Organizational Culture and Effectiveness: Can American Theory Be Applied in Russia?

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Abstract
This paper examines the link between organizational culture and effectiveness for foreign-owned firms operating in Russia. Beginning with a model of organizational culture developed in the United States, the paper presents a multimethod analysis of culture and effectiveness in a transition economy. We argue that effectiveness in Russia relies more on adaptability and flexibility than it does in the United States. Furthermore, the legacy of the Communist era forces firms in Russia to deal with a workforce with a unique time perspective and a unique set of subcultures that often undermine attempts at coordination and integration. We first explore these ideas using survey data on 179 foreign-owned firms operating in Russia and compare the results to those obtained for firms in the United States. We then present four case studies designed to ground the results in the Russian context, and to document cultural dynamics not captured by the model.

(Organizational Culture; Effectiveness; Russia; Transition Economies)

Many organizational researchers have examined corporate culture as a source of competitive advantage (Barney 1986, Ott 1989, Pfeffer 1994, Wilkins and Ouchi 1983), but explicit theories are few and empirical evidence is limited (Denison and Mishra 1995). The theories that do exist (Denison 1990, Kotter and Heskett 1992, O’Reilly 1989) have been developed and applied only in the United States. Scholars focusing on the applicability of American management theories abroad (Adler 1991; Boyacigiller and Adler 1991; Hofstede 1980a, 1993; Lammers and Hickson 1979) have asked, “Is organization science, as it is currently conceived, applicable across countries?” and “To what extent must organizational theorizing be modified due to national differences?” (Boyacigiller et al. 2003, p. 17).

This paper contributes to the ongoing debate by presenting a study of organizational culture and effectiveness that focuses on a set of foreign-owned firms operating in Russia. The study also compares the Russian results to results previously obtained in the United States. Russia merits study for several reasons. Russia is the largest country in the world in terms of territory; it has the 6th largest population, and the 14th largest GDP (World Bank 2001). The legacy of Russia and the United States as cold war superpowers gives Russia special importance to global stability. Furthermore, because foreign investment is critically important to Russia’s success as a key transition economy (Denison 2001, Lawrence and Vlachoutsicos 1990), the cultural problems encountered by foreign firms doing business in Russia (Elenkov 1998, Fey 1995, Fey and Beamish 2001, Kviint 1994) seem particularly important to address.

Our paper begins with an overview of the Russian context and its influence on organizational culture. Next, we introduce the model of organizational culture underlying this study and use this model to develop a set of research questions. We then present quantitative findings on the linkage between organizational culture and effectiveness, based on data from 179 foreign-owned firms operating in Russia, and we compare these findings to results from the United States. This quantitative analysis is followed by four qualitative case studies designed to ground the quantitative results in the Russian context and to help examine several significant cultural dynamics that were not fully represented in the model.

The Russian Context
Russia has a well-educated, low-cost labor force and is rich in natural resources. However, Russia has not reached its economic potential during its transition to a market economy, partly because few outsiders appear to understand how to operate there. Russia has been plagued by problems such as organized crime, intractable bureaucracy, and an unstable political and economic system. Foreign firms have shown increased interest in Russia, but they often encounter cultural problems (Cattaneo 1992, Fey 1995). Shekshnia (1998) also suggests that organizational culture is a key determinant
of success. As Luthans et al. (1993, p. 742) noted, “The assumptions...are that the Russians are failing badly because they know little about modern management techniques and, in fact, U.S. and Russian management systems are quite different. The time has come to assess these assumptions.” Thus, we begin by reviewing the Russian management literature in areas closely related to organizational culture: management practices, work values, and national culture.

**Russian Management Practices.** Historically, Russian decision making has been very centralized, with little empowerment. This pattern was primarily imposed from the top, but to some degree was also encouraged from below. Because Russian managers have traditionally been punished for negative results, even those beyond their control, they tend to exhibit learned helplessness (Kets de Vries 2000) and a strong desire to want someone else to make decisions. To counter this ingrained problem, it is necessary to create a system of involvement in which employees are rewarded for taking initiative and held accountable for their actions, but not punished for unpredictable outcomes (Puffer and Shekhnia 1996). Other authors (Lawrence and Vlachoutsicos 1993, May et al. 1998) also stress the importance of accountability. In Russia, being able to blame someone else is often regarded as tantamount to solving a problem.

Human resource management (HRM) practices typically reflect and reinforce national culture and organizational culture. One study of 66 Russian managers at the Tver Cotton Mill found that extrinsic rewards and behavioral management increased worker performance, but that participative techniques resulted in decreased performance (Luthans et al. 1993, Welsch et al. 1993). Puffer and Shekhnia (1996) argue that individual bonuses should be tied to initiative and personal accountability and that firms should organize social events and other group activities with workers, provide small-group incentives, and provide a mix of short- and long-term incentives. Fey et al. (1999) also stress the benefits of using bonuses in Russia. Russians also appear to be highly motivated by development opportunities (Fey and Bjorkman 2001, May et al. 1998, Shekhnia 1998). For example, a recent study by Fey and Bjorkman (2001) showed that training is highly valued and is linked to firm performance. These HRM practices reflect important cultural values regarding empowerment and accountability.

Another recurring theme in the management literature is the poor flow of information. As Vlachoutsicos and Lawrence (1990) have noted, Russian organizations often have good vertical flow of information, but poor horizontal flow from department to department. Information is typically seen as power, creating barriers to coordination and integration. Several authors have advocated using teams to achieve coordination because Russians like working in groups and are good at doing it (Puffer 1992, Puffer et al. 1998, Vlachoutsicos 2001).

**Russian Work Values and National Culture.** Organizational cultures are embedded in and shaped by national cultures. Puffer underscores several differences between Russian and U.S. business ethics (Puffer and McCarthy 1995), noting that giving bribes and ignoring senseless rules are more acceptable in Russia than in the United States, while blowing the whistle on fellow workers, having large salary differentials, and laying off people are more acceptable in the United States than they would be in Russia. Other authors (Holt et al. 1994, Ralston et al. 1997) have noted that Russian managers, compared to their American counterparts, value power more, need gratification less, and place lower value on tradition and higher value on security and stability. Russians are also said to be less individualistic and less open to change. Elenkov (1997) compared Russia to the United States on Hofstede’s (1980b) four dimensions of national culture. The table below compares Elenkov’s results for Russia to Hofstede’s (1980b) results for the United States.

<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td>Individualism</td>
<td>40</td>
<td>91</td>
</tr>
<tr>
<td>Uncertainty avoidance</td>
<td>87</td>
<td>46</td>
</tr>
<tr>
<td>Masculinity</td>
<td>50</td>
<td>62</td>
</tr>
<tr>
<td>Power distance</td>
<td>89</td>
<td>40</td>
</tr>
</tbody>
</table>

These results show that Russians are group oriented (Vlachoutsicos 2001) and prefer to avoid uncertainty. Both might be expected, given the social security imprinted by the Communist system and the surprises dealt to Russia in the past. Russians report medium masculinity and appear to have a fairly high power distance (the extent to which a society accepts that power in institutions and organizations is distributed unequally), reflecting the large social gap that exists between workers and managers in Russia. Further understanding of Russian character is offered by the famous 19th century Russian historian Kliuchevskii (1990). He describes a set of stereotypical Russian behaviors, including resourcefulness, patience under adversity, deprivation, and spurts of energy, combined with a tendency to dissemble and an inconsistency in seeing things through. He also describes Russians as circumspect, cautious, and ambiguous with a preference for looking back instead of forward. Finally,
he argues that Russians prefer to work in groups and to monitor results rather than set goals.

Although there is no specific Russian management literature on organizational culture and effectiveness, this review of the literature on management practices, values, and national culture highlights several important issues: The cultures of Russian organizations exhibit a unique set of issues concerned with involvement, empowerment, and accountability, as well as a serious set of issues with respect to achieving coordination and strategic direction as Russians adapt to the emerging market economy. These issues are reflected in the approach to culture taken in our study.

**Organizational Culture and Effectiveness**

A number of scholars have developed integrative frameworks of organizational culture (Allaire and Firsirotu 1984; Hatch 1993; Martin 1992; Ott 1989; Schein 1985, 1990), but little consensus exists with regard to a general theory. Because culture is a complex phenomenon, ranging from underlying beliefs and assumptions to visible structures and practices, some observers question whether culture can actually be “measured” in a comparative sense. Research on the link between organizational culture and effectiveness is also limited by lack of agreement about the appropriate measures of effectiveness.

The current literature has its roots in the early 1980s. Deal and Kennedy (1982) and Peters and Waterman (1982) focused attention on the strategic importance of organizational culture and stimulated interest in the topic. Kotter and Heskett (1992) expanded on this by exploring the importance of adaptability and the fit between an organization and its environment. This paper builds on the framework developed by Denison and his colleagues (Denison 1984, 1990, 1996; Denison and Mishra 1995, 1998; Denison and Neale 1996; Denison et al. 2002). This stream of research has developed an explicit model of organizational culture and effectiveness and a validated method of measurement. This model is based on four cultural traits of effective organizations, which are briefly described below with references to their grounding in the organizational studies literature.

**Involvement.** Effective organizations empower people, organize around teams, and develop human capability (Becker 1964, Lawler 1996, Likert 1961). Executives, managers, and employees are committed and feel a strong sense of ownership. People at all levels feel that they have input into decisions that will affect their work and see a direct connection to the goals of the organization (Katzenbach 1993, Spreitzer 1995).

**Consistency.** Effective organizations tend to have “strong” cultures that are highly consistent, well coordinated, and well integrated (Davenport 1993, Saffold 1988). Behavioral norms are rooted in core values, and leaders and followers are able to reach agreement even with diverse points of view (Block 1991). Consistency is a source of stability and internal integration resulting from a common mindset (Senge 1990).

**Adaptability.** Ironically, organizations that are well integrated are often the least responsive (Kanter 1983). Internal integration and external adaptation can often be at odds. Adaptable organizations are driven by their customers, take risks and learn from their mistakes, and have capability and experience at creating change (Nadler 1998, Senge 1990, Stalk 1988).

**Mission.** Effective organizations have a clear sense of purpose and direction, defining goals and strategic objectives, and expressing a vision of the future (Mintzberg 1987, 1994; Ohmae 1982; Hamel and Prahalad 1994). When an organization’s underlying mission changes, changes also occur in other aspects of the organization’s culture.

Applying this framework to top executives in 764 organizations, Denison and Mishra (1995) showed that four different cultural traits were related to several criteria of effectiveness. This research found that profitability was most highly correlated with the traits of mission and consistency. In contrast, innovation was most highly associated with the traits of involvement and adaptability, and sales growth was most highly associated with the traits of adaptability and mission. Like many contemporary models of organizational effectiveness, this model focuses on the contradictions involved in simultaneously achieving internal integration and external adaptation (Hatch 1993, Schein 1990). For example, organizations that are market focused and opportunistic often have problems with internal integration. On the other hand, organizations that are well integrated and overcontrolled usually have a hard time adapting to their environments. Organizations with a top-down vision often find it difficult to focus on the empowerment and the “bottom-up” dynamics needed for alignment. At the same time, organizations fostering broad participation often have difficulty establishing direction. Effective organizations are those that are able to resolve these contradictions without relying on simple trade-offs.

At the core of this model are underlying beliefs and assumptions. These “deeper” levels of organizational culture are typically difficult to measure and harder to generalize about. However, these underlying beliefs and assumptions result in organizational practices that are observable and that are represented by the four key traits.
of involvement, consistency, adaptability, and mission presented in Figure 1. This model incorporates many of the concepts identified in our review of the Russian management literature and thus serves as a useful framework for our study.

This study took a unique approach to applying this model in the Russian context. The model was used as a framework to test the idea that organizational culture influences effectiveness, but the model was also used as a reference point for understanding aspects of the culture of Russian organizations that may not have been well represented in the model. The first part of this study presents a quantitative test of the model examining the relationship between culture and effectiveness. The second part of this study then presents four case studies to ground the concepts.

In contrast to the typical approach of qualitative theory building followed by quantitative theory testing, the two parts of this study were conducted in tandem. As such, this study took several risks. For example, if the quantitative study had not supported the usefulness of the model for understanding culture and effectiveness in the Russian context, then it would have made little sense to use the model as a framework for the qualitative research. Using two approaches simultaneously allowed us to go back and forth between them to gain a better understanding of what was “behind the numbers” and to develop a better picture of areas where the concepts had a different meaning in Russia than in the United States.

Research Questions
The research questions guiding this investigation concern the applicability of the model in Russia, differences in the link between culture and effectiveness in Russia and the United States, and the underlying meaning and applicability of these concepts in Russia. The first two questions are examined through a quantitative study of 179 firms, and the third research question through four qualitative case studies.

As noted earlier, there is good support in the literature for the importance of the four cultural traits in the model. However, these findings are based upon samples of firms in the United States. Because many authors have suggested that national culture is likely to influence the way management theory “works” outside of the United States
(e.g., Adler 1991; Boyacigiller et al. 2003; Boyacigiller and Adler 1991; Hofstede 1993, 1980a, b), we first need
to determine if a link exists between the four traits and
effectiveness in Russia.

Research Question 1. To what extent are involvement,
consistency, adaptability, and mission associated
with the effectiveness of firms in Russia?

Past research has shown that different cultural traits
are related to different criteria of effectiveness (Denison
and Mishra 1995, Cameron and Whetten 1983, Pennings
1976). However, differences in national culture may
influence the specific impact that the four traits have
in Russia. Because the United States is more individu-
alistic, but Russians dislike uncertainty more and have
greater power distance (Hofstede 1980a, Elenkov 1997),
we might expect that involvement would be more impor-
tant in the Russian context. In addition, since the begin-
ning of Perestroika in 1987, the business environment in
Russia has been turbulent and unpredictable (Holt et al.
1994, Puffer et al. 1998). As a result, adaptability is
likely to be particularly important for firms operating in
Russia. In contrast, mission and consistency, which are
likely to be more important in a stable country like the
United States, may be less important in Russia.

Research Question 2. What is the specific pattern
between the four traits and various criteria of effective-
ness in Russia? How does the pattern in Russia differ
from the pattern in the United States? Do the traits of
adaptability and involvement have a stronger impact in
Russia than they do in the United States?

Even if the first two research questions receive good
quantitative support from the comparative study, num-
bers cannot tell the whole story. This is particularly true
in cross-cultural research. For example, in the United
States when someone nods his or her head up and down,
its means “yes.” However, the same action in Bulgaria
means “no.” The same action has exactly the opposite
meaning in the two countries! Our case studies are used
to address three main issues: First, they point out pat-
terns of behaviors that reflect the concepts in the model
and resemble patterns observed in the United States.
Second, we use the case studies to describe patterns of
behavior that fit with the concepts but are very different
from patterns in the United States. Third, our case stud-
ies help us to highlight some of the underlying dynamics
that help to explain these differences. These qualitative
case studies help point out areas where the concepts in
the model travel fairly well, but also identify specific
patterns of behavior and underlying dynamics that may
be quite different in Russia. Thus, our third research
question takes a look at what is behind the numbers.

Research Question 3. What are the patterns of
behavior that illustrate the concepts in the model in
Russia? Which patterns of behavior are similar to those
that might be observed in the United States? Which pat-
terns of behavior are different from those that might be
observed in the United States? What are some of the
underlying forces that drive these different patterns of
behavior?

These three research questions are examined using
two linked studies: The first two questions are exam-
ined in a comparative study of 179 firms, while the third
question is examined through a set of four case studies.

Testing the Model: A Comparative
Study

This section of the paper presents the quantitative results
from a survey of 179 foreign firms operating in Russia.
This first part of the research examines the impact of
organizational culture on effectiveness in Russia, and
then compares those results to similar results from a
sample of firms from the United States.

Methodology

The population for this study included all foreign firms
operating in Russia in October 1997, with a parent firm
headquartered in Canada, Germany, Finland, France,
Sweden, or the United States. We combined lists of
firms from each country’s embassy for a total of 789
firms. 478 of the firms met our criteria of having at least
15 employees in Russia, operating before June 1995, and
being located in Moscow or St. Petersburg. We chose
to focus on foreign-owned firms for several reasons:
Foreign-owned firms in many ways serve as a “bridge”
between local and global firms. If the model does not
apply to foreign-owned firms, it seems unlikely that it
would apply to indigenous firms. Foreign-owned firms
also tend to experiment more as they try to find a way
to survive and prosper. Finally, the success of foreign-
owned firms is necessary to ensure the continued invest-
ment of foreign capital.

Data collection occurred between October 1997 and
January 1998. After calling to confirm that the com-
pany met the sampling criteria, we personally delivered
a questionnaire to the firm for a senior manager to com-
plete. Whenever possible, the researcher described the
project and had the manager complete the questionnaire
at that time. However, sometimes the manager opted to
complete the questionnaire later and return it by fax.
If questionnaires were not received within one week,
we began a follow-up procedure including three tele-
phone calls, faxing another questionnaire, and a fourth
telephone call as a final reminder. Companies whose questionnaires had not been returned by the end of this procedure were considered nonrespondents.

This procedure yielded 179 usable questionnaires completed by a senior manager in each firm, for a 37\% response rate. Respondents were either general managers, deputy general managers (80\%), or human resource managers (20\%). 122 were Russian and 57 were foreign. Position of the respondent was initially included in the regression equations, but proved nonsignificant and was dropped from subsequent analyses to preserve degrees of freedom. We confirmed that the mean size of responding firms was virtually identical to the population mean for foreign subsidiaries in Russia\(^1\) (Goskomstat 1998). Using a single respondent to depict a firm’s culture has several limitations. It would, of course, be much better to have a large sample of respondents from each firm, or in-depth case studies of each of the 179 firms. However, that would require a huge investment of resources. Because of the comparative focus of the first part of this study, we opted for the approach that would result in as large a sample of firms as possible. Single-respondent studies are also quite common in the recent organizational and strategy literature (e.g., Birkinshaw et al. 1998, Delaney and Huselid 1996, Delery and Doty 1996, Denison and Mishra 1995, Geringer and Hebert 1989, Lee and Beamish 1995, Shaw et al. 1998). A comparative citation analysis shows that single-respondent studies published in top journals are cited frequently,\(^2\) suggesting that when properly executed, their results are accepted.

Some readers may also be concerned that gathering data from a single executive respondent may lead to common method bias. However, using a similar set of measures, Denison and Mishra (1995) showed that culture measures correlated more highly with objectively measured effectiveness than with perceptual measures of effectiveness. Given the well-known dominance of most directors of firms in Russia, we would also argue that it is more accurate to use the general director or deputy general director as a sole respondent in Russia than it might be in other countries. In any case, Fey (1997) has shown that respondents in different parts and levels of an organization tend to have similar assessments of an organization’s culture.

Survey items were drawn from the Denison Organizational Culture Survey (Denison and Mishra 1995, Denison and Neale 1996, Denison et al. 2002) and were translated into Russian and back into English, checked by Russian experts, and pilot tested. The four traits in the model each have three indexes that are the mean of three five-point Likert scale questions ranging from 1–5 (strongly disagree to strongly agree). Appendix A includes a complete list of all these items.

Following Denison and Mishra (1995), effectiveness was measured using seven five-point Likert items, ranging from 1 = poor to 5 = excellent. These items included overall performance,\(^3\) market share, sales growth, profitability, employee satisfaction, quality of products and services, and new product development. These six specific effectiveness measures yielded a one-factor solution which we labeled the effectiveness index (alpha = 0.84). While some scholars have criticized the use of subjective measures of effectiveness, we found them useful for several reasons. First, because Russian accounting standards are still emerging, it is nearly impossible to obtain comparable financial data. Second, because firms operating in Russia have such diverse goals, comparing their short-term financial performance makes little sense. Third, virtually no centrally collected financial information is available. Finally, Russians are often secretive and unwilling to share financial information. Thus, in Russia the benefits of using subjective measures far outweigh the drawbacks. Furthermore, there is good precedent for using perceptual measures (Delaney and Huselid 1996, Denison and Mishra 1995), and prior research has shown that subjective measures of performance correlate well with objective measures of performance (Powell 1992).

We also included control variables for size, industry, firm age, country of origin, and nationality of the respondent. We measured firm size as the number of employees and controlled for concentration in manufacturing. Firm age has little variance because foreign firms were not allowed into Russia prior to 1987. We also controlled for industry, using six of the SIC-based categories prevalent in our sample:

1. electrical, industrial, and precision instrument manufacturing;
2. wood, paper, textiles, food, and metal manufacturing;
3. all other manufacturing;
4. banking, insurance, real estate, advertising, and accounting;
5. wholesale and retail trade;
6. other services.

Finally, we included dummy variables to control for the influence of the home country of the parent firm and to separate Russian and non-Russian respondents. The U.S. comparison sample used in this study comes from Denison et al. (2002) and includes 36,542 respondents from 94 firms from the United States. For this sample there are ≥25 respondents from each firm. Responses were aggregated at the firm level before conducting the analyses. Intraorganizational response rates ranged
from 48% to 100%. Surveys were completed by a wide variety of respondents in the different organizations. The surveys were completed between 1997 and 1999 and cover a wide variety of industries. Tests for industry effects revealed no significant industry effects on the relationship between organizational culture and effectiveness, and thus controls for industry were dropped to preserve degrees of freedom.

**Results**

The validity of the Russian culture measures is supported by the factor analysis presented in Table 1. The data factor nicely into four dimensions with relatively low cross loadings and all of the Cronbach alphas are greater than 0.70. Thus, the factor analysis demonstrates good convergent and discriminant validity.

Table 2 addresses the issues raised in Research Question 1, and offers support for the model. All four of the model’s cultural traits are associated with perceptions of organizational effectiveness in the 179-firm Russian sample: 31 of 32 correlations among the various dimensions of organizational culture and effectiveness reached statistical significance. To compare U.S. and Russian managers as proposed in Research Question 2, Table 2 reports correlations from a sample of 94 U.S. firms (Denison et al. 2002). This comparison shows that all four cultural dimensions in the Russian data are less highly correlated with overall performance, employee satisfaction, quality, and product development, than was the case in the United States. On the other hand, in the Russian data the cultural traits correlate more highly with market share, sales growth, profitability, and the effectiveness index. In Russia, adaptability and involvement are the strongest correlates of the effectiveness index, overall performance, profitability, and product development; involvement and mission are the strongest correlates of market share, sales growth, employee satisfaction, and quality. This pattern contrasts with the U.S. results, which show that mission correlates most highly with five of eight effectiveness dimensions.

A more definitive look at the relationship between organizational culture and effectiveness is provided by the regression results. Table 3 reports the Russian results. It shows that the control variables are insignificant, with two minor exceptions: (1) Firms in the electrical, industrial, and instrument manufacturing sector are slightly less profitable, (2) larger firms tend to receive somewhat higher quality ratings. Table 3 shows that all of the culture traits except consistency are significant predictors of some aspect of effectiveness, providing substantial support for the first research question. The results also support the idea that different aspects of culture are linked to different elements of effectiveness. For example, Table 3 shows that sales growth is most highly associated with mission and that profitability is most highly associated with adaptability. Finally, Table 3 shows that involvement is the most important dimension of organizational culture for firms whose primary goal is employee satisfaction. A correlation matrix of the variables used in the regression analyses is presented in Appendix B.  

Overall, adaptability and involvement seem to be the most important determinants of effectiveness in the Russian context. They account for 12 of the 15 significant relationships associated with effectiveness and are also the most significant in the effectiveness and overall performance models. These results contrast with the regression results for the U.S. data, which are presented in Table 4. In the United States, mission is the organizational cultural trait most highly associated with effectiveness, as it is significantly associated with five of the eight effectiveness measures. Involvement is also significantly associated with employee satisfaction and the overall effectiveness index. Thus, involvement appears to be important for creating an effective organization in both the United States and Russia. However, mission appears to be the most important trait in the relatively stable United States, while in Russia’s transition economy,
adaptability is the more important factor. The observation that different organizational cultural traits are more important in the United States and Russia addresses Research Question 2.

These comparative results are quite encouraging. The culture measures achieved a high level of validity, showing that comparative cross-national research on culture and effectiveness is quite possible. The correlation and regression results show many important similarities to the results from prior research from the United States, but present one important difference: In Russia’s turbulent transition economy, stability traits such as mission and consistency are less strongly associated with effectiveness than are the flexibility traits of involvement and adaptability. The results also make good intuitive sense and encourage us to turn our attention to what lies behind the numbers.

**Taking a Closer Look: Four Case Studies**

The quantitative part of this study shows that many of the concepts in the organizational culture model appear
Table 3  Regressions of Effectiveness on Organizational Culture Dimensions: Russian Data\(^1\)

<table>
<thead>
<tr>
<th>Independent Variable</th>
<th>Overall Performance</th>
<th>Market Share</th>
<th>Sales Growth</th>
<th>Profitability</th>
<th>Employee Satisfaction</th>
<th>Quality</th>
<th>Product Development</th>
<th>Effectiveness Index</th>
</tr>
</thead>
<tbody>
<tr>
<td>Involvement</td>
<td>0.27***</td>
<td>0.20*</td>
<td>0.21*</td>
<td>0.18**</td>
<td>0.33***</td>
<td>0.29***</td>
<td>0.18**</td>
<td>0.26***</td>
</tr>
<tr>
<td>Consistency</td>
<td>0.13</td>
<td>0.05</td>
<td>0.13</td>
<td>0.07</td>
<td>0.05</td>
<td>0.12</td>
<td>-0.06</td>
<td>0.05</td>
</tr>
<tr>
<td>Adaptability</td>
<td>0.30***</td>
<td>0.09</td>
<td>0.05</td>
<td>0.31***</td>
<td>0.02</td>
<td>0.00</td>
<td>0.26***</td>
<td>0.34***</td>
</tr>
<tr>
<td>Mission</td>
<td>0.09</td>
<td>0.10</td>
<td>0.36***</td>
<td>-0.01</td>
<td>0.22**</td>
<td>0.21**</td>
<td>0.08</td>
<td>0.06</td>
</tr>
<tr>
<td>Firm size</td>
<td>0.08</td>
<td>0.14</td>
<td>0.06</td>
<td>0.11</td>
<td>0.10</td>
<td>0.18**</td>
<td>0.02</td>
<td>0.12</td>
</tr>
<tr>
<td>% Manufacturing</td>
<td>-0.03</td>
<td>-0.05</td>
<td>-0.05</td>
<td>-0.11</td>
<td>-0.11</td>
<td>-0.13</td>
<td>-0.02</td>
<td>-0.04</td>
</tr>
<tr>
<td>Firm age</td>
<td>0.08</td>
<td>0.12</td>
<td>0.01</td>
<td>0.07</td>
<td>0.05</td>
<td>0.00</td>
<td>0.07</td>
<td>-0.07</td>
</tr>
<tr>
<td>Industry 1(^2)^3</td>
<td>-0.03</td>
<td>-0.10</td>
<td>-0.03</td>
<td>-0.17**</td>
<td>-0.09</td>
<td>-0.14</td>
<td>-0.03</td>
<td>-0.10</td>
</tr>
<tr>
<td>Industry 2(^2)^3</td>
<td>0.06</td>
<td>0.04</td>
<td>0.04</td>
<td>-0.05</td>
<td>0.02</td>
<td>0.07</td>
<td>11</td>
<td>-0.05</td>
</tr>
<tr>
<td>Industry 3(^2)^3</td>
<td>0.09</td>
<td>-0.06</td>
<td>0.01</td>
<td>0.00</td>
<td>0.02</td>
<td>0.02</td>
<td>-0.08</td>
<td>-0.06</td>
</tr>
<tr>
<td>Industry 4(^2)^3</td>
<td>-0.01</td>
<td>-0.06</td>
<td>0.09</td>
<td>-0.01</td>
<td>-0.10</td>
<td>0.01</td>
<td>-0.03</td>
<td>-0.02</td>
</tr>
<tr>
<td>Industry 5(^2)^3</td>
<td>0.08</td>
<td>-0.10</td>
<td>0.03</td>
<td>-0.10</td>
<td>0.02</td>
<td>0.02</td>
<td>-0.01</td>
<td>-0.08</td>
</tr>
<tr>
<td>Home country Canada(^3)</td>
<td>0.10</td>
<td>-0.08</td>
<td>-0.05</td>
<td>-0.02</td>
<td>0.03</td>
<td>0.05</td>
<td>0.01</td>
<td>-0.08</td>
</tr>
<tr>
<td>Finland(^4)</td>
<td>0.09</td>
<td>-0.12</td>
<td>0.09</td>
<td>-0.08</td>
<td>0.08</td>
<td>-0.01</td>
<td>-0.01</td>
<td>-0.08</td>
</tr>
<tr>
<td>Germany(^3)</td>
<td>0.01</td>
<td>-0.15</td>
<td>0.02</td>
<td>-0.09</td>
<td>-0.11</td>
<td>-0.08</td>
<td>0.05</td>
<td>-0.02</td>
</tr>
<tr>
<td>Sweden(^5)</td>
<td>0.04</td>
<td>0.02</td>
<td>-0.03</td>
<td>0.03</td>
<td>0.00</td>
<td>0.02</td>
<td>0.08</td>
<td>-0.02</td>
</tr>
<tr>
<td>United States(^5)</td>
<td>0.05</td>
<td>-0.13</td>
<td>-0.02</td>
<td>-0.08</td>
<td>-0.00</td>
<td>-0.05</td>
<td>-0.07</td>
<td>-0.01</td>
</tr>
<tr>
<td>Manager U.S./Russian</td>
<td>0.06</td>
<td>-0.09</td>
<td>0.13</td>
<td>0.01</td>
<td>0.05</td>
<td>0.03</td>
<td>0.01</td>
<td>0.05</td>
</tr>
<tr>
<td>F full model</td>
<td>4.27****</td>
<td>2.72****</td>
<td>4.08****</td>
<td>4.42****</td>
<td>4.14****</td>
<td>4.10****</td>
<td>2.35***</td>
<td>6.18****</td>
</tr>
<tr>
<td>Full model R(^2)</td>
<td>0.32</td>
<td>0.23</td>
<td>0.31</td>
<td>0.33</td>
<td>0.32</td>
<td>0.32</td>
<td>0.21</td>
<td>0.41</td>
</tr>
<tr>
<td>Adjusted R(^2)</td>
<td>0.25</td>
<td>0.15</td>
<td>0.24</td>
<td>0.25</td>
<td>0.24</td>
<td>0.24</td>
<td>0.12</td>
<td>0.34</td>
</tr>
<tr>
<td>(\Delta) adjusted R(^2)(^5,(^6))</td>
<td>0.24</td>
<td>0.10</td>
<td>0.23</td>
<td>0.20</td>
<td>0.23</td>
<td>0.21</td>
<td>0.10</td>
<td>0.33</td>
</tr>
<tr>
<td>(F) for (\Delta) adjusted R(^2)(^5,(^6))</td>
<td>12.44***</td>
<td>4.87****</td>
<td>12.05****</td>
<td>10.49****</td>
<td>12.30****</td>
<td>11.20****</td>
<td>4.62****</td>
<td>20.15****</td>
</tr>
<tr>
<td>DF</td>
<td>160</td>
<td>160</td>
<td>160</td>
<td>160</td>
<td>160</td>
<td>160</td>
<td>160</td>
<td>160</td>
</tr>
</tbody>
</table>

Note: *\(p < 0.05\), **\(p < 0.01\), ***\(p < 0.005\), ****\(p < 0.001\).

\(^1\)N = 179; standardized regression coefficients (Betas) are reported.

\(^2\)Industry 1 = electrical, industrial, and precision instrument manufacturing; Industry 2 = wood, paper, textiles, food, and metal manufacturing; Industry 3 = other manufacturing; Industry 4 = banking, insurance, real estate, advertising, and accounting; Industry 5 = wholesale and retail trade.

\(^3\)United States and home country “France” are excluded from the regressions so that the model is not over determined.

\(^4\)\(\Delta\) adjusted \(R^2\) shows the amount of additional variance explained by adding the four organizational culture variables as a set to regressions including all 14 control variables.

Table 4  Regressions of Effectiveness on Organizational Culture Dimensions: U.S. Data\(^1\)^2

<table>
<thead>
<tr>
<th>Independent Variable</th>
<th>Overall Performance</th>
<th>Market Share</th>
<th>Sales Growth</th>
<th>Profitability</th>
<th>Employee Satisfaction</th>
<th>Quality</th>
<th>Product Development</th>
<th>Effectiveness Index</th>
</tr>
</thead>
<tbody>
<tr>
<td>Involvement</td>
<td>0.21</td>
<td>-0.18</td>
<td>-0.10</td>
<td>-0.01</td>
<td>0.52***</td>
<td>0.13</td>
<td>0.06</td>
<td>0.35***</td>
</tr>
<tr>
<td>Consistency</td>
<td>0.10</td>
<td>0.07</td>
<td>-0.13</td>
<td>0.21</td>
<td>0.19</td>
<td>0.45**</td>
<td>-0.13</td>
<td>-0.13</td>
</tr>
<tr>
<td>Adaptability</td>
<td>-0.06</td>
<td>-0.13</td>
<td>-0.01</td>
<td>-0.38*</td>
<td>-0.11</td>
<td>-0.02</td>
<td>0.32</td>
<td>-0.21</td>
</tr>
<tr>
<td>Mission</td>
<td>0.38**</td>
<td>0.46**</td>
<td>0.58***</td>
<td>0.47***</td>
<td>0.17</td>
<td>0.04</td>
<td>0.24</td>
<td>0.48***</td>
</tr>
<tr>
<td>F</td>
<td>18.00****</td>
<td>3.13*</td>
<td>5.90****</td>
<td>5.64****</td>
<td>41.44****</td>
<td>16.36***</td>
<td>9.21****</td>
<td>13.44****</td>
</tr>
<tr>
<td>R(^2)</td>
<td>0.36</td>
<td>0.09</td>
<td>0.16</td>
<td>0.15</td>
<td>0.56</td>
<td>0.34</td>
<td>0.22</td>
<td>0.26</td>
</tr>
<tr>
<td>Adjusted R(^2)</td>
<td>0.34</td>
<td>0.06</td>
<td>0.13</td>
<td>0.12</td>
<td>0.55</td>
<td>0.318</td>
<td>0.20</td>
<td>0.24</td>
</tr>
<tr>
<td>DF</td>
<td>90</td>
<td>90</td>
<td>90</td>
<td>90</td>
<td>90</td>
<td>90</td>
<td>90</td>
<td>90</td>
</tr>
</tbody>
</table>

Note: *\(p < 0.05\), **\(p < 0.01\), ***\(p < 0.005\), ****\(p < 0.001\).

\(^1\)Standardized regression coefficients (Betas) are reported above.

\(^2\)N = 94.
to have an impact in the Russian context. However, even where the results appear to indicate a similar impact in the United States and Russia, it could be a mistake to assume that the concepts have the same meaning in the Russian context as they do in the U.S. environment. For example, empowerment may be important in both contexts, but empowerment may entail very different behaviors in the two contexts. Thus, the first objective of the case studies is to ground the model in the Russian context through more detailed description. The second objective is to highlight aspects of the cultures of these firms that have an important impact on effectiveness but are difficult to describe using only the concepts in the model. This section begins with a description of the case study methodology, followed by background descriptions of the four firms, and a summary table. Next, we ground the concepts of the model in the reality of the cases. The final part of this section focuses on several key themes that emerged from the case studies that were not well represented in the model but help to provide a better understanding of culture and effectiveness in the Russian context.

Case Study Methods
We began by identifying a subset of the 179 firms that had at least 70 employees and had manufacturing and sales operations in Russia. To control for the national culture of the parent firm and to facilitate access, we identified 13 Swedish firms that met these criteria and selected four firms representing a range of effectiveness levels (Eisenhardt 1989). We then conducted 10 interviews in each firm. In each case, we interviewed one expatriate (either the GM or Deputy GM) and conducted the remaining interviews with Russians. In each firm, we interviewed the GM, the HR Manager, two production employees, one production manager, one marketing employee, one marketing manager, one financial or accounting employee, one engineer, and one engineering manager. Sixty percent of the interviews were conducted in English and the rest in Russian with a translator present. The interviews were semistructured, following Merton et al. (1963) approach. The core questions focused on the following topics: the interviewee's background, the organization's values, the unique aspects of the organization's history, the subgroups in the firm, the organization's management and business practices, and the link between the organization's culture and effectiveness. The purpose of these interviews was to understand the organization and the impact that its culture had on effectiveness.

Two researchers were present at each interview. Both took notes independently and typed them up each night. Any inconsistencies were discussed and resolved. Researchers' impressions were kept separate from the interviewees' impressions, and all data were included in the write-up even when not specifically requested in the interview guide (Yin 1984, Eisenhardt 1989). Interview notes from the two researchers were compared to highlight differences and produce a master set of interview notes. Next we followed the “memoing” process (Glaser 1978) to record patterns that the researchers noted within each site and across sites to identify the matches between the empirical pattern and the predicted pattern (Yin 1984).

Our presentation of the case studies begins with brief background descriptions of each firm. This is followed by a discussion of the cases in terms of the four traits defined by the model, illustrating them with examples from the cases. The final section focuses on several key themes that emerged from the case studies that were not well represented by the model but are important for understanding firms in Russia.

Four Case Studies: General Background
AGA. Headquartered in Stockholm, Sweden, AGA is one of the world's leading producers of industrial gas (e.g., oxygen, hydrogen, argon) with 1999 sales of U.S.$1.76 billion and over 10,000 employees in 40 countries. AGA has a matrix structure with three business areas (manufacturing industry, process industry, and health care industry) and country organizations.

AGA entered Russia in 1908. After an interruption during the 1917 revolution, AGA began supplying the Russian market via its Finnish subsidiaries in 1934. In 1999, AGA Russia employed over 350 people, with a head office in Moscow, a sales office in St. Petersburg, and factories in Kaliningrad and Moscow. AGA Moscow experienced financial losses in Russia in 1997 and 1998, but cut expenses in 1999 and thus made a small profit even though their prices are high and the industry has overcapacity.

In 1995, AGA Moscow invested U.S.$10 million in a plant with a capacity of 100 tons per day. The "new" factory was an old AGA factory from Finland that was disassembled, shipped to Russia, and then reassembled in Balashikha, just outside of Moscow. AGA Moscow also set up 20 distribution stations throughout Russia. The Moscow office in Balashikha is divided into the sales department, mainly made up of new personnel, and the production side, mostly comprised of workers from the acquired production facility.

Alfa Laval. Alfa Laval produces dairy equipment for separating milk and cream, as well as heat exchangers. It has 13,800 employees in 110 subsidiaries in 50 countries
producing annual revenues of U.S.$1.8 billion. Alfa Laval acquired the Potok factory outside Moscow in 1993 and renovated it to create a modern-looking factory in 1996. Today, with 300 employees, the factory is somewhat too large for Alfa Laval Potok’s current needs.

Alfa Laval Potok has 20 distributors in different regions of Russia. In Novosibirsk, Alfa Laval Potok has a successful distributor covering most of Siberia and accounting for 50% of the total Alfa Laval Potok heating revenues. Alfa Laval Potok had poor initial results and many challenges to overcome. However, it appears that Alfa Laval has adapted well to the Russian environment, making its first profit in 1999. Alfa Laval Potok was originally supposed to focus on producing separation equipment, but this market had overcapacity. As a result, Alfa Laval Potok switched the majority of its efforts to producing heat exchange equipment for district heating, which was a more promising business. This move took courage on their part and shows a good ability to adapt to the Russian market. Alfa Laval’s efforts to switch its focus to heat exchangers, trim excess personnel and assets, and aggressively pursue sales explain why it is now profitable.

AssiDomAn. The Swedish firm AssiDomAn is one of Europe’s largest forest-product companies, with 18,000 employees and sales of U.S.$3 billion, 60% from outside Sweden. AssiDomAn is divided into five business areas: forestry, packaging, craft products, cartons, and barrier coating. It first entered Russia when it acquired 57% of the paper-producing company Segezhhabprom in Karlela. This company ran into serious problems, and AssiDomAn has only recently managed to liquidate this investment.

Nonetheless, AssiDomAn still saw opportunity in the Russian market and invested U.S.$25 million to open a new factory in St. Petersburg in 1997. This modern factory focuses on the production and sales of corrugated packaging in northwestern Russia. Russian native Dennis Belkovsky (Managing Director) and his Danish wife Malene Ratajczak (Finance and Administration Director) manage the plant with an enlightened management style. According to AssiDomAn, the Russian market for corrugated cardboard is growing rapidly. Its factory, which covers 15,000 m², is capable of producing 60 million m² of cardboard per year when working three shifts. Currently, however, only one shift, with 80 employees, is working.

Lift. Lift (a pseudonym) is a division of a large global firm that develops, produces, sells, and services elevators. The parent company has 200,000 people, sales of U.S.$22 billion, and is organized in a matrix structure with national companies in one dimension and 30 business areas in the other dimension. Lift Moscow is a joint venture formed in 1994. Lift owns 80% of Lift Moscow and the Moscow Mechanical Complex owns the remaining 20%. In practice, Lift Moscow functions like a wholly owned subsidiary. Lift Moscow was supposed to be Lift’s golden door to Russia, but its potential has not been reached because it has been unable to sell many elevators. Fortunately, it has been able to adapt by cutting the work force from 550 to 350 employees and by aggressively pursuing service contracts.

Because Lift Moscow produces only small elevators designed for residential use, local governments that have limited resources are their primary customers. Lift has had great difficulty selling elevators for cash and has resorted to barter. For example, in one recent deal, Lift “sold” a U.S.$1.2 million elevator system to a town. The town paid for the system by bartering U.S.$1.5 million in electricity to a pulp and paper company that bartered U.S.$1.1 million in paper to a trading company that paid Lift U.S.$1 million cash. Many foreign firms refuse to consider barter deals even though they can be an effective way of doing business in Russia. Indeed, barter deals have several drawbacks—they take much longer and require a 20% markup to be profitable. However, they allow firms to make sales that would not otherwise be possible. The use of barter deals and the focus on service are two key examples of how Lift has adapted.

Grounding the Model in the Russian Context
To summarize the case studies, we present several ratings of the culture and effectiveness measures. The researchers’ assessments, the survey evaluation of the GM, and the survey evaluation of the 10 interviewees are all presented in Table 5. These results show that the different assessments are quite consistent.

Each of these cases provides examples that help ground the model in the Russian context. Some of the examples show direct similarities to firms in a Western context, while other examples appear to illustrate the general concepts outlined in the model, but show many differences from firms in the West. This section presents our qualitative findings.

Involvement. Several of the cases provide examples of involvement similar to what might be found in the West, while other examples provide a very different feel. For example, the AssiDomAn production manager rewarded workers who could operate multiple machines and put a chart on the wall where workers could see how many machines they were certified to operate. Nonetheless, strong leaders who exert tight control are an enduring Russian tradition and the overall level of involvement.
seems quite a bit lower than would likely be the case in the West. For example, the same production manager who rewarded workers for mastering multiple machines exerted very tight control over workers and would not allow them to make personal calls home, even if they had a sick child. Workers also complained that management often made them clean their aging machinery over and over again when work was slow. Nonetheless, workers still appear to place high value on capability development. In this same organization, when workers were asked if they would prefer an extra month’s pay or the chance to attend a one-week training course, most said that they would choose the training course. This is consistent with assertions that Russians may attach higher value to development than their counterparts in the West (Puffer 1992).

Other examples of involvement appear to be more unique to Russia. Top management at Alfa Laval would often delegate decisions to middle management. However, because top management had an “open-door” policy, the middle managers would come back over and over again, asking top management to “decide” on an issue that had officially been delegated to them. Top management would respond by asking for the pros and cons of different alternatives but in the end tried to make the middle managers decide. Top management thought that this was better than abruptly telling middle management that it was their job to decide. Over time the middle managers slowly learned to make decisions on delegated issues. Alfa Laval, in fact, was probably the best example of high involvement among the four case studies.

AGA provides a useful example of how expectations of involvement and the sense of belonging to a team often follow functional lines. AGA had two very different subcultures. People in the top management, sales, and accounting departments were young, new to the firm, highly motivated, and open to trying new ways of working. People in the production department were older and had been working at the plant for many years. This second group of employees primarily wanted stable jobs with salaries they could live on and were not eager to change the way they had worked for years. Both groups were motivated by membership in their functional subgroups but not by their membership in the organization as a whole. While this general phenomenon occurs in firms in the West, it was clearly more extreme in AGA. For example, the first time we interviewed two factory workers, we asked, “How does it feel to work for AGA?” They replied, “We don’t work for AGA.” Further questioning revealed that what they meant was that they worked for the Balashikha plant and regarded AGA as only an investor. The management/sales/accounting group viewed the production workers as ineffective employees that they inherited with the plant, many of whom wanted their salaries without having to work hard. However, the factory employees saw the management group’s high salaries and fancy offices as a major problem that was preventing AGA from being profitable. “After all,” one of the production
workers commented, “the sales employees cost money, but they are not really producing anything.”

Consistency. Several of the cases illustrate aspects of the cultural trait consistency that parallel observations made in firms in the West. The AGA and Alfa Laval cases reveal serious problems with coordination and integration stemming from the differing mindsets across functions and the poor communication between departments.

Coordination and communication problems are, of course, also common within firms in the West. However, the cases suggest that the scale and scope of these deficiencies are substantially greater in Russia. For example, we asked questions about each firm’s core values. In Lift, several of the employees gave the same answer, “The core value of the firm is to maintain the formal system.” Their response does point to a consistent set of core values, but shows that they think that the primary purpose of the firm is to maintain the integrity of the authority structure—not a response that an employee in the West would often give. Another example illustrating both the applicability of the general concept and the idiosyncrasy of its application in Russia came from AGA. When we asked one lower-level employee whether he agreed with management’s decisions, he replied, “Right now, people really have no choice other than to agree.” This comment shows the relevance of the general concept of alignment and consensus across levels, but also illustrates the different connotation attached to “agreeing” in Russia.

Adaptability. The case studies illustrate a number of aspects of adaptability. The data reflect certain dynamics similar to those in Western organizations, while others are quite different. AssiDoman’s use of two-person sales teams provides an example paralleling what might be found in the West. To respond more quickly to customers, AssiDoman paired one salesperson on the road with another salesperson in the office. This assured that customers would be able to contact someone even when their sales representative was on the road. The pairing was also helpful in that the salesperson on the road could rely upon his or her partner in the office to make certain that orders were placed with the production department on a timely basis. Although one salesperson with a laptop and cell phone would probably do this job in the West, the example shows how a small team with shared responsibility can make the system respond more quickly to customers.

Other examples of adaptability that are more specific to the Russian context came from Alfa Laval and Lift. In an effort to survive, Alfa Laval quickly changed its focus from separation equipment to heat exchangers. In Lift, the original focus on producing and selling new elevators in Russia was expanded to also include servicing existing elevators. Servicing existing elevators became the main part of Lift’s business. The few new elevators that Lift was able to “sell” were often arranged through barter. Drastic strategic changes of this sort may occur as a part of restructuring in the West, but in the Russian context they are clearly a more routine aspect of “business-as-usual.” This underscores the importance of adaptability as a concept, even if it takes a different form in the Russian context. Russian firms’ approaches to creating change are also instructive. On one hand, Russians appear to be able to endure change of almost any sort, sustained by their combination of resignation, fatalism, and ingenuity in the service of survival. On the other hand, their concept of a proactive approach to change in which individuals shape their own future appears quite limited. It is noteworthy that the most adaptable firm, AssiDoman, used an “open-to-change” mindset as a key criterion in the recruitment of new employees.

Mission. Because of the continuous state of turbulence in the Russian business environment, a clear sense of mission is difficult to establish. Thus, with few exceptions, the positive examples in our case studies had to do with the way that drastic organizational changes were communicated to employees. For example, the two least effective organizations, Lift and AGA, both changed direction quickly, but did little to communicate these changes to their employees. In Lift’s case, the change from production, sales, and service to only service was not communicated throughout the organization. Changes were simply made on the operational level, and employees were expected to follow. In AGA’s case, a series of unmet sales targets quickly changed its strategic goals from expansion to survival. However, employees seemed largely unaware of the rationale for these changes. Two other cases, Alfa Laval and AssiDoman, illustrate the use of mission to foment change. In Alfa Laval, the strategic rationale for the shift from separation equipment to heat exchangers was well communicated and well understood throughout the firm. In AssiDoman, we saw one of the few examples of creating a proactive sense of mission. The subsidiary was led by a husband and wife team who made a deliberate attempt to create an organization that was, in their words, “a good place to work.” Their success in communicating this mission was evident in a number of their employees’ comments in interviews.

Our analysis of the data from these four case studies also supported the quantitative findings in another important way. Our informants provided many more examples of the impact of adaptability and involvement on
a firm’s effectiveness than of consistency and mission, which appeared to be far less powerful determinants of effectiveness in the Russian context. Comments relating to involvement and adaptability also contained many examples of creative solutions to problems posed by the Russian context. Our queries about consistency and mission elicited some interesting examples, but these cultural traits clearly are less salient in the turbulent Russian business environment. Thus, the results of the case studies mirror the quantitative findings.

Understanding Organizational Culture in the Russian Context

In the previous section, the qualitative results reported for each of the four traits fell into two different categories: (a) qualitative findings that fit well with the concepts in the model and were illustrated through patterns similar to what one might encounter in the West, and (b) qualitative findings that fit reasonably well with concepts in the model, but felt quite different from the patterns typically encountered in Western firms. This section of the paper takes this analysis one step further and focuses on several cultural dynamics that are not as well represented in the model and are quite different from the conditions typically encountered by Western firms.

First, it is important to acknowledge the influence of the Communist era on the culture of firms in Russia. Like firms in most transition economies, our case study firms were “functionally incomplete” (Newman and Nollen 1998). During the Communist era, the functions of strategy, finance, sales, and marketing were primarily performed by the state. Thus, one of the major transitions has been to establish these functions at the firm level. From a cultural point of view, these changes often feel more like a merger or acquisition (of the new functions) than like cross-functional differences in the West. They influence all aspects of firm operation that require cross-functional coordination. Second, the tradition of central control and authority means that the salience of any conception of the firm or the value chain is weak or nonexistent compared to the power of the functional boss. Russians often regard firm-level goals as distant and unfamiliar priorities compared to maintaining the integrity of one’s functional area.

This pattern is clear in several of the cases. Indeed, one of our first impressions of AGA was of the coexistence of two separate worlds. The top management and the sales and accounting departments make up one world, while the manufacturing department makes up another. Most employees in the former group were young, ambitious, and new to the firm, while the second group was older and had worked at the factory for years. The first group was housed in a separate building that was much nicer than the factory building. Communication between the two groups was limited.

A similar picture comes from Alfa Laval. Several top managers were Swedish, with poor knowledge of Russian. They tended to work with younger English-speaking Russians. The language barrier created an “us” versus “them” feeling and undermined team spirit. “Us” referred to the people on the fourth floor, who speak good English, are new at the production plant, and perhaps worked at Alfa Laval’s sales subsidiary prior to the acquisition of the factory. “Them” referred to the older managers from Potok with limited knowledge of English, located on the third floor.

One employee at the Potok plant told us about the difficulty he had understanding the Alfa Laval culture. Prior to Alfa Laval’s acquisition of Potok, meetings were very formal with chairs assigned according to position. Now, Alfa Laval Potok employees are encouraged to work together as equals to try to solve problems. This is difficult for older managers. To them, communication between people of different levels is unnatural. To learn the new style, the old managers went to Sweden for a week to see the new management style in action. As one participant said, “I understood right then how work was to be done. It is like the old Russian proverb that says it is better to see something once than to hear it one hundred times.” In Lift, we saw a picture of authority distribution that was more traditional in Russia. When we asked one manager if workers could suggest product modifications he answered, “You don’t understand: Workers work; managers know everything.”

These examples illustrate a difficult challenge faced by firms in Russia. Many firms, in effect, have two workforces. The first consists of older workers, with a traditional Russian mindset, who resist change. They are primarily found in production and engineering where there is no substitute for their technical expertise. The second workforce is made up of young, aggressive “New Russians” who are generally eager to adapt. Members of this group are driven by career ambitions and often have some training in business, English, or a few years experience working for a foreign firm in sales or marketing. It also appears to be a common pattern to place younger workers in charge of older ones early in their careers, adding to the tension.

The impacts of subcultures are well established in the organizational research literature (Hatch 1993, Martin 1992, Van Maanen and Barley 1984) and provide one point of reference for understanding these dynamics.
Indeed, one shortcoming of the culture model used here, like other general models (Hofstede 1991, Kotter and Heskett 1992), is that it can foster the impression that organizations have unitary cultures. Researchers using these approaches need to be aware of the subcultures that exist and the dynamics they create. Kluchevskii’s (1990, pp. 58–64) comments on the Russian “tendency to dissemble,” “preference for working in groups,” and “circumspect nature” highlight elements of Russia’s national culture that may help give rise to organizational subcultures.

Another example from AGA helped clarify the impact that these dynamics can have on effectiveness. When we visited the factory we noticed a bottleneck which seemed to be caused by operating only one forklift despite three others parked nearby. We learned that the forklifts had been purchased three months ago, but three of them had been idle for the last five weeks with broken sparkplugs. We traced this problem through the system: The operators said that they had informed their supervisors of the problem. The supervisors told us that they had reported the problem to the repair center. The repair center director told us that those sparkplugs were difficult to get in Russia and had been ordered from Germany. Each person felt that he had done his job and that there was nothing to do but wait for the sparkplugs to appear. While the workers were upset that they did not have three of their four forklifts, no one took the initiative to ensure that the sparkplugs would arrive faster. Further, no one seemed upset that a major investment in the forklifts was going to waste and that workers’ time was being used inefficiently. In reality, a phone call to Germany probably could have had a box of sparkplugs delivered FedEx to Moscow in a few days. Top managers at AGA Russia were unaware of this problem and would have taken action if they had known.

This example also points out the importance of the concept of time as a resource. In many Western firms, competitive strategies based on time are well established (Stalk 1988). None of the case study firms viewed time in the same way as a well-managed firm in the West. The proclivity for responding only to central authority means that most Russian workers and managers place little value on responsiveness, the goals of the firm, the shared responsibility of employees, or the mechanisms by which unresolved problems are surfaced for managers to address. In contrast to the literature’s treatment of differences in time perspective as a stable national characteristic (Bluedorn 2000; Giddens 1990, 1991; Hall 1976; Hofstede 1991; Trompenaars 1998), we uncovered significant differences between the four firms, suggesting that individual firms have great latitude in the extent to which they reflect national tendencies. Our findings also suggest that a firm’s concept of time may be influenced by its exposure to the West and by the level of competition in its industry.

The cultural dynamics described above are summarized in Figure 2. As the economic transition shifted the division of labor between the state and the firm, existing firms were rendered functionally incomplete. Adding the functions of management, finance, strategy, and marketing created an imbalance in the demographics of these firms and spawned subcultures with little shared sense of the firm as a whole. Within this context, coordination problems are widespread and their solution is essential for effective organizational performance. The problems of coordination across subcultures are influenced by several Russian national characteristics, particularly the tendency to dissemble and the concept of time as a resource. These intrafirm dynamics are also influenced by the changes taking place in the economic system that require firm-level economic transitions and by increasing levels of market-based competition. As noted earlier, the dynamics noted in Figure 2 could have been explained simply by reference to the concepts in the organizational culture model. Indeed, consistency and coordination, empowerment, and the presence of a firm-level mission all could be discussed with reference to concepts in the model. However, discussing the examples only in terms of the concepts in the model would miss the underlying pattern uncovered in the case studies and presented in Figure 2. This pattern is very useful in understanding the culture of organizations in Russia.

These four case studies have grounded our conceptual model in the realities of the Russian context and addressed the issues posed in our third research question.
In general, the case studies support the idea that the model is a useful starting point for understanding issues of culture and effectiveness in the Russian context. Indeed, we could have discussed the dynamics highlighted in this section in terms of the model, but doing so would have missed the point that concepts can have different meanings in different contexts, even as they have wide applicability across those different contexts. The case studies highlight an interesting distinction between the behaviors that illustrate the concepts in the model and are similar to what one might observe in firms in the West and those behaviors that illustrate the concepts, but are very different from what one might observe in a firm in the West. This distinction is very helpful because it illustrates that the concepts may travel fairly well, helping to account for the quantitative support for the model, but that the specific patterns of behavior that exemplify the concepts may vary quite a bit across cultures. Indeed, this aspect of the study provides an interesting example of how a theory can provide a useful framework and point of reference for understanding cultural patterns that go far deeper than just the model.

Discussion
This study has taken an American model of organization culture and effectiveness and applied it to understand the performance of a set of foreign-owned firms operating in Russia. Several clear substantive differences have emerged from this research. The first is the importance of flexibility in Russia. Adaptability proved to be the most useful dimension in the model for understanding overall effectiveness. This finding also makes good intuitive sense given Russia’s turbulent and unpredictable environment. This stands in contrast to a more stable environment like the United States, where mission appears to take on a much greater importance. Involvement also appears to be important to effectiveness in Russia. Under Communism, competition between groups was encouraged, but competition between individuals was discouraged. As a result, Russians like working in groups and are good at it (Vlachoutsicos 2001).

Other substantive insights emerged from the case studies. These provided good support for the applicability of the model, but also focused our attention on issues specific to Russia. The most distinctive pattern that we observed was the combination of dynamics, summarized in Figure 2, that is driven by the “functionally incomplete” organizational structures inherited from the Communist era. These dynamics appear to be an important feature of the organizational cultures of firms operating in transition economies (Newman and Nollen 1998). Future research on international management and cross-cultural differences should not neglect this important set of issues faced by managers in transition economies.

This study speaks to several other issues in the organizational literature. First, this paper has made a modest contribution to the longstanding debate about the wisdom of using theories developed in one part of the world to understand organizational phenomena in other parts of the world (Adler 1991, Boyacigiller and Adler 1991, Boyacigiller et al. 2003). The paper provides an interesting point of reference in that debate. On one hand, this study illustrates that a model of organizational culture developed in the United States can be applied in the Russian context and can be useful for predicting differences in effectiveness. However, in addition, the research shows that the model can be a useful foundation for understanding differences in the culture-effectiveness relationship across cultures. Differences between national contexts can often be clarified through comparative analysis. The use of a general model is helpful, if not essential, to the comparative process.

The novel combination of qualitative and quantitative methods used in this study will also be of interest to organizational researchers. The study began by using an existing model of organizational culture and effectiveness as a starting point for the research. The first part of the study presented a quantitative test of the model and showed that the model was useful in understanding effectiveness, but that the results were somewhat different from the results for a sample of U.S. firms. The quantitative results were used as probes to inform our research questions rather than tools to refute falsifiable hypotheses. The second part of the study selected four firms for in-depth qualitative analysis. These case studies generated a number of examples that served to ground the theoretical concepts in the realities of the Russian context. The case studies offered examples that fit well with the model, but also highlighted themes that were invaluable in understanding the realities of the Russian context but were not fully anticipated by the model.

In contrast to the typical approach of qualitative theory building followed by quantitative theory testing, this study pursued both methods at the same time and allowed us to move more quickly toward our goal of understanding the link between culture and effectiveness in the Russian context. As mentioned earlier, this approach carried several risks. Until we had established the validity of the model in the Russian context, it did not make much sense to plan to use it as a framework for interpreting the qualitative data. This meant that we were continuously comparing the findings from the two methods. For example,
when we began to analyze our survey data we also continued analyzing our qualitative results to make certain that the model could be a useful frame of reference for interpreting the results from both studies. Had we done the qualitative study first, we could not have explored the themes that emerged from the quantitative study to the same extent that we have here. Had we conducted the qualitative study second, we could not have understood if the model had validity and meaning in the Russian context. It is also worth noting that we use the quantitative data as a probe to inform our general research questions, rather than as a tool to refute falsifiable hypotheses. In other words we follow the logic of exploration, rather than the logic of verification.

When it became clear that the quantitative results supported the model, our focus changed. It then made sense to use the qualitative data for several different purposes. The first purpose was to help illustrate the concepts in the model and to ground the findings in the reality of Russian organizations. This step of qualitative elaboration worked quite well, and it helped us to see many interesting and unanticipated insights that were hiding behind our quantitative analyses. However, the qualitative data also served a second purpose of describing examples that fit well with the concepts in the model but illustrated those concepts with behaviors, dynamics, and patterns that were quite different from what might be observed in a Western context. This taught us an important lesson: The model may be “valid” in the Russian context, but there may still be much to learn about what the constructs actually mean in that context.

This discovery also taught us a healthy respect for the linkage between theoretical concepts and the actual behavioral patterns that exemplify them. As Denison (1996) noted, the link between concepts and behavior can vary greatly among countries. He cited the example of the meaning attached to individuals wearing surgical masks on the streets of Tokyo and Los Angeles. In Tokyo, wearing a surgical mask was portrayed as a form of prosocial behavior by those who had a cold and wished to make certain that they did not transmit it to others. In Los Angeles, wearing a surgical mask was a means of protecting one’s self from the dangers of the natural and social environment. The concepts of collectivism and self-interest are salient in both contexts, and the same behaviors existed in both contexts. The link between the two, however, is exactly the opposite.

In an effort to help explain the differences that we observed in effectiveness across organizations, the final stage of the qualitative analysis focused on the most distinctive cultural pattern that we observed, linking functional incompleteness, subcultures, time perspective, and coordination to help explain the differences that we observed in effectiveness. This pattern influences many of the concepts and measures in the model, but reveals a far more fundamental dynamic than we could describe using any single dimension. Combining these insights enabled us to both validate the model and to provide a more complete understanding of the dynamics of organizational cultures in the Russian context.

Acknowledgments
The authors would like to thank the William Davidson Institute at the University of Michigan, the Ruben Raising Foundation, The Institute of International Business at Stockholm School of Economics, and IMD for their financial support of this project. They would also like to thank participants of the IIB seminar series, the Nordic Workshop on International Business, as well as Stephanie Haaland, Marion Fey, Marina Libo, Natasha Libo, Pontus Engström, Johan Simonsson, and the firms who participated in this study. Finally, the authors would like to thank three anonymous Organizational Science reviewers and especially Associate Editor-in-Chief Alan Meyer for help in improving this paper.

Appendix A. Items and Indexes for Each Trait

<table>
<thead>
<tr>
<th>Index</th>
<th>Scale</th>
<th>Item</th>
</tr>
</thead>
<tbody>
<tr>
<td>Involvement</td>
<td>Empowerment</td>
<td>(1) Decisions are usually made at the level where the best information is available.</td>
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<td></td>
<td></td>
<td>(2) Information is widely shared so that everyone can get the information he or she needs when it's needed.</td>
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<tr>
<td></td>
<td></td>
<td>(3) Everyone believes that he or she can have a positive impact.</td>
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<tr>
<td>Team orientation</td>
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<td>(4) Working in this organization is like being part of a team.</td>
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<td>(5) This organization relies on horizontal control and coordination to get work done, rather than hierarchy.</td>
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<td>(6) Teams are the primary building blocks of this organization.</td>
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<tr>
<td>Capability development</td>
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<td>(7) This organization is constantly improving compared with its competitors in many dimensions.</td>
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<td>(8) This organization continuous invests in the skills of employees.</td>
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<td>(9) The capability of people in this organization is viewed as an important source of competitive advantage.</td>
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</table>
Appendix A. (cont’d.)

<table>
<thead>
<tr>
<th>Index</th>
<th>Scale</th>
<th>Item</th>
</tr>
</thead>
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<tr>
<td>Consistency</td>
<td>Core values</td>
<td>(10) The leaders and managers follow the guidelines that they set for the rest of the organization.</td>
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<tr>
<td></td>
<td></td>
<td>(11) There is a clear and consistent set of values in this organization that governs the way we do business.</td>
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<td></td>
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<td>(12) This organization has an ethical code that guides our behavior and tells us right from wrong.</td>
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<tr>
<td>Agreement</td>
<td></td>
<td>(13) When disagreements occur, we work hard to achieve solutions that benefit both parties in the disagreement.</td>
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<td></td>
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<td>(14) It is easy to reach consensus, even on difficult issues.</td>
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<td></td>
<td></td>
<td>(15) <em>We often have trouble reaching agreement on key issues.</em></td>
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<td>Coordination and integration</td>
<td></td>
<td>(16) People from different organizational units still share a common perspective.</td>
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<td>(17) It is easy to coordinate projects across functional units in this organization.</td>
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<td>(18) There is good alignment of goals across levels of this organization.</td>
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<tr>
<td>Adaptability</td>
<td>Creating change</td>
<td>(19) This organization is very responsive and changes easily.</td>
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<td>(20) This organization responds well to competitors and other changes in the business environment.</td>
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<td>(21) This organization continually adopts new and improved ways to do work.</td>
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<tr>
<td>Customer focus</td>
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<td>(22) Customer comments and recommendations often lead to changes in this organization.</td>
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<td>(23) Customer input directly influences our decisions.</td>
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<td>(24) <em>The interests of the final customer often get ignored in our decisions.</em></td>
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<td>Organizational learning</td>
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<td>(25) We view failure as an opportunity for learning and improvement.</td>
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<td>(26) This organization encourages and rewards those who take risk.</td>
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<td>(27) We make certain that we coordinate our actions and efforts between different units in this organization.</td>
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<td>Mission</td>
<td>Strategic direction and intent.</td>
<td>(28) This organization has long-term purpose and direction.</td>
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<td>(29) This organization has a clear mission that gives meaning and direction to our work.</td>
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<td>(30) This organization has a clear strategy for the future.</td>
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<td>Goals and objectives</td>
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<td>(31) There is widespread agreement about goals of this organization.</td>
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<td>(32) Leaders of this organization set goals that are ambitious, but realistic.</td>
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<td>(33) The leadership has clearly stated the objectives we are trying to meet.</td>
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<tr>
<td>Vision</td>
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<td>(34) We have a shared vision of what this organization will be like in the future.</td>
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<td>(35) Leaders of this organization have a long-term orientation.</td>
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<td>(36) Our vision creates excitement and motivation for our employees.</td>
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Note. *Items in italics are worded negatively in the survey. Responses are reversed for analytic purposes.

Appendix B. Correlations for Russian Data

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Correlation is significant at the 0.05 level (two-tailed).

Note: *N = 179.

1Industry 1 = electrical, industrial, and precision instrument manufacturing; Industry 2 = wood, paper, textiles, food, and metal manufacturing; Industry 3 = other manufacturing; Industry 4 = banking, insurance, real estate, advertising, and accounting; Industry 5 = wholesale and retail trade.

**Correlation is significant at the 0.01 level (two-tailed).

Endnotes

1To test for response bias, we confirmed that the respondent firm size of 91 was almost identical to the population of foreign subsidiaries in Russia with more than 15 employees, which averaged 92 employees (Goskomstat 1998).

2We conducted a comparative citation analysis for a 1996 issue of Academy of Management Journal 39(4), which included two single-responder studies; Delery and Doty, cited 75 times according to the social science citation index and Delaney and Huselid, cited 55 times. These single-responder studies compare positively to other studies in the same issue of Academy of Management Journal which are cited, on average, only 21 times. Thus, scholars appear to see significant value in single-responder studies.

3It is interesting to note that when the six specific effectiveness measures are regressed on our general effectiveness measure (overall performance), we find that sales growth, profitability, quality of products and services, and employee satisfaction are the significant drivers of overall performance in the Russian data. New product development and market share have positive betas, but are not significant. In the case of the U.S. data, the results are the same except that market share is also significant.

4These results are also encouraging in that they show that correlated measurement error between the independent and dependent measures could not have accounted for all the significant results. If this were the case, we would expect to find all of the variance claimed by the first variable entered into the regression equation, thus leaving only one significant predictor. Since all of the equations have more than one significant predictor, this suggests that the results are quite robust.

References


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