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# FOREIGN ENTRY, CULTURAL BARRIERS, AND LEARNING

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This paper examines the longevity of foreign entries. Hypotheses are developed on the mode (start-ups vs. acquisitions) and ownership structure (wholly owned vs. joint ventures) in relation to cultural distance. The hypotheses are tested within a framework of organizational learning, using data on 225 entries that 13 Dutch firms carried out from 1966 onwards. Results show that the presence of cultural barriers punctuates an organization's learning. Cultural distance is a prominent factor in foreign entry whenever this involves another firm, requiring the firm to engage in 'double layered acculturation.' We also identify locational 'paths of learning.' The longevity of acquisitions is positively influenced by prior entries of the firm in the same country. Similarly, the longevity of foreign entries, in which the firm has a majority stake, improves whenever the expanding firm engaged in prior entries in the same country and in other countries in the same cultural block.

Douma, 1994).

does not come without costs. When firms diversify beyond their national borders, they have to adjust to a foreign national culture. Whenever firms draw other organizations into 'the walk to the unknown' (Johanson and Vahlne, 1977), for example through a joint venture (JV) or an outright acquisition, they have to contend with both a national and a corporate culture. However, over time, firms may learn from previous globalization efforts and reduce the barriers that prevent them from freely tapping cheap labor, new technology, and foreign product markets, and ultimately veritable multinational become enterprises

During the last decades firms have increasingly

committed themselves to global markets. Globalization confers access to foreign markets, cheap

labor, and other advantages. Yet, foreign entry

This study was motivated by the following three research questions. First, what cultural bar-

riers exist regarding ventures that differ in magnitude of ownership (wholly owned vs. JV), and mode of ownership (green-field start-up vs. acquisition)? Previous studies have analyzed how cultural barriers influence the incidence or probability of mode and ownership (e.g., Agarwal and Ramaswami, 1992; Gatignon and Anderson, 1988; Kogut and Singh, 1988). In contrast, the present study examines the persistence of different modes and ownership arrangements of foreign ventures, and therefore complements that research on foreign entry (compare Pennings, Barkema, and

they reduce cultural barriers through learning? The literature suggests that MNEs develop the capacity to reduce barriers to foreign entry, for example through a good bargaining position visà-vis host governments (Fagre and Wells, 1982; Lecraw, 1984; Ruygrok and van Tulder, 1993), and through accumulation of foreign experiences, i.e., organizational learning. This paper explores whether firms do indeed reduce the cultural barriers with respect to the performance of various modes and ownership structures of foreign entry,

Second, once firms are established abroad, do

Key words: international strategy; organizational learning; foreign expansion; cultural differences, entry modes

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(MNEs).

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Paul, 1975; Welch and Luostarinen, 1988). For entries. the present study, the Uppsala contributions are Third, can we uncover certain locational patterns of internationalization that endow the firm most pertinent. In the product life cycle model, four stages are with more relevant knowledge, in terms of the success of their later ventures, than a 'random distinguished: introduction, growth, maturity, and decline of products. A new product will be sold

strategy' (or no spatial strategy)? Both from a theoretical and a practical point of view, it is desirable that such successful 'paths of learning' be identified. Again, a full disclosure of the issue

may hinge on the mode of ownership structure of foreign entries. This paper will present new evidence on all these issues, using panel data on the longevity of foreign expansions. To date, there is little theoretical or empirical convergence on the antecedents and consequences of foreign direct investment (FDI). Diversity of disciplines among researchers, the theoretical frameworks they adopt, and the national provenance of data they examine yield a disparate body of literature. Much of the research tends to be economic (e.g., Dunning, 1988) while other contributions have a political science orientation (Ruygrok and van Tulder, 1993). Some adopt a static framework while others focus on process. For example, Dunning (1981, 1988), Hennart

(1982), Hill, Hwang, and Kim (1990), Hymer

(1960, 1976) and Teece (1981) generally evaluate a firm's foreign expansions as static choices dic-

tated by relative costs and benefits. In contrast,

through learning from their previous foreign

others focus on internationalization as a process in which firms increasingly move farther from the home country. Examples incude representatives of the Scandinavian School (e.g., Johanson and Vahlne, 1977; Welch and Luostarinen, 1988), but also U.S. contributions by Vernon (1966). Since our research questions both suggest the entangling of dynamic relations over time through learning from earlier expansions and explore locational paths of learning, our paper is anchored in the process-oriented literature. BACKGROUND Three different dynamic models can be dis-

tinguished in the process-oriented literature: the product life cycle model (Vernon, 1966), the innovation-adoption inspired internationalization models (Andersen, 1993; Bilkey and Tesar, 1977; 1980)

development into stages, rather than on explaining how firms move from one stage to another. Contributions describe primarily small and mediumsized firms (Bilkey and Tesar, 1977; Cavusgil,

Vahlne, 1977, 1990; Johanson and Wiedersheim-

first in the home country, and afterwards internationally. The internationalization of firms is

almost solely determined by production cost con-

siderations. In 1979, Vernon retracted his life

cycle model, and in fact argued for decreased differences among countries in factor costs and

market conditions. His life cycle theory therefore

A second model is based on the behavioral

theory of the firm, which holds that firms stay

in the vicinity of their past practices and the

routines which govern them (Cyert and March,

1963). By analogy to the innovation-adoption process (Rogers, 1983), these models distinguish a

number of stages of internationalization, arranged

as a sequential, fixed development of the inter-

nationalization process (e.g., Andersen, 1993;

Bilkey and Tesar, 1977; Cavusgil, 1982). The emphasis in these models is on classifying the

loses much of its validity.

1982) and their early efforts of exporting, until the firm accepts FDI as a common activity (Andersen, 1993). A third type of model, the Uppsala stage model, also has its theoretical base in the

behavioral theory of the firm (Aharoni, 1966; Cyert and March, 1963). This model emphasizes learning, for example familiarization with other

national cultures, as the driving force behind the

internationalization process of firms. It also tries to identify paths of locational learning. Therefore, this model stands out in framing the questions of the present study. The Uppsala stage model stipulates organizational learning (Johanson and Vahlne, 1977), con-

sisting of small steps whereby firms gradually increase their international involvement (Johanson

and Vahlne, 1977; Johanson and Wiedersheim-Paul, 1975). This model resembles the stages model developed by Root (1987). Most firms

experience a large amount of uncertainty when and the Uppsala Scandinavian) process model (Johanson and operating internationally. In order to reduce

argues that cultural distance is comparatively Stage 1: no regular export activities; more significant as a foreign expansion barrier. Stage 2: export via independent agents; Learning amounts to reducing the psychic discreation of an offshore sales subsiditance between home and host country Stage 3: expanding knowledge of local conditions. ary: Stage 4: overseas production facilities. Various studies have tested the two aspects of As Root (1987) has indicated, licenses and joint

Vahlne, 1977; Johanson and Wiedersheim-Paul, 1975), exceptions may occur, for example when the firm has considerable experience from markets with similar conditions (Johanson and Vahlne, 1990). The growing foreign presence can be attributed to firms accumulating knowledge about country-specific markets, which is called 'experiential knowledge.' This knowledge is a critical resource since the knowledge needed to operate in any country cannot easily be acquired. During early stages a native partner is required-whether an independent sales agent or a joint venture partner. Next, the firm must learn about local conditions in order to reduce dependence on the

uncertainty regarding local habits, preferences,

market structure, and ways of approaching cus-

tomers, the sequential steps are small. Lacking

routines for the solution of such problems, man-

agers search in the neighborhood of their past

First, the increased commitment to any country

ventures are also significant as initial steps in

obtaining a beachhead abroad. Although the

Uppsala model predicts a sequential increase of

commitments through four successive stages, also

called 'the establishment chain' (Johanson and

The Uppsala model emphasizes two aspects.

experiences (Johanson and Vahlne, 1977).

unfolds through four successive stages:

indigenous organization. The creation of foreign production facilities is predicated on the knowledge that has been accumulated previously. As we are primarily interested in the firm's path of learning across various foreign cultures, our study will therefore build on the internationalization process model, developed in Uppsala. A second aspect involves the assumption that firms move to distant countries only after having established a presence in more proximate countries. Firms will successively enter countries with increasing psychic distance. Psychic distance is defined in terms of factors preventing or dis-

turbing the flow of information between the firm

the internationalization process model. The first aspect, i.e., the four-stage expansion process, was supported by Johanson and Wiedersheim-Paul (1975). These authors examined the foreign expansions of four Swedish firms from the 1860s until the early 1970s. These firms indeed passed through stages suggested by the internationali-

Gripsrud, 1992; Johanson and Wiedersheim-Paul,

1975). Psychic distance is generally related to

geographic distance, although exceptions do occur

(e.g., U.S.A. vs. Cuba or U.K. vs. Australia).

Only one study (Larimo, 1993) explored geo-

graphic distance as an expansion barrier. This

study found no support for the greater likelihood

of JVs over wholly owned subsidiaries (WOSs)

when geographic distance is larger. The author

ever, in addition to Johanson and Vahlne (1990), various other studies (Hedlund and Kverneland, 1985, 1986; Johanson and Sharma, 1987; Nordström, 1991; Turnbull, 1987) found exceptions to the general rule of increased commitment through the four successive stages of the establishment

zation process model. Corroborating evidence was

found in Luostarinen (1980), Newbould, Buckley,

and Thurwell (1978), and Tschoegl (1982). How-

chain.

The second aspect of the Uppsala school, i.e., expansion first in proximate countries, then further away, also received mixed support. Davidson (1980) studied the effect of experience and country characteristics on FDI location. Firms in the initial stage of foreign expansion exhibit a strong preference for proximate and comparable cultures, while those in later stages showed no

such proclivity. His conclusion was not based on

any measure of cultural similarity nor did he

conduct a statistical test. Other empirical support

was found in Davidson (1983), Denis and Depel-

teau (1985), and Johanson and Wiedersheim-Paul

(1975). However, Benito and Gripsrud (1992),

using Kogut and Singh's cultural distance measure (1988), found no support for their hypothesis that current levels of FDI in culturally remote countries will increase with previous levels of FDI. Similarly, Engwall and Wallenstål (1988)

and target nations, including linguistic, institutional, cultural, and political factors (Benito and could not confirm the hypothesis that firms start

thermore, cultural distance is measured in multures is negatively related to the cultural distiple ways, thus reducing the extent to which tance between the home and host country. findings are method-bound. The ensuing evidence adds to the previous body of results on key Firms entering through WOSs or through JVs notions of the Uppsala school: that cultural barmay both face cultural barriers, but the barriers riers are relevant in the foreign entry process, need not be the same. WOSs require the and that firms learn about these barriers through expanding firm to calibrate itself to a foreign

entry process than most previous studies in the Uppsala tradition. We differentiate between magnitude of ownership (WOS vs. JV), and mode of ownership (green-field start-up vs. acquisition). We also explore paths of locational learning for these different modes of ownership structures. The emphasis on learning requires us to adopt a longitudinal research design that permits the untangling of relationships that are inherently dynamic. HYPOTHESES Foreign expansion and cultural distance

with FDI in countries culturally closer to the

home country. Finally, Sullivan and Bauerschmidt

(1990) found that managers perceived no differ-

ences in cultural barriers at different stages of

that the Uppsala school benefits from additional

quantitative studies, using alternative method-

ologies. Our study uses a different proxy for foreign venture success, namely longevity. Fur-

time from their earlier expansions. Following the

three central questions in this paper, our theory

and evidence focus on later stages in the foreign

In view of the mixed evidence, we believe

their firms' internationalization.

### Both practice and theory (Hofstede, 1980) suggest

that some cultures are more distant than others. Globalizing firms adjust to foreign cultures and are more likely to fail whenever the acculturation involved is more demanding. Learning inherently incremental, and the speed with which organizations expand internationally is subject to

what Dierickx and Cool (1989) call 'time compression,' i.e., diminishing returns from efforts to speed up the adjustment process. Acculturation becomes even more challenging in the event that foreign entry is implemented with partners. The ability to sort out relationships with strategic partners is also subject to learning because it is the gradual sorting out of partners' behaviors that enters into the expanding firm's repertoire of Hypothesis 2: The longevity of foreign ventures is more strongly and negatively related to cultural distance in the case of double layered acculturation (JVs and acquisitions),

hypothesis:

signaling adjustment to both a foreign

national and an alien corporate culture. Finally,

it has been argued that firms accumulate global

experiences which in turn reduce the odds that

subsequent ventures are aborted prematurely.

These observations culminate in a number of

testable hypotheses that require the explicit mode-

Hypothesis 1: The longevity of foreign ven-

national culture. When firms engage in JVs, this

calibration involves 'double lavered accultura-

tion.' This dual adjustment applies to majority,

50/50, and minority JVs, although the magnitude

of the adjustments need not necessarily be similar

among these types of strategic alliances. The

implication for the present study is that, compared

with WOSs, the termination of JVs is more sus-

ceptible to cultural distance. An analogous argu-

ment can be made with respect to acquisitions

and start-ups. A firm engaged in foreign acqui-

sitions has to accommodate both the target firm's

national and corporate cultures. If the target firm resides in a distant culture, divestment is more likely to occur. This leads to the following

than in the case of single layered accultur-

integrated to ensure success (Buckley and Casson,

1988; Bueno and Bowditsch, 1989). Whenever a JV is set up with a foreign firm or a foreign firm

ling of time. First, we hypothesize:

ation (WOSs and start-ups).

### Foreign expansion and learning

If foreign entry involves a JV or an acquisition, at least two (different) corporate cultures must be

is acquired in a foreign country, both national and corporate cultures have their impact on the venture, because these are (to some extent) trans-

skills. Hence the term 'double layered acculturamitted via institutionalized organizational prac-

culturally more close and then go further away. In this paper, the complementary hypothesis will be tested, that foreign experience increases the longevity of ventures. Moreover, when firms reduce cultural barriers over time as a result of their previous expansion experiences, and become veritable MNEs, we expect a relatively strong increase in the longevity of ventures requiring double layered acculturation (JVs, acquisitions), where cultural barriers were large to begin with.

Hypothesis 3: The longevity of foreign ven-

tures is positively related to prior foreign

Hypothesis 4: The longevity of foreign ven-

tures is more strongly and positively related

to prior foreign expansion experiences in the

case of double layered acculturation (JVs and

acquisitions) than in the case of single layered

The literature also contains clues about how firms learn, i.e., what locational paths of learning are

more successful than others. The Scandinavian

process model predicts that learning about foreign

cultures is incremental, with firms gradually expanding in cultural space, learning from their

acculturation (WOSs and start-ups).

Hence the following hypotheses:

expansion experiences.

tices, such as decision-making procedures and

corporate policies (Brown, Rugman, and Verbeke,

1989; Shenkar, 1992). Pennings and Harianto

(1992) showed that a firm's growing volume of

interfirm experiences increases the probability of

undertaking strategic alliances in the future. The

implication is that a globalizing firm's path of

learning should not only consider cultural distance

but also the mode and ownership of foreign

Firms that expand abroad are likely to acquire

knowledge about foreign sites, including foreign culture, institutional characteristics, and other site-

specific knowledge. In a more general study,

analyzing a data set of both domestic and foreign ventures, Pennings et al. (1994) found that

expanding Dutch firms did indeed learn during

the 1966-88 period. The present paper focuses

on learning from foreign ventures. At present, there is little evidence that supports such learning

effects. Benito and Gripsrud (1992) and Engwall

and Wallenstål (1988) found no support for their

hypothesis that firms start in countries that are

expansions.

international experience, scope, and size. In fact Royal Dutch and Unilever formally have their headquarters both in the Netherlands and the U.K. For the remaining firms, we selected all foreign ventures (start-ups and acquisitions) that were reported in the annual reports of these firms between 1966 and 1988. This window was chosen because the level of FDI of these firms showed

ing effects within culture blocks. METHODOLOGY Sample

The sample contained foreign expansions of 13 large nonfinancial Dutch firms. The firms were selected in the following way. We started with the 20 largest nonfinancial firms (in terms of sales) listed on the Amsterdam Stock Exchange in 1988. No data were gathered about the four largest firms (Royal Dutch, Unilever, Philips,

Akzo) since these firms differ considerably from

other firms, in terms of breadth of activities,

proximate blocks. Formally: Hypothesis 5: Learning effects within countries are relatively strong, and learning effects from expansions in blocks closer to the home country of the expanding firm are relatively weak, with an intermediary position for learn-

Ronen and Shenkar (1985) compared, analyzed, and synthesized eight studies about cultural differences between countries, leading to the identification of eight more or less homogeneous cultural

in other countries.

blocks of countries (Anglo-Saxon, Germanic, etc.). This suggests that when starting a new venture, firms benefit from experiences in other countries in the same block, rather than from experiences in other blocks, although the learning effect is expected to be weaker than from earlier expansions in the same country. Finally, when entering more remote cultural blocks, firms may benefit from their experiences in other, more

previous experiences about the next proximate

culture(s). Implicit is the notion that learning

effects are stronger if the cultural context of the

new venture resembles more closely the culture

where the firm expanded previously. Hence, when

starting a new venture, firms are expected to

benefit more from previous expansion experiences

in the same country, rather than from experiences

In millions of Dutch guilders (in 1988, the U.S. dollar-Dutch guilder exchange rate was approximately \$0.51).
Figures are expressed as percentages. The difference between the reported percentages and 100% indicates the frequency of
the omitted category, e.g., of acquisitions in the column for start-ups.
the offitted category, e.g., or acquisitions in the column for start-ups.

This column contains the percentage of ventures of the firm initiated during the window that were censored, i.e., still in

Table 1. Summary statistics on 225 foreign ventures of 13 nonfinancial Dutch firms between 1966 and 1988

Start-

upsb

33.3

50.0

30.0

27.8

36.0

66.7

50.0

0.0

77.4

25.0

100.0

21.4

61.1

WOSsb

100.0

78.6

20.0

44.4

68.0

83.3

50.0

100.0

74.2

81.3

0.0

85.7

65.3

Expansion

projects

3

14

20

18

25

6

2

3

31

16

1

14

72

Market

valuea

(1988)

2,770

4,620

2,239

4,390

2,101

1,479

809

610

497

1,841

2,278

1.421

666

Sales

(1988)

14,638

10,121

7,868

6.104

4,569

3,806

3,025

3,020

2,783

2,649

2.510

2,504

2,410

a marked increase around 1966, starting almost

from scratch and staying at relatively high levels

until the end of the period. For three firms-

Firm

Ahold

Hoogovens

Heineken Buhrmann-T

Wessanen

Hunter Douglas Internatio-Müller

existence in 1988.

Variables

DSM

KBB

HBG

KNP

VNU

VOC

DAF, KLM and Nedlloyd—the information in
the annual reports showed severe gaps. These
three firms were omitted from the data set. A
venture was called an acquisition if the expansion
entailed the takeover of an existing firm or one
of its business units, and a start-up if it was a
newly established subsidiary. The expansion was
called a WOS if the expansion was 100 percent
controlled by the Dutch firm; a majority JV if
the Dutch firm owned less than 100 percent and
more than 50 percent of the equity; a 50/50 JV
if both firms had a 50 percent stake; and a

one provides the best estimate of the success of the venture, as (subjectively) experienced by the manas a ager. Thus, when accounting data are unavailable was for separate ventures, as in our study, longevity cent seems to be appropriate. Using a proxy for suc-V if cess as experienced by the manager is consistent and ) JV with our theoretical framework emphasizing cognitive aspects such as incremental learning and minority JV if the Dutch firm owned less than perceived distance in terms of culture. 50 percent. Summary statistics on 225 foreign

> from this list, this was considered to be a termination. Usually, this was accompanied by another, explicit reference in the annual report. In the very small number of cases where some

> doubt remained, we resolved this by checking 'het Financieele Dagblad' (the Dutch equivalent of the Wall Street Journal),

> or else by telephoning the firm. If a JV changed into an

acquisition, we considered the venture to be terminated as a

JV. This termination was not coded as an acquisition. In

Majority<sup>b</sup>

ownership

0.0

0.0

25.0

38,9

16.0

0.0

0.0

0.0

9.7

12.5

0.0

7.1

9.7

studies using this measure, including Carroll et

al. (1993), Carroll and Swaminathan (1991),

Chowdhury (1992), Geringer and Hebert (1991),

Mitchell, Shaver, and Yeung (1994), and Pennings et al. (1994). Geringer and Hebert studied

various objective and subjective measures of

WOS and JV performance, finding that longevity

Minority<sup>b</sup>

ownership

0.0

14.3

35.0

16.7

8.0

0.0

0.0

3.2

6.3

7.1

13.9

100.0

50.0

Censored<sup>c</sup>

66.7

92.9

30.0

88.9

40.0

66.7

33.3

38.7

68.8

100.0

21.4

50.0

0.0

Longevity

Longevity was defined as the number of years

that the venture persisted, as evidenced by the firm's annual reports. This builds on previous

ventures that the 13 remaining firms mentioned in their annual reports are given in Table 1.

theory, it cannot be excluded that the support for Hypothesis 2 regarding JVs is due to coding JVs ending in acquisitions The annual reports often contain the total list ventures of as terminations. Future research can provide insights in JVs the firm at a certain point in time. If a venture was dropped as stepping-stones to full ownership.

If the absolute value of the corr	elation is greater than 0	0.110, the correlation	is significant at the	he 0.05 level.	
Foreign experience			ocks more pro		

Means, standard deviations and correlations of the independent variables (N = 225)

1

0.40

0.58

0.63

-0.02

-0.06

0.18

0.13

2

0.24

0.31

0.10

-0.10

-0.02

0.05

country belongs.

Cultural distance

KSINDEX in our study.

3

0.37

0.10

0.33

0.12

-0.26

4

-0.06

-0.13

0.32

0.59

log of the number of previous expansions of the

firm in other countries in the same cultural block

as the host country; and LNEARBLOCK is the log of the number of previous expansions of the

firm in cultural blocks that, according to Ronen and Shenkar (1985), were closer to the Nordic

block than the cultural block to which the host

One measure for the cultural distance between the host country and the home country (i.e., the Netherlands) used in this study was the Kogut

and Singh index (Kogut and Singh, 1988). This index is used quite often in studies of foreign

entry (see, for example, Agarwal and Rama-

swami, 1992; Benito and Gripsrud, 1992; Cho

and Padmanabhan, 1992). The index is based on the four cultural dimensions in Hofstede's (1980)

large-scale study. Scores on the four dimensions

for the countries in our study were obtained from

Hofstede (1980, 1991).3 The measure is called

distance, based on Ronen and Shenkar's (1985)

classification, which we called RSINDEX. This measure has a lower score if the cultural block

We also used a second measure for cultural

5

-0.36

-0.27

-0.26

6

0.17

0.15

7

0.46

S.D.

1.14

0.48

0.83

1.00

1.23

0.07

1.14

1.77

Mean

1.96

0.25

0.51

0.90

13.06

0.09

2.64

4.23

### Using the log of the number of previous ventures reflects the assumption that firms learn from their previous experiences at a decreasing rate. Furthermore, LHOSTEXP is the log of the number of previous expansions of the firm in the same host country. For summary statistics regarding this variable, and other independent variables in our

The level of foreign experience was operationalized by LEXPERIENCE, the log of all

foreign expansions that the firm had undertaken,

as available in the data set from 1966 onwards.

## Cultural blocks

stede.

analysis, see Table 2.

Table 2.

Variable

LEXPERIENCE

LHOSTBLOCK LNEARBLOCK

LHOSTEXP

LASSETS ROE

KSINDEX

RSINDEX

We also coded cultural blocks of countries, based on clusters identified by Ronen and Shenkar

(1985). Gatignon and Anderson (1988) also used this clustering in their empirical study. Ronen and Shenkar (1985) distinguished eight clusters of culturally similar or comparable countries. Some countries, like Brazil and Japan, were not allotted

to clusters by Ronen and Shenkar. Based on Hofstede (1980, 1991), we placed these countries in the nearest cluster, unless no cultural block was close (as in the case of Japan).2 In that case, the country was defined as a separate cultural block. Based on these clusters, the following blockspecific indices could be constructed as proxies

to which the host country belonged was closer to the Netherlands (ranging from 1, when the host country belonged to the Nordic block, to 8,

of locational learning in the host country's block, <sup>2</sup> A few countries in our data set were not included in Hofstede (1980, 1991). These countries were allotted to the closest cultural block, after personal communication with Hof-

<sup>&</sup>lt;sup>3</sup> For some countries in our data set, these scores were not available from Hofstede's study. These scores were determined in personal communication with Hofstede.

capturing national culture, nor does it assume linearity, additivity, and normal distributions of the scores on these factors. An imperfection of using the RSINDEX is that it implies treating an ordinal variable as an interval variable. This is not uncommon in strategic management studies, but we will nevertheless also use a second measure based on Ronen and Shenkar (1985), where the eight cultural blocks are

used to form seven block dummies, omitting one

extreme block dummy (e.g., Nordic) to serve as a

benchmark in the analysis. Using this RS dummy

measure avoids treating an ordinal variable as an

in the case of Africa). While cruder than the

Kogut and Singh index, this measure does not

implicitly assume that the four factors identified in Hofstede (1980) are the 'true and only' factors

interval variable. Also, the dummy measure does not implicitly assume that the persistence of ventures is linear in the cultural distance to the Netherlands (as the KSINDEX and RSINDEX do). Finally, using the dummy measure provides

complementary empirical information, on the sig-

nificance of differences between the persistence

of ventures in the benchmark cultural block on

the one hand, and in other cultural blocks on the

It remains to be seen whether our empirical

analysis will be robust for using any of the three

measures (the KSINDEX, the RSINDEX, or the RS dummy measure), especially since most earl-

ier studies using Kogut and Singh's measure

# Control variables

found insignificant results.

other hand.

We used two time-variant control variables. LAS-SETS, the log of the assets of the firm in the year that the venture was initiated, was used as

a proxy for firm size. This variable was included since various studies (Gomes-Casseres, 1985; Larimo, 1993; Stopford and Wells, 1972) found that firm size correlates with the mode of ownership structure of foreign ventures. In addition, firm size may correlate with 'longevity,' since larger firms have more resources in terms of managers, financial resources, and so on, which may

enhance the longevity of ventures. Thus, omitting

'firm size' from empirical models might lead to biased estimation results. The variable, Return on

Equity (ROE), of the firm in the year that the

Analysis

the shorter period available for relatively late entries before the end of the study period—it controls observations that have not exited by the end of the study. We explored whether the hazard rate of ventures (the converse of the survival rate) covaries with the cultural distance between the host country of the ventures and their home country (the Netherlands), the amount of foreign experience of the firm as proxied by the number of previous foreign ventures of the firm, and so on. Thus, a negative coefficient associated with LEXPERIENCE implies that the probability of venture dissolution declines with the firm's foreign entry experience. More formally, the model can be stated as follows:

firm profitability. ROE was included since, as

Jensen (1986) argued, more profitable firms are more likely to divert free cash flows to unprofit-

able expansions, and less inclined to terminate such expansions, which may influence the lon-

gevity of ventures. In some analyses we also

control for firm-specific (and industry-specific) differences by including dummy variables for

The analysis was carried out with LIFEREG, an

model used assumes an accelerated failure time

or Weibull distribution. This method is suitable

for dealing with differences in entry dates, i.e.,

each organization in the study.

$$\log(h) = a + \sum_{i=1}^{n} b_i x_i + c \log t$$

coefficients of n covariates, and c, also called

'scale,' indicates the extent to which the log of

the hazard increases linearly with the log of time

and is constrained to be greater than -1.

where log(h) is the logarithmic transformation of the hazard function, and a,  $b_i$  and c are parameters to be estimated. The a term represents the intercept, the  $b_i$  terms represent the regression

## RESULTS

Hypothesis 1 states that the longevity of foreign entry decreases in cultural distance. It was tested

by the KSINDEX, and the two RS measures. The

venture was initiated, was used as a proxy for Reproduced with permission of the copyright owner. Further reproduction prohibited without permission.

DEX have the ex (p < 0.10 and p < presents results by with 'Nordic' as a coefficients have nificant. Furtherm the order of maroughly corresponds suggested by la Africa being furt. Closer inspective results in Column some care, since tures. Apparently cultural block as cantly longer than Another conclusion.	C 0.05, respectively asset on the expection of the expection of the example of	pectively). Ge RS dummed category. A cted sign and inspection of the dumper their theoret. Shenkar (1). data revealed be interpontains only rentures in erlands persons in any other, is that the shear t	column III y measure, All dummy and are significations that my effects ical order, 985), with the state with a four venthe same ist significations. The signification is signification is significations and the signification is signification.	ventures. In strategic mar clusions from for example, Wiedersheimfour Swedish robustness o dummy meas 'Africa' (and instead of 'N results are proposed ficients associated from the expected f	itself, it is nagement 1 a small the conclupant (1975) firms. We f the conure, taking its 18 ventordic' (and resented in mmy coeffic sign, and lated with ordic) are si approaching port based	iterature to number of usions in J are based neverthele clusions be the most tures) as the its four v column IV itents in col three out of more prox gnificant, w s significant on the dun	o draw con- observations; ohanson and on analyzing ess tested for ased on the remote block e benchmark, entures). The of Table 3. umn IV have of four coef- imate blocks with the fourth ce $(p = 0.11)$ .
Independent variables	I	II	III	IV	v	VI	VII
Intercept	1.128 (0.982)	0.970 (0.974)	-0.252 (1.077)	1.843* (0.960)	9.051*** (2.385)	3.071** (1.562)	7.878*** (2.563)
KSINDEX	0.140* (0.079)	<b>(</b> ==== 1,	(33237)	<b>\</b>	0.110 (0.073)	(,	(====,
RSINDEX		0.118** (0.049)				0.076 (0.050)	
Nordic				-2.095*** (0.518)			
Germanic			1.418*** (0.439)	-0.677* (0.384)			0.989** (0.443)
Anglo			1,493*** (0.433)	-0.600 (0.379)			1.132*** (0.431)
Latin Europe			1.386***	-0.708** (0.358)			0.981**
Latin America			1.658***	-0.437 (0.360)			1.199***
Japan			1.743**	-0.351 (0.845)			1.389* (0.832)
Far East			1.630*** (0.510)	-0.465 (0.466)			1.366*** (0.493)
Africa			2.095*** (0.518)				1.413*** (0.512)
ROE	0.662 (1.197)	0.566 (1.190)	0.775 (1.170)	0.775 (1.170)	-0.664 (1.666)	-0.651 (1.332)	-0.557 (1.199)
Size (log assets)	0.106 (0.069)	0.109 (0.068)	0.122* (0.073)	0.122* (0.073)	-0.436** (0.176)	-0.037 (0.120)	-0.412** (0.181)
Scale	0.808 (0.067)	0.805 (0.067)	0.782 (0.066)	0.782 (0.066)	0.712 (0.061)	0.758 (0.064)	0.698 (0.060)
Log likelihood	-244.634	-243.275	-239.394	-239.394	-221.579	-227.866	-218.465
* $p \le 0.10$ ; ** $p \le 0.05$ ; *** $p \le 0.01$ Values in parentheses are standard errors. Coefficients of firm dummies are not shown.							

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results are presented in Table 3. Columns I and cance of all effects associated with the block II show that both the KSINDEX and the RSIN-dummies is driven by the longevity of these four

(Africa) rather than the four ventures in Nordic are used as a longevity benchmark. We also tested whether the conclusions are robust for controlling for firm-specific influences,

remains if 18 ventures in the block furthest away

using 12 firm dummies. The results are presented in columns V-VII. For brevity, the coefficients associated with the firm dummies themselves are omitted in the table. The results in columns V-VII show that both the KSINDEX effect and the RSINDEX effect approach significance (at the 0.13 and 0.12 level, respectively), while the block

dummy effects remain positive and significant. Thus, the support for H1 weakens somewhat but does not disappear if firm dummies are included in the analysis. H2 predicts that longevity decreases more strongly in the cases of double layered acculturation (JVs, acquisitions) than in the cases of single layered acculturation (WOSs, start-ups).

We replicated the above testing for these subsets of ventures. The estimation results regarding the RS dummy measure were based on Africa as the omitted category, since findings based on partitioning the four Nordic ventures over two subsets would have made the analysis even more tenuous. The main results from the subsets of JVs (n = 78) and WOSs (n = 147) were as follows.<sup>4</sup> For both JVs and WOSs, the KSINDEX effect had the expected positive sign, but was insignificant. Both RSINDEX effects had the expected positive sign, but only in the case of JVs was a significant effect measured (p < 0.05). All block dummy effects had the expected sign. There were no JVs in the Nordic block and no WOSs in Japan, hence no comparisons could be made between block dummy effects in these blocks. Three of the remaining dummy effects were significant, all in the case of JVs. These were the effects associated with blocks that in theory were closest to the home country of the expanding

replicated the testing separately for majority JVs For brevity, we only discuss the main results. The full tables

are available from the authors upon request.

firms (Germanic, Anglo, Latin Europe). The com-

bined results are consistent with H2, that longevity decreases more strongly in the case of JVs

Since there is no a priori reason to believe

that cultural barriers are identical for different

types of JVs (see Pennings et al., 1994), we

than in the case of WOSs.

(n = 29), 50/50 JVs (n = 20), and minority JVs

(n = 29). In all three cases, the KSINDEX effect

had the expected positive sign but was insignifi-

partitioned into acquisitions (n = 116) and start-

ups (n = 109). It turned out that both KSINDEX

effects had the expected positive sign, but were

insignificant. Both RSINDEX effects had the

expected positive sign, but only the effect for

acquisitions was significant (p < 0.01). Three

dummy effects associated with acquisitions were

significant, with a fourth (Anglo) approaching

In the case of 50/50 JVs, only the 'closest' effect (Germanic) was significant.5 No significant effects were found in the case of minority JVs. In fact, this was the only subset in our paper for which we obtained some block dummy effects with the 'wrong' sign. In sum, cultural barriers seem most prominent in the cases of majority and 50/50 JVs. No barriers were observed in the case of minority JVs. As a further test of H2, the data set was also

significance (p = 0.12), while two dummy effects were significant for start-ups. These results provide some further support for H2. Finally, likelihood ratio tests showed a significant improvement in the results whenever the whole data set was partitioned into more homogeneous data sets (in WOSs and JVs, or in startups and acquisitions). The result from this additional, rather crude test (based on the log

likelihood ratios calculated for the respective sub-

sets, correcting for differences in sample size) is

consistent with H2, predicting differential effects

of cultural distance on longevity for JVs and

Hypothesis 3 states that foreign expansion experi-

ences have a beneficial effect on the longevity of

WOSs, and for start-ups and acquisitions.

### Foreign expansion and learning

foreign entry. The relevant estimation results are

cant. All three RSINDEX effects had the expected positive sign, with significant effects in the cases of majority JVs and 50/50 JVs (p < 0.05 and p < 0.10, respectively). For majority JVs, the three dummy effects associated with blocks that were theoretically close to the expanding country (Germanic, Anglo, Latin Europe) were significant.

<sup>&</sup>lt;sup>5</sup> In fact, there were only 50/50 JVs in blocks that were theoretically close, in the Germanic, Anglo and Latin European blocks.

	Total sample $(n = 225)$		Start-ups	Start-ups $(n = 109)$		Acquisitions $(n = 116)$	
Independent	_		•				
variables	I	If	III	IV	V	VI	
Intercept	9.889**	11.263***	8.864	9.048**	9.243*	11.167***	
mercept	(4.367)	(2.890)	(6,685)	(3.915)	(5.380)	(3.858)	
LEXPERIENCE	0.024	(2.075)	0.168	(0.510)	-0.256	(0.050)	
	(0.138)		(0.185)		(0.186)		
LHOSTEXP		-0.049		0.493*		-0.523***	
		(0.163)		(0.293)		(0.198)	
LHOSTBLOCK		-0.003		0.137		-0.281*	
LNEARBLOCK		(0.108) 0.154*		(0.146) 0.137		(0.163) 0.272*	
LINEARDLOCK		(0.091)		(0.123)		(0.140)	
ROE	-0.667	-0.360	-1.345	-1.102	-1,888	-2.040	
	(1.214)	(1.180)	(1.937)	(1.823)	(1.946)	(1.980)	
Size (log assets)	-0.479	-0.590***	-0.402	-0.413	-0.348	-0.522**	
0.1	(0.335)	(0.216)	(0.515)	(0.298)	(0.385)	(0.263)	
Scale	0.716	0.711	0.715	0.704	0.664	0.631	
Log likelihood	(0.062) -222.762	(0,061) 221,284	(0.089) -108.731	(0.087) -105.956	(0.077) -104,114	(0.074) -100.683	
firm differences, in test hypotheses on le	the empirical earning (Table	es 4 and 5). Fe	or BLOCK to significa or Estim	is opposite nt at the 0.10 ation results o	from what relevel).  I by and V	with LNEAR- was expected, VOSs are pre-	
firm differences, in	the empirical earning (Table on results assumed to make the country, or the country),	models used to see 4 and 5). For ociated with the mitted in the ggest that there he results in the are no separa previous expanse same cultur or from block	or BLOCK significa or Estim the sented is apply for obtained the ority JV the cant lea contrast al majority the separate	is opposite nt at the 0.10 ation results on Table 5. So or different J's separately for s. The results rning effects, strong learn rowned vent effect (LEXF effects of lea	from what level). In JVs and Vince different Vippes, the majority, 50 in Table 5 shin the case ing effects fures. Both PERIENCE), rning from the	was expected,	

* $p \le 0.10$ ; ** $p \le 0.05$ ; *** $p \le 0.01$ Values in parentheses are standard errors. Coefficients of firm dummies are not shown.	
relative success of various paths of locational learning, from previous expansions in the same country, in other countries in the same cultural block, and in more proximate blocks. Closer inspection of the significant results, regarding acquisitions and majority JVs, shows that both coefficients associated with learning in the host country are larger than in the case of learning in	among the most supportive of the hypotheses. One characteristic of the Weibull distribution is that extremely large values of the dependent variable may bias the estimated parameters. Therefore, we reestimated the results with all 'extremely large' values (more than 2 standard deviations above the sample mean) removed. The results were very similar to the above reported

Weibull regression results for the hazard of ventures; WOSs and JVs

Ш

-0.593

(5.607)

-0.446\*\*

(0.213)

0.901

(1.534)

0.303

(0.469)

0.258

(0.058)

-13.273

Majority JV (n = 29)

ΙV

4.353\*

(2.514)

-0.458\*\*\*

-0.410\*\*\*

-0.221\*\*\*

(0.173)

(0.153)

(0.083)

-0.808

(1.4444)

(0.196)

0.179

(0.040)

-6.634

-0.095

50/50 JV (n = 20)

7.931

(11.073)

-0.890\*\*

(0.396)

-6.083

(4.780)

-0.244

(0.826)

0.617

(0.159)

-18.333

VΙ

19.254\*

(11.484)

0.441

(0.855)

-0.773

(0.992)

0.588

(0.630)

-0.274

(7.535)

(0.824)

0.712

(0.188)

results. We also ran models with time dummies

(capturing three 5-year periods, 1966-70, 1971-

75, and 1976-80, with the remaining years representing the omitted category) instead of firm

dummies. In theory, the increased longevity of

ventures of firms towards the end of our window of analysis might be caused by other factors

than foreign experience, such as more favorable economic or technological conditions. However,

the estimation results were similar to the results

This paper reported new evidence consistent with

various key assumptions of the Scandinavian pro-

cess model on international expansion: that firms

reported in the paper.

DISCUSSION

-20,270

-1.157

Minority JV (n = 29)

VIII

6.634

(5.573)

0.698\*\*

(0.341)

0.052

(0.417)

-0.195

(0.235)

5.271\*

(3.035)

-0.316

(0.439)

0.347

(0.072)

-18.843

VII

10.176\*

(5.611)

0.195

(0.223)

3.047

(2.586)

(0.452)

0.375

(0.077)

-20.824

-0.600

WOS (n = 147)

0.024

(1.512)

~0.096 (0.099)

0.061

(1.775)

(0.118)

0.928

(0.104)

the same or proximate blocks. Thus, the strongest learning effects appear to be associated with pre-

vious experience in the same country. Next in

size are the two (significant) effects associated with learning from previous expansions in other

countries in the same cultural block. Learning

from previous expansions in more proximate blocks appears to be weakest in this respect, with

only one of the two coefficients being significant

(in the case of majority JVs), and the significant effect being smaller than for the other two paths

of locational learning (in the case of majority

butions include exponential, gamma, log logistic,

and log normal. The results generally support our

Finally, all the analyses were repeated using other distributions than the Weibull distribution which underpins the above results. These distri-

-156.530

0.253\*\*

11

-0.132

(1.547)

-0.198

(0.285)

-0.096

(0.152)

0.087

(0.143)

0.247

(1.873)

(0.120)

0.937

(0.104)

-156,464

0.251\*\*

Table 5.

Intercept

LEXPERIENCE

LHOSTBLOCK

LNEARBLOCK

Size (log assets)

Log likelihood

ROE

Scale

JVs).

LHOSTEXP

Independent variables

predictions, although Weibull-based results are face cultural barriers when expanding Reproduced with permission of the copyright owner. Further reproduction prohibited without permission.

space, and that centrifugal expansion patterns are more successful than a random strategy. The results were obtained from data on 225 foreign entries that 13 Dutch firms initiated from 1966 onwards-a time of significant increases in their international exposure. The present paper focused on FDI, contrary to most previous contributions to the Scandinavian

nationally, that firms learn from their previous

experience when gradually expanding into cultural

school, that gravitate towards the earlier stages of international expansion. In fact, the above support for the Scandinavian model is particularly relevant since various writers (Johanson and Vahlne, 1990: Johanson and Wiedersheim-Paul, 1975) have questioned the validity of the model for later steps in the internationalization process. both in terms of expansion stage (FDI), and in terms of historic time, due to decreasing transaction costs in the last decades. Our evidence on FDI from expansions from 1966 onwards nevertheless supports key assumptions of the Scandi-

We also suggested extensions to the model.

Consistent with our theory, we found that the

impact of cultural distance varied by mode (startups or acquisitions) and ownership structure (WOS or JV) of the expansion. Barriers were found to be more pronounced when the venture required 'double layered acculturation,' and the firm had to accommodate both strange corporate and national cultures. However, acquisitions and JVs were also the very types of ventures where firms reduced cultural barriers through learning,

navian process model.

with the success of later ventures increasing in the amount of previous FDI of the firm. The paper also presented new results on locational learning. When starting a new venture, firms benefit more from previous experience with expansions in the same country, to a lesser extent from previous expansions in other countries in the same cultural block, and least from earlier expansions in blocks that are more proximate to the home country. The strong learning effect from

earlier entries in the same country supports the idea that 'experiential' knowledge (Johanson and Vahlne, 1977; Penrose, 1959) from a country is

relevant, and that it enhances the success of later expansions in the same country. The beneficial effect from previous experience in other countries

in the same cultural block may be due to learning

about common cultural characteristics, or because

that JV incidence increases in cultural distance (see, for example, Kogut and Singh, 1988). Further calculations based on our sample show a similar increase in JV incidence, relative to

entry in one country allows the firm to connect

to other countries through supranational networks

(Johanson and Vahlne, 1990) that more likely

connect culturally similar countries than countries

of new acquisitions and majority and 50/50 JVs.

This suggests that learning from previous FDI largely concerns learning about foreign organiza-

tional cultures. No significant learning effects

from previous FDI were found in the case of

WOSs and start-ups, perhaps because such experience adds insufficiently to earlier experience with

sensitive to cultural distance than WOSs seems paradoxical, in view of earlier results showing

WOSs, in cultural distance. However, these

results are not surprising if a dynamic perspective

is adopted, where firms pursue long-term goals

and invest in learning about foreign countries.

foreign national cultures through exporting. At first sight, our result that JVs are more

Learning effects were only found in the case

that are more dissimilar.

The results in this paper are from firms that largely began their FDI around the time of the beginning of the window of analysis. Firms in their early stages of FDI may embark on a strategy of foreign entry through JVs despite the cultural barriers involved, because they expect that the initial costs will be more than offset by future gains from present learning. Whether or not firms are willing to bear such initial costs may also depend on their long-term strategy, for example whether they pursue a global, multidomestic, or a transnational strategy. In fact, we are only on the brink of a fully developed process model explaining how the incidence of various modes and ownership structures of individual ventures varies with cultural distance, how the costs and benefits (e.g., learning benefits) of ventures vary with cultural distance,

and how the willingness to bear such costs is

linked to the strategy of the firm. Future studies

further research. Our results on the longevity

## may provide more insight here.

Suggestions for further research We end this paper with some suggestions for

of ventures complement previous work on the

incidence of various modes (start-ups acquisitions) and ownership structures (WOSs vs. JVs) as a function of cultural distance (Agarwal and Ramaswami, 1992; Benito and Gripsrud, 1992; Gatignon and Anderson, 1988; Hennart, 1991; Kogut and Singh, 1988). In general, duration of foreign entry is presumed to be a sound indicator of success. Geringer and Hebert (1991)

argue that both survey and archival or 'objective' proxies of success should be used. Absent the former, longevity as a success measure is justifiable. Mitchell et al. (1994) reviewed many studies documenting a positive relationship between longevity and financial performance. However, longevity is not a perfect measure of performance. Dissolution may not always imply failure, and longevity does not always signal success. Performance is a multidimensional phenomenon that covers financial returns, risk reduction, knowledge transfer, and so on. Future studies on globalizing firms could add to the present study by using other success measures. This study used three measures of cultural distance: the Kogut and Singh measure, and two measures building on Ronen and Shenkar's (1985) concept of cultural blocks. This adds to previous qualitative studies supporting the Scandinavian process model (e.g., Johanson and Wiedersheim-Paul, 1975), and to quantitative studies using the Kogut and Singh measure that fail to find such support (e.g., Benito and Gripsrud, 1992). This lack of support suggests that the hypothesis subjected to test might be untrue. It might also be incorrect to assume that the four factors in Hofstede (1980) are the 'true and only' factors capturing cultural distance and the assumptions regarding the linearity, additivity, and normal distributions of scores, etc. While

tures of foreign ventures that are robust for changes in method assumptions.

Future quantitative studies could also investigate whether our conclusions are robust for using

cruder than the Kogut and Singh measure, the

measures building on Ronen and Shenkar (1985) use the common wisdom of eight previous

empirical studies (including Hofstede's original

1980 study). Future studies may consider the

validity and reliability of the various measures

Eventually, this may lead to conclusions about

possibly develop alternative measures.

this respect.

Firms are increasingly entering global markets, seeking cost advantages through lower labor costs in foreign countries, and following the demand for their products. The results in this study showed that firms entering the global game of

CONCLUSION

data on expanding firms from other home coun-

tries and/or different cultural blocks. In theory, this could very well lead to different conclusions.

For example, numerous anecdotes in the popular

press suggest that Japanese firms adjust more rapidly to local conditions in the U.S.A. than

vice versa. Before entry takes place, Japanese

firms may be better informed about the U.S.

culture than vice versa, due to an asymmetric

information exposure about their respective cultures, through printed and electronic media (e.g.,

U.S. textbooks used in Japan rather than vice versa), newspapers (U.S. newspapers like Busi-

ness Week, Fortune, and so on are widely read

in Japan, while Americans are somewhat oblivi-

ous to Japanese press coverage), and TV. Even after entry, learning effects may be asymmetric.

Studies by Brown et al. (1989) and Reich and

Mankin (1986) argue that in JVs Japanese man-

agers focus more on learning and less on information sharing than their U.S. counterparts. This

story is just one illustration that evidence on the

magnitude of cultural barriers and on learning effects may be sensitive to the particular home

country of the expanding firm. Future studies may

zation, i.e., after globalization has become fully

institutionalized. At this stage, the role of cultural

barriers and learning may become less prominent.

Future studies, including in-depth studies of foreign expansions, may provide more insights in

A last suggestion is to examine learning effects in the most advanced stages of internationali-

provide more insight here.

and 50/50 JVs. However, the results also showed

FDI face cultural adjustment costs, especially when they engage in double layered acculturation, such as in the case of acquisitions and majority

the effects of cultural distance on the incidence of success of various modes of ownership structhat expanding firms can move along a learning curve in such ventures, especially when they choose their expansion path such that they can

exploit previous experience in the same country,

and in other countries in the same cultural block.

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