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Coping Liability of Foreignness:
Different Learning Engagements of Entrant Firms

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COPING WITH LIABILITY OF FOREIGNNESS: DIFFERENT LEARNING ENGAGEMENTS OF ENTRANT FIRMS

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Abstract

Much has been written about how international firms create and sustain firm-specific advantages that offset their liability of foreignness. Less attention has been devoted to the question of how international firms reduce their liability of foreignness. It is the contention of this study that entrant firms familiarize with foreign markets at different pace and to some extent are these differences due to varying management control of entrant firms. Thus, whereas the general approach to the liability of foreignness issue has been somewhat deterministic the study emphasize managerial discretion as a potentially important factor. The data from a sample of 494 international firms from Sweden, Denmark and New Zealand suggest that entrant firms’ learning engagement, i.e. the effort and ability to learn how to conduct business in a foreign environment, varies considerably. In particular, adoption of standardized, international business routines and unwillingness to adapt products and marketing practices to local markets seem to be associated with a low learning engagement. The data also indicate that a large proportion of the entrant firms have been engaged in pre-entry learning.

Keywords: Liability of foreignness; learning engagement; managerial discretion.

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1. Introduction

In this research note we examine the learning aspects of liability of foreignness. An entrant firm’s liability of foreignness is composed of different barriers of more or less permanent nature, and to varying degrees are these barriers susceptible to management control. Thus, foreign exchange risks and discrimination by local governments and consumers are of more permanent nature and can only to a limited extent be influenced by managers of entrant firms. Where the management of the entrant firm can make a significant difference is in relation to the unfamiliarity with the local business environment. Local firms have the general advantage of being better informed about their country: its economy, its language, its law, and its politics (Hymer, 1960). But the entrant firm can learn about these conditions.

A large sample including international firms from Sweden, Denmark and New Zealand will provide empirical evidence of different levels of unfamiliarity with the foreign business environment as perceived by the entrant firms. We examine to what extent different levels of foreign market familiarity are associated with particular management control factors of entrant firms. The answering of this question is of interest to both international business theorists and practitioners of international business. Theory of internationalization processes can be fertilized by a better understanding of how entrant firms lower their liability of foreignness through engagement in learning (and thereby reduce the need for firm-specific advantages vis-à-vis local firms). Furthermore, managers of international firms are inherently interested in improving the learning capabilities in relation to foreign market entries.

The remainder of the research note is organized as follows: Section two gives a review of studies dealing with theoretical and conceptual aspects of liability of foreignness in terms of foreign market unfamiliarity. Section three: On the basis of
the literature review we present a conceptual model of ‘learning engagements’ of entrant firms in relation to liability of foreignness, and we identify three different learning engagement strategies. Section four accounts for the data compilation procedure and the sample characteristics. Section five reports the results of a cluster analysis and discusses relationships between management control factors, learning engagement, and liability of foreignness in terms of market unfamiliarity. The sixth section concludes and discusses the managerial implications of the study.

2. Previous studies on learning and liability of foreignness

Our literature review is limited to previous studies that have looked at liability of foreignness from a learning perspective and which have contributed to the theorization and/or conceptualization of this issue. The ‘liability of foreignness’ concept was introduced by Stephen Hymer in his seminal thesis study from 1960 (published in 1976). Hymer supposed entrant firms to be disadvantaged vis-à-vis local firms due to foreign exchange risks and unfamiliarity with the business conditions of the foreign market. Searching for an explanation of foreign direct investments. Hymer contrasted production subsidiaries with license agreements, where the latter foreign operation method was to be considered as the default solution since no liability of foreignness would hamper the local licensee. The managerial choice was that of ‘make’ or ‘sell’ of proprietary knowledge or trademarks. Or, phrased differently, internalization versus externalization. In the case where internalization was preferred by the foreign firm learning about the local business environment would not start until after the establishment. Evidently, with no experience obtained in the foreign market expectably the liability of foreignness would be quite high initially. To what extent – or how – the entrant firm would bring
down its liability of foreignness after an establishment was not made subject to
discussion in Hymer’s thesis, or in his later works. To Hymer’s theoretical successors,
the internalization theorists (Buckley and Casson 1976; Hennart 1982) these learning
processes were not the concern, either, inasmuch as a static make-or-sell approach
was maintained.

The empirical study by Zaheer and Mosakowski (1997) suggests that the
liability of foreignness is likely to diminish with elapsed time. Zaheer and
Mosakowski therefore concluded that instead of looking at the costs of doing business
abroad as some static costs one should rather see them as costs that decline when
firms gain more knowledge on the local market. Also in contrast to Hymer (and the
internalization theorists), the internationalization process theorists (Johanson and
Wiedersheim-Paul, 1975; Johanson and Vahlne, 1977; Welch and Wiedersheim-Paul,
1980) assumed entrant firms to learn about the foreign markets before they ventured
into any establishments, i.e. foreign direct investments. The entrant firms would
acquire knowledge about the local business environment in two ways. First, entrant
firms would typically enter a foreign market through local operators (e.g. sales agents)
and tap these operators for knowledge about local business customs, local legislation,
and local suppliers and customers. Not until a sufficient level of knowledge was
tapped would the entrant firm engage in a foreign direct investment. So, instead of
presenting a choice between externalization and internalization - as Hymer did - the
process theorists expected the typical route of foreign market penetration to be
externalization (by use of local, independent operators) followed by internalization.
Secondly, firms would enter foreign markets of successively greater psychic distance,
implying that foreign markets in which a firm already operated would function as
‘steppingstones’ to new markets. Together, the stepwise expansion in terms of
geography and resource commitment would bring down substantially foreign market unfamiliarity prior to the establishment of a subsidiary. Not only would the entrant firm have learned from its conduct of businesses in similar foreign markets (pre-entry learning), but also from the local operators (post-entry learning). The spillover effects from market to market in terms of learning are not quite concordant with the important role that Johanson and Vahlne (1977) ascribed market-specific knowledge in the internationalization process of firms. But, as Casson (1993) has pointed out, it is difficult to conceive psychic distance patterns of firms without assuming some sort of scope economies with respect to learning about foreign market environments. In a similar vein, Barkema et al. (1996) point out that centrifugal expansion patterns are more successful than random, diversified expansion routes. They identify a ‘locational path of learning’ in relation to firms’ engagement in foreign ventures. The firms that followed this path of learning benefited substantially from their previous experience in the same country, but also - although to a lesser extent - from previous expansion in culturally adjacent countries (the firms benefited the least from previous ventures in culturally distant countries).

An assumption made in the internationalization process theory was that the entrant firm’s acquisition of knowledge about the foreign market would reduce the perceived uncertainty and, in turn, encourage to more resource commitment in that market. However, the research done by Welch and Wiedersheim-Paul (1980) indicated that some firms perceive higher levels of risk and uncertainty as internationalization proceeds, in response to increased information and knowledge.

Another assumption of the internationalization process theory was that a firm would perceive its liability of foreignness to be relatively little in similar, neighboring countries and great in distant and cultural dissimilar countries. In other words, a firm
would expect to perform better in foreign countries associated with little ‘psychic distance’. But, as Evans et al. (1992) point out, firms may overestimate the similarities across neighboring countries. Even countries that share language, historical, and legal traditions, often have very different institutions that do not allow the simple transfer of business practices and attitudes across borders. Evans et al. (1992) provide many examples of Canadian retailers that performed poorly in the United States due to the large differences in the operating environment between countries. In fact, many of the examples that they present show that the differences in the business environment between Canada and the U.S. were more profound than the managers had expected. Moreover, the growing literature on survival of firms in foreign nations suggests that foreign investment into close countries often fails (e.g. Mitchell, Shaver and Yeung, 1994).

3. Conceptual model of learning engagement

Building on the above literature review we can develop a conceptual model of how the learning engagement affects the liability of foreignness, and – in particular – what underlying factors the learning engagement of the entrant firm may be contingent upon, see Figure 1.

--- Insert Figure 1 about here ---

As pointed out by Hymer (1976) the liability of foreignness is composed of three factors (indicated by the octagonal boxes in Figure 1): Exchange risk of operating businesses in foreign countries, local authorities’ discrimination against foreign companies, and unfamiliarity with local business conditions. It is the task of the entrant firm manager to mitigate, by various means, these three ‘liabilities’. Here, we concentrate on the mitigation of unfamiliarity with the local market through
engagement in learning activities. The learning engagement of the entrant firm is triggered by the unfamiliarity with the foreign market as perceived by the management of the entrant firm. In addition, elapsed time of operations in the foreign market is supposed to affect the quality of the learning engagement of the entrant firm. Apparently, elapsed time per se does not bring about knowledge about foreign markets. If no activities take place in the foreign market the entrant firm, or if activities are extremely restricted by certain organizational routines leaving no room for variation, the learning effect will expectably be close to zero. And yet, Eriksson et al. (1998) has demonstrated that ‘time’ in itself is strongly correlated with internationalization – even more than the conduct of business activities. Without the necessary time available an entrant firm cannot absorb the experience from its current business activities. In the same vein, Barkema et al. (1996) submit that learning is inherently incremental, and the speed with which firm expand internationally is subject to diminishing returns from efforts to speed up the process. Hence, the elapsed time of operation affects the ability of the entrant firm to learn about the foreign market in question. But, of course, the ability to learn may also rests on more general skills of the entrant firm. For example, it is conceivable that as a part of gaining experience with international operations firms also ‘learn how to learn’.

Even more than the ability to learn about foreign markets is the learning effort susceptible to management control. The model outlines two management control factors that potentially affect the learning engagement of the entrant firm: One is the willingness to involve the firm in adaptation to the local business environment that are specific to the foreign market (including customer needs, management styles, and business ethics, etc.). The other management control factor related to the learning
effort is the extent to which the entrant firm adopts standardized, international business routines.

To summarize, the conceptual model of the study presents the liability of foreignness as (potentially) susceptible to management control of the entrant firm: The managers exercise control over the ability and – in particular – the willingness to reduce the foreign market unfamiliarity through learning engagement.

As an extract from the literature review in Section 2 the management of the entrant firm can choose among basically three different learning strategies: The management can desist from engaging the firm in any learning. Either because the management of the firm – rightfully or not - considers the foreign environment very similar to that of the home country, or because the entrant firm managers subscribe to a global standardization strategy and therefore resist any local modification of existing company practices/routines or product specifications. On the other hand, if the management finds it desirable to engage in learning this can take place both before (pre-entry) and after (post-entry) the entry. In reality, the learning process of firms’ internationalization is seldom a product of rational and deliberate management control, as pointed out by internationalization process theorists (Johanson and Vahlne, 1977; Welch and Wiedersheim-Paul, 1980), but rather subject to emerging strategies, post-rationalization, and improvisation. Nevertheless, for expository reasons we will maintain these three learning engagement strategies as decision alternatives for the management of entrant firms.

--- Insert Figure 2 about here ---

In Figure 2 the three learning engagement strategies are related to (1) the familiarity of the entrant firm with the foreign market, and (2) the elapsed time of
operations in the foreign market. In case of engagement in pre-entry learning the familiarity with the foreign business environment is expectably high even though the elapsed time of operations in the foreign market is short. Conversely, in the case of post-entry learning engagement the initial familiarity with the local business environment will be low, but over a period of time the firm will familiarize with the business environment. Finally, in the case of low (or none) learning engagement the firm will remain un-familiarized with the local business environment.

In the balance of this research note we shall look at a sample of international firms and the distribution of these firms among the three different learning engagement strategies.

4. Data compilation and sample characteristics

4.1. Data compilation

The data of the study were gathered through a mail survey. The survey was part of an international research project, ‘Learning in the Internationalization Process’, including researchers from Denmark, Finland, New Zealand, South Korea, and Sweden. A pilot study was conducted in 1997 in which ten managers of Swedish international firms were asked to answer the questionnaire in a personal interview situation. In all the five countries the local researchers sent out a standardized questionnaire. Because the sample definition varied somewhat from country to country only the data for Sweden, Denmark and New Zealand were considered consistent and therefore usable for this particular study.

Local databases in Denmark, New Zealand and Sweden were used to identify companies with: (1) more than 20 employees (2) international operations, including export and foreign direct investment. In 1998 the questionnaires were sent out to identifiable informants – primarily managing directors. Most questionnaires were
completed by the managing director or by another top executive. A reminder was mailed one month after the initial mailing. Upon this follow-up procedure the number of usable replies reached 201, 117 and 176 in Denmark, New Zealand and Sweden, respectively. This corresponds to net response rates of 27, 20 and 35 per cent, respectively. A test was conducted to check the sample for possible non-response bias. Regarding size and number of foreign subsidiaries no statistically significant differences between respondent and non-respondent were found.

---Insert Table 1 about here---

An average profile of the firms in the sample is shown in Table 1. All the three countries are relatively small. As a consequence of the limited home markets most firms in these countries are forced to engage in international operations at an early stage of their development. For all the three country samples the average firm is highly internationalized and possesses presumably considerable experience in conducting foreign operations. One sixth of the personnel is employed outside the home country (13.9 - 18.4 per cent) and more than one third of the average turnover originates from overseas activities (36.6 - 43.4 per cent). The profile of the firms from Denmark (201) and Sweden (176) are very similar in terms of size and level of internationalization, but the Swedish firms typically have longer export experience (30.3 years) than the Danish firms (20.9 years). The firms from New Zealand (117) are larger both in terms of turnover and employees, and they have less international experience (in terms of years) and operate in fewer countries. However, in regard to the proportion of sales abroad and employees outside the home country the New Zealand sample firms are similar to the Danish and Swedish firms.
The total sample of 494 companies includes a unique sample of internationalized firms that vary on several dimensions, e.g. the targeted foreign markets. However, the common denominator is that the firms, based in three small countries, are exposed to international activities early in their development and therefore supposedly struggle with liability of foreignness problems when entering foreign markets.

4.2. Operationalization of variables

In the questionnaire respondents were asked to select one recent international business assignment (e.g. entering a new, foreign market, or undertaking a considerable expansion of an existing business in a foreign country). The assignment should be important to the firm and its international expansion. Furthermore, the assignment should preferably be well underway in the foreign location.

4.2.1. Structural variables

Perceived foreign market unfamiliarity: The foreign market unfamiliarity was measured as the perceived lack of knowledge in relation to the particular foreign business assignment. More specifically, the firms should indicate to what extent lack of certain kinds of knowledge was an obstacle for this particular foreign expansion. Following Eriksson et al. (1997) the required foreign market knowledge is of two different kinds: ‘Institutional knowledge’ and ‘Business knowledge’. ‘Institutional knowledge’ consists of knowledge of the institutional framework, rules, norms and values in the particular market. ‘Business knowledge’ includes knowledge on counterparts (customers, suppliers, distributors, and competitors) in the foreign country, including knowledge about local business cultures.

In the questionnaire the firms were asked to indicate on a 7-point Likert scale to what extent the lack of the following types of knowledge was an obstacle to the
foreign expansion (1 = no obstacle, and 7 = serious obstacle): (1) Knowledge about business law and rules in the foreign market, (2) Knowledge about financial practice in the foreign market, (3) Knowledge about the local business culture, (4) Knowledge about the products of customers in the foreign market, (5) Knowledge about the products of suppliers in the foreign market (6) Knowledge about the products of competitors in the foreign market.

The average score of the six items varied from 3.8 (knowledge about competitors) to 4.9 (knowledge about suppliers). The Cronbach alpha value for all six items was 0.78. Therefore, we have created a composite index of ‘perceived foreign market unfamiliarity’ where all six items are included.

**Elapsed time of operations in the foreign market:** The elapsed time was measured in a straightforward way as the number of years and months since the particular assignment was started in the foreign market. In principle, the value of the variable can vary from 1 month to infinite. However, the variable was truncated after fifteen years. As shown by Zaheer and Mosakowski (1997), after some years the learning and adaptation on the local market will only be marginal. In their study the exit rate of foreign owned subsidiaries peaked after eight years indicating that the liability of foreignness peaked at this point in time. Accordingly, we have truncated the time variable after fifteen years indicating that most firms have overcome the initial liability of foreignness after fifteen years of activities in the foreign market.

4.2.2. Managerial control variables

**Local adaptation ability:** The ability to adapt to the local norms and rules is expected to be highly correlated with the international experience of firms. The more internationally experienced firms and the more the firms have been exposed to foreign markets, the greater the ability to adapt to new local markets. Therefore, international
experience was used as a proxy for local adaptation ability. In the questionnaire the respondents were asked to indicate on a 7-point scale (1=no international experience and 7=substantial international experience) the level of international experience in terms of: (1) Management of foreign activities, (2) Adapting products to foreign markets, (3) Establishing relationships with foreign customers, (4) Collaboration with companies abroad. With a Cronbach alpha value of 0.83 for all four variables we could collapse the four variables into one measure for ‘ability to local adaptation’.

**Local adaptation willingness:** The willingness to local adaptation is a perceptual variable that was measured by asking the respondents to what extent the firms were making adaptations to the local market. In the questionnaire they were asked to indicate on a 7-point scale (1 = no adaptations and 7 = substantial adaptation) to what degree they have made adaptation to the local market, as regards: (1) The product, (2) The production process, (3) The business routines.

The average score of the three items varied from 4.6 (product adaptation) to 4.9 (production process adaptation). The Cronbach alpha value for the three items was 0.86. The high value allowed us to create a composite index of willingness to local adaptation where all three items were added together.

**Adoption of standardized, international business routines:** The extent to which the companies apply globally standardized routines in their international operations was also measured perceptually. The respondents were asked to what extent they had applied standardized, international routines in the particular foreign assignment in terms of: (1) Management of foreign activities, (2) Adapting products to foreign markets, (3) Establishing relationships with foreign customers, (4) Collaboration with companies abroad. The Cronbach alpha value for these four items was 0.78.
5. Results and discussion

5.1. Cluster-analysis

In order to identify the learning paths among the sample firms we conducted a cluster-analysis based on the two structural variables: Elapsed time of operations and lack of knowledge about the foreign market (perceived foreign market unfamiliarity). As discussed earlier, both variables represents important dimensions of learning engagements of entrant firms.

The first step in the cluster-analysis was to decide the appropriate number of clusters, though, no completely satisfactory method for determining the number of clusters exists. It is advisable to look for changes in the three statistics: CCC, pseudo F statistic and the pseudo $t^2$ statistic. For that purpose, a hierarchical cluster-analysis (Ward's method) was conducted. With a local peak for the CCC and pseudo F statistic and a small value of the pseudo $t^2$ statistic (increasing for the next cluster fusion) these statistical measures were indicating that the data could be distributed into four clusters.

The next step was to create the four clusters. For that purpose we applied a nonhierarchical clustering technique, as proposed by Hair et al. (1992). The two variables were measured on different scales. In order to bring the variables on comparable scales they were both standardized (mean = 0 and standard deviation = 1).

5.2. Results of cluster analysis

The results of the clustering and the distribution of the 494 firms on the four clusters are shown in Table 2.

--- Insert Table 2 about here ---
The firms in cluster 1 and 2 are both characterized by short elapsed time of operations in the entered, foreign country. However, where the firms in cluster 1 are characterized by having a low perceived foreign market familiarity, the cluster 2 firms expose a high perceived familiarity. The firms in cluster 1 – making up 32% of the sample firms – might be about to engage in post-entry learning. It is, however, not possible within this cluster to distinguish between those firms that are engaged in post-entry learning and those that are not (i.e. low learning engagement firms). The cluster 2 firms, constituting almost half of the sample (49%), have spent only a short time – if any – to get fairly well familiarized with the foreign country environment. This may fit well with a ‘pre-entry learning engagement’ in which a substantial part of the learning takes place before the market entry. The firms in cluster 3 and cluster 4 have spent, relatively, a long time in the foreign country. The cluster 3 firms still perceive a low familiarity with the foreign market - the lowest of all four clusters. This may indicate that cluster 3 resembles a type of firms that either are unwilling to adapt locally (because they pursue global economies of scale), or because they are incapable of adapting locally. Therefore, we put the label ‘low learning engagement’ on these – relatively few (only 6%) sample firms. The cluster 4 firms (making up 13% of the sample firms) have familiarized themselves with the local market via engagement in pre- and/or post-entry learning.

5.3. Discussion

Table 3 shows how each of the four clusters score on the three management control variables: ‘Local adaptation ability’, ‘local adaptation willingness’ and ‘Adoption of standardized, international business routines’.

--- Insert Table 3 about here ---
There are significant differences among the four clusters as concerns the two latter variables, whereas the clusters are similar in regard to the first variable (i.e. all clusters are in the same Duncan group). As expected, the cluster 4 firms - that already have reduced their foreign market unfamiliarity significantly - expose more willingness to undertake local adaptation. The same is true for the cluster 2 firms that have engaged themselves in pre-entry learning. In contrast, the willingness to undertake local adaptation is much lower among the firms in cluster 1 and 3 – the firms that still perceive a high liability of foreignness.

In the study foreign market unfamiliarity is expressed as a subjective measure, namely the lack of knowledge about the foreign country as perceived by the focal firm. This gives reasons to be cautious about what appears to be low values of liability of foreignness. Hence, other researchers have reported systematically underestimation of foreign market barriers.\(^1\) Ideally, one should combine perceptual (‘input’) and performance (‘output’) measures. Another reservation relates to the cross-sectional design of the study. Only longitudinal studies can establish the true learning paths of international firms. What we can observe in our study is, by definitions, only positions of firms in different paths of learning. The existence of – to our knowledge – only one

\(^1\)One might question to what extent these findings are biased by the perceptual character of the measurements; after all, it is the familiarity as perceived by the managers of the entrant firms that are compared. Entrant firms may systematically over- or underestimate their familiarity with the foreign market in question. Thus, what we denominate ‘pre-entry learning engagement’ (cluster 2) may potentially reflect a systematic overestimation of market familiarity. In order to check for this potentially, systematic error we did check on different measures in relation to ‘psychic distance’ and international experience of the sample firms, but found no deviation of cluster 2 firms on these measures that would indicate an overestimation of market familiarity. The measures included
large-scale longitudinal study of firms’ liability of foreignness (Zaheer and Mosakowski, 1997) illustrates the large room for further research.

6. Conclusions and managerial implications

The study has opposed a conventional static view of liability of foreignness in terms of unfamiliarity with local business environments. The data of a sample of 494 international firms from Sweden, Denmark and New Zealand suggest that learning engagements differ significantly among entrant firms. Hence, a large group of entrant firms seems to master a rapid reduction of liability of foreignness, possibly by engagement in learning prior to the market entry. In contrast, a minor group of firms seems to resists involvement in learning processes and perceives a high unfamiliarity with the local business environment even after a relatively long period of operations in the foreign country. Apparently, the adoption of standardized, international business routines and unwillingness to adapt products and marketing practices to local markets are associated with a low learning engagement of the entrant firm.

Our study suggests that for a majority of firms the liability of foreignness and the associated costs of doing business abroad will decline over a period of time. The study invites to a further discussion of the role of managerial discretion in the process of learning how to conduct business in foreign markets. Sustainable competitive advantage can be achieved through engagement in high-velocity familiarizing with foreign markets thereby diminishing the problem of liability of foreignness and broaden the range of foreign markets in which a firm can achieve a competitive advantage.

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international experience in terms of employees abroad, proportion of foreign assignments in neighboring countries, and perceived newness of the foreign market
References


Figure 2  Three different learning engagement strategies of entrant firms

<table>
<thead>
<tr>
<th>Familiarity with the Foreign Business Environment</th>
<th>Low</th>
<th>High</th>
</tr>
</thead>
<tbody>
<tr>
<td>Elapsed Time of Operations in Foreign Market</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Short</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Long</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Table 1. Characteristics of the sample (N = 494)

<table>
<thead>
<tr>
<th>Company characteristics (1998)</th>
<th>Denmark</th>
<th>New Zealand</th>
<th>Sweden</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Means (standard deviation in parentheses)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Number of companies</td>
<td>201</td>
<td>117</td>
<td>176</td>
</tr>
<tr>
<td>Total turnover (million US $)</td>
<td>30 (52)</td>
<td>66 (307)</td>
<td>38 (109)</td>
</tr>
<tr>
<td>- proportion of sales abroad (per cent)</td>
<td>43.4 (31.8)</td>
<td>36.6 (29.9)</td>
<td>42.4 (29.4)</td>
</tr>
<tr>
<td>Total number of employees</td>
<td>192 (419)</td>
<td>367 (1050)</td>
<td>193 (574)</td>
</tr>
<tr>
<td>- proportion employed overseas (per cent)</td>
<td>3.9 (23.0)</td>
<td>18.4 (29.1)</td>
<td>14.0 (20.2)</td>
</tr>
<tr>
<td>Number of foreign countries in which the company firm</td>
<td>14.3 (8.1)</td>
<td>8.7 (7.1)</td>
<td>15.5 (6.9)</td>
</tr>
<tr>
<td>Years of export experience</td>
<td>20.9 (13.5)</td>
<td>16.1 (11.4)</td>
<td>30.3 (15.5)</td>
</tr>
</tbody>
</table>
Table 2  Values on the structural variables for each cluster

<table>
<thead>
<tr>
<th></th>
<th>Cluster # 1 Post-entry learning engagement</th>
<th>Cluster # 2 Pre-entry learning engagement</th>
<th>Cluster # 3 Low learning engagement</th>
<th>Cluster # 4 High learning engagement (pre/post-entry)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Perceived unfamiliarity with foreign market</td>
<td>1.01</td>
<td>-0.59</td>
<td>1.98</td>
<td>-0.85</td>
</tr>
<tr>
<td>Elapsed time of foreign market operations</td>
<td>-0.35</td>
<td>-0.37</td>
<td>1.38</td>
<td>1.93</td>
</tr>
<tr>
<td>Number of firms (percentage)</td>
<td>160 (32 %)</td>
<td>242 (49 %)</td>
<td>28 (6 %)</td>
<td>63 (13 %)</td>
</tr>
</tbody>
</table>

* All variables are standardized with mean=0 and standard deviation=1

Table 3  Values of the managerial control variables for the four clusters

<table>
<thead>
<tr>
<th>Management Control variables</th>
<th>Mean values across different learning engagements</th>
<th>F-statistics (differences between means) and significance</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Post-entry (1)</td>
<td>Pre-entry (2)</td>
</tr>
<tr>
<td>Local adaptation ability</td>
<td>4.5 (A)</td>
<td>4.8 (A)</td>
</tr>
<tr>
<td>Local adaptation Willingness</td>
<td>3.5 (C)</td>
<td>5.3 (B)</td>
</tr>
<tr>
<td>Adoption of standardized, int'l routines</td>
<td>5.23 (B)</td>
<td>5.02 (B)</td>
</tr>
</tbody>
</table>

Notes:
The letters in parentheses are showing the Duncan grouping where different letters indicates that the values are significantly different.

*** Significant on 1 % level, ** Significant on 5 % level.
Figure 1  Conceptual Model of the Study

- *Entrant Firm’s Willingness of Adaptation*
- *Entrant Firm’s Adoption of Int’l Business Routines*
- *Elapse Time of Operation in Foreign Market*
- *Ability of Entrant Firm to Learn about Foreign Market*
- *Perceived Unfamiliarity with Foreign Market*
- *Liability of Foreignness*
- *Exchange Risk of Operating in Foreign Market*
- *Discrimination against Entrant Firm by Local Authorities*