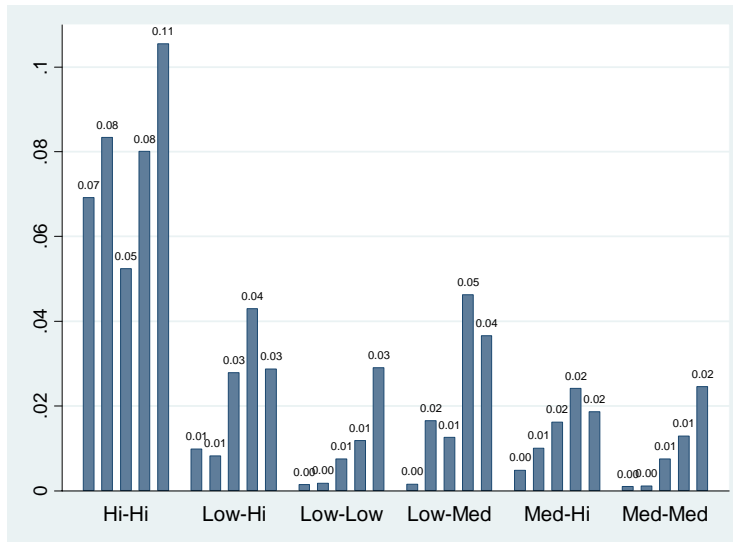
Notes: “long coverage” data set; data converted into constant prices using US GDP deflator; base and end periods are averages of three adjacent years

Figure 26: MIIT by Income Group



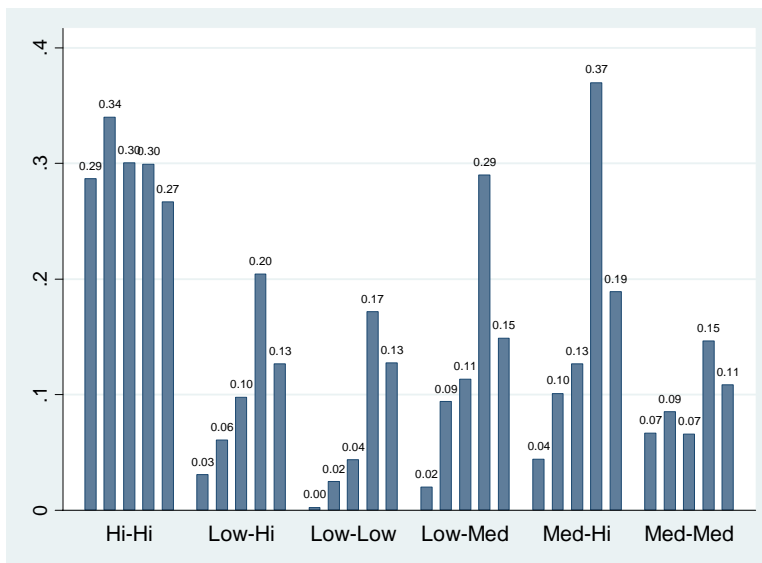
Notes: Country grouping according to World Bank categorization (see Table 1, “Low” category is combination of LIC and LMC); “long coverage” data set; data converted into constant prices using US GDP deflator; base and end periods are averages of three adjacent years

Figure 27: MIIT by Income Group, Primary Goods



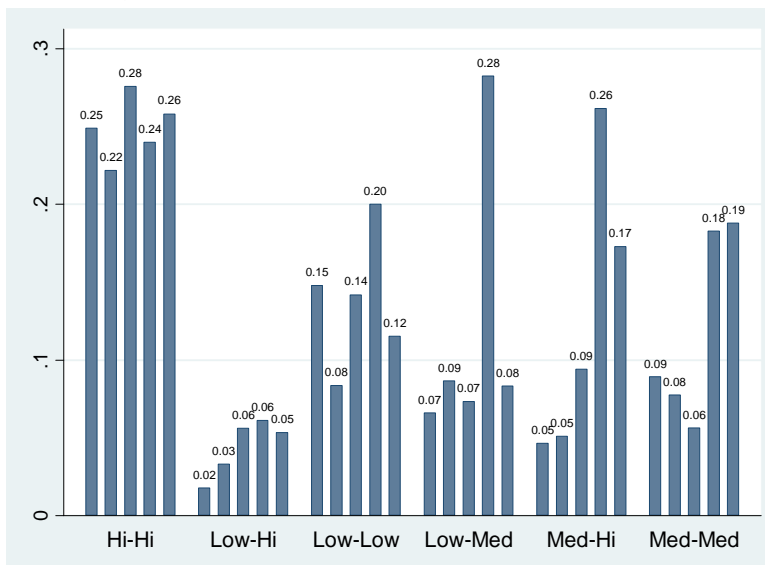
Notes: Country grouping according to World Bank categorization (see Table 1, “Low” category = LIC + LMC); product grouping according to United Nations “Broad Economic Categories”; “long coverage” data set; data converted into constant prices using US GDP deflator; base and end periods are averages of three adjacent years

Figure 28: MIIT by Income Group, Intermediate Goods



Notes: Country grouping according to World Bank categorization (see Table 1, “Low” category = LIC + LMC); product grouping according to United Nations “Broad Economic Categories”; “long coverage” data set; data converted into constant prices using US GDP deflator; base and end periods are averages of three adjacent years

Figure 29: MIIT by Income Group, Final Goods



Notes: Country grouping according to World Bank categorization (see Table 1, “Low” category = LIC + LMC); product grouping according to United Nations “Broad Economic Categories”; “long coverage” data set; data converted into constant prices using US GDP deflator; base and end periods are averages of three adjacent years

Table 1: Total Trade and IIT in 2006, by Country
(sorted in decreasing order of % of world trade, “wide coverage” data set)

| Country | % of world trade | % of 5-digit sectors traded | GL index, 5-digit | GL index, 3-digit | W. Bank income group | World Bank region |
|----------------------|------------------|-----------------------------|-------------------|-------------------|----------------------|-------------------------------|
| United States | 13.20457 | 100.0 | 0.317 | 0.503 | HIC | North America |
| China | 9.67536 | 99.8 | 0.182 | 0.305 | LMC | Northeast Asia |
| Germany | 9.39718 | 99.7 | 0.419 | 0.570 | HIC | Western Europe |
| Japan | 6.29006 | 99.7 | 0.238 | 0.398 | HIC | Northeast Asia |
| France | 4.46524 | 99.8 | 0.424 | 0.600 | HIC | Western Europe |
| United Kingdom | 4.06561 | 99.8 | 0.362 | 0.525 | HIC | Western Europe |
| Italy | 3.84131 | 99.8 | 0.344 | 0.497 | HIC | Western Europe |
| Korea, Rep. | 3.21344 | 99.6 | 0.240 | 0.412 | HIC | Northeast Asia |
| Belgium | 2.94437 | 99.7 | 0.394 | 0.536 | HIC | Western Europe |
| Netherlands | 2.94394 | 99.7 | 0.341 | 0.516 | HIC | Western Europe |
| Canada | 2.86110 | 99.7 | 0.421 | 0.599 | HIC | North America |
| Taiwan, China | 2.77643 | 99.6 | 0.268 | 0.393 | HIC | Northeast Asia |
| Spain | 2.25742 | 99.8 | 0.338 | 0.503 | HIC | Western Europe |
| Mexico | 2.18942 | 99.4 | 0.334 | 0.478 | UMC | Central America and Caribbean |
| Hong Kong, China | 1.92264 | 99.3 | 0.170 | 0.191 | HIC | Northeast Asia |
| Singapore | 1.91887 | 99.4 | 0.317 | 0.442 | HIC | Southeast Asia and Pacific |
| Switzerland | 1.54548 | 99.6 | 0.396 | 0.561 | HIC | Western Europe |
| Malaysia | 1.44576 | 99.4 | 0.294 | 0.466 | UMC | Southeast Asia and Pacific |
| Ireland | 1.34739 | 99.4 | 0.221 | 0.250 | HIC | Western Europe |
| Sweden | 1.17785 | 99.2 | 0.330 | 0.511 | HIC | Western Europe |
| Austria | 1.12791 | 99.5 | 0.421 | 0.606 | HIC | Western Europe |
| Thailand | 1.11208 | 99.3 | 0.252 | 0.449 | LMC | Southeast Asia and Pacific |
| India | 1.04446 | 99.3 | 0.127 | 0.318 | LIC | Southern Asia |
| Russian Federation | 0.98701 | 99.0 | 0.047 | 0.146 | UMC | Eastern Europe and Russia |
| Poland | 0.90033 | 99.3 | 0.313 | 0.472 | UMC | Eastern Europe and Russia |
| Australia | 0.90003 | 99.7 | 0.093 | 0.198 | HIC | Australia and New Zealand |
| Brazil | 0.86601 | 99.2 | 0.137 | 0.373 | UMC | South America |
| Czech Republic | 0.76649 | 99.2 | 0.412 | 0.622 | HIC | Eastern Europe and Russia |
| Denmark | 0.70168 | 99.2 | 0.320 | 0.511 | HIC | Western Europe |
| Turkey | 0.69206 | 99.1 | 0.130 | 0.217 | UMC | Central Asia, Caucasus and |
| Philippines | 0.64283 | 98.8 | 0.305 | 0.428 | LMC | Southeast Asia and Pacific |
| Indonesia | 0.61715 | 99.7 | 0.117 | 0.291 | LMC | Southeast Asia and Pacific |
| Hungary | 0.56540 | 98.2 | 0.365 | 0.543 | UMC | Eastern Europe and Russia |
| Finland | 0.56044 | 99.1 | 0.225 | 0.403 | HIC | Western Europe |
| Saudi Arabia | 0.53762 | 99.2 | 0.011 | 0.070 | HIC | Western Asia |
| South Africa | 0.47888 | 100.0 | 0.092 | 0.294 | UMC | Southern Africa |
| Norway | 0.46957 | 99.1 | 0.133 | 0.342 | HIC | Western Europe |
| Portugal | 0.42791 | 99.3 | 0.292 | 0.485 | HIC | Western Europe |
| Israel | 0.35251 | 98.5 | 0.266 | 0.430 | HIC | Western Asia |
| Romania | 0.34066 | 98.4 | 0.192 | 0.330 | UMC | Eastern Europe and Russia |
| Slovak Republic | 0.32963 | 97.8 | 0.264 | 0.487 | UMC | Eastern Europe and Russia |
| Chile | 0.30348 | 98.1 | 0.025 | 0.095 | UMC | South America |
| Greece | 0.28415 | 99.2 | 0.121 | 0.210 | HIC | Western Europe |
| Argentina | 0.27734 | 98.3 | 0.156 | 0.313 | UMC | South America |
| Ukraine | 0.26988 | 98.5 | 0.115 | 0.274 | LMC | Eastern Europe and Russia |
| Venezuela | 0.17910 | 96.7 | 0.024 | 0.175 | UMC | South America |
| Colombia | 0.17831 | 97.9 | 0.082 | 0.145 | LMC | South America |
| New Zealand | 0.17333 | 98.8 | 0.133 | 0.298 | HIC | Australia and New Zealand |
| Slovenia | 0.16968 | 98.7 | 0.317 | 0.523 | HIC | Western Europe |
| United Arab Emirates | 0.16872 | 99.4 | 0.000 | 0.060 | HIC | Western Asia |
| Vietnam | 0.16209 | 98.0 | 0.000 | 0.077 | LIC | Southeast Asia and Pacific |
| Pakistan | 0.15677 | 97.9 | 0.018 | 0.087 | LIC | Southern Asia |
| Morocco | 0.14107 | 97.5 | 0.091 | 0.150 | LMC | Northern Africa |
| Iran, Islamic Rep. | 0.13437 | 97.2 | 0.007 | 0.106 | LMC | Western Asia |
| Kazakhstan | 0.13204 | 95.9 | 0.042 | 0.081 | UMC | Central Asia, Caucasus and |
| Bulgaria | 0.13088 | 98.1 | 0.140 | 0.287 | UMC | Eastern Europe and Russia |
| Luxembourg | 0.13031 | 98.4 | 0.245 | 0.407 | HIC | Western Europe |
| Costa Rica | 0.11561 | 95.3 | 0.123 | 0.212 | UMC | Central America and Caribbean |
| Bangladesh | 0.11347 | 92.6 | 0.000 | 0.016 | LIC | Southern Asia |
| Croatia | 0.10968 | 97.5 | 0.195 | 0.306 | UMC | Eastern Europe and Russia |
| Algeria | 0.10638 | 95.1 | 0.004 | 0.026 | LMC | Northern Africa |
| Peru | 0.10586 | 97.4 | 0.025 | 0.066 | LMC | South America |
| Egypt, Arab Rep. | 0.10025 | 98.5 | 0.030 | 0.107 | LMC | Northern Africa |
| Lithuania | 0.09327 | 97.2 | 0.147 | 0.256 | UMC | Eastern Europe and Russia |
| Qatar | 0.09289 | 96.2 | 0.007 | 0.030 | HIC | Western Asia |
| Belarus | 0.07765 | 95.6 | 0.042 | 0.157 | LMC | Eastern Europe and Russia |
| Estonia | 0.06955 | 96.5 | 0.211 | 0.336 | HIC | Eastern Europe and Russia |
| Yugoslavia | 0.06526 | 97.2 | 0.110 | 0.222 | UMC | Eastern Europe and Russia |
| Nigeria | 0.06394 | 93.5 | 0.000 | 0.013 | LIC | Western Africa |
| Trinidad and Tobago | 0.06235 | 93.4 | 0.012 | 0.025 | HIC | Central America and Caribbean |

| Country | % of world trade | % of 5-digit sectors traded | GL index, 5-digit | GL index, 3-digit | W. Bank income group* | World Bank region |
|----------------------------|------------------|-----------------------------|-------------------|-------------------|-----------------------|-------------------------------|
| Guatemala | 0.06132 | 96.2 | 0.067 | 0.103 | LMC | Central America and Caribbean |
| Oman | 0.06004 | 95.6 | 0.006 | 0.032 | UMC | Western Asia |
| Tunisia | 0.05985 | 93.7 | 0.000 | 0.072 | LMC | Northern Africa |
| Ecuador | 0.05934 | 95.9 | 0.047 | 0.123 | LMC | South America |
| Latvia | 0.05596 | 96.6 | 0.173 | 0.291 | UMC | Eastern Europe and Russia |
| Jordan | 0.05395 | 94.5 | 0.023 | 0.063 | LMC | Western Asia |
| Kuwait | 0.05217 | 93.1 | 0.000 | 0.028 | HIC | Western Asia |
| Sri Lanka | 0.05134 | 94.0 | 0.000 | 0.045 | LMC | Southern Asia |
| Honduras | 0.04734 | 93.2 | 0.040 | 0.052 | LMC | Central America and Caribbean |
| Dominican Republic | 0.04128 | 93.1 | 0.000 | 0.045 | LMC | Central America and Caribbean |
| El Salvador | 0.04093 | 94.0 | 0.067 | 0.112 | LMC | Central America and Caribbean |
| Syrian Arab Republic | 0.03846 | 96.4 | 0.014 | 0.048 | LMC | Western Asia |
| Cyprus | 0.03791 | 95.9 | 0.101 | 0.225 | HIC | Western Europe |
| Macao | 0.03753 | 89.6 | 0.090 | 0.144 | HIC | Northeast Asia |
| Iraq | 0.03596 | 81.7 | 0.000 | 0.008 | LMC | Western Asia |
| Malta | 0.03585 | 93.9 | 0.244 | 0.390 | HIC | Western Europe |
| Bosnia and Herzegovina | 0.03554 | 96.2 | 0.140 | 0.277 | LMC | Eastern Europe and Russia |
| Angola | 0.03444 | 93.7 | 0.000 | 0.007 | LMC | Middle Africa |
| Sudan | 0.03213 | 92.6 | 0.002 | 0.009 | LIC | Eastern Africa |
| Libya | 0.03212 | 82.9 | 0.000 | 0.015 | UMC | Northern Africa |
| Panama | 0.02883 | 94.7 | 0.047 | 0.116 | UMC | Central America and Caribbean |
| Cambodia | 0.02862 | 78.2 | 0.000 | 0.006 | LIC | Southeast Asia and Pacific |
| Iceland | 0.02816 | 95.0 | 0.039 | 0.097 | HIC | Western Europe |
| Bahrain | 0.02506 | 93.8 | 0.027 | 0.084 | HIC | Western Asia |
| Uruguay | 0.02427 | 94.0 | 0.072 | 0.175 | UMC | South America |
| Jamaica | 0.02388 | 91.7 | 0.022 | 0.086 | LMC | Central America and Caribbean |
| Azerbaijan | 0.02192 | 88.6 | 0.011 | 0.041 | LMC | Central Asia, Caucasus and |
| Cote d'Ivoire | 0.02164 | 90.9 | 0.005 | 0.022 | LIC | Western Africa |
| Ghana | 0.02142 | 95.9 | 0.008 | 0.016 | LIC | Western Africa |
| Paraguay | 0.02089 | 88.3 | 0.024 | 0.054 | LMC | South America |
| Mauritius | 0.01912 | 94.0 | 0.058 | 0.079 | UMC | Eastern Africa |
| Macedonia, FYR | 0.01906 | 93.4 | 0.071 | 0.132 | LMC | Eastern Europe and Russia |
| Nicaragua | 0.01847 | 90.5 | 0.022 | 0.038 | LMC | Central America and Caribbean |
| Kenya | 0.01757 | 94.2 | 0.000 | 0.033 | LIC | Eastern Africa |
| Zambia | 0.01737 | 96.5 | 0.008 | 0.016 | LIC | Eastern Africa |
| Yemen | 0.01631 | 91.5 | 0.003 | 0.011 | LIC | Western Asia |
| Ethiopia(excludes Eritrea) | 0.01629 | 94.6 | 0.040 | 0.036 | LIC | Eastern Africa |
| Botswana | 0.01622 | 97.7 | 0.012 | 0.007 | UMC | Southern Africa |
| Cuba | 0.01546 | 85.9 | 0.000 | 0.015 | LMC | Central America and Caribbean |
| Bolivia | 0.01516 | 94.0 | 0.012 | 0.050 | LMC | South America |
| Namibia | 0.01431 | 97.6 | 0.003 | 0.008 | LMC | Southern Africa |
| Uzbekistan | 0.01428 | 82.3 | 0.000 | 0.062 | LIC | Central Asia, Caucasus and |
| Tanzania | 0.01335 | 96.6 | 0.009 | 0.017 | LIC | Eastern Africa |
| Brunei | 0.01313 | 90.5 | 0.003 | 0.025 | HIC | Southeast Asia and Pacific |
| Lebanon | 0.01311 | 92.7 | 0.000 | 0.063 | UMC | Western Asia |
| Myanmar | 0.01268 | 86.8 | 0.000 | 0.019 | LIC | Southeast Asia and Pacific |
| Albania | 0.01251 | 91.7 | 0.139 | 0.268 | LMC | Eastern Europe and Russia |
| Moldova | 0.01192 | 90.2 | 0.062 | 0.166 | LMC | Eastern Europe and Russia |
| Georgia | 0.01131 | 92.5 | 0.020 | 0.062 | LMC | Central Asia, Caucasus and |
| Madagascar | 0.01113 | 91.1 | 0.017 | 0.024 | LIC | Eastern Africa |
| Cameroon | 0.01094 | 89.3 | 0.004 | 0.023 | LMC | Middle Africa |
| Mozambique | 0.01010 | 94.0 | 0.009 | 0.031 | LIC | Eastern Africa |
| Senegal | 0.00960 | 90.8 | 0.014 | 0.045 | LIC | Western Africa |
| Bahamas, The | 0.00959 | 81.5 | 0.000 | 0.022 | HIC | Central America and Caribbean |
| Mongolia | 0.00924 | 88.7 | 0.008 | 0.024 | LIC | Northeast Asia |
| Gabon | 0.00885 | 86.2 | 0.003 | 0.009 | UMC | Middle Africa |
| Korea, Dem. Rep. | 0.00817 | 87.6 | 0.000 | 0.039 | LIC | Northeast Asia |
| Congo, Rep. | 0.00806 | 80.9 | 0.000 | 0.009 | LMC | Middle Africa |
| New Caledonia | 0.00768 | 89.6 | 0.009 | 0.032 | HIC | Southeast Asia and Pacific |
| Benin | 0.00732 | 71.8 | 0.000 | 0.001 | LIC | Western Africa |
| Zimbabwe | 0.00717 | 94.0 | 0.000 | 0.037 | LIC | Eastern Africa |
| Uganda | 0.00689 | 93.5 | 0.004 | 0.012 | LIC | Eastern Africa |
| Equatorial Guinea | 0.00667 | 63.5 | 0.000 | 0.009 | UMC | Middle Africa |
| Netherlands Antilles | 0.00658 | 83.2 | 0.000 | 0.036 | HIC | Central America and Caribbean |
| Turkmenistan | 0.00607 | 71.1 | 0.000 | 0.012 | LMC | Central Asia, Caucasus and |
| Fiji | 0.00573 | 91.2 | 0.036 | 0.092 | LMC | Southeast Asia and Pacific |
| Haiti | 0.00570 | 69.1 | 0.000 | 0.037 | LIC | Central America and Caribbean |
| Kyrgyz Republic | 0.00551 | 88.8 | 0.031 | 0.076 | LIC | Central Asia, Caucasus and |
| Armenia | 0.00543 | 87.3 | 0.140 | 0.133 | LMC | Central Asia, Caucasus and |
| Barbados | 0.00518 | 91.2 | 0.046 | 0.090 | HIC | Central America and Caribbean |
| French Polynesia | 0.00498 | 87.5 | 0.013 | 0.022 | HIC | Southeast Asia and Pacific |
| Liberia | 0.00497 | 66.1 | 0.000 | 0.001 | LIC | Western Africa |

* taken from World Bank (2006, p. 287)

| Country | % of world trade | % of 5-digit sectors traded | GL index, 5-digit | GL index, 3-digit | W. Bank income group* | World Bank region |
|--------------------------------|------------------|-----------------------------|-------------------|-------------------|-----------------------|-------------------------------|
| Afghanistan | 0.00470 | 75.6 | 0.000 | 0.012 | LIC | Southern Asia |
| Papua New Guinea | 0.00453 | 79.6 | 0.000 | 0.040 | LIC | Southeast Asia and Pacific |
| Congo, Dem. Rep. | 0.00451 | 85.8 | 0.000 | 0.011 | LIC | Middle Africa |
| Nepal | 0.00447 | 89.1 | 0.000 | 0.161 | LIC | Southern Asia |
| Cayman Islands | 0.00420 | 67.7 | 0.000 | 0.009 | HIC | Central America and Caribbean |
| Malawi | 0.00409 | 88.6 | 0.027 | 0.034 | LIC | Eastern Africa |
| Togo | 0.00407 | 74.5 | 0.000 | 0.005 | LIC | Western Africa |
| Lao PDR | 0.00365 | 77.1 | 0.000 | 0.016 | LIC | Southeast Asia and Pacific |
| Aruba | 0.00335 | 74.8 | 0.000 | 0.010 | HIC | Central America and Caribbean |
| Bermuda | 0.00313 | 66.5 | 0.000 | 0.013 | HIC | North America |
| Tajikistan | 0.00311 | 69.9 | 0.000 | 0.017 | LIC | Central Asia, Caucasus and |
| Faeroe Islands | 0.00300 | 89.7 | 0.047 | 0.063 | HIC | Western Europe |
| Guyana | 0.00292 | 86.5 | 0.014 | 0.045 | LMC | South America |
| Mauritania | 0.00281 | 73.0 | 0.001 | 0.008 | LIC | Western Africa |
| Guinea | 0.00273 | 72.5 | 0.000 | 0.011 | LIC | Western Africa |
| Maldives | 0.00269 | 81.5 | 0.005 | 0.009 | LMC | Southern Asia |
| Suriname | 0.00244 | 74.5 | 0.000 | 0.227 | LMC | South America |
| Djibouti | 0.00238 | 72.9 | 0.000 | 0.036 | LMC | Western Asia |
| British Virgin Islands | 0.00218 | 63.8 | 0.000 | 0.024 | n.a. | Central America and Caribbean |
| Belize | 0.00216 | 83.5 | 0.015 | 0.056 | UMC | Central America and Caribbean |
| Marshall Islands | 0.00214 | 49.4 | 0.000 | 0.003 | LMC | Southeast Asia and Pacific |
| Mali | 0.00212 | 75.6 | 0.000 | 0.023 | LIC | Western Africa |
| Seychelles | 0.00191 | 87.4 | 0.085 | 0.121 | n.a. | n.a. |
| Cape Verde | 0.00186 | 82.9 | 0.013 | 0.034 | LMC | Western Africa |
| Chad | 0.00185 | 55.1 | 0.000 | 0.003 | LIC | Middle Africa |
| Lesotho | 0.00172 | 38.2 | 0.000 | 0.001 | LMC | Southern Africa |
| Swaziland | 0.00171 | 63.6 | 0.000 | 0.021 | LMC | Southern Africa |
| Burkina Faso | 0.00143 | 65.2 | 0.000 | 0.008 | LIC | Western Africa |
| Andorra | 0.00137 | 74.4 | 0.000 | 0.128 | HIC | Western Europe |
| Greenland | 0.00128 | 81.2 | 0.000 | 0.028 | HIC | North America |
| Antigua and Barbuda | 0.00119 | 72.5 | 0.000 | 0.011 | HIC | Central America and Caribbean |
| Gibraltar | 0.00106 | 77.0 | 0.000 | 0.038 | n.a. | Western Europe |
| Niger | 0.00097 | 64.4 | 0.000 | 0.021 | LIC | Western Africa |
| St. Vincent and the Grenadines | 0.00092 | 80.4 | 0.007 | 0.020 | UMC | Central America and Caribbean |
| St. Kitts and Nevis | 0.00086 | 80.5 | 0.108 | 0.096 | UMC | Central America and Caribbean |
| Turks and Caicos Isl. | 0.00073 | 58.2 | 0.000 | 0.005 | n.a. | Central America and Caribbean |
| Sierra Leone | 0.00073 | 66.6 | 0.000 | 0.066 | LIC | Western Africa |
| St. Lucia | 0.00072 | 65.9 | 0.000 | 0.061 | UMC | Central America and Caribbean |
| Gambia, The | 0.00072 | 76.9 | 0.003 | 0.009 | LIC | Western Africa |
| Dominica | 0.00063 | 77.0 | 0.019 | 0.058 | UMC | Central America and Caribbean |
| Rwanda | 0.00060 | 62.0 | 0.000 | 0.007 | LIC | Eastern Africa |
| Guam | 0.00055 | 54.9 | 0.000 | 0.051 | HIC | Southeast Asia and Pacific |
| Samoa | 0.00043 | 63.0 | 0.000 | 0.042 | LMC | Southeast Asia and Pacific |
| Somalia | 0.00040 | 43.6 | 0.000 | 0.036 | LIC | Eastern Africa |
| Eritrea | 0.00040 | 54.1 | 0.000 | 0.027 | LIC | Eastern Africa |
| Vanuatu | 0.00036 | 63.0 | 0.000 | 0.018 | LMC | Southeast Asia and Pacific |
| Bhutan | 0.00036 | 38.0 | 0.000 | 0.092 | LMC | Southern Asia |
| Grenada | 0.00035 | 66.5 | 0.000 | 0.018 | UMC | Central America and Caribbean |
| Solomon Islands | 0.00035 | 57.2 | 0.000 | 0.005 | LIC | Southeast Asia and Pacific |
| Burundi | 0.00027 | 53.9 | 0.000 | 0.065 | LIC | Eastern Africa |
| Tokelau | 0.00024 | 38.7 | 0.000 | 0.032 | n.a. | Southeast Asia and Pacific |
| Central African Republic | 0.00023 | 50.9 | 0.000 | 0.025 | LIC | Middle Africa |
| Cook Islands | 0.00020 | 65.4 | 0.000 | 0.039 | n.a. | Southeast Asia and Pacific |
| Falkland Island | 0.00020 | 32.4 | 0.000 | 0.020 | n.a. | South America |
| Guinea-Bissau | 0.00020 | 55.5 | 0.000 | 0.023 | LIC | Western Africa |
| Sao Tome and Principe | 0.00018 | 65.6 | 0.006 | 0.077 | LIC | Middle Africa |
| Comoros | 0.00017 | 49.2 | 0.000 | 0.029 | LIC | Eastern Africa |
| Tonga | 0.00016 | 60.6 | 0.000 | 0.032 | LMC | Southeast Asia and Pacific |
| Saint Pierre and Miquelon | 0.00015 | 48.6 | 0.000 | 0.012 | n.a. | North America |
| Micronesia, Fed. Sts. | 0.00015 | 46.4 | 0.000 | 0.004 | LMC | Southeast Asia and Pacific |
| Anguilla | 0.00013 | 45.1 | 0.000 | 0.010 | n.a. | Central America and Caribbean |
| Northern Mariana Islands | 0.00012 | 38.7 | 0.000 | 0.040 | UMC | Southeast Asia and Pacific |
| Wallis and Futura Isl. | 0.00010 | 60.2 | 0.002 | 0.010 | n.a. | Southeast Asia and Pacific |
| Palau | 0.00010 | 45.8 | 0.000 | 0.018 | UMC | Southeast Asia and Pacific |
| East Timor | 0.00009 | 34.3 | 0.000 | 0.005 | LIC | Southeast Asia and Pacific |
| Saint Helena | 0.00007 | 50.5 | 0.000 | 0.023 | n.a. | Western Africa |
| Montserrat | 0.00007 | 57.3 | 0.033 | 0.095 | n.a. | n.a. |
| Kiribati | 0.00006 | 47.5 | 0.000 | 0.011 | LMC | Southeast Asia and Pacific |
| Tuvalu | 0.00004 | 40.2 | 0.000 | 0.004 | n.a. | Southeast Asia and Pacific |
| Niue | 0.00003 | 37.2 | 0.000 | 0.029 | n.a. | Southeast Asia and Pacific |
| Nauru | 0.00003 | 29.3 | 0.000 | 0.067 | n.a. | Southeast Asia and Pacific |
| Pitcairn | 0.00002 | 18.6 | 0.000 | 0.002 | n.a. | Southeast Asia and Pacific |
| <i>Unweighted average</i> | <i>0.464</i> | <i>83.3</i> | <i>0.073</i> | <i>0.138</i> | <i>n.a.</i> | <i>n.a.</i> |

* taken from World Bank (2006, p. 287)

Table 2: Total Trade and IIT in 2006, by 3-Digit Industry
(sorted in decreasing order of % of world trade, “wide coverage” data set)

| Sector name | SITC 3-digit code | % of world trade | Number of sample countries trading | GL index, 5-digit | GL index, 3-digit | BEC Product Grouping* |
|-----------------------------|-------------------|------------------|------------------------------------|-------------------|-------------------|-----------------------|
| MACHINES NES NONELECTRIC | 719 | 14.58087 | 233 | 0.423 | 0.554 | Intermediate |
| ELECTRICAL MACHINERY NES | 729 | 10.49781 | 233 | 0.431 | 0.538 | Intermediate |
| ORGANIC CHEMICALS | 512 | 10.25057 | 231 | 0.277 | 0.499 | Intermediate |
| ROAD MOTOR VEHICLES | 732 | 7.55329 | 233 | 0.407 | 0.484 | Final |
| INSTRUMENTS, APPARATUS | 861 | 6.97463 | 231 | 0.364 | 0.520 | Intermediate |
| CLOTHING NOT OF FUR | 841 | 6.05836 | 233 | 0.119 | 0.142 | Final |
| MEDICINAL ETC PRODUCTS | 541 | 2.87797 | 228 | 0.403 | 0.510 | Intermediate |
| CHEMICALS NES | 599 | 2.70815 | 233 | 0.394 | 0.559 | Intermediate |
| OFFICE MACHINES | 714 | 2.32375 | 233 | 0.269 | 0.305 | Intermediate |
| TELECOMMUNICATIONS EQUIP | 724 | 2.19387 | 233 | 0.237 | 0.288 | Intermediate |
| METAL MANUFACTURES NES | 698 | 1.83187 | 233 | 0.426 | 0.554 | Intermediate |
| PLASTIC MATERIALS ETC | 581 | 1.65085 | 231 | 0.458 | 0.516 | Intermediate |
| POWER MACHINERY NON-ELEC | 711 | 1.62557 | 231 | 0.499 | 0.656 | Intermediate |
| SOUND RECORDERS, PRODUCRS | 891 | 1.36538 | 233 | 0.234 | 0.292 | Final |
| MACHS FOR SPCL INDUSTRIES | 718 | 1.33521 | 229 | 0.294 | 0.364 | Intermediate |
| OTHER MANUFACTURED GOODS | 899 | 1.28000 | 232 | 0.258 | 0.411 | Final |
| IRN, STL UNIV, PLATE, SHEET | 674 | 1.11075 | 225 | 0.254 | 0.415 | Intermediate |
| INORG ELEMNTS, OXIDES, ETC | 513 | 1.01977 | 225 | 0.142 | 0.451 | Intermediate |
| CRUDE PETROLEUM, ETC | 331 | 0.99246 | 174 | 0.010 | 0.010 | Primary |
| PAPER AND PAPERBOARD | 641 | 0.96192 | 228 | 0.294 | 0.439 | Intermediate |
| TOYS, SPORTING GOODS, ETC | 894 | 0.90346 | 230 | 0.125 | 0.169 | Final |
| COPPER | 682 | 0.78289 | 224 | 0.150 | 0.295 | Intermediate |
| TEXTILE YARN AND THREAD | 651 | 0.73323 | 229 | 0.267 | 0.493 | Intermediate |
| WOVEN TEXTILES NONCOTTON | 653 | 0.69255 | 229 | 0.225 | 0.317 | Intermediate |
| ALUMINIUM | 684 | 0.63360 | 226 | 0.234 | 0.381 | Intermediate |
| PRINTED MATTER | 892 | 0.52267 | 232 | 0.414 | 0.509 | Final |
| FRUIT FRSH NUTS FRSH DRY | 51 | 0.50597 | 231 | 0.060 | 0.168 | Primary |
| ELEC PWR MACH, SWITCHGEAR | 722 | 0.50188 | 232 | 0.527 | 0.566 | Intermediate |
| IRON, STL PRIMARY FORMS | 672 | 0.48074 | 218 | 0.162 | 0.339 | Intermediate |
| OTHR INORGANIC CHEMICALS | 514 | 0.47668 | 227 | 0.178 | 0.472 | Intermediate |
| IRON AND STEEL SHAPES | 673 | 0.46709 | 229 | 0.274 | 0.423 | Intermediate |
| FURNITURE | 821 | 0.43806 | 231 | 0.248 | 0.271 | Final |
| NONFER BASE MTL ORE, CONC | 283 | 0.41198 | 194 | 0.012 | 0.091 | Primary |
| SPECIAL TEXTILE ETC PROD | 655 | 0.40117 | 229 | 0.355 | 0.531 | Intermediate |
| AIRCRAFT | 734 | 0.36833 | 225 | 0.243 | 0.306 | Final |
| MEAT FRESH, CHILLD, FROZEN | 11 | 0.36792 | 231 | 0.140 | 0.255 | Primary |
| VEG ETC FRSH, SMPLY PRSVD | 54 | 0.33378 | 231 | 0.175 | 0.305 | Primary |
| GLASS | 664 | 0.33042 | 229 | 0.329 | 0.528 | Intermediate |
| DOMESTIC ELECTRIC EQUIP | 725 | 0.32606 | 231 | 0.195 | 0.245 | Final |
| RUBBER ARTICLES NES | 629 | 0.32132 | 233 | 0.414 | 0.477 | Intermediate |
| GAS NATURAL AND MANUFCTD | 341 | 0.28634 | 219 | 0.055 | 0.072 | Primary |
| PEARL, PREC-, SEMI-P STONE | 667 | 0.27258 | 208 | 0.315 | 0.342 | Primary |
| FOOTWEAR | 851 | 0.27214 | 230 | 0.097 | 0.102 | Final |
| ALCOHOLIC BEVERAGES | 112 | 0.26754 | 230 | 0.122 | 0.294 | Final |
| ELECTR DISTRIBUTING MACH | 723 | 0.26685 | 232 | 0.453 | 0.504 | Intermediate |
| PIGMENTS, PAINTS, ETC | 533 | 0.25725 | 230 | 0.344 | 0.445 | Intermediate |
| WATCHES AND CLOCKS | 864 | 0.25272 | 227 | 0.164 | 0.238 | Intermediate |
| CRUDE VEG MATERIALS NES | 292 | 0.24167 | 230 | 0.192 | 0.310 | Primary |
| COAL, COKE, BRIQUETTES | 321 | 0.22438 | 207 | 0.017 | 0.051 | Primary |
| PULP AND WASTE PAPER | 251 | 0.22071 | 200 | 0.067 | 0.133 | Intermediate |
| TOOLS | 695 | 0.21890 | 232 | 0.355 | 0.433 | Intermediate |
| ANIMAL FEEDING STUFF | 81 | 0.21698 | 225 | 0.185 | 0.333 | Primary |
| PLUMBG, HEATNG, LGHTNG EQU | 812 | 0.21507 | 231 | 0.266 | 0.341 | Intermediate |
| IRON, STL TUBES, PIPES, ETC | 678 | 0.21431 | 231 | 0.293 | 0.396 | Intermediate |
| OTH NONMETAL MINERAL MFS | 663 | 0.21123 | 228 | 0.323 | 0.553 | Intermediate |
| FOOD PREPARATIONS NES | 99 | 0.20948 | 231 | 0.386 | 0.488 | Final |
| WOOD MANUFACTURES NES | 632 | 0.20583 | 230 | 0.235 | 0.286 | Intermediate |
| AGRICULTURAL MACHINERY | 712 | 0.20296 | 229 | 0.317 | 0.411 | Intermediate |
| NON-FERROUS METAL SCRAP | 284 | 0.20261 | 212 | 0.235 | 0.345 | Primary |
| SHIPS AND BOATS | 735 | 0.20260 | 227 | 0.099 | 0.210 | Intermediate |
| CEREAL ETC PREPARATIONS | 48 | 0.19850 | 229 | 0.367 | 0.542 | Final |
| FISH FRESH, SIMPLY PRESVD | 31 | 0.18530 | 230 | 0.173 | 0.198 | Primary |
| OTHER CRUDE MINERALS | 276 | 0.17500 | 227 | 0.136 | 0.416 | Primary |
| ARTICLES OF PAPER ETC | 642 | 0.17380 | 230 | 0.413 | 0.522 | Intermediate |
| METALWORKING MACHINERY | 715 | 0.17359 | 224 | 0.293 | 0.324 | Intermediate |
| TEXTILE, LEATHER MACHNRY | 717 | 0.17231 | 229 | 0.205 | 0.275 | Intermediate |
| GOLD, SILVER WARE, JEWELRY | 897 | 0.17180 | 228 | 0.228 | 0.275 | Final |
| WOOD SHAPED | 243 | 0.16564 | 228 | 0.102 | 0.180 | Intermediate |
| CEMENT ETC BUILDING PROD | 661 | 0.15198 | 227 | 0.095 | 0.192 | Intermediate |
| VENEERS, PLYWOOD, ETC | 631 | 0.13524 | 226 | 0.160 | 0.270 | Intermediate |
| PIG IRON ETC | 671 | 0.13514 | 198 | 0.085 | 0.168 | Intermediate |
| FRUIT PRESERVED, PREPARED | 53 | 0.13487 | 231 | 0.211 | 0.289 | Intermediate |
| CLAY, REFRACTORY BLDG PRD | 662 | 0.12961 | 227 | 0.118 | 0.213 | Intermediate |
| ROAD VEHICLES NON-MOTOR | 733 | 0.12760 | 231 | 0.333 | 0.390 | Final |
| PETROLEUM PRODUCTS | 332 | 0.12514 | 227 | 0.174 | 0.362 | Intermediate |
| OIL SEEDS, NUTS, KERNELS | 221 | 0.12218 | 216 | 0.040 | 0.078 | Primary |
| LEATHER | 611 | 0.12183 | 206 | 0.161 | 0.221 | Intermediate |
| TEXTILE ETC PRODUCTS NES | 656 | 0.10784 | 232 | 0.127 | 0.155 | Final |
| BASE MTL HOUSEHOLD EQUIP | 697 | 0.10740 | 230 | 0.158 | 0.202 | Final |
| RAILWAY VEHICLES | 731 | 0.10645 | 217 | 0.275 | 0.458 | Final |
| PHOTO, CINEMA SUPPLIES | 862 | 0.10582 | 222 | 0.217 | 0.287 | Intermediate |
| SILVER, PLATINUM, ETC | 681 | 0.10513 | 182 | 0.133 | 0.257 | Intermediate |
| FERTILIZERS MANUFACTURED | 561 | 0.10375 | 219 | 0.059 | 0.142 | Intermediate |
| COTTON FABRICS, WOVEN | 652 | 0.10151 | 227 | 0.217 | 0.298 | Intermediate |
| OFFICE SUPPLIES NES | 895 | 0.10115 | 230 | 0.209 | 0.314 | Intermediate |
| RUBBER CRUDE, SYNTHETIC | 231 | 0.09701 | 216 | 0.198 | 0.284 | Primary |

* Product grouping according to United Nations “Broad Economic Categories”; most prevalent (unweighted) 5-digit group within each 3-digit sector

| Sector name | SITC 3-digit code | % of world trade | Nb of simple countries trading | GL index, 5-digit | GL index, 3-digit | BEC Product Grouping* |
|--------------------------|-------------------|------------------|--------------------------------|-------------------|-------------------|-----------------------|
| ARTICLES OF PLASTIC NES | 893 | 0.09527 | 233 | 0.509 | 0.509 | Final |
| GLASSWARE | 665 | 0.08910 | 228 | 0.247 | 0.368 | Intermediate |
| SUGAR AND HONEY | 61 | 0.08771 | 228 | 0.114 | 0.232 | Intermediate |
| NON-FER BASE METALS NES | 689 | 0.08503 | 205 | 0.372 | 0.489 | Intermediate |
| WORKS OF ART ETC | 896 | 0.08197 | 223 | 0.413 | 0.504 | Final |
| NICKEL | 683 | 0.07833 | 186 | 0.092 | 0.138 | Intermediate |
| FIXED VEG OILS,SOFT | 421 | 0.07682 | 226 | 0.106 | 0.238 | Intermediate |
| STL,COPPR NAILS,NUTS,ETC | 694 | 0.07502 | 233 | 0.358 | 0.385 | Intermediate |
| FIXED VEG OIL NONSOFT | 422 | 0.07343 | 224 | 0.034 | 0.069 | Intermediate |
| MATERIALS OF RUBBER | 621 | 0.07071 | 228 | 0.419 | 0.540 | Intermediate |
| SOAPS,CLEANING ETC PREPS | 554 | 0.06767 | 231 | 0.434 | 0.490 | Intermediate |
| METAL TANKS,BOXES,ETC | 692 | 0.06410 | 228 | 0.343 | 0.483 | Intermediate |
| VEGTBLES ETC PRSVD,PREPD | 55 | 0.06246 | 228 | 0.201 | 0.274 | Intermediate |
| IRON ORE,CONCENTRATES | 281 | 0.05800 | 144 | 0.017 | 0.026 | Primary |
| SYNTHETIC,REGENRTD FIBRE | 266 | 0.05745 | 205 | 0.149 | 0.304 | Intermediate |
| FLOOR COVR,TAPESTRY ETC | 657 | 0.05695 | 226 | 0.197 | 0.236 | Final |
| STRUCTURES AND PARTS NES | 691 | 0.05617 | 230 | 0.353 | 0.374 | Intermediate |
| MILK AND CREAM | 22 | 0.05566 | 227 | 0.229 | 0.277 | Intermediate |
| TOBACCO MFRS | 122 | 0.05352 | 225 | 0.108 | 0.176 | Final |
| WIRE PRODUCTS NON ELECTR | 693 | 0.05306 | 231 | 0.260 | 0.399 | Intermediate |
| ELECTRO-MEDCL,XRAY EQUIP | 726 | 0.05262 | 225 | 0.477 | 0.540 | Intermediate |
| LIVE ANIMALS | 1 | 0.05191 | 209 | 0.155 | 0.251 | Primary |
| STONE,SAND AND GRAVEL | 273 | 0.05091 | 224 | 0.136 | 0.290 | Primary |
| ZINC | 686 | 0.05058 | 204 | 0.104 | 0.148 | Intermediate |
| PERFUME,COSMETICS,ETC | 553 | 0.04267 | 232 | 0.402 | 0.402 | Final |
| CRUDE ANIMAL MATTER NES | 291 | 0.03817 | 218 | 0.242 | 0.391 | Primary |
| CUTLERY | 696 | 0.03685 | 228 | 0.148 | 0.213 | Final |
| LACE,RIBBONS,TULLE,ETC | 654 | 0.03566 | 227 | 0.199 | 0.275 | Intermediate |
| RADIOACTIVE ETC MATERIAL | 515 | 0.03534 | 177 | 0.206 | 0.238 | Intermediate |
| COTTON | 263 | 0.03397 | 199 | 0.008 | 0.017 | Primary |
| COCOA | 72 | 0.03225 | 204 | 0.033 | 0.053 | Intermediate |
| COFFEE | 71 | 0.03217 | 225 | 0.112 | 0.139 | Intermediate |
| MEAT TINNED NES OR PREPD | 13 | 0.03150 | 225 | 0.264 | 0.298 | Final |
| HIDES,SKINS,UNDRESSED | 211 | 0.03135 | 193 | 0.070 | 0.103 | Primary |
| WOOD ROUGH | 242 | 0.03086 | 216 | 0.090 | 0.144 | Primary |
| WOOL AND ANIMAL HAIR | 262 | 0.03035 | 171 | 0.059 | 0.126 | Primary |
| IRON AND STEEL SCRAP | 282 | 0.03016 | 214 | 0.170 | 0.170 | Primary |
| TRAVEL GOODS,HANDBAGS | 831 | 0.02989 | 229 | 0.110 | 0.110 | Final |
| FISH ETC TINNED,PREPARED | 32 | 0.02814 | 225 | 0.102 | 0.123 | Final |
| ELECTRIC ENERGY | 351 | 0.02804 | 107 | 0.259 | 0.259 | Intermediate |
| ESSENTL OIL,PERFUME,ETC | 551 | 0.02802 | 221 | 0.184 | 0.252 | Intermediate |
| LEATHER ETC MANUFACTURES | 612 | 0.02736 | 218 | 0.339 | 0.395 | Final |
| PROCESD ANML VEG OIL,ETC | 431 | 0.02644 | 212 | 0.188 | 0.297 | Intermediate |
| WAR FIREARMS,AMMUNITION | 951 | 0.02587 | 203 | 0.136 | 0.206 | Final |
| IRN,STL WIRE EXCL W ROD | 677 | 0.02305 | 222 | 0.337 | 0.408 | Intermediate |
| WHEAT ETC UNMILLED | 41 | 0.02286 | 189 | 0.023 | 0.023 | Primary |
| NON-ALC BEVERAGES NES | 111 | 0.02186 | 226 | 0.253 | 0.310 | Final |
| COAL,PETROLEUM ETC CHEMS | 521 | 0.02122 | 196 | 0.283 | 0.328 | Intermediate |
| POTTERY | 666 | 0.02017 | 228 | 0.095 | 0.117 | Final |
| SYNT DYE,NAT INDGO,LAKES | 531 | 0.01991 | 223 | 0.414 | 0.437 | Intermediate |
| SPICES | 75 | 0.01651 | 227 | 0.080 | 0.150 | Primary |
| CHEESE AND CURD | 24 | 0.01648 | 226 | 0.301 | 0.301 | Final |
| RICE | 42 | 0.01597 | 224 | 0.015 | 0.022 | Intermediate |
| LEAD | 685 | 0.01439 | 190 | 0.090 | 0.145 | Intermediate |
| IRN,STL CASTINGS UNWORKE | 679 | 0.01421 | 221 | 0.336 | 0.409 | Intermediate |
| MAIZE UNMILLED | 44 | 0.01417 | 208 | 0.039 | 0.039 | Primary |
| TIN | 687 | 0.01328 | 183 | 0.082 | 0.168 | Intermediate |
| SILVER AND PLATINUM ORES | 285 | 0.01294 | 158 | 0.176 | 0.220 | Primary |
| CHOCOLATE AND PRODUCTS | 73 | 0.01250 | 225 | 0.413 | 0.413 | Final |
| DRIED FRUIT | 52 | 0.01007 | 221 | 0.065 | 0.107 | Primary |
| ANIMAL OILS AND FATS | 411 | 0.00940 | 201 | 0.115 | 0.268 | Intermediate |
| EXPLOSIVES,PYROTECH PROD | 571 | 0.00826 | 216 | 0.124 | 0.290 | Intermediate |
| TOBACCO UNMFD | 121 | 0.00703 | 190 | 0.064 | 0.064 | Primary |
| RAILWY RAILS ETC IRN,STL | 676 | 0.00517 | 196 | 0.151 | 0.182 | Intermediate |
| CEREALS NES UNMILLED | 45 | 0.00466 | 201 | 0.050 | 0.084 | Primary |
| MEAT DRIED,SALTED,SMOKED | 12 | 0.00456 | 209 | 0.182 | 0.208 | Final |
| MARGARINE,SHORTENING | 91 | 0.00455 | 220 | 0.191 | 0.256 | Final |
| FERTILIZERS,CRUDE | 271 | 0.00454 | 194 | 0.033 | 0.108 | Primary |
| NATURAL ABRASIVES | 275 | 0.00440 | 204 | 0.151 | 0.295 | Primary |
| BUTTER | 23 | 0.00423 | 222 | 0.171 | 0.171 | Final |
| TEA AND MATE | 74 | 0.00419 | 225 | 0.046 | 0.061 | Primary |
| DYES NES,TANNING PRODS | 532 | 0.00410 | 197 | 0.184 | 0.297 | Intermediate |
| BARLEY UNMILLED | 43 | 0.00401 | 154 | 0.045 | 0.045 | Primary |
| WHEAT ETC MEAL OR FLOUR | 46 | 0.00352 | 226 | 0.115 | 0.165 | Intermediate |
| WASTE OF TEXTILE FABRICS | 267 | 0.00330 | 224 | 0.087 | 0.183 | Primary |
| FUEL WOOD AND CHARCOAL | 241 | 0.00315 | 200 | 0.149 | 0.179 | Primary |
| FUR ETC CLOTHES,PROD | 842 | 0.00312 | 182 | 0.102 | 0.114 | Final |
| CORK MANUFACTURES | 633 | 0.00281 | 209 | 0.120 | 0.130 | Intermediate |
| SULPHUR ETC | 274 | 0.00277 | 160 | 0.025 | 0.042 | Primary |
| EGGS | 25 | 0.00242 | 217 | 0.218 | 0.218 | Primary |
| VEG FIBRE,EXCL COTN JUTE | 265 | 0.00226 | 182 | 0.090 | 0.145 | Primary |
| FUR SKINS UNDRESSED | 212 | 0.00198 | 136 | 0.113 | 0.113 | Primary |
| FUR SKINS TANNED,DRESSED | 613 | 0.00171 | 152 | 0.200 | 0.200 | Intermediate |
| MEAL AND FLOUR NON-WHEAT | 47 | 0.00128 | 217 | 0.155 | 0.245 | Intermediate |
| SILK | 261 | 0.00094 | 130 | 0.009 | 0.017 | Primary |
| ZOO ANIMALS,PETS | 941 | 0.00066 | 199 | 0.219 | 0.219 | Primary |
| URANIUM,THORIUM ORE,CONC | 286 | 0.00053 | 39 | 0.000 | 0.000 | Primary |
| CORK RAW AND WASTE | 244 | 0.00042 | 147 | 0.326 | 0.345 | Primary |
| COIN NONGOLD,NONCURRENT | 961 | 0.00019 | 170 | 0.151 | 0.151 | Final |
| JUTE | 264 | 0.00014 | 147 | 0.009 | 0.009 | Primary |
| URANIUM,THORIUM,ALLOYS | 688 | 0.00003 | 89 | 0.252 | 0.252 | Intermediate |
| Unweighted average | n.a. | 0.56497 | 214 | 0.205 | 0.282 | n.a. |

* Product grouping according to United Nations "Broad Economic Categories"; most prevalent (unweighted) 5-digit group within each 3-digit sector

Table 3: Total Trade and IIT within and among World Regions, 1962 and 2006
 (“wide coverage” data set)

Organization of cells:

1st row: % share in world trade, 1962

2nd row: % share in world trade, 2006

3rd row: GL index, 5-digit, 1962

4th row: GL index, 5 digit, 2006

| | AUS | CAC | CACT | EAF | EEUR | MAF | NAF | NAM | NEAS | SAF | SAM | SAS | SEAP | WAF | WAS | WEUR |
|------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|-------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|--------------------------------------|
| AUS | n.a. 0.0882 n.a. 0.448 | | | | | | | | | | | | | | | |
| CAC | 0.0009 0.0117 0.000 0.128 | 0.0060 0.0753 0.029 0.118 | | | | | | | | | | | | | | |
| CACT | 0.0003 0.0024 0.000 0.008 | 0.0000 0.0013 0.000 0.037 | n.a. 0.0291 n.a. 0.012 | | | | | | | | | | | | | |
| EAF | 0.0000 0.0013 0.000 0.005 | 0.0000 0.0000 0.000 0.004 | 0.0000 0.0012 0.000 0.002 | 0.0013 0.0066 0.000 0.027 | | | | | | | | | | | | |
| EEUR | 0.0003 0.0078 0.000 0.047 | 0.0001 0.0131 0.000 0.119 | 0.0062 0.3610 0.000 0.080 | 0.0002 0.0011 0.000 0.006 | 0.0064 1.3765 0.000 0.204 | | | | | | | | | | | |
| MAF | 0.0000 0.0000 0.000 0.001 | 0.0001 0.0000 0.000 0.001 | 0.0000 0.0001 0.000 0.000 | 0.0012 0.0006 0.000 0.000 | 0.0000 0.0003 0.000 0.001 | 0.0015 0.0005 0.007 0.022 | | | | | | | | | | |
| NAF | 0.0000 0.0018 0.000 0.007 | 0.0014 0.0010 0.000 0.016 | 0.0001 0.0147 0.000 0.018 | 0.0008 0.0043 0.000 0.004 | 0.0049 0.0178 0.000 0.005 | 0.0010 0.0002 0.003 0.000 | 0.0082 0.0074 0.001 0.003 | | | | | | | | | |
| NAM | 0.4776 0.3579 0.000 0.194 | 3.0835 4.0709 0.034 0.381 | 0.2414 0.1125 0.001 0.073 | 0.0416 0.0115 0.000 0.017 | 0.1514 0.4171 0.008 0.142 | 0.0831 0.0753 0.000 0.001 | 0.2016 0.1699 0.001 0.004 | 5.9391 5.0239 0.107 0.553 | | | | | | | | |
| NEAS | 0.5474 1.0750 0.000 0.042 | 0.1630 0.5709 0.001 0.110 | 0.0080 0.1764 0.001 0.022 | 0.0222 0.0685 0.000 0.003 | 0.0042 0.8971 0.000 0.053 | 0.0028 0.0977 0.000 0.000 | 0.0128 0.0716 0.000 0.014 | 5.5298 8.5216 0.044 0.208 | 0.7203 9.0246 0.010 0.270 | | | | | | | |
| SAF | n.a. 0.0246 n.a. 0.142 | 0.0001 0.0028 0.000 0.092 | 0.0000 0.0033 0.000 0.021 | 0.0000 0.0539 0.000 0.021 | 0.0000 0.0087 0.000 0.054 | 0.0007 0.0107 0.000 0.000 | 0.0002 0.0016 0.000 0.011 | 0.2785 0.1399 0.000 0.149 | 0.1106 0.2234 0.000 0.092 | n.a. 0.0550 n.a. 0.002 | | | | | | |
| SAM | 0.0004 0.0121 0.000 0.050 | 0.1013 0.2032 0.000 0.119 | 0.0000 0.0058 0.000 0.033 | 0.0000 0.0006 0.000 0.002 | 0.0074 0.0464 0.000 0.028 | 0.0000 0.0106 0.000 0.000 | 0.0002 0.0152 0.000 0.001 | 5.6383 1.4266 0.003 0.101 | 0.3211 0.7171 0.001 0.024 | 0.0010 0.0170 0.000 0.062 | 0.1632 0.5344 0.002 0.202 | | | | | |
| SAS | 0.0148 0.0556 0.000 0.049 | 0.0002 0.0165 0.000 0.054 | 0.0002 0.0143 0.001 0.070 | 0.0047 0.0168 0.000 0.005 | 0.0066 0.0530 0.000 0.056 | 0.0000 0.0022 0.000 0.000 | 0.0028 0.0180 0.000 0.010 | 0.8909 0.4649 0.006 0.153 | 0.2838 0.5541 0.001 0.119 | 0.0018 0.0255 0.000 0.083 | 0.0017 0.0405 0.000 0.045 | 0.0198 0.0364 0.010 0.006 | | | | |
| SEAP | 0.0388 0.3244 0.000 0.114 | 0.0004 0.0599 0.000 0.128 | 0.0000 0.0113 0.000 0.029 | 0.0003 0.0052 0.000 0.010 | 0.0020 0.0578 0.000 0.059 | 0.0000 0.0014 0.000 0.001 | 0.0002 0.0083 0.000 0.026 | 1.0881 1.8110 0.008 0.251 | 1.1692 4.3765 0.005 0.305 | 0.0037 0.0282 0.000 0.046 | 0.0011 0.0525 0.000 0.038 | 0.0358 0.2454 0.020 0.134 | 0.3988 1.1904 0.000 0.357 | | | |
| WAF | 0.0003 0.0006 0.000 0.001 | 0.0001 0.0002 0.000 0.002 | 0.0000 0.0005 0.000 0.000 | 0.0001 0.0000 0.000 0.003 | 0.0015 0.0019 0.000 0.000 | 0.0010 0.0009 0.005 0.001 | 0.0045 0.0008 0.001 0.003 | 0.1501 0.1876 0.000 0.000 | 0.0375 0.0480 0.000 0.000 | 0.0001 0.0150 0.000 0.001 | 0.0003 0.0140 0.000 0.000 | 0.0012 0.0572 0.000 0.000 | 0.0001 0.0043 0.000 0.001 | 0.0106 0.0096 0.014 0.003 | | |
| WAS | 0.0002 0.0342 0.000 0.010 | 0.0001 0.0047 0.001 0.024 | 0.0083 0.0530 0.003 0.024 | 0.0003 0.0224 0.000 0.005 | 0.0050 0.0450 0.003 0.035 | 0.0001 0.0001 0.000 0.000 | 0.0000 0.0352 0.000 0.037 | 0.5702 0.8809 0.066 0.087 | 0.2610 1.5932 0.000 0.016 | 0.0018 0.0387 0.000 0.009 | 0.0008 0.0338 0.000 0.007 | 0.0098 0.4296 0.000 0.030 | 0.0047 0.2754 0.000 0.017 | 0.0013 0.0012 0.000 0.000 | 0.0000 0.1536 0.000 0.033 | |
| WEUR | 1.0555 0.4075 0.000 0.112 | 0.8341 0.4139 0.004 0.157 | 0.4949 0.8525 0.012 0.182 | 0.4778 0.0788 0.006 0.032 | 1.0902 5.9979 0.012 0.308 | 0.6354 0.0777 0.002 0.003 | 2.9560 0.7301 0.008 0.049 | 13.7417 6.2707 0.088 0.405 | 1.3188 6.1474 0.047 0.229 | 0.6390 4.4119 0.000 0.126 | 4.0897 0.9011 0.003 0.097 | 0.8955 0.6332 0.013 0.201 | 0.8431 1.2810 0.003 0.208 | 1.3374 0.1629 0.004 0.006 | 1.7037 0.9705 0.004 0.103 | 38.9570 24.9703 0.190 0.457 |

Abbreviations (World Bank geographic regions)

AUS: Australia & New Zealand; CAC: Central America & Caribbean; CACT: Central Asia, Caucasus & Turkey; EAF: Eastern Africa; EEUR: Eastern Europe & Russia; MAF: Middle Africa; NAF: Northern Africa; NAM: North America; NEAS: Northeast Asia; SAF: Southern Africa; SAM: South America; SAS: Southern Asia; SEAP: Southeast Asia & Pacific; WAF: Western Africa; WAS: Western Asia; WEUR: Western Europe

Table 4: Cross-Country Determinants of IIT, 1965, 1990 and 2006
(dependent variable = log transformed GL index, estimation by OLS)

| | 1965 | | | | 1990 | | | | 2006 | | | |
|------------------------------|---------------------|-----------------------|-----------------------|----------------------|----------------------|-----------------------|-----------------------|-----------------------|----------------------|-----------------------|-----------------------|----------------------|
| | All sectors | Primary | Intermed. | Final | All sectors | Primary | Intermed. | Final | All sectors | Primary | Intermed. | Final |
| <i>log mean per-cap. GDP</i> | 1.753*** (0.09) | 1.322*** (-0.11) | 1.944*** (-0.11) | 1.854*** (-0.12) | 2.193*** (0.09) | 1.855*** (-0.10) | 2.378*** (-0.10) | 2.045*** (-0.10) | 1.617*** (0.08) | 1.534*** (-0.10) | 1.918*** (-0.08) | 1.513*** (-0.08) |
| <i>log diff per-cap. GDP</i> | -0.0811 (0.08) | 0.018 (-0.09) | -0.133 (-0.09) | -0.210** (-0.09) | 0.0890 (0.08) | 0.00854 (-0.08) | 0.140* (-0.08) | -0.132 (-0.09) | 0.0444 (0.07) | -0.097 (-0.09) | 0.189*** (-0.07) | -0.0668 (-0.07) |
| <i>log distance</i> | -1.464*** (0.10) | -1.092*** (-0.11) | -1.231*** (-0.11) | -1.754*** (-0.11) | -1.163*** (0.10) | -1.019*** (-0.10) | -1.021*** (-0.11) | -1.285*** (-0.11) | -0.700*** (0.09) | -1.161*** (-0.11) | -0.622*** (-0.09) | -0.923*** (-0.09) |
| <i>contiguity</i> | 1.330*** (0.47) | 1.827*** (-0.50) | 1.464*** (-0.51) | 0.890* (-0.53) | 1.486*** (0.48) | 1.801*** (-0.50) | 1.812*** (-0.51) | 0.969* (-0.52) | 1.571*** (0.41) | 1.672*** (-0.53) | 2.006*** (-0.45) | 1.327*** (-0.44) |
| <i>constant</i> | -9.555*** (1.23) | -10.500*** (-1.35) | -13.500*** (-1.35) | -7.902*** (-1.43) | -14.730*** (1.26) | -15.180*** (-1.34) | -17.591*** (-1.36) | -12.263*** (-1.40) | -12.570*** (1.12) | -10.361*** (-1.44) | -16.150*** (-1.21) | -9.665*** (-1.20) |
| Observations | 1196 | 1090 | 1101 | 1069 | 1411 | 1340 | 1373 | 1354 | 1375 | 1354 | 1374 | 1373 |
| R-squared | 0.41 | 0.27 | 0.37 | 0.39 | 0.41 | 0.32 | 0.39 | 0.36 | 0.33 | 0.28 | 0.34 | 0.31 |

Table 5: MIIT by Country, 1962-1975, 1975-1990 and 1990-2006
(sorted in decreasing order of % of world trade, “wide coverage” data set)

| Country | MIIT 1962-1975 | MIIT 1975-1990 | MIIT 1990-2006 | MIIT average | % of total tr. change, 1962-1975 | % of total tr. change, 1975-1990 | % of total tr. change, 1990-2006 | % of total tr. change, average |
|----------------------------|-------------------|-------------------|-------------------|-----------------|--|--|--|--------------------------------------|
| United States | 0.226 | 0.353 | 0.343 | 0.307 | 21.974 | 19.327 | 21.282 | 20.861 |
| Germany | 0.335 | 0.484 | 0.437 | 0.419 | 18.329 | 15.838 | 11.428 | 15.198 |
| France | 0.227 | 0.481 | 0.420 | 0.376 | 9.624 | 9.887 | 5.413 | 8.308 |
| Japan | 0.103 | 0.230 | 0.270 | 0.201 | 8.749 | 9.306 | 6.213 | 8.089 |
| United Kingdom | 0.326 | 0.435 | 0.337 | 0.366 | 7.921 | 8.986 | 5.301 | 7.403 |
| Italy | 0.239 | 0.399 | 0.361 | 0.333 | 7.267 | 6.629 | 4.030 | 5.975 |
| Netherlands | 0.345 | 0.439 | 0.281 | 0.355 | 6.895 | 4.592 | 3.154 | 4.880 |
| China | 0.028 | 0.227 | 0.252 | 0.169 | 0.088 | 1.017 | 11.326 | 4.143 |
| Belgium-Luxembourg | 0.411 | 0.503 | n.a. | 0.457 | 4.401 | 3.597 | n.a. | 3.999 |
| Canada | 0.356 | 0.453 | 0.445 | 0.418 | 2.531 | 2.475 | 3.167 | 2.724 |
| Spain | 0.190 | 0.400 | 0.398 | 0.329 | 0.598 | 1.925 | 2.599 | 1.707 |
| Sweden | 0.322 | 0.377 | 0.340 | 0.346 | 2.130 | 1.249 | 0.869 | 1.416 |
| Switzerland | 0.332 | 0.458 | 0.409 | 0.400 | 1.106 | 1.859 | 1.131 | 1.365 |
| Hong Kong, China | 0.141 | 0.293 | 0.130 | 0.188 | 0.488 | 1.580 | 1.921 | 1.330 |
| Korea, Rep. | 0.200 | 0.254 | 0.307 | 0.253 | 0.069 | 0.789 | 2.749 | 1.202 |
| Taiwan, China | 0.050 | 0.262 | 0.321 | 0.211 | 0.079 | 0.887 | 2.304 | 1.090 |
| Singapore | 0.134 | 0.320 | 0.335 | 0.263 | 0.345 | 0.931 | 1.525 | 0.933 |
| Denmark | 0.299 | 0.347 | 0.321 | 0.322 | 1.115 | 0.770 | 0.599 | 0.828 |
| Malaysia | n.a. | 0.278 | 0.343 | 0.310 | n.a. | 0.396 | 1.108 | 0.752 |
| Australia | 0.060 | 0.125 | 0.116 | 0.100 | 0.358 | 0.800 | 1.094 | 0.751 |
| Mexico | 0.171 | 0.311 | 0.391 | 0.291 | 0.236 | 0.357 | 1.596 | 0.730 |
| Austria | 0.364 | 0.487 | 0.488 | 0.447 | 0.332 | 0.978 | 0.812 | 0.707 |
| Brazil | 0.071 | 0.120 | 0.205 | 0.132 | 0.489 | 0.411 | 0.862 | 0.587 |
| India | 0.029 | 0.117 | 0.183 | 0.110 | 0.198 | 0.280 | 1.107 | 0.528 |
| Norway | 0.283 | 0.195 | 0.139 | 0.205 | 0.597 | 0.440 | 0.475 | 0.504 |
| Thailand | 0.041 | 0.221 | 0.328 | 0.197 | 0.103 | 0.342 | 1.030 | 0.492 |
| Saudi Arabia | 0.003 | 0.021 | 0.017 | 0.014 | 0.261 | 0.373 | 0.666 | 0.434 |
| Ireland | 0.377 | 0.393 | 0.265 | 0.345 | 0.070 | 0.268 | 0.570 | 0.303 |
| Indonesia | 0.011 | 0.057 | 0.148 | 0.072 | 0.137 | 0.235 | 0.456 | 0.276 |
| Finland | 0.207 | 0.313 | 0.247 | 0.256 | 0.121 | 0.329 | 0.329 | 0.260 |
| Portugal | 0.178 | 0.314 | 0.308 | 0.267 | 0.107 | 0.280 | 0.299 | 0.228 |
| Turkey | 0.029 | 0.110 | 0.191 | 0.110 | 0.105 | 0.148 | 0.401 | 0.218 |
| Unspecified | 0.005 | 0.007 | 0.015 | 0.009 | 0.113 | 0.330 | 0.198 | 0.214 |
| Greece | 0.094 | 0.133 | 0.149 | 0.126 | 0.214 | 0.201 | 0.205 | 0.207 |
| Venezuela | 0.008 | 0.055 | 0.042 | 0.035 | 0.285 | 0.103 | 0.206 | 0.198 |
| Yugoslavia, FR | 0.139 | 0.239 | n.a. | 0.189 | 0.182 | 0.190 | n.a. | 0.186 |
| Poland | 0.086 | 0.086 | 0.435 | 0.202 | 0.084 | 0.061 | 0.408 | 0.184 |
| Philippines | 0.036 | 0.144 | 0.372 | 0.184 | 0.098 | 0.088 | 0.299 | 0.162 |
| Israel | 0.118 | 0.321 | 0.284 | 0.241 | 0.153 | 0.133 | 0.183 | 0.156 |
| South Africa | 0.052 | 0.032 | 0.207 | 0.097 | 0.173 | 0.091 | 0.198 | 0.154 |
| Argentina | 0.063 | 0.091 | 0.214 | 0.123 | 0.162 | 0.091 | 0.198 | 0.150 |
| Iran, Islamic Rep. | 0.008 | 0.006 | 0.022 | 0.012 | 0.277 | 0.077 | 0.072 | 0.142 |
| Chile | 0.025 | 0.051 | 0.049 | 0.041 | 0.052 | 0.057 | 0.224 | 0.111 |
| Soviet Union | 0.036 | 0.028 | n.a. | 0.032 | 0.159 | 0.168 | 0.000 | 0.109 |
| New Zealand | 0.034 | 0.145 | 0.192 | 0.124 | 0.038 | 0.115 | 0.123 | 0.092 |
| Hungary | 0.157 | 0.058 | 0.506 | 0.241 | 0.022 | 0.025 | 0.215 | 0.087 |
| United Arab Emirates | n.a. | 0.010 | 0.013 | 0.012 | 0.000 | 0.052 | 0.206 | 0.086 |
| Nigeria | 0.006 | 0.003 | 0.003 | 0.004 | 0.117 | 0.043 | 0.057 | 0.073 |
| Algeria | 0.012 | 0.009 | 0.007 | 0.009 | 0.078 | 0.057 | 0.076 | 0.070 |
| Pakistan | 0.050 | 0.033 | 0.043 | 0.042 | 0.034 | 0.051 | 0.096 | 0.060 |
| Kuwait | 0.004 | 0.008 | 0.005 | 0.006 | 0.057 | 0.048 | 0.071 | 0.058 |
| Morocco | 0.018 | 0.079 | 0.135 | 0.077 | 0.077 | 0.040 | 0.055 | 0.058 |
| Colombia | 0.042 | 0.066 | 0.130 | 0.080 | 0.033 | 0.048 | 0.089 | 0.057 |
| Libya | 0.006 | 0.005 | 0.004 | 0.005 | 0.108 | 0.033 | 0.028 | 0.056 |
| Egypt, Arab Rep. | 0.017 | 0.039 | 0.056 | 0.038 | 0.032 | 0.061 | 0.070 | 0.054 |
| Romania | 0.095 | 0.060 | 0.298 | 0.151 | 0.018 | 0.023 | 0.118 | 0.053 |
| Peru | 0.012 | 0.044 | 0.049 | 0.035 | 0.061 | 0.022 | 0.057 | 0.047 |
| Czechoslovakia | 0.108 | 0.112 | n.a. | 0.110 | 0.041 | 0.047 | n.a. | 0.044 |
| Iraq | 0.003 | 0.003 | 0.003 | 0.003 | 0.054 | 0.035 | 0.022 | 0.037 |
| Qatar | 0.008 | 0.011 | 0.011 | 0.010 | 0.003 | 0.009 | 0.081 | 0.031 |
| Tunisia | 0.054 | 0.148 | 0.026 | 0.076 | 0.022 | 0.025 | 0.022 | 0.023 |
| Oman | 0.029 | 0.032 | 0.014 | 0.025 | 0.001 | 0.009 | 0.054 | 0.022 |
| Ecuador | 0.016 | 0.021 | 0.082 | 0.040 | 0.019 | 0.013 | 0.032 | 0.021 |
| Costa Rica | 0.027 | 0.076 | 0.175 | 0.093 | 0.006 | 0.012 | 0.042 | 0.020 |
| Panama | 0.023 | 0.036 | 0.076 | 0.045 | 0.021 | 0.018 | 0.019 | 0.019 |
| Syrian Arab Republic | 0.022 | 0.007 | 0.031 | 0.020 | 0.010 | 0.023 | 0.019 | 0.017 |
| Trinidad and Tobago | 0.024 | 0.039 | 0.024 | 0.029 | 0.016 | 0.009 | 0.024 | 0.017 |
| German Democratic Republic | 0.103 | 0.047 | n.a. | 0.075 | 0.016 | 0.017 | n.a. | 0.017 |
| Netherlands Antilles | 0.012 | 0.014 | 0.027 | 0.018 | 0.029 | 0.011 | 0.005 | 0.015 |

| Country | MIIT 1962-1975 | MIIT 1975-1990 | MIIT 1990-2006 | MIIT average | % of total tr. change, 1962-1975 | % of total tr. change, 1975-1990 | % of total tr. change, 1990-2006 | % of total tr. change, average |
|----------------------------|-------------------|-------------------|-------------------|-----------------|--|--|--|--------------------------------------|
| Sri Lanka | 0.008 | 0.061 | 0.028 | 0.032 | 0.012 | 0.015 | 0.018 | 0.015 |
| Jordan | 0.013 | 0.050 | 0.041 | 0.035 | 0.003 | 0.011 | 0.030 | 0.015 |
| Bulgaria | 0.106 | 0.066 | 0.255 | 0.142 | 0.006 | 0.005 | 0.031 | 0.014 |
| Cote d'Ivoire | 0.015 | 0.007 | 0.012 | 0.012 | 0.027 | 0.008 | 0.006 | 0.014 |
| Cyprus | 0.057 | 0.071 | 0.136 | 0.088 | 0.003 | 0.012 | 0.023 | 0.013 |
| Guatemala | 0.015 | 0.065 | 0.094 | 0.058 | 0.007 | 0.009 | 0.021 | 0.013 |
| Jamaica | 0.086 | 0.115 | 0.077 | 0.093 | 0.015 | 0.009 | 0.008 | 0.011 |
| Bahrain | 0.032 | 0.029 | 0.055 | 0.039 | 0.005 | 0.012 | 0.015 | 0.011 |
| Bangladesh | n.a. | 0.026 | 0.014 | 0.020 | 0.000 | 0.007 | 0.024 | 0.010 |
| Ghana | 0.034 | 0.013 | 0.027 | 0.025 | 0.021 | 0.004 | 0.005 | 0.010 |
| Lebanon | 0.016 | 0.012 | 0.028 | 0.019 | 0.015 | 0.008 | 0.006 | 0.010 |
| Iceland | 0.032 | 0.035 | 0.065 | 0.044 | 0.008 | 0.010 | 0.011 | 0.010 |
| Angola | 0.008 | 0.002 | 0.001 | 0.004 | 0.006 | 0.007 | 0.015 | 0.009 |
| Cameroon | 0.012 | 0.026 | 0.007 | 0.015 | 0.011 | 0.007 | 0.007 | 0.009 |
| Bolivia | 0.010 | 0.009 | 0.034 | 0.018 | 0.015 | 0.005 | 0.005 | 0.008 |
| Uruguay | 0.043 | 0.108 | 0.113 | 0.088 | 0.007 | 0.008 | 0.010 | 0.008 |
| Dominican Republic | 0.045 | 0.012 | 0.031 | 0.030 | 0.009 | 0.008 | 0.008 | 0.008 |
| Malta | 0.115 | 0.405 | 0.300 | 0.273 | 0.004 | 0.009 | 0.011 | 0.008 |
| Kenya | 0.031 | 0.027 | 0.016 | 0.025 | 0.007 | 0.007 | 0.008 | 0.007 |
| Congo, Dem. Rep. | 0.014 | 0.009 | 0.005 | 0.009 | 0.016 | 0.005 | 0.001 | 0.007 |
| Liberia | 0.018 | 0.027 | 0.015 | 0.020 | 0.009 | 0.007 | 0.004 | 0.007 |
| Senegal | 0.019 | 0.059 | 0.047 | 0.042 | 0.010 | 0.006 | 0.004 | 0.007 |
| Vietnam | n.a. | 0.024 | 0.049 | 0.036 | 0.000 | 0.001 | 0.018 | 0.006 |
| El Salvador | 0.023 | 0.067 | 0.095 | 0.062 | 0.005 | 0.004 | 0.010 | 0.006 |
| Honduras | 0.030 | 0.038 | 0.067 | 0.045 | 0.003 | 0.004 | 0.011 | 0.006 |
| Paraguay | 0.028 | 0.013 | 0.039 | 0.027 | 0.004 | 0.005 | 0.008 | 0.006 |
| Brunei | 0.016 | 0.013 | 0.008 | 0.012 | 0.002 | 0.007 | 0.007 | 0.005 |
| Mauritius | 0.014 | 0.067 | 0.070 | 0.051 | 0.001 | 0.008 | 0.006 | 0.005 |
| Cuba | 0.009 | 0.009 | 0.012 | 0.010 | 0.007 | 0.004 | 0.003 | 0.005 |
| Sudan | 0.012 | 0.012 | 0.012 | 0.012 | 0.007 | 0.002 | 0.005 | 0.005 |
| Special Categories | 0.130 | 0.076 | 0.040 | 0.082 | 0.006 | 0.005 | 0.001 | 0.004 |
| Gabon | 0.006 | 0.003 | 0.004 | 0.005 | 0.007 | 0.003 | 0.002 | 0.004 |
| Macao | 0.000 | 0.136 | 0.099 | 0.078 | 0.000 | 0.004 | 0.008 | 0.004 |
| Nicaragua | 0.015 | 0.041 | 0.043 | 0.033 | 0.004 | 0.002 | 0.004 | 0.004 |
| Madagascar | 0.014 | 0.030 | 0.021 | 0.022 | 0.005 | 0.002 | 0.003 | 0.003 |
| Myanmar | 0.008 | 0.010 | 0.012 | 0.010 | 0.005 | 0.001 | 0.002 | 0.003 |
| Bahamas, The | 0.043 | 0.015 | 0.019 | 0.026 | 0.003 | 0.002 | 0.003 | 0.003 |
| Papua New Guinea | 0.007 | 0.015 | 0.006 | 0.009 | 0.001 | 0.003 | 0.003 | 0.002 |
| Mozambique | 0.010 | 0.009 | 0.005 | 0.008 | 0.003 | 0.001 | 0.003 | 0.002 |
| Ethiopia(includes Eritrea) | 0.011 | 0.020 | n.a. | 0.016 | 0.003 | 0.003 | 0.000 | 0.002 |
| Congo, Rep. | 0.007 | 0.004 | 0.002 | 0.004 | 0.002 | 0.002 | 0.002 | 0.002 |
| Zambia | n.a. | 0.007 | 0.003 | 0.005 | 0.000 | 0.003 | 0.003 | 0.002 |
| Guadeloupe | 0.053 | 0.027 | n.a. | 0.040 | 0.001 | 0.003 | n.a. | 0.002 |
| New Caledonia | 0.002 | 0.004 | 0.021 | 0.009 | 0.003 | 0.001 | 0.001 | 0.002 |
| Togo | 0.009 | 0.012 | 0.004 | 0.008 | 0.003 | 0.001 | 0.001 | 0.002 |
| Fiji | 0.006 | 0.044 | 0.057 | 0.036 | 0.000 | 0.002 | 0.002 | 0.002 |
| Bunkers | 0.020 | 0.001 | 0.000 | 0.007 | 0.003 | 0.001 | 0.000 | 0.002 |
| Martinique | 0.066 | 0.030 | n.a. | 0.048 | 0.000 | 0.003 | n.a. | 0.002 |
| Tanzania | n.a. | 0.013 | 0.011 | 0.012 | 0.000 | 0.002 | 0.003 | 0.002 |
| Barbados | 0.104 | 0.095 | 0.050 | 0.083 | 0.001 | 0.002 | 0.002 | 0.001 |
| Reunion | 0.024 | 0.017 | n.a. | 0.020 | 0.001 | 0.003 | 0.000 | 0.001 |
| Zimbabwe | n.a. | 0.056 | 0.017 | 0.036 | 0.000 | 0.000 | 0.004 | 0.001 |
| Guyana | 0.026 | 0.025 | 0.022 | 0.025 | 0.002 | 0.001 | 0.000 | 0.001 |
| Afghanistan | 0.012 | 0.011 | 0.009 | 0.011 | 0.002 | 0.000 | 0.000 | 0.001 |
| Korea, Dem. Rep. | 0.003 | 0.027 | 0.028 | 0.019 | 0.000 | 0.001 | 0.002 | 0.001 |
| Suriname | 0.110 | 0.016 | 0.026 | 0.051 | 0.002 | 0.001 | 0.000 | 0.001 |
| Mali | 0.049 | 0.018 | 0.008 | 0.025 | 0.001 | 0.001 | 0.001 | 0.001 |
| Bermuda | 0.018 | 0.022 | 0.004 | 0.015 | 0.000 | 0.001 | 0.002 | 0.001 |
| Haiti | 0.055 | 0.034 | 0.040 | 0.043 | 0.001 | 0.001 | 0.001 | 0.001 |
| Malawi | n.a. | 0.006 | 0.020 | 0.013 | 0.000 | 0.002 | 0.001 | 0.001 |
| Benin | 0.002 | 0.004 | 0.001 | 0.002 | 0.001 | 0.000 | 0.001 | 0.001 |
| Nepal | 0.019 | 0.028 | 0.036 | 0.027 | 0.000 | 0.001 | 0.001 | 0.001 |
| Burkina Faso | 0.005 | 0.004 | 0.003 | 0.004 | 0.001 | 0.000 | 0.000 | 0.001 |
| Sierra Leone | 0.007 | 0.005 | 0.016 | 0.009 | 0.001 | 0.000 | 0.000 | 0.001 |
| Guinea | 0.001 | 0.006 | 0.005 | 0.004 | 0.000 | 0.001 | 0.001 | 0.001 |
| Uganda | 0.003 | 0.004 | 0.009 | 0.005 | 0.000 | 0.000 | 0.001 | 0.001 |
| French Polynesia | 0.015 | 0.014 | 0.020 | 0.016 | 0.000 | 0.001 | 0.001 | 0.000 |
| Albania | 0.027 | 0.031 | 0.249 | 0.102 | 0.000 | 0.000 | 0.001 | 0.000 |
| Mauritania | 0.000 | 0.002 | 0.009 | 0.004 | 0.000 | 0.000 | 0.000 | 0.000 |
| Yemen Democratic | 0.003 | 0.014 | n.a. | 0.009 | 0.001 | 0.001 | 0.000 | 0.000 |
| Faeroe Islands | n.a. | 0.040 | 0.053 | 0.046 | 0.000 | 0.000 | 0.001 | 0.000 |
| Niger | 0.012 | 0.005 | 0.009 | 0.008 | 0.001 | 0.000 | 0.000 | 0.000 |
| St. Lucia | n.a. | 0.090 | 0.058 | 0.074 | 0.000 | 0.001 | 0.000 | 0.000 |
| Seychelles | n.a. | 0.021 | 0.088 | 0.054 | 0.000 | 0.000 | 0.001 | 0.000 |

| Country | MIIT 1962-1975 | MIIT 1975-1990 | MIIT 1990-2006 | MIIT average | % of total tr. change, 1962-1975 | % of total tr. change, 1975-1990 | % of total tr. change, 1990-2006 | % of total tr. change, average |
|--------------------------------|-------------------|-------------------|-------------------|-----------------|--|--|--|--------------------------------------|
| Yemen | 0.001 | 0.004 | 0.013 | 0.006 | 0.000 | 0.000 | 0.001 | 0.000 |
| Andorra | n.a. | 0.041 | 0.040 | 0.041 | n.a. | 0.000 | 0.000 | 0.000 |
| Central African Republic | 0.004 | 0.003 | 0.008 | 0.005 | 0.001 | 0.000 | 0.000 | 0.000 |
| Chad | 0.010 | 0.003 | 0.007 | 0.007 | 0.001 | 0.000 | 0.000 | 0.000 |
| Cambodia | 0.007 | 0.001 | 0.002 | 0.004 | 0.000 | 0.000 | 0.001 | 0.000 |
| Somalia | 0.005 | 0.004 | 0.010 | 0.006 | 0.001 | 0.000 | 0.000 | 0.000 |
| French Guiana | 0.001 | 0.025 | n.a. | 0.013 | 0.000 | 0.001 | 0.000 | 0.000 |
| Belize | 0.000 | 0.048 | 0.028 | 0.025 | 0.000 | 0.000 | 0.000 | 0.000 |
| Djibouti | 0.004 | 0.015 | 0.006 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 |
| Mongolia | 0.000 | 0.021 | 0.014 | 0.012 | 0.000 | 0.000 | 0.001 | 0.000 |
| Greenland | n.a. | 0.014 | 0.012 | 0.013 | 0.000 | 0.000 | 0.000 | 0.000 |
| Cayman Islands | n.a. | 0.009 | 0.004 | 0.006 | 0.000 | 0.000 | 0.000 | 0.000 |
| Lao PDR | 0.001 | 0.039 | 0.010 | 0.017 | 0.000 | 0.000 | 0.000 | 0.000 |
| Gibraltar | 0.001 | 0.040 | 0.009 | 0.017 | 0.000 | 0.000 | 0.000 | 0.000 |
| Aruba | n.a. | n.a. | 0.008 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 |
| Us Msc.Pac.I | 0.005 | 0.009 | n.a. | 0.007 | 0.000 | 0.000 | 0.000 | 0.000 |
| Gambia, The | 0.002 | 0.008 | 0.006 | 0.005 | 0.000 | 0.000 | 0.000 | 0.000 |
| Maldives | n.a. | 0.029 | 0.008 | 0.019 | 0.000 | 0.000 | 0.000 | 0.000 |
| Burundi | 0.004 | 0.010 | 0.010 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 |
| Antigua and Barbuda | n.a. | 0.015 | 0.003 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 |
| Vanuatu | 0.001 | 0.004 | 0.010 | 0.005 | 0.000 | 0.000 | 0.000 | 0.000 |
| Cape Verde | 0.000 | 0.008 | 0.030 | 0.013 | 0.000 | 0.000 | 0.000 | 0.000 |
| St. Vincent and the Grenadines | n.a. | 0.037 | 0.015 | 0.026 | 0.000 | 0.000 | 0.000 | 0.000 |
| Rwanda | n.a. | 0.004 | 0.004 | 0.004 | 0.000 | 0.000 | 0.000 | 0.000 |
| Equatorial Guinea | 0.001 | 0.010 | 0.007 | 0.006 | 0.000 | 0.000 | 0.000 | 0.000 |
| Samoa | 0.005 | 0.037 | 0.027 | 0.023 | 0.000 | 0.000 | 0.000 | 0.000 |
| Free Zones | 0.001 | 0.000 | 0.001 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 |
| Fm Panama Cz | 0.002 | n.a. | n.a. | 0.002 | 0.000 | 0.000 | 0.000 | 0.000 |
| Guinea-Bissau | 0.009 | 0.016 | 0.008 | 0.011 | 0.000 | 0.000 | 0.000 | 0.000 |
| Dominica | n.a. | 0.017 | 0.035 | 0.026 | 0.000 | 0.000 | 0.000 | 0.000 |
| Solomon Islands | n.a. | 0.010 | 0.006 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 |
| Grenada | n.a. | 0.046 | 0.021 | 0.033 | 0.000 | 0.000 | 0.000 | 0.000 |
| St. Kitts and Nevis | n.a. | n.a. | 0.155 | 0.155 | 0.000 | 0.000 | 0.000 | 0.000 |
| British Virgin Islands | n.a. | 0.026 | 0.028 | 0.027 | 0.000 | 0.000 | 0.000 | 0.000 |
| Tonga | n.a. | 0.020 | 0.010 | 0.015 | 0.000 | 0.000 | 0.000 | 0.000 |
| Comoros | 0.000 | 0.004 | 0.002 | 0.002 | 0.000 | 0.000 | 0.000 | 0.000 |
| Saint Pierre and Miquelon | 0.000 | 0.008 | 0.003 | 0.004 | 0.000 | 0.000 | 0.000 | 0.000 |
| Montserrat | n.a. | 0.006 | 0.025 | 0.015 | 0.000 | 0.000 | 0.000 | 0.000 |
| Turks and Caicos Isl. | n.a. | 0.108 | 0.003 | 0.055 | 0.000 | 0.000 | 0.000 | 0.000 |
| Kiribati | n.a. | 0.004 | 0.012 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 |
| Bhutan | n.a. | 0.008 | 0.022 | 0.015 | 0.000 | 0.000 | 0.000 | 0.000 |
| Falkland Island | n.a. | 0.157 | 0.012 | 0.084 | 0.000 | 0.000 | 0.000 | 0.000 |
| Sao Tome and Principe | n.a. | 0.009 | 0.025 | 0.017 | 0.000 | 0.000 | 0.000 | 0.000 |
| Cook Islands | n.a. | 0.002 | 0.011 | 0.007 | 0.000 | 0.000 | 0.000 | 0.000 |
| Nauru | n.a. | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| East Timor | 0.003 | 0.000 | 0.000 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 |
| Anguila | n.a. | n.a. | 0.007 | 0.007 | 0.000 | 0.000 | 0.000 | 0.000 |
| Saint Helena | n.a. | 0.031 | 0.005 | 0.018 | 0.000 | 0.000 | 0.000 | 0.000 |
| Wallis and Futura Isl. | n.a. | 0.000 | 0.004 | 0.002 | 0.000 | 0.000 | 0.000 | 0.000 |
| Christmas Island | n.a. | 0.000 | 0.005 | 0.003 | 0.000 | 0.000 | 0.000 | 0.000 |
| Norfolk Island | n.a. | 0.007 | 0.008 | 0.007 | 0.000 | 0.000 | 0.000 | 0.000 |
| Cocos (Keeling) Islands | n.a. | 0.018 | 0.046 | 0.032 | 0.000 | 0.000 | 0.000 | 0.000 |
| Tuvalu | n.a. | n.a. | 0.007 | 0.007 | 0.000 | 0.000 | 0.000 | 0.000 |
| Neutral Zone | n.a. | 0.000 | n.a. | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Niue | n.a. | 0.040 | 0.030 | 0.035 | 0.000 | 0.000 | 0.000 | 0.000 |
| Tokelau | n.a. | n.a. | 0.023 | 0.023 | 0.000 | 0.000 | 0.000 | 0.000 |
| British Indian Ocean Ter. | n.a. | 0.003 | 0.000 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 |
| Fr. So. Ant. Tr | n.a. | n.a. | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Pitcairn | n.a. | 0.000 | 0.006 | 0.003 | 0.000 | 0.000 | 0.000 | 0.000 |
| Western Sahara | n.a. | n.a. | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| <i>Unweighted average</i> | <i>0.061</i> | <i>0.080</i> | <i>0.087</i> | <i>0.072</i> | <i>0.498</i> | <i>0.493</i> | <i>0.508</i> | <i>0.501</i> |

Appendix Table 1: Countries Included in the “Long Coverage” Data Set
(by World Bank income group)

Low income and lower middle income:

Bolivia, Brazil, Colombia, Ecuador, Egypt, Guatemala, Honduras, Indonesia, India, Jordan, Morocco, Nicaragua, Pakistan, Peru, Philippines, Paraguay, El Salvador, Thailand, Tunisia

Upper middle income:

Argentina, Barbados, Chile, Costa Rica, Hungary, Mexico, Malaysia, Panama, Turkey, Venezuela

High-Income:

Australia, Austria, Belgium, Canada, Switzerland, Germany, Denmark, Spain, Finland, France, United Kingdom, Greece, Hong Kong, Ireland, Iceland, Israel, Italy, Japan, Korea, Malta, Netherlands, Norway, New Zealand, Portugal, Singapore, Sweden, United States