University of Wollongong

Research Online

Faculty of Commerce - Papers (Archive)

Faculty of Business and Law

1-1-2008

Regional integration in Asia and the contribution of SMEs: a review of the key issues and policy imperatives

Charles Harvie University of Wollongong, charvie@uow.edu.au

Follow this and additional works at: https://ro.uow.edu.au/commpapers



Part of the Business Commons, and the Social and Behavioral Sciences Commons

Recommended Citation

Harvie, Charles: Regional integration in Asia and the contribution of SMEs: a review of the key issues and policy imperatives 2008, [33].

https://ro.uow.edu.au/commpapers/1851

Research Online is the open access institutional repository for the University of Wollongong. For further information contact the UOW Library: research-pubs@uow.edu.au

Regional integration in Asia and the contribution of SMEs: a review of the key issues and policy imperatives

Abstract

Over the past decade the economies of East Asia and APEC more generally have beenincreasingly opening up their markets, and in the process have achieved significantgains in exports and economic growth. In conjunction with this increased economicintegration, there has been increased recognition by regional governments of the potential for a substantial increase in the participation by small businesses in thegeneration of regional income, employment, exports, investment and expanded economic growth. Advances in information and communications technology addcredence to this potential. In addition, developing economies are especially seeingsmall businesses as potential instruments for the alleviation of poverty and regional development. While in developed economies the formation of horizontal and vertical clusters of small businesses can form the basis for internationally competitive regions, and this can be further enhanced through the construct of networks with similar smallbusinesses locally or internationally. This viewpoint was given further stimulus after the financial and economic crisis of 1997-98, arising from which there has been a growing recognition of the need for the East Asian economies to engage in comprehensive restructuring of their corporatesectors, with the objective of achieving transparency, improving corporate governanceand developing globally competitive enterprises. Small and medium enterprises(SME) can play a key role in the attainment of such objectives. This paper reviews the contribution of the SME sector to the growth and development of the East Asian economies, and their important contribution to economic growth, employment, trade and investment and the development of globally competitive economies. In doing so identification of the potentially important role of SMEs infacilitating and bringing about the practical benefits of closer economic integration arealso emphasized. To enable this to occur it is important to identify within the EastAsian region: barriers to their development; key factors essential for their capacitybuilding; strategies to enhance their competitiveness in the global marketplace; keycomponents relating to their export success; and their role and importance infacilitating regional economic development, reducing income inequality, and empowering regional involvement in the global economy.

Keywords

Regional, integration, Asia, contribution, SMEs, review, key, issues, policy, imperatives

Disciplines

Business | Social and Behavioral Sciences

Publication Details

Harvie, C. (2008). Regional integration in Asia and the contribution of SMEs: a review of the key issues and policy imperatives. In M. Pahlavani & K. Tayebi (Eds.), The 7th APEF International Conference on East and West Asian Trade and Economic Relations: Opportunities, Challenges and Outcomes (p. [33]). Iran: University of Isfahan.

Regional Integration in Asia and the Contribution of SMEs – a Review of the Key Issues and Policy Imperatives

Charles Harvie

School of Economics
and
Director
Centre for Small Business and Regional Research
University of Wollongong
NSW
Australia 2522
Telephone: +61 242 213702

Fax: +61 242 213725 Email: charvie@uow.edu.au

Abstract

Over the past decade the economies of East Asia and APEC more generally have been increasingly opening up their markets, and in the process have achieved significant gains in exports and economic growth. In conjunction with this increased economic integration, there has been increased recognition by regional governments of the potential for a substantial increase in the participation by small businesses in the generation of regional income, employment, exports, investment and expanded economic growth. Advances in information and communications technology add credence to this potential. In addition, developing economies are especially seeing small businesses as potential instruments for the alleviation of poverty and regional development. While in developed economies the formation of horizontal and vertical clusters of small businesses can form the basis for internationally competitive regions, and this can be further enhanced through the construct of networks with similar small businesses locally or internationally.

This viewpoint was given further stimulus after the financial and economic crisis of 1997-98, arising from which there has been a growing recognition of the need for the East Asian economies to engage in comprehensive restructuring of their corporate sectors, with the objective of achieving transparency, improving corporate governance and developing globally competitive enterprises. Small and medium enterprises (SME) can play a key role in the attainment of such objectives.

This paper reviews the contribution of the SME sector to the growth and development of the East Asian economies, and their important contribution to economic growth, employment, trade and investment and the development of globally competitive economies. In doing so identification of the potentially important role of SMEs in facilitating and bringing about the practical benefits of closer economic integration are also emphasized. To enable this to occur it is important to identify within the East Asian region: barriers to their development; key factors essential for their capacity building; strategies to enhance their competitiveness in the global marketplace; key components relating to their export success; and their role and importance in facilitating regional economic development, reducing income inequality, and empowering regional involvement in the global economy.

1. Introduction

While the present wave of globalisation, characterised by increased flows of trade, capital, technology, knowledge and ideas and skilled labour across international borders is not a new phenomenon¹, the factors driving it are new relative to that of the first wave of globalisation of 1870-1914. Key drivers behind the present wave, dating back to the late 1950s, have been, first, advances in information and communications technology (e.g. internet), which have not only radically reduced the cost of communicating and conducting business globally, sourcing and supplying, but have also facilitated instantaneous knowledge of developments in global financial markets as well as international flows of finance, as well as flows of knowledge and idease across international borders. Second, reductions in international transport costs (e.g. containerisation) have resulted in geographical distance no longer being an impediment to trade. Third, under the auspices of the GATT and subsequently the WTO, there has been a significant decline in international trade barriers and an opening of domestic markets to international competition, supplemented by liberalisation of domestic goods and capital markets. Finally, advances in production technology have resulted in 'product fragmentation' whereby various stages of the production process can be produced (or sourced) globally, resulting in international flows of FDI and trade. Transnational corporations have played a pivotal role in regard to these latter developments, leading to the rise of the so called global production system, in which inputs are sourced globally, production takes place globally, and marketing is also global. In this production system competitiveness depends upon sourcing from the least cost source of supply and developing value adding supply chains. Complementing these developments has been the rise of the 'new economy', where natural resources and volume of production are no longer the key source of competitiveness but, rather, knowledge, innovation and new ideas, and the ability to commercialise these, have become the key sources of business competitiveness and economic success.

In this context the paper proceeds as follows. Section 2 conducts an overview of the challenges and opportunities arising from globalization for SMEs. In addition, it also briefly reviews what the literature has to say about the distribution of businesses by size in an economy. Section 3 provides background information on the role and significance of the SME sector in the economies of East Asia and APEC more generally. Section 4 discusses the major barriers to the further development of the SME sector and key areas for capacity building that will enable this sector to make the maximum gains from regional trade and investment opportunities that will arise with the process of closer regional economic integration. Section 5 discusses the appropriate role of government in supporting the development of SMEs. Section 6 discusses SME and regional competitiveness strategies. Section 7 presents the major conclusions and policy implications from this paper.

2. SMEs and Globalisation

SMEs are the backbone of most economies, and particularly so for developing economies. They have played a key role in the economic growth and equitable

¹ See, for example, Baldwin and Martin (1999), Bordo et al. (1999), and Hirst (1997) regarding the various waves of globalisation, including that of the so called 'golden era' of 1870-1914.

development of many developing countries. Their contribution to employment generation, output, exports, poverty alleviation, economic empowerment, and wider distribution of wealth and opportunities present a number of opportunities for developing countries². However, this potential is often not realized due to challenges arising from their size, which could be further exacerbated by globalisation.

SME challenges

First, many SMEs are constrained due to their <u>lack of resources</u> in key areas such as finance, technology, skilled labour, access to markets and information. Second, their small size prevents them from achieving <u>economies of scale and scope</u>, such as in the purchase of inputs including equipment, raw materials, finance and consulting services, and are often unable to take advantage of market opportunities that require large production quantities, homogeneous standards and regular supply. Third, they face relatively <u>higher transaction costs</u> compared to that of large firms. Fourth, they <u>lack information</u>, <u>knowledge and experience in international markets</u>. Fifth, there is a <u>trend towards greater concentration in domestic and global markets</u>. Finally, their lack of resources would make it more difficult to compete with larger firm in terms of <u>R&D and innovation</u>, which are important competitiveness ingredients in the new economy.

SME opportunities

Despite such size related obstacles, there is considerable evidence to suggest that, in many regional economies, SMEs are flourishing in the new globally competitive markets although areas remain, such as in exporting, where their performance could be improved. Why, despite expectations to the contrary, have SMEs not only survived but flourished? A number of reasons can explain this development. First, the rise of customization and development of niche products and markets. Many customers require products to meet their own particular needs and which require only a small production run. For large firms, with their larger volume of production of standardized products, satisfying the needs of such customers is not economic. This presents considerable domestic and global market opportunities for SMEs. Second, technological advances have resulted in discontinuities in production that have facilitated the segmentation of production into a number of parts or stages. Each of these parts of the production process provide opportunities for the participation of SMEs (e.g. through subcontracting). Third, advances in technology and rapidly changing market demand and tastes have reduced product life cycles, resulting in production flexibility being more important than volume of production. This represents, again, a clear area of competitive advantage for SMEs. Fourth, the rise of the global production system, characterized by the focus of large manufacturing businesses on core areas of business activity and subcontracting of non-core activity, has presented business opportunities for SMEs to participate in the value adding supply chain of transnational corporations. Fifth, the growth of global retail sourcing (the so-called putting out system) has presented opportunities for SMEs to sell their products through global retailers, such as through the world's largest firm Walmart which retails globally products sourced globally. Sixth, post industrial societies have

² See Davis, Haltiwanger and Schuh (1993) and Hallberg (2000) for a useful critique on the contribution of SMEs in these areas.

experienced rapid growth in the services sector, driven by rising affluence and disposable income, a sector dominated by SMEs. Seventh, as mentioned previously, in the new economy the key sources of international competitiveness are knowledge, skill intensive and innovative activities, it is no longer volume of production. In many such activities SMEs are performing well and some are out-performing their large business counterparts. Eighth, in rapidly changing markets the ability to adapt to changing customer requirements is essential. Since SMEs tend to have less bureaucratic structures than their large business counterparts, they are in a better position to respond rapidly to changing market conditions. Ninth, technological developments, such as the internet, have expanded the market and information reach of SMEs. The use of e-commerce has enabled SMEs to enter overseas markets at a low cost, and also enabled them to identify market opportunities. Tenth, SME clustering, both horizontal and vertical, has enabled them to benefit from knowledge and technology spillovers, enabling them to be more competitive in comparison to operating in isolation. SME networking has also provided an important means for a sharing of knowledge, information and market opportunities for geographically dispersed SMEs, that can contribute to greater competitiveness in the marketplace. Finally, the increased recognition by policy makers of the potentially important role that SMEs can play as generators of employment, output and exports, is increasingly recognized in national development strategies for many developed and developing economies in the region.

Theory and firm size distribution

In the literature a number of factors can be identified as influencing the size of a firm and, therefore, the size distribution of firms across an economy (see, for example, Hallberg, 2000; Kumar, Rajan and Zingales, 2001; You, 1995). These are as follows:

- technology based economies of scale
- resource endowments
- transaction costs (Coase, 1937)
- market structure/competition
- consumer/market demand
- stage of development
- institutional factors (regulatory and finance)

Technological theories goes back to Adam Smith (1776). In this approach <u>technology-based economies of scale</u> determine the minimum efficient scale of production. Economies of scale of production, along with diseconomies of scale of organization technology, determine efficient firm size. The size distribution of firms is then determined by a combination of efficient firm size, market size, and the product composition of production in the economy (Hallberg, 2000, p. 8). The composition of production in an economy depends upon its <u>resource endowments</u>). The <u>transaction costs</u> approach views the firm as an alternative to the market. Where the market is highly costly in the conduct of transactions these will be internalized within the firm, thereby increasing its size. As the cost and nature of transactions changes through time this can lead to firms outsourcing activities that we previously internalized, and vice, versa, thereby affecting firm size. <u>Market structure</u> can also influence firm size distribution through impacting upon market power and segmenting and distorting input and output market and the cost differential between large and small firms.

Consumer demand can influence firm size distribution through affecting the demand for various products and services, which depend upon varying firm size for their production. Stage of development is important. During the earlier stages of production, in agrarian dominated societies, average firm size is small, but with industrialization and further economic development average firm size will increase. Finally, institutional factors, including regulatory and financial factors, can also influence firm size.

3. Background – the role and significance of the SME sector in East Asian economic development³

SMEs have been recognised as a priority area for the East Asian economies, and more generally within the context of the Asia Pacific Economic Cooperation Forum (APEC), since the 1993 APEC Leaders' meeting in Seattle. Despite being seen as a priority, and the centre of considerable discussion, a clearly enunciated APEC agenda and program of action for SMEs in the region, before the onset of the financial and economic crisis of 1997-98, remained elusive. However, the crisis resulted in many of the countries of East Asia: re-evaluating their industrial policies; placing greater emphasis on improving corporate governance; improving the efficiency and competitiveness of their enterprises; and developing business sectors more able to overcome the vicissitudes of domestic, but more importantly global, market developments (Hall, 1999; Harvie, 2002). The latter is of particular importance in the context of increased economic interdependence and open regionalism. The need to develop more adaptable and flexible economies, and business sectors, has resulted in increased emphasis on the development of the SME sector.

Role and importance of SMEs to the region

Although SMEs are important across the region there are considerable differences in the role of SMEs in the various economies. For example, SMEs play a larger structural role in Taiwan, China, Japan, Thailand and Vietnam where they contribute over 70 percent of employment, than they do in Indonesia or Malaysia where they contribute only around 40 percent. In addition, the contribution of the SME sector to exports, and hence the extent of their global integration, also varies widely. They are relatively more export oriented in China, Korea and Taiwan than they are in Japan, Indonesia, Thailand, Malaysia and Singapore. Similarly, the dynamic role that SMEs play varies widely. For example in Singapore, even though SMEs are not as significant in terms of numbers and employment, they are important in providing a flexible skilled production base that attracts larger multi national corporations (MNCs). The dynamic role that SMEs have played has varied between the various countries. More recently in the case of China, and somewhat reluctantly in the case of Vietnam, entrepreneurial private SMEs and rural enterprises⁴, during the early part of the reform process, have been pivotal in the transition process from a planned to market oriented economy.

They have contributed to more efficient resource allocation, the marketization of these economies, and are increasingly important in creating new jobs and in expanding exports. In the case of Taiwan, SMEs have played a pivotal role in the country's

³ This section draws extensively upon Hall (1995) and Harvie and Lee (2002).

⁴ The so-called township and village enterprises (TVEs).

economic development from the beginning. More recently, however, they have been facing increased competition from SMEs in China and Vietnam, because their traditional low cost base is rapidly being eroded. As a consequence they have had to move up the high technology ladder in order to remain globally competitive. Recognising this requirement the Taiwanese government has been actively assisting in this process.

Numbers and contribution to employment

SMEs have played, and are increasingly playing, an important economic role in the individual economies of East Asia, in the broader regional economy including that of APEC and, more generally still, the global economy. This is especially so from the point of view of creating employment, as a source of innovation, generating exporting opportunities, as the source of future successful medium and large enterprises, and as a major source of both domestic and global competition. Developments in information technology and movement towards greater global trade and financial integration, implies even greater opportunities for the further expansion and increased competitiveness of regional SMEs. The process of product fragmentation, whereby TNCs are outsourcing input production from across East Asia, is resulting in complex trade and investment relationships across regional economies. This process provides regional SMEs with market opportunities for those most able to take advantage of such a development.

By the late 1990s SMEs contributed well over 98 percent of regional enterprises (Table 1) and were variously estimated to contribute between 50 to 88 percent of the total employment in individual regional economies (see Table 2) (Hall, 1995, 2000, 2002a)⁵. Consequently, SMEs have the potential to make a major impact on workforce training (Hall, 2000, p.2). The contribution of SMEs to employment growth is even higher, if somewhat contentious. Figures for Asia are not available, but in more mature economies, and where reasonably reliable studies are available, as much as 70 percent or more of net employment creation was attributable to SMEs in the 1990s.

Table 1 indicates the distribution of enterprise numbers by firm size across a number of APEC regional economies, clearly indicating that most SMEs are micro enterprises. That is enterprises employing less than 5 employees. SMEs generally contribute more than 50 percent of employment but this contribution tends to be proportionally more from medium sized businesses, defined as those employing between 20 and 99 people (see Table 3). Medium sized enterprises typically make up only about 4 percent of all enterprises (or about 20 percent of manufacturing enterprises) but they employ about 20 percent of the workforce (or about 30 percent of the manufacturing workforce). Across the region, while there are a considerable number of SMEs, and about 80 percent of these are micro businesses, micro business does not contribute proportionally as much to overall employment. Typically only about 10 to 25 percent (see Table 3).

⁵ The figures for SME employment in Malaysia and Thailand are distorted. See footnote 3 in Table 2.

Table 1 Number of Private Non-Agricultural SMEs as a Percentage of Firms, Selected APEC Countries, 1999, (%)

	Micro	Small	Medium	All SMEs
	(<5 employees)	(5-19 employees)	(20-99	
			employees)	
Australia	69.9	24.3	4.9	99.1
Chile	82.1	15.0	2.1	99.2
Hong Kong, China	86.8	7.6	4.9	99.3
Japan	56.5	34.7	7.4	98.6
Korea	72.7	17.8	8.6	99.1
Mexico	91.7	6.3	1.6	99.6
New Zealand	84.2	7.1	8.0	99.3
Peru	96.5	3.1	0.3	99.9
Philippines	91.1	8.2	0.4	99.7
Singapore	67.4	24.3	6.1	97.8
Thailand	79.0	18.4	2.0	99.4
USA	60.5	28.9	8.9	98.3

Source: Hall (2002a)

Table 2 SME Profile by Economy

	Population	Approximate	% of all	% employed	People per
	(millions) (1)	number of	businesses	(3)	SME
		SMEs	(3)		
		(millions) (2)			
Australia	18.3	1.00	97%	50%	18
China	1244.2	8.00	99%	78%	155
Hong Kong	6.5	0.29	98%	61%	22
Indonesia	203.4	[16.00] 2.00	98%	88%	[13] 92 (4)
Japan	126.0	5.08	99%	78%	25
Korea	45.7	2.67	99%	73%	17
Malaysia	21.0	na	84%	12%	na
New Zealand	3.8	0.30	98%	52%	13
Philippines	71.4	0.50	99%	66%	142 (5)
Singapore	3.4	0.96	91%	52%	35
Chinese Taipei	21.7	1.02	98%	78%	21
Thailand	59.7	0.67	96%	18%	89
Vietnam	76.5	na	na	85%	na
Total	1,901.6	22.2			

⁽¹⁾ Source: APEC and Economist. Figures are for 1998 - 1999

⁽²⁾ Estimates only except for Australia, Japan, New Zealand

⁽³⁾ APEC, Profile of SMEs in Asia, 1998. Figures depend on definitions for SMEs which distorts Malaysian and Thai figures. Malaysia defines SMIs - or small medium industries, so it emphasizes mostly SMEs in manufacturing industries.

⁽⁴⁾ Figures based on establishments and from the BPS Industrial Census of 1996 in []. Note that estimates by Department of Commerce and Industry suggest that there were only about 2.2 million SMEs in Indonesia in 1996, which translates into 92 people per SME.

⁽⁵⁾ Figures based on establishments.

Table 3
Contribution of Micro, Small and Medium Sized Enterprises to Private Non-Agricultural Employment, Selected APEC Countries (%)

	Micro	Small	Medium	All SMEs
	(<5	(5-19	(20-99	
	employees)	employees)	employees)	
Australia	25.9	20.9	19.2	66.0
Hong Kong, China	31.1	13.0	24.8	59.4
Japan	13.1	29.9	26.9	69.9
Korea	31.2	11.3	36.2	78.7
Mexico	36.2	13.9	15.2	65.2
New Zealand	23.0	18.0	19.0	60.0
Peru	62.5	16.6	8.8	87.9
Philippines	36.7	25.8	7.1	69.5
Singapore	7.1	16.8	19.2	43.1
USA	5.2	13.6	17.9	36.7

Source: Hall (2002a)

Table 1 and Table 4 (for manufacturing only) suggest that many developing economies in the region have many micro and small SMEs, as well as a dominant large enterprise sector, but they do not have many medium sized enterprises. Hence there is a "missing middle". This contrasts with the more developed economies where medium sized enterprises contribute significantly to employment, and are a major source of high growth firms that contribute significantly to employment growth.

Table 4

The missing middle - Percentage contribution to output, employment and structure, by size class in selected Asian countries – manufacturing

	small and cottage <20	medium 20 -100	large 101 - 500	very large >501	n=
Japan					415,109
% establishments	74	21	3	1	
% output	İ	32	19	48	
% employment		53	18	28	
Singapore					4,013
% establishments	41	42	14	3	
% output	3	12	26	59	
% employment	5	26	27	44	
Chinese Taipei					738,914
% establishments	96	3	1	0.1	
% output	25	16	20	39	
% employment	46	18	16	20	
Indonesia					1,600,000
% establishments	99	.8	.2	.06	
% output	17	6	22	55	
% employment	67	*	*	33*	

Japan: - 1992 Small Business in Japan. Manufacturing only. medium is up to 300, large is 300 +.

Singapore: -1994 Manufacturing only . Census of Industrial Production.

Chinese Taipei (Taiwan): - 1991 Census of Industry and Commerce, figures are for non agricultural sector. Micro sector is for firms less than 30 employees, small is 30 -99 employees.

Indonesia: - estimated - Manufacturing only, 1990. Applies to formal (ie registered firms only). Estimated from BPS data and from Thee (1994) and Hill (1995) and Basri (1994). * included in large category.

Contribution to Sales, Output, Value Added

Estimates of SME contribution to economic value added, sales, or output are difficult to obtain for the East Asian region, and more difficult to interpret in comparable terms. The contribution to GDP is particularly difficult to obtain, but SMEs have been typically estimated to contribute somewhere between 30 percent and 60 percent of GDP (Hall, 1995). Table 5, taken from Hall (2002a), shows that SMEs contribute about 50 percent of value added or sales on average, but that this ranges from about 30 percent to about 70 percent. Small and micro firms make a significant contribution in developing economies (about 50 percent of output in China and Philippines for example), but less in the more developed economies.

SME wage payments typically make up over half of GDP in regional economies, and hence are important for domestic demand expansion, and for the generation of savings funds (Hall, 2000, p.2).

Contribution to exports

There is very little information on those SMEs that export and import goods and services. Hence reliable estimates of the proportion of exports generated by SMEs are traditionally difficult to obtain. The proportion of exports produced by SMEs in Asia is, however, large by OECD and world standards. Table 6 draws upon figures presented in Hall (1995, 2000) which shows that, weighted by GDP for the East Asian countries identified, SMEs generally contribute as much as 35 percent of direct exports⁶. However, this does vary widely across countries. Export growth rates are generally higher than GDP growth rates, and, where figures are available, the rate of growth of SME exports is higher than the growth of overall exports. This points to SMEs in Asia already being significantly internationalized and becoming more so. It is difficult to gauge the importance of SMEs by size of firm because few countries keep such export statistics. In addition, many SME exports are made indirectly via a larger firm or an agent, and are difficult to attribute to SMEs even when statistics are kept. The indirect contribution to exports is likely to be larger, however, and is probably close to 50 percent for APEC Asian economies.

The weighted of contribution of international SME exports to the GDP of those economies for which export figures are available is about 4 percent for the OECD countries (6 percent if indirect exports are included), and about 12 percent for the Asian economies. These figures are indicative only. They assume, for example, that where only manufacturing SME export figures are available that these are representative of exports generally in that economy. Similarly the estimates use the indirect export figure for SMEs where this is available, but for most economies it is not. Hence the overall contribution of SMEs to exports is likely to have been understated. In addition, SME foreign direct investment (FDI) is usually export oriented, thereby adding further to the potential for regional exports and technology transfer (Hall, 2000, p.2).

⁶ The equivalent figure for selected OECD countries, where estimates and statistics were available, was 26 percent.

⁷ By country.

This international role for SMEs in the East Asian region remains volatile, however, for three reasons. First, export markets are inherently subject to volatility via currency and exchange rate movements. This was amply demonstrated by the 1997-98 crisis. Second, export markets are affected by general economic conditions in both the exporting and the destination economies. Third, structural competitive shifts occur that render SMEs in one economy uncompetitive with those in another in supplying global markets. These variations can lead to shifts in demand of \pm 50 percent at least over two to three years, and more in the longer term as structural changes flow through. This volatility has important implications for the stability of the SME sectors and for the continued growth of the regional economies. Hence the financial crisis of 1997-98 could be expected to have had important implications for the growth of this sector.

Table 5 SME contribution to output, sales, or value added

	micro	small	medium	all SMEs	
Australia	na	na	na	30%	1997/8 Sales all
					sectors
China		49.4	16.7	66%	Industrial only
					1996 gross
					output
Hong Kong				~63%	all sectors
Indonesia				na	
Japan	4.1	5.1	22.0	50.8	Manufacturing
_					1997
				42.5	all SMEs - sales
				56.6	all SMEs value
					added
Korea		9.6	20.2	46.3	Manufacturing
	16.5	8.4	38.4	63.2	Services
Malaysia				na	
New Zealand	19.0	16.0	20.0	55.0	Sales 1998
Philippines	35.8	12.0	10.8	26.5	Manufacturing
	24.0	30.1	8.4	62.7	Services value
					added 1995
Singapore		2.7	11.8	14.5	Manufacturing
Chinese Taipei		na	na	32.0	Sales 1997
Thailand				na	
Vietnam				na	

Source: Hall (2002a) unless otherwise noted.

Table 6 Structural contribution of SMEs to exports 1991-2

	GDP \$US	Exports	Share of
	millions	as per cent	SMEs in total
		of GDP	Exports
			%
Japan	3 337	12	13.5
_	191		
PRC	435 000	21	40 - 60
Korea	285 000	27	40
Indonesia	128 000	23	10.6
Chinese Taipei	210 000	44	56
Thailand	108 000	29	10
Malaysia	60 000	72	15
Singapore	46 000	138	16
Vietnam	14 000	7	20
weighted	11.7		30 -35%
contribution			

Source: adapted OECD (1997)

Note: \sim indicate estimate only. M = manufacturing only. Exports are direct exports by SMEs. This understates the true contribution of SMEs to exports.

Weighted contribution. For exports is the sum of GDP multiplied by the percentage of exports multiplied by the percentage of direct SME exports expressed as a percentage of total exports.

Contribution of SMEs to growth

SMEs make a major contribution to economic and, particularly, employment growth. Most of the available evidence suggests that SMEs contribute about 60 to 70 percent of net employment growth, so they are an important "Entrepreneurial Engine". This contribution has two main aspects. First, the net addition of new firms, net start-ups, generate economic growth. About 80 to 90 percent of SMEs are micro enterprises, and they "churn"; that is, a significant proportion (between about 5 to 20 percent) "die" each year, while a similar proportion are "born" each year. If there is a net gain of births over deaths then this tends to add to overall economic growth, even though the average micro firm itself does not grow much in size. Second, it is the sustained growth of a relatively small group of successful (or high growth) firms that contributes significantly to economic growth. These firms typically survive for more than eight years, and often experience growth rates exceeding 30 percent per annum. It is only a relatively small percentage of SMEs (perhaps 5 percent or less) that contribute significantly to overall growth in this way, but their contribution can be quite large (see Hall, 2002a).

A number of observations can be made about the contribution of SMEs as the Entrepreneurial Engine of East Asia (see Hall, 2002a). *First* it is clear that SMEs do provide the lion's share of growth. Typically, in the economies for which there are reliable data, about 70 percent of employment growth comes from SMEs. Anecdotally, even in economies for which there is no data, SMEs play a major role; for example almost all net employment creation in China, Vietnam and Indonesia in the last five to ten years has been in SMEs. In China and Indonesia, for example, large

firms have been net job destroyers as they downsize - a phenomenon also common in Europe and the USA.

Second, the Entrepreneurial Engine is underpowered in much of East Asia, especially in the less developed economies of China, Indonesia, Philippines, Thailand and Vietnam (see Harvie and Lee, 2002). In these economies there are simply fewer SMEs than might be expected. Table 2 indicates that the number of people per SME in these economies is much higher than in the more developed economies. This means that there are fewer start-ups, and the pool of SMEs from which high growth SMEs can emerge is much smaller. Consequently, there is less growth than there would otherwise be. In a very rough order of magnitude calculation, for these economies to achieve a benchmark level of 20 people per SME, there would have to be about 70 million new SMEs created (See Table 7). This needs to be compared with the 20 million or so SMEs in all of East Asia at present. This means 70 million or more people will need managerial skills and training. Most of these are in China. Table 7 suggests that there is considerable room for advancement in the development of SMEs in countries such as Indonesia and Thailand, two of the three most adversely afflicted economies during the period of the financial and economic crisis. Not surprisingly, these countries have given increased emphasis to SME sector development, with the objective of providing a firm base for sustainable economic recovery, an expansion in employment opportunities, and as a means of alleviating poverty particularly in some of the more adversely affected regions in these countries. This situation is also similar to that in China and Vietnam, where, for historical, political, and cultural reasons, the development of the SME sector has also been retarded. Hence the sheer potential for SME start-ups in countries such as China. Indonesia and Vietnam could be a major source of job creation and growth for these economies in the future. In economies like Vietnam and Philippines, there need to be about 3 million or more additional managers. In the past this would be seen as a government responsibility, but the task is just too enormous to even contemplate for most governments. Changing technology (notably the www, and especially WAP access to the www) are changing this, and making it more feasible for the private sector to train large numbers of managers in a relatively short period of time, but it will still need public-private cooperation to achieve the sort of growth that is needed (see Hall, 2002a).

Third, in developing East Asia the bulk of the SME contribution to growth will probably come from net start-ups while in developed East Asia the growth contribution will tend to come more from high growth firms. Start-up rates tend to be relatively low, especially in Japan, which is the largest economy in the region. Japan's net start up rate (domestically at least) has been negative for some time. Part of this is due to the country's prolonged economic downturn, and part of it is cultural and institutional inhibitions to risk taking and starting a business. These cultural and institutional factors need to be actively addressed if East Asia is to really make use of the potential of its Entrepreneurial Engine.

Fourth, the Entrepreneurial Engine is becoming increasingly internationalized. For example, a small but significant proportion of SMEs in Japan, Korea and Chinese Taipei have already expanded operations abroad; about 13 percent of Japan's manufacturing output is now sourced abroad. It is becoming easier for SMEs to operate across borders. This is partly as a result of efforts to reduce trade and non-trade impediments by WTO, APEC and ASEAN. It is also part of the general globalisation of business occurring as a result of improved communications

(particularly e-commerce and the web), other technological and social changes, and product fragmentation. This SME internationalisation is not limited to specific regions, such as East Asia, but is more global.

Table 7 Estimated benchmark SME numbers in developing East Asia (millions)

		population	estimated	benchmark	Additional
			number of	SMEs if ratio	SMEs needed
			SMEs now	is 20 people	to meet
				per SME	benchmark
China		1244.2	8.0	62.2	54.2
Indonesia		203.4	2.0	10.2	8.2
Philippines		71.4	0.5	3.6	3.1
Thailand		59.7	0.67	3.0	2.3
Vietnam		76.5	0.5	3.8	3.3
	Totals	1655.2	11.7	82.8	71.1

Source: Hall (2002a)

Table 8 provides a summary of key common features, differences and policy issues, in the profile of SMEs in East Asia discussed in this section.

Table 8 A Summary Profile of SMEs in East Asia/APEC

	Key features	Regional differences and policy issues
Numbers of Enterprises	1. There are about 20 to 30 million SMEs in East Asia. 2. They account for 98% of all enterprises. 3. Micro-enterprises account for about 73% of all private sector enterprises. 4. On average there are about 85 people for every SME.	1. Most of the SMEs are in China (8 million) and Japan (5 million) and Korea (2.6 million) which together have 70% of the SMEs in East Asia. 2. In developed economies there are only about 20 people per SME, but the ratio is above 100 in the developing economies, especially in China, Vietnam, Philippines and Indonesia.
Employment	5. SMEs employ about 60% of the private sector workforce, and 30% of the total workforce. 6. Micro-enterprises employ about 21% of total APEC wide employment. 7. Over 95% of enterprises employ less than 100 people, and over 80% employ less than 5 people. 8. SMEs contribute about 70% of net employment growth. 9. SMEs provide about 80% of employment in the services sector, and about 15% in the	3. In developing economies (below about \$15,000 USD per head income) SMEs employ about 75% of people, above \$15,000 the level is closer to 50%. Japan is a major exception - Japan's SMEs employ around 80% of the workforce. 4. More developed economies seem to have more medium sized SMEs and they play a greater role. Developing economies seem more likely to have a "missing middle". 5. In developed economies most of this growth probably comes from fast growth firms, in developing economies a higher proportion probably comes from net start ups.

Output measures (sales, value added etc)	manufacturing sector. 10. Women make up about 30% of employers/self employed in APEC – mainly in micro-enterprises 11. SMEs contribute about 50% of sales, value added or output.	6. The contribution varies from lows of 15% (Singapore) and 30% (Australia) to about 60% for most other economies.
Exports	12. SMEs generate about 30% of direct exports (US\$930 billion in 2000), much less than the SME contribution to employment (about 60% to 70%) or output (about 50%). 13. SMEs contribute indirectly to trade through supply chain relationships with other firms. SME contribution to total trade could rise to 50%.	7. SME exports figures are difficult to verify, but they range from about 5% or less (Indonesia) to around 40% (Korea) of total exports. 8. Tariff cuts have increased total APEC member trade, but the SME contribution to direct exports has remained static or declined. Reductions in tariffs have not benefited SMEs, more emphasis needs to be put on tackling non tariff barriers if SMEs are to benefit from trade expansion.
FDI	14. SMEs generate about 50% of cases of FDI, but only less than 10% of value of FDI.	9. Korean, Japanese and Chinese Taipei SMEs contribute most FDI originating in the East Asian region.
Entrepreneurial Engine, international potential, and the new economy.	15. SMEs already contribute the bulk of growth, and SMEs could make a much bigger contribution to the Asian regional economy if efforts were made to address impediments to SME internationalization. This could add as much as \$1.18 trillion in trade over a 5 year period. 16. SMEs moving towards services and away from agriculture and manufacturing.	10. The developing economies need to create about 50 to 70 million more SMEs if they are to achieve "benchmark" levels of SME activity. 11. To achieve maximum gain from trade it is essential to improve governance, building capacity, reducing transaction costs, promoting further liberalization, addressing non tariff barriers, increasing internet access and facilitating trade and investment to improve the capacity of SMEs to export. 12. Capacity building includes: access to finance; improved professional skills (IT, management, accounting and entrepreneurship); improved business infrastructure; removal of trade barriers that particularly adversely affect SMEs. 13. E-commerce use of SMEs lags larger enterprises. Important for cost saving and growth potential. Usage of technology a problem due to: set up and usage costs; lack of adequate infrastructure and IT skills.

Source: Hall (2002a, 2002b), supplemented by information from APEC (2002), and by the author.

Cross country comparisons – a caveat

Before concluding this section it is important to bear in mind that such cross country comparisons can be fraught with problems. In comparing and evaluating the role, contribution and significance of the SME sector across a number of regional economies it is also important to bear in mind a number of factors when evaluating any differences. These being: country resource endowments, economic structure, stage of economic development, institutions (government and market), culture, history and the heterogeneity of the SME sector itself. All of these can produce important

differences in their own right.

4. SME capacity building

General capacity barriers

In order for SMEs to fully participate in the process of globalisation they must develop capacities that will enable them to be internationally competitive in global markets. This will involve building upon the advantages possessed by them entrepreneurial spirit, flexibility, resourcefulness, and an ability to identify business opportunities and market niches based upon their unique products and services. Despite this they face a number of barriers in their development - their small size means that they have limited resources and access to finance, they lack economies of scale, they have high relative costs in accessing and utilising information technology, they have skill deficiencies in the utilisation of IT, they have entrepreneurial, managerial, accounting and marketing skill deficiencies, they lack information on market opportunities, they incur high transaction costs including that arising from accessing transport infrastructure and in the cost of transportation, achieving quality accreditation, they lack skills in dealing with customers both in the domestic market and in the export market, they have limited knowledge about language and culture as well as the legal and bureaucratic issues involved in exporting, they may experience a lack of business infrastructure support and in some countries may be discriminated against relative to large firms.

Building capacity, improving governance, reducing transaction costs, promoting further market liberalisation, addressing non-tariff barriers, increasing internet access, and facilitating trade and investment are all directly relevant to improving the capacity of small businesses to exploit export market opportunities and for their regional growth.

At the Ottawa meeting of APEC in September 1997, for example, five key areas of importance to the capacity building of SMEs were emphasised. These are access to: markets; technology; human resources; financing; and information.

Access to markets. SMEs are recognized as facing special problems relating to their size and that, in the context of rapid trade liberalization, they need to develop capacities to take advantage of opportunities arising from a more open regional trading system. The Internet is regarded as being of particular importance in this regard, as is the need to identify appropriate partners for joint ventures or strategic alliances, to harmonize standards and professional qualifications, including investment laws and taxation procedures, and the protection of intellectual property rights. As indicated in Table 8, despite cuts in average tariffs in APEC from 12 percent in 1995 to 8 percent in 2000 that resulted in an estimated growth rate in merchandise exports of 4.7 percent per annum during 1995-2000, there is a perception that small businesses have been unable to fully exploit opportunities to export. The SME contribution to direct exports has remained static or declined. Reductions in tariffs have not benefited SMEs, and more emphasis by regional governments needs to be put on tackling non-tariff barriers (customs procedures, mobility of business people, standards of labeling requirements, access to finance, recognition of professional qualifications, consumer protection particularly regarding on line transactions, and intellectual property rights) if SMEs are to benefit from trade expansion and to enhance their exporting capacity. Greater participation by SMEs in trade is likely to generate a number of benefits. With access to a larger market, individual firms will be able to benefit from economies of scale and generate additional revenue (APEC, 2002). In terms of efficiency, firms which expose themselves to more intense competition in global markets can acquire new skills, new technology and new marketing techniques. Exporters tend to apply knowledge and technologies at a faster rate and more innovatively than non-exporters. This can result in greater efficiency and productivity. A larger number of SME exporters assist skill and technology applications by spreading these over many small buyers and speeding up a multiplier effect, which extends the gains over the entire economy and not just firms that export. Ultimately, the economy will benefit from more flexible and environmentally responsive firms, higher growth rates and long-term improvements in productivity and employment levels. Exporting has a positive effect on living standards, as competition drives firms to invest in staff development, which in turn improves productivity, wages and working conditions. Exporting also encourages cultural diversity and the building of relationships and reputations with other countries.

Access to technology. In a knowledge-based economy, applications of information and communications technology can be a great leveler for SMEs. However, when SMEs have limited access or understanding of these technologies, their prospects of acquiring and utilizing these for their benefit is reduced. In terms of the Internet, e-commerce use amongst small businesses is currently lagging behind their larger counterparts (OECD, 2000c). However, many small businesses view e-commerce as providing cost savings and growth potential and the gap relative to larger enterprises is closing, but further action by regional governments will be required (in terms of improved infrastructure, cost, and IT training, as well as information relating to business opportunities that e-commerce can generate). Enhancing the role and participation of small businesses in the global marketplace through e-commerce will be of critical importance. E-commerce presents small businesses with the opportunity to compensate for their traditional weakness in areas such as access to new export markets and competing with larger firms. It can provide global opportunities by enabling the flow of ideas across national boundaries, improving the flow of information and linking increased numbers of buyers and sellers. This provides opportunities for greater numbers of trading partners dealing in goods and increasingly in services. Studies suggest that small businesses with higher levels of e-commerce capabilities are more likely to identify using e-commerce to reach international markets as an important benefit. Hence the desire to export for many SMEs may have a fundamental influence on promoting the rapid development of more advanced e-commerce capabilities. For many small businesses in the Asia-Pacific region, integrating the development of e-commerce into their future strategies for accessing international markets is seen as being crucial. E-commerce also has the potential to lead to cost savings and efficiency gains. Raising the awareness as well as the understanding of the benefits to be obtained from e-commerce will be important in increasing its uptake by small business. To incorporate the technology into their operations small business needs to find ways to deal with high set-up costs, as well as lack of adequate infrastructure and IT skills. If these can be overcome small business will play an important part in the region's 'new economy' at least as much as it will for

more traditional forms of commerce. In this regard the role of the government is likely to be crucial. This includes: development of the telecommunications infrastructure; addressing legal and liability concerns; ensuring that fair taxation practices are applied to e-commerce; addressing security issues; and raising the awareness of the business benefits of e-commerce, including the potential for export growth.

- Access to human resources. Human resource development for SMEs requires a comprehensive approach including: social structures and systems such as broad educational reforms; encouragement of entrepreneurship, business skills acquisition and innovation in society; mechanisms for self learning and ongoing training and enhancement of human resources; and appropriate governmental support programs. Among small and micro enterprises a shortage of skills in information technology and cost are major hindrances to business growth. Consequently, staff training in IT as well as in skills required to successfully enter export markets are required. Improved IT skills would enable: more efficient management of the business; workload sharing; and the development of more market opportunities including that of exports. Other desired exporting skills include language and cultural expertise, as well as legal and logistical knowledge.
- Access to financing. The opportunity to access small amounts of finance can be an important catalyst for small businesses to get access to the resources they need to gain a foothold in the market. This is particularly critical for micro-enterprises. Many SMEs lack awareness of financing resources and programs available from commercial banks and other private sector and government sources, and have difficulty defining and articulating their financing needs. Financial institutions, however, need to be more responsive to their needs.
- Access to information. Accurate and timely information on, for example, market opportunities, financial assistance and access to technology is crucial for SMEs to compete and grow in a global market environment. This is an important role that both the government and relevant business organizations can play

In addition to these key areas for capacity building, there is also the need to encourage the development of business networks, including the development of strategic alliances and joint ventures, and enhancing the innovative capacity of SMEs.

• Inter-firm networking. Entrepreneurs who develop and maintain ties with other entrepreneurs tend to outperform those who do not. A network is a group of firms using combined resources to cooperate on joint projects. Business networks take different forms and serve different objectives. Some are structured and formal, even having their own legal personality. Others are informal, where, for instance, groups of firms share ideas or develop broad forms of cooperation. Some aim at general information sharing while others address more specific objectives (such as joint export ventures). Soft networks generally encompass a larger number of firms than hard networks, with membership often open to all that meet a minimum requirement (such as payment of an annual fee). Networks have come to encompass agreements with research bodies, education and training institutions and public authorities. Hard networks are more commercially focused, involving a limited number of pre-selected firms, sometimes formally and tightly linked

through a joint venture/strategic alliance. Networks can allow accelerated learning. Moreover, peer based learning — which networks permit — is the learning medium of choice for many small firms. Furthermore, to innovate, entrepreneurs often need to re-configure relations with suppliers, which networks can facilitate. Networks can allow the sharing of overhead costs and the exploitation of specific scale economies present in collective action. Networks need not be geographically concentrated. Once trust among participants is established, and the strategic direction agreed, operation dialogue could be facilitated through electronic means.

Innovation. Recent studies have shown that despite the fact that a very small fraction of total business R&D in the developed economies is accounted for by SMEs, they contribute greatly to the innovation system by introducing new products and adapting existing products to the needs of their customers (OECD, 2000a). Small firms account for a disproportionate share of new product innovations despite their low R&D expenditures (Acs and Audretsch, 1990). In addition, they have also been innovative in terms of improved designs and product processes and in the adoption of new technologies. Investment in innovative activities is on the rise in SMEs and is increasing at a faster rate than that for large firms. Scherer (1988) has suggested that SMEs possess a number of advantages relative to large firms when it comes to innovative activity. First, they are less bureaucratic than highly structured organizations. Second, many advances in technology accumulate on a myriad of detailed inventions involving individual components, materials and fabrications techniques. The sales possibilities for making such narrow, detailed advances are often too small to interest large firms. Third, it is easier to sustain high interest in innovation in small organizations where the links between challenges, staff and potential rewards are tight. Firms in the developed high cost economies can no longer compete in labour intensive areas of production where they have lost their comparative advantage, but rather must shift into knowledge based economic activities where comparative advantage is compatible with both high wages and high levels of employment. This emerging comparative advantage is based on innovative activity. For the developed economies of East Asia their future international competitiveness will also depend upon their ability to develop a capacity in knowledge intensive firms, many of which will be SMEs based upon the experience of the developed OECD economies.

5. Government's role and support for SMEs⁸

Policies to support SMEs can be categorised according to their objectives (see Table 9): broad macroeconomic objectives, such as the creation of jobs or the reduction of unemployment; social or equity objectives such as the redistribution of income; market failure or efficiency arguments, which relate essentially to considerations of static efficiency; and dynamic efficiency arguments, in particular the promotion of innovative activities. It is apparent that there are broad areas where these policies overlap with those in other areas of concern, in particular with competition policy.

Macroeconomic objectives

⁸ This subsection draws heavily upon Harvie and Lee (2005)

Traditionally, government usage of selective policies to encourage the development of SMEs was predicated on the basis that this would generate employment, encourage economic development and generate more exports. However, the recent literature gives greater emphasis to the adoption of an essentially market oriented approach with the objective of achieving a level playing field for all enterprises. The basis of such an approach can be found, for example, in Revesz and Lattimore (1997) for the case of Australia and employment creation by SMEs. Revesz and Lattimore (1997) note that the argument that small firms are a major source of new jobs is based on inconclusive cross-sectional data, pointing out that no long-term longitudinal study of job creation has yet been undertaken. Further, even if it is true that small business has been responsible for more than a proportionate amount of net new jobs, it does not follow that policies to promote the SME sector are justified. First, they note that although the SME sector may be where many of the new jobs have been created, this does not mean that they are responsible for their creation and, indeed, they argue that many of the new jobs were created in this sector not because SMEs are better able to generate new jobs but because the products for which demand has increased are largely supplied by SMEs. That is, the recent trends in employment shares reflect changes in demand patterns in the economy (Lattimore et al., 1998) - and there is what Revesz and Lattimore (1997) term a "confusion of medium and cause". By implication, policies promoting SMEs will be misconceived if the pattern of demand shifts in the future.

Table 9 Categories of SME Support Policies

Macro objectives	 Creation of employment
	Economic development
	Export growth
Social objectives	Income redistribution
	Poverty alleviation in developing countries
Correction of Market	Presence of externalities
failure/inefficiency	Market access barriers
(static efficiency	Asymmetric information
objectives)	Small number of competitors
	• Information imperfection (lack of access to information
	about potential markets)
	Levelling the playing field
Dynamic efficiency	Promotion of innovation
objectives	

Source: Harvie and Lee (2005).

Second, Revesz and Lattimore (1997) argue that, given that the optimal size of the business unit is determined by technology and transaction costs, ⁹ government intervention may serve to distort the optimal distribution of firm sizes. Third, they argue that small firm survival rates are far lower than those for large firms, so that selective policies favouring small firm start-ups may increase turbulence, with

⁹ See the discussion under "number of competitors" below.

attendant social and economic costs. Fourth, subsidies imply higher taxes, which may reduce incentives to work in addition to creating distortions in other sectors of the economy. Further, any subsidies to one sector of the economy at the expense of other sectors, or financed by additional taxes, should be justified on the basis that the net welfare benefits to society of such subsidies are positive (Storey, 1994; Belli, 1997).

Fifth, Revesz and Lattimore (1997) point out the arbitrariness of the focus on job creation rather than job destruction — arguing that an equally arbitrary (and unsatisfactory) approach would be for an advocate of big business to argue for policies to stop job destruction on the basis that saving a job from being lost in a large firm is as valuable as creating one in a small firm; or for an advocate of a large public sector to argue against public sector rationalisation on the same grounds.

Sixth, most small firms do not grow much or contribute significantly to net job creation. Job creation policies are therefore better targeted at those firms that do grow rapidly, but this would require unusual facility on the part of policymakers in picking winners. A program to create jobs in SMEs is therefore not likely to be very successful in achieving its objective (Lattimore et al., 1998).

Seventh, even if it is true that SMEs have been responsible for most of the new jobs created in their economies in the recent past, a policy of assisting SMEs would not necessarily be the most effective way of creating new jobs. For example, a subsidy to SMEs to employ a previously unemployed person would not necessarily be more effective at eliciting a positive response from SMEs than it would from large firms along a range of dimensions such as the initial recruitment response, the duration of employment of any subsidised worker, the quality of the job and any associated training, and the extent to which participating firms would get a subsidy for a worker they would have hired anyway.

Finally, Revesz and Lattimore (1997) argue that government assistance programs for "small" firms can be counterproductive if they reduce the incentive for growth of businesses that are about to exceed the threshold definition of a small firm. Levitsky (1996) reports evidence from India in the 1980s indicating that the government's policies of concessional assistance to SMEs was "constraining the growth of many enterprises that preferred to stay small rather than lose their privileged status" and indeed may have reduced the competitiveness of industry as a whole.

Social objectives

Assistance to SMEs is sometimes justified by governments on the basis that the existing distribution of income is less than socially equitable. Aid agencies operating in developing countries have been drawn to provide assistance to small enterprises as a means of poverty alleviation and of improving the distribution of income (Levitsky, 1996). This is often tied in with other objectives such as creating employment, training, dispersing the benefits of development to rural areas and catering for rural markets through rural small enterprise programs, and promoting indigenous entrepreneurship. However, as Hallberg (2000) points out, "SME owners and workers are unlikely to be the poorest of the poor, so that SME promotion may not be the most effective poverty alleviation instrument."

For developed countries, the income redistribution justification may be even less compelling. Storey (1982) has argued, in the UK context, that financial assistance to small firms would most benefit the relatively wealthy who are more able to start new businesses — citing evidence that although there were more "working class" entrepreneurs than "middle class" ones, small firms were much more likely to be started up by people from middle-class backgrounds than by those with working class backgrounds.

In addition, there are more direct methods – such as income transfers – to achieve income redistribution objectives that are likely to be more effective than SME support policies (Hallberg, 2000).

Market Failure or Inefficiency

The conventional economic rationale for government intervention in markets based on market failure derives from the insight that competitive markets deliver optimal outcomes. According to the neoclassical economic paradigm, consumer welfare is maximised under conditions of perfect competition, and this outcome is Pareto-optimal, or ideal, in that no other outcome can achieve the same level of welfare for society as a whole (Van Cayseele and Van den Bergh, 2000). The conditions for markets to deliver Pareto-optimal outcomes are well known: many buyers and sellers in the market; a homogeneous product; perfect information regarding the availability of goods and services and the state of the technology; freedom of entry and exit by producers; and the absence of "spillover" or external effects. Under these stringent conditions, unencumbered markets represent the best way of organising the allocation of scarce resources.

Failure of the market to deliver competitive outcomes results when any of these conditions is not met to a significant degree, and may therefore warrant government intervention. From this perspective, perfectly competitive markets may be regarded as an ideal that, while unattainable by and large, can be approximated by a judicious mix of market-oriented policies and government intervention. However, the presence of market failure does not in itself justify government intervention. A market failure argument for government policy in favour of SMEs must demonstrate not only that there is a failure of the market in some sense but also – since, in general, subsidies to one sector of the economy have to be provided at the expense of other sectors or by way of additional taxes raised for the purpose – that such a policy is capable of delivering net welfare benefits to society as a whole.¹⁰

A related set of arguments pertains to competitive conditions that, for various reasons, may be a source of disadvantage to smaller firms relative to larger ones. Attempts to remove these sources of disadvantage can be called "levelling the playing field", so that SMEs can compete on a more equal footing with their larger counterparts. These are discussed below.

Presence of externalities

The presence of positive externalities or spillover effects from a particular activity is often taken as a justification for government involvement in that activity. Research and development activities, because they generate positive effects for external parties

¹⁰ See Belli (1997) for a good discussion of the role of government in relation to the market.

that are not fully appropriable by those undertaking the activities, fall into this category and government subsidies or direct grants are commonly employed to encourage them. From the viewpoint of SME policy, however, there is no particular reason why R&D that is undertaken by SMEs should be treated more favourably than if it is undertaken by large firms. The available research on the relative innovativeness of small versus large firms has been inconclusive despite extensive research into this issue since the 1950s. ¹¹ Other instances of externalities are discussed below.

Subsidies for small firm startups is sometimes justified on the basis that they create more employment than comparable assistance to large firms (Storey, 1982).

Number of competitors

Competition is an area where SME policy overlaps with other policy concerns. Firm start-ups are sometimes encouraged on the basis that they result in net additions to the existing stock of firms in an industry, and this is therefore a good thing if the number of the existing firms is too "small" (market concentration is "high") so that there is an insufficient degree of competition in that industry. However, a policy aiming to achieve a particular size distribution of firms in any industry would be misconceived. As Hallberg (2000) points out, there is in fact no optimal or ideal size distribution of firms, but rather an "equilibrium" size distribution determined by "resource endowments, technology, markets, laws, and institutions." Indeed, some of the factors that determine the equilibrium size distribution of firms – technology-determined economies of scale, resource endowments, and consumption patterns – are in a sense "natural" determinants of firm size (Hallberg, 2000) that are arguably best left to the determination of market forces.

Further, although a high market concentration has traditionally been regarded as conducive to the abuse of market power by firms, this is not necessarily the case: the opposite may be true, with more intense competition reducing profit margins and the number of firms that can survive in an industry (Symeonidis, 2000). Symeonidis (2000, p.22) argues that "[t]his means that concerns with the level of concentration need not take precedence over the need to ensure that competition remains effective, i.e., firms do not engage in collusive practices and no barriers to entry are created."

Information imperfection

A commonly cited disadvantage that SMEs are said to suffer is lack of information about potential or current markets, which hampers their ability to compete effectively and/or exploit potential market opportunities. Lattimore et al. (1998) cite evidence indicating that small firms experience greater difficulties than large ones establishing a distribution network in export markets and that they suffer more from lack of information. However, they argue that:

... greater difficulty is not, by itself, a good basis for policy intervention. An economic rationale for assistance to small firms to commence exporting would require that there was some failure which led to firms not exporting when the

¹¹ See Rothwell (1991, Table 4) for a summary of the advantages and disadvantages of small versus large firms in innovation.

¹² See also Gans and Quiggin (2003).

benefits of exporting – either private benefits or the sum of private benefits and other benefits to the rest of the economy – were greater than its costs. (Lattimore et al., 1998: 76)

Lattimore et al. (1998) list three types of externalities that may justify government intervention in the form of export assistance to SMEs. First, reputational externalities may exist in the form of a firm's marketing building up product reputations and market presence for other competitors from the same country as well as for itself – for example, Australian wines. Second, firms may learn a lot from leading-edge customers overseas and from the mere challenges of exporting, and there may be knowledge spillovers to other firms in the same country as the exporting firms. Third, firms entering new markets learn about how to sell in those markets and there may again be knowledge spillovers. The presence of spillovers, or externalities, Lattimore et al. (1998) argue, would provide the most durable theoretical case for export subsidies. However, it is likely that the size of the spillovers is relatively small, which would imply that any assistance should be correspondingly small.

Levelling the playing field

SMEs operate at a disadvantage relative to larger firms in a number of areas. Lack of access to finance and to technology are commonly cited as key areas of disadvantage suffered by smaller firms and constitute significant hurdles faced by SMEs.

Dynamic efficiency and the promotion of innovation

The market failure rationale for government intervention in markets is based on the notion of departures from static efficiency. In the kind of world envisaged by static efficiency arguments, the implicit assumption is that the technology of production is stable and that companies will compete on the basis of price and quality. However, a relatively recent occurrence has been the increasing focus on the importance of dynamic efficiency as an objective of policy (American Bar Association, 2002; Clarke and Evenett, 2003). A survey of competition policy regimes by Industry Canada (1995) found that "around the world, competition policy is increasingly recognised as a vital element of the framework for a dynamic market economy."

Dynamic efficiency is concerned with technological innovations enhancing welfare, and refers to "the use of resources so as to make timely changes to technology and products in response to changes in consumer tastes and productive opportunities" (Bureau of Industry Economics, 1996). As Audretsch et al. (2001) argue, "In a dynamic economy competition in product and process innovations may have a more significant effect on welfare, at least in the long run, than does any likely variation in price." UNCTAD (1998) is less equivocal, asserting that "[d]ynamic efficiency is probably the most important beneficial effect of competition." The conceptual underpinnings linking competition to dynamic efficiency or innovation are provided by Porter (1990), who argues that "healthy competition" is essential to delivering ongoing innovations in products, processes and methods, which in turn are critical to a country's prosperity.

The available research on the relative innovativeness of small versus large firms has been inconclusive despite extensive research into this issue since the 1950s. Policies

intended to encourage R&D activities in all firms regardless of their size, through grants and subsidies, therefore seem appropriate in this context. Indeed, the evidence would seem to suggest that it is technological opportunities, rather than firm size, that explain firm innovativeness (see, for example, Scherer, 1970; Shrieves, 1978; Cohen and Levinthal, 1989; and Geroski, 1990). However, it is generally accepted that smaller firms, because of their relatively low levels of employment of technical specialists, are disadvantaged relative to large firms in a number of areas, including establishing communication with external sources of scientific and technological expertise and knowledge. From the viewpoint of their management, there are opportunity costs in seeking out appropriate external sources of technical and other advice (Rothwell, 1991).

The role of government is crucial in supporting the further development of the private SME sector in both developing and transitional economies. Its primary objective should be to provide an enabling environment that will facilitate capacity building in the sector. Such a role should focus upon the establishment of a conducive macroeconomic environment and enhancement of the micro-environment within which the private sector, specifically SMEs, operates. A summary of the key issues is contained in Table 10.

At the macroeconomic level establishing and maintaining economic stability is an essential foundation for sustainable growth and development. Low budget deficits and inflation are key prerequisites for the development of a sound private sector and the establishment of new businesses. A pro business environment with clear recognition of the rights of private enterprises including intellectual property rights is essential for the development of domestic private enterprises and for the attraction of FDI. A stable, transparent and competitive exchange rate is also seen by many private enterprises as essential. Government can create business opportunities for its domestic private enterprises by participating in regional trading arrangements and the WTO. Establishing a broad national development and poverty strategy that embeds strategies for the private sector and SMEs is also important. Through the educational and training system provide and encourage the acquisition of business skills in such areas as finance, marketing, management and accounting, and, finally, ensure the health and productivity of its workers by means of access to good health facilities in both the cities and countryside.

At the microeconomic level a number of tasks will be required of the government. These include: simplifying and making more transparent the legal and regulatory systems; reducing the compliance and transaction costs for private sector businesses; reducing the costs of firms moving from the informal to formal sectors; continue and speed up ongoing market reforms and deregulation; ensure good corporate governance; tackle corruption; enhance access to finance; provide suitable infrastructure; ensure sufficient skilled workers enter the labour market; ensure a level playing field treatment for all enterprises; encourage the appreciation of enterprise in society; commit and maintain multi sector ownership of enterprises; develop an institutional environment where contracts are enforced and property rights are established and clear; ensure that legislation and regulation are gender insensitive; introduce land/bankruptcy legislation that ensures access to land for SMEs and clear land use rights, and eliminates unduly high penalties on entrepreneurs and lenders

Table 10 Summary – Role of Government

Macroeconomic environment	Microeconomic environment
1. Economic stability	1. Simplified legal/regulatory systems
2. Low budget deficits	2. Lower compliance (administrative costs) and transaction costs for small business and especially in regard to exporting
3. Low inflation	3. Low formalizing costs (easy and transparent firm registration, business licensing requirements minimized, and tax costs))
4. Pro business environment	4. Continue and speed up ongoing market reforms, liberalization and deregulation
5. Stable/competitive exchange rate	5. Improve the export capacity of SMEs by addressing non tariff barriers, increase internet access, facilitate trade and investment, and remove trade barriers that particularly adversely affect SMEs.
6. Trade negotiations and reducing trade barriers (ASEAN, WTO)	6. Good corporate governance
7. Economic integration	7. Absence of corruption (transaction costs)
8. Broad National Development and Poverty Strategy, embedding strategies for the private sector and SMEs (SEDS).	8. Access to finance (use of SME assets as collateral)
9. Education/training and health system	9. Provision of suitable infrastructure – communications, transport and utilities 10. Skilled workforce
	11. Level playing field treatment of all enterprises
	12. Appreciation of enterprise in society
	13. Establish multi-sector ownership
	14. Develop an institutional environment where contracts are enforced and property rights established and clear
	15. Legislation and regulation gender insensitive
	16. Land/bankruptcy legislation that ensures access to land for SMEs and clear land use rights, and eliminates unduly high penalties on entrepreneurs and lenders arising from SME failure.
	17. Encourage the establishment of industry organizations that will represent the interests of members and provide market information.
	18. Identify existing regional networks and regional competitive advantage and use this as the basis for building a competitive regional cluster.

Source: Author

arising from SME failure; and encourage the establishment of industry organizations that will represent the interests of members and provide market information.

Government assistance can also play an important role in the business and exporting success of SMEs through access to finance, infrastructure provision, the provision of training programs, reducing bureaucracy and establishing a pro-business environment, staging of seminars and trade fairs, addressing non tariff barriers, increasing internet access, facilitate trade and investment, and remove trade barriers that particularly adversely affect SMEs. Support at the local level through investment in infrastructure that assists directly the business efficiency of small business is important. Examples include transport and information technology infrastructure, both of which are important for export success. Policy makers also need to focus on removing barriers affecting trade. Barriers to trade for small businesses are not just tariff related, however, but also involve issues of product presentation standards, *warehousing* and financial transactions. Because small businesses lack the economies of scale and the internal expertise of larger businesses they need more practical external support.

6. SME and regional competitiveness strategies

The ability of SMEs to create, access and commercialize knowledge on global markets will become an increasingly important source of their new competitiveness in global markets. Based upon the experiences of developed country members of the OECD, some of the principle competitiveness strategies that have been used by innovative SMEs in these countries at the regional and national levels have included the following (see OECD 2000a, p.11):

- *Innovation strategy*, in which SMEs try to appropriate returns from their knowledge base (which may or may not involve own investments in R&D).
- *Information technology strategy*, which makes innovative uses of information technology in order to reduce SME costs and increase productivity.
- *Niche strategy*, in which SMEs choose to become sophisticated global players in a narrow product line.
- Network strategy, in which SMEs work and co-operate with other firms, be they SMEs or large enterprises, in order to improve their ability to access and absorb innovations.
- Cluster strategy, in which SMEs locate in close proximity with competitors in order to take advantage of knowledge spill-overs, especially in the early stages of the industrial lifecycle (key strategy at the regional level).
- Foreign direct investment strategy, in which SMEs exploit firm specific ownership advantages overseas.
- Supply chain strategy, where SMEs attempt to take advantage of TNC outsourcing, arising from the fragmentation of production, by linking in to the supply chain of large companies. This can enable access to technology and new management skills, however it also requires SMEs to achieve the level of technology, quality and reliability of supply demanded by large companies.

Membership of clusters and inter-firm networks can enhance the productivity, rate of innovation and competitive performance of firms (OECD, 2000b). Clusters and networks can allow small firms to combine the advantages of small scale (flexibility)

with the benefits of large scale (economies of scale). A clusters policy provides a framework for dialogue and cooperation between firms, the public sector (local and regional governments) and non-governmental organizations. This dialogue can lead to efficiency enhancing collaboration amongst firms, such as in joint marketing initiatives, the creation of mutual credit guarantee associations, joint design and sponsorship of training, a more efficient division of labour amongst firms etc. In a period of globalization, inter-firm networks hold the promise of allowing small firms to compete on a par with larger companies. Networks can allow firms to engage in accelerated – and peer based – learning. They can facilitate the re-configuration of relationships with suppliers, and offer scope for increased efficiency through collective action. As with clusters, networks can pave the way for greater specialisation amongst small firms, opening opportunities for economies of scope and scale. While not all networks need be geographically concentrated, networking of different sorts is central to the competitive advantage derived from membership of a cluster.

The idea that there are gains in clustering goes back a long way in industrial economics. It goes back to Alfred Marshall's analysis of industrial districts in the UK. Marshall stressed the economies which 'can often be secured by the concentration of many small businesses of a similar character in particular localities' (Principles of Economics, 8th edition, 1920, p.221) 13. He refers to such gains as 'external economies' and sees them as particularly relevant to small firms. The concept of external economies is introduced by Marshall in order to draw out (1) why and how the location of industry matters, and (2) why and how small firms can be efficient and competitive. He means a cluster with a deep inter-firm division of labour. Schmitz (1995) argues that until fairly recently the phenomenon of industrial groupings had largely been ignored by mainstream economics. The exception to this being Krugman (1991) who, following Marshall (1920), identified three specific external economies that impacted upon a firm's choice of a given geographical setting:

- the existence of a pool of adequate labour
- the existence of specialized suppliers,
- the possibility of external spill-overs, the rapid transfer of know-how and ideas

These three conditions tend to be present primarily in industrial districts or, using more contemporary nomenclature - clusters. For example, the work of Piore and Sabel (1984), Pyke, Becattini and Sengenberger (1990) and Pyke and Sengenberger (1992) presented the Italian experience as a particular model of industrial development in which the emergence of linkages and cooperation between SMEs provides economies of scale and scope. Far from being handicapped by size, clusters of SMEs (it was argued) have the advantages of flexibility and responsiveness, enabling them to become more competitive than large firms. In developing countries this need has become particularly pressing as trade liberalization and deregulation increase competitive pressures and reduce the direct subsidies and protection which states can offer to SMEs.

-

¹³ See also Weber (1929).

The concept of external economies 14 is essential to understand the efficiency advantages which small firms derive from clustering. There remained the problem, however, that the concept is restricted to unplanned gains or losses. As stated by Mishan (1971, p.2), 'the essential feature of the concept of an external effect is that the effect produced is not a deliberate creation but an unintended or incidental byproduct of some otherwise legitimate activity'. While such incidental effects are of considerable importance in the establishment and development of contemporary industrial districts, it is also important to emphasize consciously pursued joint action (see for example Brusco, 1990; Piore and Sabel, 1984). Such joint action can be of two types, individual firms cooperating (for example, sharing equipment or developing a new product) and groups of firms joining forces in business associations, joint organization of a presence at a trade fair aimed at entering a foreign market, producer consortia and their equivalent. Hence Schmitz (1995) argues for the addition of a fourth element to the three already mentioned - that of collective efficiency. Collective efficiency can be defined as the competitive advantages derived from local external economies (incidental) and collaborative action, and emphasizes that competitiveness can neither be understood nor enhanced by focusing on individual firms alone. While the first three factors are examples of local economies and occur in clusters spontaneously, that is without a voluntary decision by firms to engage in cooperation with others, it is the voluntary, planned, cooperation which can provide a key driving force to firms located in a given cluster¹⁵.

From a policy making perspective the importance of such voluntary cooperation implies the need for clusters to contain a large number of firms, and the establishment of institutions that promote, organize and manage that cooperation. A clearer understanding of what brings about this collective efficiency is, therefore, of importance for policy. Stress on collective efficiency, however, should not be interpreted to mean denying competition among firms. Rivalry is often particularly severe amongst clustering producers, but this need not stop them from joint forces to overcome common bottlenecks in infrastructure, input supply or access to distant markets. It is the combination of competition and cooperation which drives the search for improvement. Hence the role of government is potentially very important in this regard.

Although most of the literature on clusters emphasizes their success in enhancing the production process of individual firms, it is also worth emphasizing that successful clusters provide commercial and distribution advantages. For example distant buyers would go to a cluster since they find in that place a variety of products on offer, thus facilitating cluster firm's access to distant clients. Another example is that of product quality certification processes, a marketing tool, which need a collectively-certifying

¹⁴ Samuelson views external economies as a type of inefficiency that does not allow a firm to appropriate, via the price of its goods, all the advantages derived from its economic process: some of it goes to other firms, since the walls of a cluster are likely to be porous.

¹⁵ Rabellotti (1995) argues that external economies range from static gains such as easy availability of inputs, to dynamic gains such as the fast spread of new ideas of how to innovate. Being in the same sector and location also facilitates taking joint action which again can range from more static concerns such as associations defending local producers in disputes with government or dynamic concerns such as taking groups of local producers to foreign trade fairs in the search for new markets.

institution. Hence there are commercial as well as production aspects of clusters that are essential for their success.

7. Conclusions and policy implications

This paper has reviewed the strategic importance of SMEs to economic development, growth and integration in East Asia, the importance of building their capacity, the role of government in their development and competitiveness strategies emphasizing the importance of networks and clusters. Their potential contribution to trade and investment in the East Asian region is substantial, and if issues adversely affecting their export contribution and competitiveness can be overcome they are likely to play a pivotal role in facilitating further regional economic integration. A number of key issues for policy makers were identified.

First, SMEs are important to economic growth, and are especially important to jobs and job creation. SMEs already contribute over half the private sector jobs in the East Asian region, and about 70 percent of new job creation seems to be coming from SMEs. In developing economies the contribution of SMEs to employment tends to be higher, around 70 percent of the workforce, but as economies develop to higher income per head levels the contribution to employment by SMEs tends to decline to around 50 percent. In developing economies the jobs tend to be created more by startups, but in the developed economies jobs seem to be created more by high growth SMEs. It is important for policy makers to understand and to foster the way this Entrepreneurial Engine works and evolves.

Second, the Entrepreneurial Engine in developing East Asia is underpowered. That is the job creating potential of SMEs is less than it could be. There are about 2 billion people in East Asia, and about 20 million SMEs. In most of the developed economies there are about 20 people per SME, but in developing East Asia there are about 100 people per SME. This means that the ability to create jobs by start-ups is greater, and the pool of SMEs from which fast growth SMEs emerge is smaller. This is largely due to historical and political reasons; for example, China and Vietnam have only recently pursued policies to stimulate SME growth, and there is considerable opportunity for their expansion. Policy makers in both the developing and developed economies need to work with the private sector to address this aspect of catch up. Expanded ASEAN integration to include that of China presents major market opportunities for the regional SME sector.

Third, from a global perspective SMEs have more opportunities now than ever before, but they seem to be growing only at about the same rate as the international economy. SMEs contribute about 30 percent or so of direct exports, about what they contributed at the start of the 1990s, which is less than what might be expected in an increasingly globalized economy and with increased trade opportunities through product fragmentation in East Asia. Part of the problem here is the paucity of statistics on SME international activity. Part of it is that the trade barriers that *have* been addressed so far by APEC and WTO tend to favour larger trading firms, and do not address the more specific non-border non-trade impediments that SMEs tend to be obstructed by when operating across borders. These impediments need to be identified and addressed more aggressively.

- Economic Cooperation Council Human Resource Development Task Force, Hua, Taiwan, October 21-22.
- Hall, C. (2002a), Profile of SMEs and SME Issues in East Asia, in C. Harvie and B.C. Lee (eds.), Chapter 2, pp.21-49, The Role of Small and Medium Enterprises in National Economies in East Asia, Edward Elgar, Cheltenham, UK, Chapter 2, pp.21-49.
- Hall, C. (2002b), Small business and trade in APEC, a report prepared for the APEC Ministers Responsible for Trade Meeting, Puerta Vallarta, Mexico, 29-30 May 2002.
- Hallberg, K. (2000), A Market-Oriented Strategy for Small and Medium-Scale Enterprises, IFC Discussion Paper No. 40, World Bank, Washington, D.C.
- Harvie, C. (2002), The Asian Financial and Economic Crisis and Its Impact on Regional SMEs, in C. Harvie and B.C. Lee (eds.), Globalization and Small and Medium Enterprises in East Asia, Edward Elgar, Cheltenham, UK, Chapter 2, pp.10-42.
- Harvie, C. and Lee, B.C. (2002) (eds.), The Role of Small and Medium Enterprises in National Economies in East Asia, Edward Elgar, Cheltenham, UK.
- Harvie, C. and Lee, B.C. (2005), "SME Development Programs: a Critical Review", Journal of International Business and Entrepreneurship, Vol. Ll, No.1, pp. 1-18, January.
- Hill, Hal, (1995) "Small and Medium Enterprise and Rapid Industrialization: the ASEAN experience, *Journal of Asian Business*, Vol.11, No.2, pp.1 30.
- Hirst, P. (1997), The Global Economy myths and realities, International Affairs, Vol.73, No.3, pp. 409-425.
- Industry Canada (1995), "Competition Policy as a Dimension of Economic Policy: A Comparative Perspective", Occasional Paper No. 7, May.
- Krugman, P. (1991), Geography and Trade, MIT Press, Cambridge.
- Kumar, K.B., Rajan, R.G. and Zingales, L. (2001), "What Determines Firm Size?" University of Chicago, CRSP working paper 496, Chicago, USA
- Lattimore, R., Madge, A., Martin, B. and Mills, J. (1998), "Design Principles for Small Business Programs and Regulations", Staff Research Paper, Productivity Commission, Australia, August.
- Levitsky, J. (1996), "Support Systems for SMEs in Developing Countries: A Review", Paper commissioned by the Small and Medium Industries Branch, United Nations Industrial Development Organization, March.
- Marshall, A. (1920), Principles of Economics, 8th edition, Macmillan, London.
- Mishan, E. (1971), "Externalities", Journal of Economic Literature, Vol.9, pp.1-28.
- OECD (1997), Globalization and SMEs, Vol. 1 and 2, OECD, Paris.
- OECD (2000a), Enhancing the Competitiveness of SMEs through Innovation, Workshop paper No. 1, Bologna Meeting, OECD, Paris.
- OECD (2000b), Local Partnership, Clusters, and SME Globalization, Workshop paper No. 2, Bologna Meeting, OECD, Paris.
- OECD (2000c), Realizing the Potential of Electronic Commerce for SMEs in the Global Market, Workshop paper No. 3, Bologna Meeting, OECD, Paris.
- Piore, M. J. and Sabel, C. F. (1984), The Second Industrial Divide Possibilities for Prosperity. USA: Basic Books.
- Porter, M.E. (1990), The Competitive Advantage of Nations, The Free Press, New York.
- Porter, M.E. (1998), "Clusters and the new Economics of Competition", *Harvard Business Review*, pp.77-90.

- Pyke, F., Becattini, G. and Sengenberger, W. (1990) (eds.), Industrial Districts and Inter-firm Cooperation in Italy, International Institute for Labour Studies, Geneva.
- Pyke, F. and Sengenberger, W. (1992), Industrial Districts and Local Economic Regeneration, International Institute for Labour Studies, Geneva.
- Rabellotti, R. (1995), "Is there an 'industrial district model"? Footwear districts in Italy and Mexico compared, *World Development*, Vol.23, No.1, pp.29-41.
- Revesz, J. and Lattimore, R. (1997), "Small Business Employment", Industry Commission Staff Research Paper, Industry Commission, Canberra, August.
- Rothwell, R. (1991), "External Networking and Innovation in Small and Medium-Sized Manufacturing Firms in Europe", *Technovation*, Vol. 11 No. 2, pp.93-112.
- Scherer, F.M. (1970), *Industrial Market Structure and Economic Performance*, Chicago: Rand McNally.
- Scherer, F.M. (1988), "Corporate Takeovers: The Efficiency Arguments," Journal of Economic Perspectives, Vol. 2, No.1, pp.69-82, Winter.
- Schmitz, H. (1995), "Collective Efficiency: Growth Path for Small-Scale Industry", Journal of Development Studies, Vol.31, No.4, pp.529-566.
- Shrieves, R.E. (1978), "Market Structure and Innovation: A New Perspective", Journal of Industrial Economics, Vol. 26, pp.329-347.
- Storey, D.J. (1982), *Entrepreneurship and the New Firm*, London and Canberra: Croom Helm.
- Storey, D.J. (1994), Understanding the Small Business Sector, London: Routledge.
- Symeonidis, G. (2000), "Price Competition and Market Structure: The Impact of Cartel Policy on Concentration in the UK", *Journal of Industrial Economics*, Vol. 48 No. 1, March, pp.1-26.
- Thee, K.W. (1994), Indonesia, in S.D. Meyanathan (ed.), Industrial Structures and the Development of Small and Medium Enterprise Linkages: Examples from East Asia, World Bank, Washington, D.C..
- Van Cayseele, P. and Van den Bergh, R. (2000), "Antitrust Law", in Boudewijn Bouckaert and Gerrit De Geest (eds.), *Encyclopedia of Law and Economics, Volume III. The Regulation of Contracts*, Cheltenham, UK: Edward Elgar, pp.467-497.
- Weber, A. (1929), Theory of the Location of Industries, University of Chicago Press, Chicago.
- You, J.I. (1995), "Small Firms in Economic Theory", Cambridge Journal of Economics, Vol.19, pp.441-462.