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# Offshore outsourcing of professional services: A transaction cost economics perspective

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## Abstract

This research utilizes the framework of transaction cost economics (TCE) to develop an understanding of how firms manage the costs and risks of offshore outsourcing of professional services. This research examines the perspectives of eight organizations through interviews with 10 high-ranking supply management executives. The paper first explores the rationale for offshore outsourcing among the organizations studied. Using the tenants of TCE, this paper postulates that fixed costs of establishing the relationship dominate the variable costs of day-to-day transactions, and that organizations will not offshore outsource areas where there is high perceived degree of unmanageable risk. The paper expands on themes provided by TCE and offers some lessons learned, and guidelines for managing and controlling offshore outsourced services relationships.

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## 1. Background/introduction

Outsourcing provides a potential path to price reductions and increased flexibility, allowing firms to convert fixed costs into variable expenses, and increase their economies of scope. Studies indicate that short-term price savings continues to be a predominant reason for both offshore and domestic outsourcing (Corbett, 2005; Doig et al., 2001). Yet the ramifications of outsourcing go well beyond immediate price reduction. Outsourcing has implications for day-to-day manage-

ment and performance, as well as strategic implications. Outsourcing decisions clearly affect a firm's cost structures, but may also affect the long-term competitive situation and alter the nature of risks that the firm must manage.

Offshore outsourcing presents many opportunities that are not available domestically. For example, due to low Indian labor rates, an airline was able to offshore outsource its accounts payable auditing and recover \$75 million in delinquent accounts that would not have been cost-beneficial to pursue domestically (Farrell, 2004). Outsourcing can also help a company get better, more state of the art services than it could afford internally. This is a commonly stated reason for outsourcing information technology (McDougall, 2004).

Clearly, there is much more to outsourcing than simply saving money. Offshore outsourcing creates both new opportunities and often unrecognized hazards,

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54  
55 which may limit a firm’s prospects. The long-term costs  
56 of these unanticipated consequences can greatly over-  
57 shadow the potential cost savings. As such, careful  
58 consideration should be given to outsourcing decisions  
59 including all of the potential long-term consequences. It  
60 is no wonder that there has been a call for more research  
61 on offshore outsourcing of services (Roth and Menor,  
62 2003).

63 The purpose of this paper is to twofold. First, it  
64 explores why firms state that they choose to offshore  
65 outsource professional services. The second issue, and  
66 primary focus of the paper, is to use the framework of  
67 transaction cost economics to develop an understanding  
68 of how firms are managing the costs and the risks of  
69 offshore outsourcing professional services. Professional  
70 services offshore outsourcing is the focus because of its  
71 rapid growth and the expectation that this trend will  
72 continue (Apte et al., 1995; Bardhan and Kroll, 2003,  
73 2006; Roth and Menor, 2003). Professional services  
74 require unique skills and independent work effort to  
75 satisfy the organization’s temporary or ongoing needs.  
76 Included are areas such as information technology,  
77 advertising, customer service, accounting and payroll.  
78 Using transaction cost economics (TCE) as the frame-  
79 work, it is postulated that organizations will choose the  
80 business alternative that yields the lowest total cost of  
81 running their operations. TCE provides a rich frame-  
82 work beyond cost, also hypothesizing that organizations  
83 will not offshore outsource areas where there is high  
84 potential risk of supplier opportunism. TCE proposes  
85 that supplier opportunism is highest when the buying  
86 firm cannot specify or does not know what it wants, and  
87 when the buying firm cannot accurately assess whether  
88 the supplier is actually keeping its commitments.

89 The perspectives of eight organizations were  
90 explored through interviews with 10 high-ranking  
91 supply management executives who were intimately  
92 involved in the selection, relationship execution and on-  
93 going management of offshored and outsourced  
94 professional services suppliers. The themes provided  
95 by TCE are expanded upon and some lessons learned  
96 are presented, along with guidelines for effectively  
97 managing and controlling offshore outsourced services  
98 relationships.

## 99 2. Review of recent literature

100 Outsourcing is not a new topic. Often called the  
101 “make-or-buy” decision, organizations have been  
102 grappling with what to perform internally versus what  
103 to “buy” in the marketplace as long as business has  
104 existed. Outsourcing is often seen as way for

105 organizations to reduce costs and investment, while  
106 focusing on what they do well (Doig et al., 2001). For  
107 two decades, organizations have been warned to tread  
108 carefully into the outsourcing arena, not to outsource  
109 items that are strategic, or part of their core competency  
110 (Arnold, 2000; Prahalad and Hamel, 1990; Venkatesan,  
111 1992; Quinn and Hilmer, 1994), and to manage  
112 outsourced relationships judiciously (Williamson,  
113 1985). More recently, authors have emphasized the  
114 need to provide better controls and monitoring of  
115 outsourced relationships (Amaral et al., 2004). Man-  
116 agers have also been cautioned to understand the true,  
117 long-term cost structure of what they are outsourcing;  
118 realizing that a comparison to their internal cost  
119 structure may not be valid (Doig et al., 2001). Despite  
120 the increasing number of cautions, the pull to outsource  
121 remains strong, and growing.

122 For purposes of this research, offshoring is defined  
123 from a U.S.-Centric perspective to include sending  
124 work to countries outside of North America. Nearshoring  
125 includes sending work from the U.S. to Canada or  
126 Mexico. Outsourcing is distinguished from retaining  
127 work in-house in that work is performed by independent  
128 parties who are not part of the firm’s employee base.  
129 Here, offshore outsourcing refers specifically to using  
130 an independent supplier outside of North America.  
131 Within the realm of outsourcing, there is a range of  
132 degrees of outsourcing, as will be further detailed in  
133 Table 4.

134 Much of the previous literature and studies have  
135 focused on manufacturing outsourcing (e.g. McCarthy  
136 and Anagnostou, 2004; Takeishi, 2001; Ulrich and  
137 Ellison, 2005; Wu et al., 2005). Manufacturing  
138 outsourcing has been more prevalent historically, and  
139 received a great deal of attention in the late 1980s and  
140 early 1990s when there was fear that industrialized  
141 nations were compromising their long-term competi-  
142 tiveness by “hollowing out” their manufacturing  
143 through outsourcing. Today, the attention has shifted  
144 towards the new move to outsource services, most  
145 notably to outsource professional services to offshore  
146 locations. Offshore services outsourcing is now possible  
147 due to the advent of relatively cheap and reliable  
148 information and telecommunication technologies. Most  
149 of the discussion around professional services offshore  
150 outsourcing has been around the impact on jobs and the  
151 economy (Bardhan and Kroll, 2003; Garner, 2004;  
152 McKinsey Global Institute, 2003). However, the  
153 operating implications of professional services out-  
154 sourcing may be more subtle and insidious than  
155 manufacturing outsourcing. This includes the loss of  
156 understanding of the outsourced process that allows the

156 firm to fairly evaluate the price and performance of a  
157 supplier over time (Amaral et al., 2006; Takeishi, 2001).  
158 On a more strategic level, the firm may also lose the tacit  
159 knowledge that allows it to have breakthrough thinking  
160 in certain areas (Amaral et al., 2006; Fine, 1998).  
161 People and organizations learn by doing; if someone  
162 else is doing, they get the benefit of that learning which  
163 is very difficult to imitate or anticipate (Fine, 1998).  
164 With this context in mind, the next section introduces  
165 transaction cost economics as a theoretical framework  
166 for better understanding the outsourcing decision and its  
167 implications.  
168

### 3. Theoretical grounding

169 From an economic standpoint, there are certain  
170 things that should or should not be outsourced based on  
171 the relative cost and risk associated with internal versus  
172 external operations. One well established theory used to  
173 explain this phenomenon is TCE. TCE has several  
174 important premises as it relates to outsourcing, each of  
175 which is presented below. Several other studies have  
176 used TCE to better understand outsourcing decisions,  
177 lending support for the validity of TCE as a suitable lens  
178 through which to view outsourcing (Arnold, 2000;  
179 Auburt et al., 2004; Maltz, 1994; Murray and Kotabe,  
180 1999; McCarthy and Anagnostou, 2004; Noordewier  
181 et al., 1990; Odagiri, 2003; Ulrich and Ellison, 2005;  
182 Walker and Weber, 1987). The following sections relate  
183 the TCE elements of transaction frequency, asset  
184 specificity and uncertainty to outsourcing situations.  
185 The transactions themselves take place in an environ-  
186 ment where the players are limited by their own  
187 bounded rationality, and are subject to the possibility of  
188 opportunism by other players in the marketplace  
189 (Williamson, 1985, 1988).  
190

#### 3.1. Elements of TCE

191 The following section provides an explanation of  
192 TCE as it relates to professional services outsourcing.  
193 Based on the premises of TCE, propositions are  
194 developed regarding the transaction characteristics  
195 favorable to outsourcing.  
196

197 *Transaction frequency* has historically been viewed  
198 as the number of transactions, where the number of  
199 transactions is a surrogate for the total cost of  
200 transactions; more transactions means higher cost  
201 (Maltz, 1994; Williamson, 1985). TCE suggests that  
202 outsourcing becomes cost prohibitive as the number of  
203 transactions increase. However, current information  
204 technology (IT) and communications systems cause the

205 transaction costs for many services (relative to  
206 performing the tasks internally) to be dominated by  
207 the fixed set-up costs associated with the monitoring  
208 and management systems rather than the variable  
209 transaction costs associated with the ongoing manage-  
210 ment itself. Thus, the cost curve has shifted, so that fixed  
211 set-up costs outweigh the variable transaction costs in  
212 offshore outsourced professional services. Much of the  
213 transaction cost is for risk management and business  
214 controls, government reporting for Sarbanes Oxley and  
215 other requirements. This is theoretically in line with  
216 Coase's (1937) foundational work in TCE in developing  
217 a theory of the firm, where he notes that a key driver of  
218 the decision to use markets (buy) versus hierarchies  
219 (make) is the set-up and transaction cost of one  
220 alternative versus the other. While this may seem  
221 contrary to TCE's usual focus on transaction frequency,  
222 it fits well with the founding assumptions of TCE,  
223 which were simply "translated" to fit to the nature of  
224 industry cost structures at the time. Thus, due to  
225 information technology and the dominance of fixed  
226 rather than variable costs, the first proposition follows:

**Proposition 1.** *Firms will be more likely to offshore  
outsource larger volume professional service categories  
and find small volume categories "uneconomic".*

This proposition assumes that the firm outsources  
directly, not through an intermediate firm who might  
provide systems and controls.

*Level of asset specific investment* assumption  
presumes that the more specific assets required to  
support an activity, the less likely that the firm is to  
outsource that activity (Dyer, 1997; Masten et al., 1991;  
Klein et al., 1978; Williamson, 1975, 1981, 1985).  
Specific assets refer to assets that cannot be readily used  
in another application or transferred to another  
customer. Such activities are not good candidates for  
outsourcing because the firm could develop a high level  
of dependence on the supplier, and the supplier could  
then become opportunistic, raising prices, reducing  
service levels, or other such issues. In cases where the  
supplier owns the specific assets, the supplier is  
subjected to potentially significant risk associated with  
accepting the activity. Thus:

**Proposition 2.** *The higher the level of asset-specific  
investment required, the less likely the professional  
service category is to be offshore outsourced.*

TCE deals directly with various types of risk that a  
firm may encounter by classifying types of uncertainties  
a firm may face. There are uncertainties that come from

the marketplace, and uncertainties that come from the firm itself.

*Uncertainty in the external environment* deals with the degree of volatility and unpredictability in the market place with regard to changes in availability, technology, price, key players, and any other significant disruptions to the market. Transaction cost economics posits that in highly uncertain markets, firms prefer to perform a task internally, believing that they can favorably respond to the whims of the market more readily than their suppliers (Kaufmann and Carter, in press; Vidal and Goetschalckx, 2000; Williamson, 1985).

**Proposition 3.** *The more volatile the supply market environment, the less likely the professional services category is to be offshore outsourced.*

There are two types of internal uncertainty that firms face: not knowing exactly what they want, and not being able to verify whether a supplier has performed as promised. Each is explained in more detail below.

*Internal uncertainty in requirements* implies that the organization really does not know what it wants from the process. Firms, like people, will set resources aside to cope with unplanned contingencies. In economic terms, this is bounded rationality—there are too many issues for a human to comprehend and effectively address. If a firm has a process with uncertain requirements, a firm may choose to keep a process in house because doing so retains control of unanticipated benefits and costs (Kaufmann and Carter, in press; Osborn and Baughn, 1990; Williamson, 1975, 1985).

If a firm chooses to outsource a process that has unclear requirements, it may be limiting its options or flexibility (Amaral et al., 2006). Outsourcing requires the firm to specify what is and is not part of the contract and to accurately define levels of service. There is a risk of being wrong, not getting what was required and of limiting its future alternatives. In such situations, the firm should prefer the flexibility of insourcing.

**Proposition 4.** *The more uncertain the firm is about its requirements, the less likely the professional services category is to be offshore outsourced.*

*Uncertainty regarding performance of the contract* exists where the nature of the transaction is such that the contracting parties have no assurance that the other party has actually fulfilled its obligation and performed as specified (Williamson, 1975, 1985). In such cases, a firm may be paying for something and not actually getting what it paid for. This is also referred to as a lack

of observability (Narayanan and Raman, 2000). Such a situation is ripe for opportunistic supplier behavior (Williamson, 1975, 1985), also referred to as moral hazard (Narayanan and Raman, 2000; Amaral et al., 2006). Again, in such cases, the firm should prefer to reduce the non-performance risk by insourcing.

**Proposition 5.** *The greater the difficulty in verifying contractual performance, the less likely the professional services category is to be offshore outsourced.*

The next section briefly presents the research methodology. This is followed by a discussion of the case data.

#### 4. Research method

The nature of this research was both exploratory and confirmatory. From a confirmatory standpoint, the researchers wanted to determine whether TCE applies to the offshore outsourcing of services, and whether TCE is still relevant, in situations where the information technology greatly reduces the variable transaction costs associated with offshore outsourcing. Second, the researchers wanted to go beyond TCE to develop an understanding of the risks associated with offshore outsourcing of professional services, as well as provide insight into how these risks are managed and should be managed. There was a desire to leave open the opportunity to explore and create new theory with explanatory and managerial value related to outsourcing professional services.

To this end, interviews were conducted with 10 high-ranking procurement professionals (Chief Procurement Officers, Directors and Managers) representing eight Fortune 500 companies regarding the outsourcing and offshoring of professional services. A set of questions was designed to collect data on the phenomenon (see Appendix A), guiding the data collection process (Eisenhardt, 1989; Yin, 2003). The primary questions were unstructured to allow the interviewees to tell the story of their experiences. There were also probes which ensured that the insights that the researchers' had regarding this phenomenon were addressed, if they did not arise during the unstructured part of the interview (Perry, 1998). All of the interviews took place via telephone or in person, with at least two members of the research team present, and were transcribed. When appropriate, company documentation was gathered and also transcribed. The data were coded using QSR NVivo. A system of categories was developed and then the text were assigned to a particular category. The

Table 1  
 Companies analyzed

| Name              | Industry                              | What services are offshore outsourced                  | Approximate years experience |
|-------------------|---------------------------------------|--|------------------------------|
| Finance1          | Financial services                    | Call centers, IT maintenance, programming, more        | 15–20                        |
| Finance2          | Financial services                    | Call centers, IT maintenance and support, more         | 2–3                          |
| Software          | Commercial software                   | Call centers, more is beginning                        | 3–5                          |
| Computer          | Computer equipment                    | A/P; A/R, travel reimbursement                         | 5+                           |
| Packaging         | Packaging                             | Limited IT development                                 | 2–3                          |
| Transport         | Transportation equipment manufacturer | Engineering services, back office operations, more     | 10+                          |
| Consumer products | Clothing and accessories              | Very limited (extensive mfg)                           | >1                           |
| PC Hardware       | Computers and peripherals             | Contingent workforce, IT help desk, call centers, more | 5+                           |

355 interviews varied in length from 45 min to 2 h. A  
 356 summary of key characteristics of the cases is provided  
 357 in Table 1.  
 358

### 5. The case data

359 This section explores the motivation for offshore  
 360 outsourcing of professional services, and examines the  
 361 support provided in the case data for the research  
 362 propositions provided above.  
 363

#### 5.1. Motivation for offshore outsourcing

364 To gain more insight into how the desire for cost  
 365 savings interacts with other issues, the study partici-  
 366 pants were asked to explain why the decision was made  
 367 to offshore outsource professional services. The insights  
 368 from this question are provided in Table 2 below. The  
 369 benefits sought were the primary reasons that the  
 370 participants identified, and did not include any  
 371

371 additional benefits or costs that were discovered after  
 372 offshore outsourcing was underway.  
 373

374 Consistent with the popular belief, a review of  
 375 Table 2 supports the strong emphasis on price savings as  
 376 the primary driver of offshore outsourcing. While two  
 377 firms noted that quality parity and process improve-  
 378 ments were required in conjunction with offshore  
 379 outsourcing, seven of the eight noted cost reduction as  
 380 the primary driver. Finance1 had already offshored its  
 381 operations to low cost countries; outsourcing these was  
 382 the next step to create a more variable cost structure.  
 383 Thus, given the strong cost emphasis, TCE is a logical  
 384 lens for viewing offshore outsourcing. The relationship  
 385 of the case data to TCE is presented in the next sections.

#### 5.2. Transaction frequency and asset specificity

386 Based on the new transaction cost model presented  
 387 above, where fixed costs dominate, it is not surprising  
 388 that the organizations studied focused their professional  
 389

Table 2  
 Offshore outsourcing drivers

| Name              | Benefit(s) sought                                     | Why begin offshore outsourcing when you did?  | Outsourcing style                         |
|-------------------|---|---|---|
| Finance1          | Flexible capacity and variable pricing based on usage | Had successfully offshored services; desire to move to a more variable cost structure   | Leader                                    |
| Finance2          | Cost reduction  | Saw others being successful and saving money  | Fast follower                             |
| Software          | Cost reduction with comparable quality of service     | Waited for perceived “parity” in service quality  | Quality and service parity a prerequisite |
| Computer          | Cost reduction  | Needed time to recover from first disastrous attempt at offshore outsourcing to integrate lessons learned                       | Fix processes before outsourcing          |
| Packaging         | Cost reduction  | Waited until it seemed like many of risks of offshore outsourcing were mitigated  | Use intermediary                          |
| Transport         | Cost reduction, process improvement                   | Technology was changing; could not keep up in house   | Improve while lowering costs              |
| Consumer products | Cost reduction  | Professional services are too important to offshore; want to keep outsource providers close                                     | Don’t give up control                     |
| PC Hardware       | Cost reduction  | Had successfully offshore outsourced manufacturing, and outsourced services, desire to combine benefits in offshore outsourcing | Analytically model for optimal result     |

389 services offshore outsourcing in areas with high  
390 transaction volume. In order for them to enjoy the  
391 economies of scale associated with their investment in  
392 setting up linkages and creating the systems for  
393 monitoring their offshore outsourcing suppliers, high  
394 transaction volume is necessary. Thus, **Proposition 1**,  
395 firms will be more likely to outsource larger volume  
396 professional service categories and find small volume  
397 categories “uneconomic”, is supported.  
398

399 Physical asset specificity was not an issue to initial  
400 outsourcing of professional services among the orga-  
401 nizations studied due to the perception that the physical  
402 infrastructure was generic enough that it could be  
403 redeployed with relative ease. The investment in human  
404 assets was much more strategic and specific than the  
405 investment in physical assets among the firms studied.  
406 Still, the development of specific, difficult to replace  
407 knowledge did not appear to receive significant  
408 attention as a potential risk in most cases.

409 To illustrate the apparent disregard for specific  
410 knowledge, Software spent over 4 weeks training its  
411 offshore outsourced call center personnel to answer  
412 very specific technical questions related to its product.  
413 This specialized knowledge has a relatively high cost to  
414 develop, and cannot be recovered if the firm changes  
415 suppliers. Yet this was not a concern, or at least not a  
416 deterrent to this organization’s outsourcing efforts.  
417 Similarly, most of the organizations studied had  
418 outsourced their information technology systems,  
419 handing over their physical and human resources to a  
420 third party to manage everything. Thus, **Proposition 2**,  
421 the higher the level of asset-specific investment  
422 required, the less likely the category is to be outsourced,  
423 is partially supported. The firms studied here are careful  
424 to avoid outsourcing of specific physical assets but do  
425 not show the same level of concern for outsourcing  
426 specific knowledge assets. This could simply be a  
427 matter of bounded rationality, and our innate limitations  
428 to deal fully with the implications complex decisions.

429 When asked about their anxiety over investing in  
430 developing supplier’s employees and then losing the  
431 knowledge through employee turnover or switching  
432 suppliers, the case participants did not express concern.  
433 There was a general belief that they were not sharing  
434 anything so proprietary that it would compromise their  
435 firm’s strategy or competitiveness. The pressure to  
436 reduce costs was so great that there was a consensus that  
437 they could afford the cost of retraining new employees,  
438 and even switching suppliers or regions of the world, if  
439 necessary.

440 On the other hand, six of the firms studied  
441 specifically mentioned the growing level of competition

441 for qualified, experienced offshore suppliers. Finance1  
442 mentioned that there were many companies newly  
443 buying services specifically in India and the Philippines,  
444 that were competing with them for assignment of  
445 experienced personnel at their outsourced service  
446 providers. Indeed, Finance2 had a stated strategy of  
447 utilizing suppliers and supplier personnel that had  
448 worked for its competitors, so that the supplier could  
449 ramp up faster. Finance2 was willing to pay a little more  
450 to have access to such assets, in the belief that the  
451 shorter learning curve would actually save money and  
452 improve supplier performance in the very near term.  
453 Thus, the cases acknowledged that general, redeploy-  
454 able knowledge was developed by the service suppliers  
455 in the course of their business, and that experienced  
456 suppliers were more desirable by incumbent and well as  
457 new customers. There appeared to be a “leveling”  
458 affect regarding the perceived risk of losing knowledge.  
459 Case participants noted that all other firms who offshore  
460 outsourced were experiencing the same cost pressure  
461 and increasing competition for the best offshore  
462 suppliers. Because they were all experiencing the same  
463 high levels of turnover at their offshore suppliers, they  
464 perceived no competitive disadvantage due to the  
465 potential loss of knowledge.  
466

467 To further highlight the lack of awareness of  
468 knowledge-based assets, Finance1 did not become  
469 concerned with outsourcing some of its programming  
470 because it believed it had excellent contracts in place to  
471 protect its ownership and intellectual property. However,  
472 when it decided that it wanted to switch suppliers due to  
473 price and service issues, it realized that it was very  
474 dependent on a particular programming supplier. Over  
475 time, the organization had lost its internal knowledge to  
476 understand the program code, and even the knowledge to  
477 develop a clear statement of work to effectively re-bid the  
478 item. That was a wake-up call for Finance1 regarding its  
479 dependence on specific knowledge-based assets,  
480 Finance1 is in the process of changing its policies so  
481 that it does not simply outsource entire, complex  
482 programming tasks, but remains involved in the  
483 development of non-routine software code. Remaining  
484 actively involved in the management and control of  
485 outsourced activities is referred to as out-tasking,  
486 partitioning knowledge and tasks (Fine, 1998; Takeishi,  
487 2001). While out-tasking is more costly, the organization  
488 has made a strategic decision that the risk of dependence  
489 and losing control outweighs the benefit of the lower  
490 price. This process of out-tasking is discussed in greater  
491 detail below in conjunction with **Proposition 4**.

492 Thus, while **Proposition 2** did not receive strong  
493 support, there is some consensus from the case data and

493  
 494 the literature that the organizations should be concerned  
 495 about human resource asset specificity in offshore  
 496 outsourcing (Amaral et al., 2006; Coase, 1937;  
 497 Narayanan and Raman, 2000; Takeishi, 2002; William-  
 498 son, 1985). It is much easier to put a monetary value on  
 499 specific physical assets, and recognize dependency on  
 500 such assets because of the immediate, tangible nature of  
 501 these assets. It is easier, and perhaps riskier to ignore the  
 502 dependence upon intangible, human assets.

503  
 504 *5.3. The risks associated with outsourcing*

505 The researchers found that the risks associated with  
 506 offshore outsourcing were a concern for everyone. This  
 507 included the risk of volatility in the supply market, the  
 508 risk of incomplete specifications, and the risk that the  
 509 organization cannot effectively judge whether the  
 510 supplier is performing on the contract, as presented  
 below, in Table 3.

511 *5.3.1. Market volatility risk*

512 In regard to the risk of market volatility, all of the  
 513 organizations studied focused on outsourcing areas  
 514 where they perceived a low market risk. For example,  
 515 Finance2 characterized itself as a fast follower,  
 516 explaining, “We let other companies go in first and

516 see how it works. If they are successful, we follow  
 517 them quickly.” All of the firms studied were very  
 518 cognizant of market risk, such as political risk,  
 519 currency risk, and related factors. Thus, there is  
 520 support for Proposition 3, the more volatile the supply  
 521 market environment, the less likely the professional  
 522 services category is to be offshore outsourced. This  
 523 was especially true when there is a higher than  
 524 desirable perceived business continuity risk associated  
 525 with outsourcing a purchase. For example, when  
 526 outsourcing its call centers, Finance2 kept half of its  
 527 outsourced call centers nearshore in U.S. and Canada,  
 528 rather than putting them all offshore in India. It was  
 529 not a performance issue; it was a conscious decision to  
 530 pay more to buffer the business risk of an interruption  
 531 in service support due to the possibility of war  
 532 between India and Pakistan.  
 533

534 *5.3.2. Risk of incomplete specifications*

535 The risk of incomplete specifications or statements  
 536 of work was a risk that companies had some difficulty in  
 537 dealing with. The best solutions involved developing  
 538 more complete specifications when feasible. For  
 539 example, Software knew what it wanted in terms of  
 540 performance, but had not formalized its wants in  
 541 performance specifications in the past. The strategy has

Table 3  
 Risk associated with offshoring

| Type of risk                      | Description   | How firms adapt to the risk  |
|-----------------------------------|---|--|
| Market volatility risk            | The firms in this research focused on outsourcing services with low market risk   | <ul style="list-style-type: none"> <li>• Follow others that are considered leaders</li> <li>• Be cognizant of market risk, political risk and currency risk</li> <li>• Retain services both domestically and internally</li> </ul>   |
| Risk of incomplete specifications | The contracts between the partners are lacking in specification, or specifications need constant updating and changes                                   | <ul style="list-style-type: none"> <li>• Develop more complete specifications, add and improve existing contracts by integrating “lessons learned”</li> <li>• Complete long-term contracts</li> <li>• Develop strategic, trusting and cooperative relationships</li> <li>• Use out-tasking and/or retain management</li> </ul> |
| Inability to measure performance  | Geographic and cultural differences make measurement of supplier performance difficult however, total cost and the value proposition is still being met | <ul style="list-style-type: none"> <li>• Develop measurable specifications</li> <li>• Use random customer satisfaction surveys</li> <li>• Use of internal consultants and benchmarking</li> <li>• Develop trusting and cooperative relationships</li> </ul>  |
| Other risks                       | Considers risks specific to the offshore relationship: over-commit, under-deliver; language barriers and lack of understanding of U.S. customer needs   | <ul style="list-style-type: none"> <li>• Additional training, monitoring and evaluation</li> <li>• Over-specification of contracts</li> <li>• Ignore risk because the cost difference is so low the organizations can absorb the additional risk</li> </ul>  |

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been to add, and improve specifications in the call center offshore outsourcing contract as needed.

In cases where the market was changing quickly, as in IT, very long, complete contracts, combined with long-term relationships (trust) was a technique to lower the real or perceived transaction costs by organizations such as Finance1, Software, PC Hardware and Consumer. Packaging also used an intermediary to buffer its risk in dealing with Indian IT outsourcing. There was no way to determine whether these formalized approaches yielded measurable results, but it made the buying firms feel more secure.

Another approach to dealing with the risk of incomplete specifications was to retain much more hands-on control through using out-tasking rather than complete business process outsourcing as the form of governance. This reduces some of the savings and represents a hybrid between market and hierarchy. This type of approach took several forms among the organizations studied. The first type, used extensively by Consumer, and to some extent by PC Hardware, was out-tasking specific activities where the person worked along side internal employees almost like an employee of the outsourcing firm. Most, but not all of the activity by these companies in this arena was onshore, since most of their professional staff was located in the United States. The professional services managed this way tended to be isolated activities that could easily be parsed out, such as web page development, and contract development. This approach was fairly seamless. In this case, the firm is procuring contingent labor which has a market price and normally much lower risk. The firm keeps control of the work processes, is continually inspecting, and retains the tacit knowledge of the activity.

The second type of approach was out-tasking processes, but retaining overall management and knowledge of the work. This was done by Finance1 and Transport when there was a bigger project, like software development. In this case the firm is procuring a much higher ratio of contingent labor, as it has the outsourcer perform most of the work, under the supervision of firm employees, who are usually co-located with the offshore provider. This allows the organization to have oversight of the processes and continual inspection, thereby retaining the tacit knowledge. This is a hybrid approach. The organization uses the market mechanism to establish pricing (Williamson, 1985), and its internal "authority" or hierarchy to maintain control and mitigate risk. It is an attempt to get the best of outsourcing and internal production. Takeishi (2002) refers to this as partitioning knowledge.

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His research found that successful automotive firms retain knowledge of overall system architecture. Component knowledge is also very important in developing the best options for new products. Likewise, it appears that that the firms studied here were in the process of learning the importance of retaining overall process knowledge.

The third type of approach was for the buying organization to mitigate risk through building trusting and cooperative relationships. This works best where there is a mutual dependence. For example, when Finance1 or Finance2 cannot determine the best solution for outsourcing its internal IT operations, they may rely upon the supplier to provide the right answer. If, perchance, they later discover that the supplier did not act in their best interest, the trust and relationship may be damaged, and the governance structure modified.

Finance1 began outsourcing its IT support services very carefully, with an objective of outsourcing only routine activities, such as maintenance and some very basic coding. Over time, one of its suppliers, with whose service it was very satisfied, began to complain that it was having problems with employee turnover and job satisfaction because its employees were not challenged. The employees were educated professionals who longed for more challenging tasks, such as writing original code. Because of its good performance and very low prices, Finance1 gave the supplier more basic coding work, which eventually evolved into complex work. After Finance1 became very dependent on the supplier, the supplier began to raise prices, reduce its service level, and behave opportunistically. Finance1 had a very difficult time changing suppliers, because the supplier had developed some important software, which Finance1 did not understand. Finance1 was eventually able to move away from the supplier by developing replacement software at substantial cost. It resolved that it would not allow itself to become so dependent on a supplier again. Future contracts of a similar nature would either be out-tasked with involve active hands-on management by Finance1 employees, or such tasks would not be outsourced. Again, this was a knowledge partitioning approach as used by some successful manufacturing firms, retaining knowledge while allowing the supplier to perform specific tasks (Takeishi, 2002).

Overall, Proposition 4, the more uncertain the firm is about its requirements, the less likely the professional services category is to be offshore outsourced, is supported with some modification. More specifically, organizations will endeavor to reduce the risk and

645 uncertainty in their requirements before engaging in  
646 outsourcing, which may also lower the transaction costs  
647 in terms of monitoring and day-to-day management.  
648 While this approach might lower the risk that the  
649 supplier behaves opportunistically, it will not lower the  
650 risk that the organization maybe unable to determine  
651 whether the supplier is behaving opportunistically.  
652

### 653 5.3.3. Risk of inability to measure performance

654 The third type of risk, the inability to determine  
655 whether the supplier meets contractual expectations  
656 was also dealt with in numerous ways. As noted above,  
657 if the inability to measure performance is due to  
658 incomplete or immeasurable specifications, or poor  
659 measurement systems, this is resolved by developing  
660 better specifications and measurements (Narayanan and  
661 Raman, 2000; Amaral et al., 2006). This solution was  
662 possible in cases like call centers, where companies  
663 such as Finance1 and Software indicated that they  
664 learned how to better specify and measure contractual  
665 performance overtime. A first step in understanding the  
666 potential value leakages for Software, PC Hardware and  
667 Consumer was an audit of contract compliance in terms  
668 of price actually paid for promised services items versus  
669 prices charged for services rendered.

670 Most of the organizations studied here also noted that  
671 they used customer satisfaction surveys as another way  
672 to validate performance. For offshore outsourced  
673 services such as IT provided internally to the firm,  
674 Finance1, Finance2 and PC Hardware polled internal  
675 customers, and in some cases tied supplier compensa-  
676 tion to internal customer satisfaction ratings. In other  
677 cases, results from such surveys became the basis for  
678 discussion and improvements. The firms who out-  
679 sourced call centers, such as Finance1, Finance2 and  
680 Software, also used external customer satisfaction to  
681 gauge call center operator performance, both through  
682 random polling and monitoring calls. Verifying that  
683 outsourcer performance meets expectations was found  
684 to be critical for reducing opportunistic performance  
685 behavior.

686 In information technology outsourcing, where  
687 technology and services are changing constantly, it  
688 was common for the organizations studied, such as  
689 Finance1, Finance2, PC Hardware and Packaging to use  
690 external consultants to benchmark services and testing.  
691 Finance1 and Software also tested the market for call  
692 center providers by investigating other suppliers,  
693 perhaps even asking for proposals, if a market existed.

694 A different tactic mentioned in relation to software  
695 development used by Finance1 was to bring an activity  
696 back in-house, at least partially, to improve monitoring

697 and control (out-tasking). Of course, the longer some-  
698 thing has been outsourced, the more difficult this will be  
699 as much of the tacit and operational knowledge will be  
700 lost. To reduce the risk further, some of the organiza-  
701 tions studied such as Consumer, retained a large internal  
702 management group to oversee and interface with the  
703 third parties performing outsourced activities. This  
704 approach was common in internal IT outsourcing, used  
705 by Consumer, Finance1, Finance2, and PC Hardware.  
706 Thus, if a firm invests enough, it can address many of  
707 the risk and tacit knowledge issues. It is important for  
708 firms to include these risk management costs in their  
709 economic analysis of whether to outsource. In addition,  
710 several firms such as Consumer, Finance1, and Software  
711 noted the importance of maintaining good relationships,  
712 and adding a dissolution or termination clause in the  
713 contract.

714 Just as Proposition 4, there is partial support for  
715 Proposition 5, the greater the difficulty in verifying  
716 contractual performance, the less likely that a profes-  
717 sional service category is offshore outsourced. Orga-  
718 nizations responded to performance uncertainty through  
719 a variety of measures to reduce or better manage the  
720 ambiguity.

721 In summary, firms' that offshore outsource create  
722 uncertainty and increase the risk to the firm. The firms in  
723 this study recognized much of the uncertainty and tried  
724 to manage and reduce it. In analyzing the viability of  
725 outsourcing and offshore outsourcing, an organization  
726 should always consider total cost, including the costs  
727 associated with managing or reducing risk.

### 728 5.3.4. Other risks in offshore outsourcing

729 There are a number of other risks related to cultural  
730 differences that arise when offshore outsourcing.  
731 Several organizations noted an unwillingness of off-  
732 shore suppliers to admit they cannot perform the  
733 required tasks. For example, Computer noted that  
734 suppliers may accept a contract knowing that they lack  
735 capabilities to meet the specified needs, hoping they can  
736 learn quickly. Likewise, firms may place a very initial  
737 bid on jobs to gain experience in a particular category of  
738 service. However, the supplier's learning process can be  
739 very painful for the buying firm. This may lead to an  
740 organization to in-source items because they were  
741 offshore outsourced in error.

742 There are also additional costs incurred because of  
743 the differences in cultures, especially with regard to the  
744 customer-facing offshore tasks. Significant barriers in  
745 language and slang usage, and lack of an understanding  
746 of the organization's values may require extensive  
747 training and monitoring to ensure that the needs of the

customers and the buying firm are being met. The monitoring must be in place on the supplier's side as part of the contractual agreement, and on the buyer's side to ensure that the supplier is reporting accurately.

Further, because it is so inexpensive to do business in offshore locations, there is a tendency to over-specify the contracts as noted by Finance1, Software and Computer. This gives the supplier limited opportunity to use its expertise to improve processes. The organizations might have better success by establishing expectations for performance and allowing the offshore company some flexibility in the way it meets those expectations.

Several of the organizations studied, including Finance1, Finance2, Computer and PC Hardware expressed a belief that price in some countries is so low that they can afford to absorb some extra risk. However, these same firms noted that wage rates in some popular regions for professional services outsourcing, such as India, are increasing at 15-20% per year (Kher, 2005; Yamamoto, 2004). Once wage rates have normalized globally, the risk issues will become more apparent and unjustifiable. The focus today seems to be more on performance risk and less on the long-term risks resulting from losing tacit knowledge. These long-term risks are likely much larger than estimated. Today, the price of ignoring risk is perceived as low.

5.4. Summary: matching the characteristics of outsourcing to the outsourcing type

Based on the case study data, Fig. 1 shows a continuum of the range of governance structures observed for offshore outsourcing professional services. One end is anchored by "doing things internally," while the other is anchored by "complete business process outsourcing." Between these extremes, everything from using temporary labor to managing the outsourced provider's supply base through buy-sell processes was observed; Table 4 lists some of the characteristics that define each of these methods of governing services. This table uses data from the case studies to prescribe which types of service characteristics are best suited for

which type of relationship. Notice that the characteristics do not necessary follow a continuum. For example, the level of asset investment is very high with in-house operations, then drops significantly if using temporary labor. It then rises with out-tasking and drops significantly with business process outsourcing.

Two scenarios are provided to illustrate the application of Table 4. First, the design of core next-generation technology for a leading-edge high technology firm would probably be best suited for in-house control, perhaps using limited, very specialized temporary labor or contractors to perform specific tasks. This is something over which the firm does not want to lose control. Business process outsourcing would be the worst choice for such a scenario. In the case of programming for application software, the organization would like to retain some control and knowledge so it is not dependent on the supplier. Out-tasking might be a good alternative, because the organization retains management of the process and some of the knowledge, while permitting the offshore outsourcer to perform much of the actual code development. Because the organization is involved in the day-to-day activity, it can also monitor and measure progress closely, even though it is a difficult task to measure.

If a firm is going to offshore outsource call centers, the right type of outsourcing arrangement depends upon how clearly the organization can specify and measure outcomes. For example, if it is setting up a call center to process incoming orders and is able to clearly define and measure the performance of the call center, it might be best to use business process outsourcing so it can turn the whole process over to a third party while minimizing its investment.

5.4.1. What happens if the company cannot or does not properly control the risk?

Whenever a firm outsources services it should expect to have significant potential for overpayment and under servicing. Transference of responsibility for control to the supplier, and reliance on investments made by service providers have been shown to be insufficient to control costs (Amaral et al., 2004, 2006). For example,

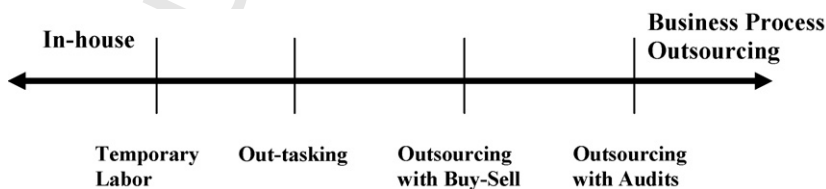


Fig. 1. Insource/outsource continuum.

Table 4  
 Ideal characteristics suited to outsourcing types

| Characteristic                               | In-house | Temporary labor | Out-tasking | Outsourcing with buy–sell | Outsourcing with audits | BPO     |
|--|----------|-----------------|-------------|---------------------------|-------------------------|---------|
| Degree of control over process               | Highest  | High            | Med–High    | Medium                    | Med–Low                 | Lowest  |
| Level of trust required                      | High     | Med–Low         | Medium      | Med–Low                   | Med–High                | Highest |
| Strategic importance of task                 | Med–High | Low–High        | Med–High    | Medium                    | Medium                  | Med–Low |
| Level of investment in assets by buying firm | Highest  | Low             | Medium      | Medium                    | Med–Low                 | Lowest  |
| Risk if unclear specifications               | Lowest   | Low             | Med–Low     | Medium                    | Med–High                | Highest |
| Risk if unable to measure performance        | Lowest   | Low             | Med–Low     | Medium                    | Med–High                | Highest |
| Risk if market is volatile                   | Med–low  | Low             | Med–Low     | Medium                    | Medium                  | Highest |

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 831 Finance1 used two offshore outsourced service providers for call centers. It had a policy of routing the calls  
 832 to the agent with the longest idle times. One of the  
 833 suppliers hired more agents to sit idle thereby receiving  
 834 all of the calls. The agent that was acting opportunistically actually benefited more. This was not the way the  
 835 system was designed to work. This research suggests  
 836 that organizations must have their own controls, even if  
 837 they have outsourced the management of the offshore  
 838 supplier. The cost of relying on the service provider’s  
 839 controls is potentially quite high. Without a good initial  
 840 assessment of risk, and good management controls in  
 841 place, there are many problems that can and do occur  
 842 (Amaral et al., 2004, 2006; Narayanan and Raman,  
 843 2000). First, there is a risk that the organization will pay  
 844 too much. As shown above in the case studies, when  
 845 organizations do not pay close attention to provider’s  
 846 services and invoicing, they pay too much.

849 Second, by not fully recognizing the risk of loss of  
 850 tacit knowledge, the organization may become dependent  
 851 on a supplier (Fine, 1998; Venkatesan, 1992). It can  
 852 be held hostage because it cannot adequately assess  
 853 alternative sources of supply, as was the case with  
 854 Finance1. The organization has also lost the ability to  
 855 perform the task internally. The firm may over pay and  
 856 be underserved, or pay for a higher level of service than  
 857 is needed. In the most extreme case, because the  
 858 supplier now knows some aspects of the business better  
 859 than the original firm, the supplier may forward  
 860 integrate and become a competitor (Fine, 1998).

861 An internal risk that may occur is that the firm  
 862 becomes dependent on a supplier because the supplier  
 863 ingratiates itself with internal customers. When this  
 864 occurs, the item becomes a “protected category” and  
 865 the supplier is “protected” or “favored” by the  
 866 organization’s consumers of service. In such cases,  
 867 the supply management (SM) function may find itself  
 868 outside of the purchasing loop once again, not involved

868  
 869 in key decisions, because internal customers believe the  
 870 item or supplier relationship is too important. Finance1,  
 871 PC Hardware and Software all experienced this when  
 872 SM tried to become involved in professional services  
 873 purchasing initially. This is another way that the  
 874 organization may find itself overly dependent on its  
 875 service suppliers.

876 Another internally based risk is the risk of  
 877 inadvertently letting the supplier do more and more,  
 878 due to the organization’s lack of clarity regarding what  
 879 it wants and the outsourcing boundaries. Over time, the  
 880 supplier may step into strategic/IP areas, and this self-  
 881 induced risk jumps dramatically. This is particularly  
 882 deleterious because of the gradual nature of increased  
 883 responsibility, such change often occurs without a  
 884 commensurate increase in controls. As explained above,  
 885 Finance1 had this type of experience with one of its  
 886 offshore, outsourced IT providers.

887 From a business perspective, there are also the  
 888 traditional types of risk that organizations face,  
 889 associated with changes in business cycles. If the  
 890 organization has not put controls in place to deal with  
 891 shortages, price increases, and other sources of supply  
 892 interruption, the cost of these occurrences will be very  
 893 high. Regardless, the costs of such contingency plans  
 894 should be considered as part of the total cost of  
 895 outsourcing and offshore outsourcing.

896 Yet another risk is the supplier making changes to  
 897 processes, technologies, and procedures without properly  
 898 informing the buying firm. This creates problems  
 899 with tracking, monitoring and may actually have an  
 900 adverse affect on the results. Effective change controls  
 901 and processes to make changes have to be in place.

902 When making an outsourcing decision, the future is  
 903 not known with certainty. But by committing to a  
 904 specific path, for example outsourcing programming,  
 905 the firm has limited its future possibilities for  
 906 developing the code internally. Perhaps organizations

906 should be more concerned with SATISFICING versus  
907 OPTIMIZING when making outsourcing decisions, or  
908 any decision under uncertainty (Rosenhead et al., 1972).  
909 The focus would then be on which decisions, if made  
910 today, will leave open the greatest number of future  
911 possibilities, while still reducing total costs, or  
912 improving achievement of other outcomes. This is  
913 particularly relevant if the organization has a number of  
914 non-cost oriented goals. In an uncertain world, there are  
915 advantages to keeping one's options open.  
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## 917 6. Conclusions

918 This research has both managerial and theoretical  
919 implications. From a managerial standpoint, the  
920 organizations studied had varying degrees of experience  
921 in offshore outsourcing professional services. Some had  
922 been doing this extensively for over 20 years, while  
923 others had just begun to engage in such outsourcing  
924 over the last several years. They all had lessons learned  
925 along the way to improve their processes and decision  
926 making and many of these lessons are mentioned above  
927 and summarized below. The bottom line is that  
928 organizations should carefully consider, understand,  
929 and reduce the risk of offshore outsourcing of services,  
930 and that offshore outsourcing of services creates a  
931 different set of risks and a need for very different  
932 business controls than offshore outsourcing direct  
933 materials. From a theoretical standpoint, transaction  
934 cost theory provides insights into the professional  
935 services best suited for offshore outsourcing, the risks  
936 associated with offshore outsourcing professional  
937 services, and how to effectively mitigate the risk.

### 938 6.1. Managerial implications

939 First, clear specifications and performance measures  
940 should be established before outsourcing, to reduce the  
941 risks of non-performance and dependency. The repeated  
942 message was “don't offshore outsource something if you  
943 don't know what that service should cost.” To determine  
944 this, clear specifications and statements of work are  
945 required. Among the firms studied, most of the initial  
946 dissatisfaction with offshore outsourcing services had to  
947 do with the lack of clear requirements and measurements.  
948 As these improved, so did the satisfaction.

949 Related to this, when outsourcing risks are ade-  
950 quately addressed, the cost and complexity of managing  
951 outsourcing is high, and should not be underestimated.  
952 Most of the companies studied admitted that they did  
953 underestimate the cost and effort initially, but have  
954 improved with experience. One of the costs that an

954 organization should recognize is that it must be able to  
955 measure supplier performance versus expectations. The  
956 cost of managing the complexity and buffering the risks  
957 should be included in the outsourcing decision making  
958 process. This is a transaction cost that firms tend to  
959 ignore, because it is not visible until after the offshore  
960 outsourced relationship has been established.  
961

962 Without a good management/monitoring system, the  
963 risk of losing control is high. While the costs of controls  
964 are high, the perceived and realized savings were even  
965 higher, so that several of the organizations studied were  
966 not concerned about effectively managing the costs of  
967 controlling their offshore outsourced suppliers. As a  
968 result, in some cases, these companies put excessive  
969 controls in place. For Finance1, Finance2 and to a lesser  
970 extent Software, this included having dedicated  
971 employees in completely separated facilities for  
972 employees who supported them, and purchasing  
973 separate computer and telephone systems. These  
974 policies were more stringent for offshore outsourcing  
975 than with onshore or nearshore outsourcing. Higher  
976 costs translate into lower savings. While cost savings is  
977 initially a driver for offshore outsourcing in many cases,  
978 performance is also important and will take on greater  
979 weight over time as wages and risks normalize globally.  
980 It is likely that organizations will revisit their excessive  
981 control measures. Thus, while they appeared to have  
982 good controls in terms of security and segregating their  
983 operations, these firms did not necessarily have good  
984 controls when it came to some of the value leakages  
985 mentioned above. Interestingly, the companies studied  
986 here expressed confidence that as costs rise in one area  
987 of the world, other lower-cost producers will develop  
988 elsewhere.

989 Two general patterns were observed in offshore  
990 outsourcing. For example, Finance2, Consumer and  
991 Packaging began slowly, and then accelerated with each  
992 success. Companies with greater longevity in offshore  
993 outsourcing followed a pattern of going a bit too far in  
994 outsourcing, and pulling back some activities internally.  
995 Finance1, Computer, Transport, Software and PC  
996 Hardware all demonstrated this behavior. Most of the  
997 organizations studied did not have advance plans to  
998 mitigate risks when they discovered that they had  
999 offshore outsourced some tasks in error, and needed to  
1000 pull task back in house. Some, such as Finance1 and  
1001 Transport experienced costly and painful transitions  
1002 when moving from complete business process out-  
1003 sourcing to a more controlled, out-tasking environment.  
1004 However, the general lessons learned within a company  
1005 were applied to other outsourcing situations so that  
1006 mistakes did not have to be repeated.

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## 6.2. Theoretical implications

From a theoretical standpoint, the transaction cost lens does a reasonably good job of explaining when and how firms offshore outsource services. This paper makes a contribution to TCE theory by referring back to Coase's (1937) original work and restating the TCE premise that high transactions volumes are associated with insourcing. With the changing cost structures in today's economies, where non-physical, service-oriented exchanges may have low transaction costs due to information technology, the assumption that a high level of transactions equates to a high level of costs is not valid. The spirit of transaction cost theory is to consider the factors that make something more expensive to outsource or perform internally. Unlike offshore outsourcing of materials, offshore outsourcing of services does not have high variable transaction costs such as transportation, handling and inventory charges. Because the administrative and set-up costs for offshore outsourcing of services, such as supplier selection, training, monitoring systems, and other information linkages have a high upfront fixed cost, low transactions volumes are unattractive. Due to the fixed nature of these costs, the per unit cost allocation actually goes down and the number of transactions increases. Our data confirm that this pattern holds true for offshore services outsourcing.

The case findings also support Williamson's (1985) proposition that organizations avoid offshore outsourcing services in volatile environment. However, this research found only partial support for the TCE premise that organizations are less likely to offshore outsource services with high asset specificity. While the firms studied did not offshore outsource services with high physical asset specificity, they did outsource services where high levels of human asset specificity were developed. Perhaps knowledge specificity was discounted because the human knowledge and expertise were being developed as workers gained knowledge of the outsourced work. Firms did not seem to view this learning as critical. The nature of the offshore outsourced work involved proprietary data, but not intellectual property. Williamson (1981) warns that knowledge gained in a learning-by-doing mode ought to fall under a governance structure that will protect the beneficiary of that knowledge should the relationship somehow become severed. It appears that more research is needed to fully understand the factors at play here.

TCE also supports that firms are less likely to offshore outsource items when they are unsure of the

requirements or when they cannot determine whether the supplier actually performed as agreed to in the contract. There was partial support for both of these premises. While firms do offshore outsource professional services in both of those cases, they acknowledge the risk and try to reduce it. In some cases, due to bounded rationality, the buying organizations are not aware of the potential risk until a problem arises, such as they are overcharged, or they are treated opportunistically by a supplier. In such cases, the firms tend to react quickly to try to mitigate current and future risk. However, by looking at potential offshore, outsourced professional services through the lens of TCE, these firms might be able to avoid risk altogether, by better anticipating risk and using the proper governance structure for the situation, as illustrated in Table 3.

## 6.3. Limitations and future research

This research is limited by the perspective of high-ranking supply management professional. Even high-ranking supply management personnel often do not have the final say in the decision to offshore outsource professional services. The perspective of supplier managers with direct responsibility for offshored suppliers may provide a different perspective. It would also be beneficial to gain the perspectives of general managers or other key decision makers involved in outsourcing services. However, the focus of this research is on the ongoing management, success, and failure of offshore outsourced relationships. In that regard, supply management is often the most qualified party to comment, because they generally have a high degree of involvement and management responsibility for offshore outsourced professional services relationships.

An additional limitation of this study is that it focused only on offshore outsourcing, without simultaneously comparing it to in-house offshoring or domestic outsourcing. While the participants indicated that the savings are greater and the risks higher with outsourced offshoring, it would be interesting to compare the specific adaptive behaviors used in domestic versus offshore outsourcing, and offshoring versus outsourced offshoring.

The adaptive risk behaviors demonstrated by the firms studied indicates that there is much learning and change that occurs in the process of outsourcing services. There is substantial opportunity for future research into these adaptive behavior patterns as well as the implications of adaptive behavior for the applicability of TCE to services outsourcing. Using a

1107  
1108 knowledge-based theoretical lens to view services may  
1109 also be relevant here. The knowledge-based view has  
1110 been considered as a lens for the creation of services  
1111 (Grant, 1996; Linderman et al., 2004; Nonaka, 1994;  
1112 *Ordonez de Pablos, 2004; Oliveira et al., 2003*), as well  
1113 as for determining the segregation of tasks between the  
1114 buying and supplying firms (*Takeishi, 2001, 2002*). This  
1115 view may also apply to services offshore outsourcing in  
1116 a variety of ways. For example, the knowledge and  
1117 skills associated with the complex activity of determin-  
1118 ing which services to offshore outsource, where, to  
1119 whom and how to structure the relationship may be an  
1120 important source of competitive advantage that should  
1121 be properly managed within the firm. This may be one  
1122 of those learn-by-doing skills identified by *Williamson  
1123 and Ouchi (1981)* that the firm should protect, just like  
1124 any type of intellectual property.

1125 Similarly, the skills associated with managing  
1126 offshore outsourced services may be an important  
1127 learned asset. The case studies indicate that there is  
1128 much learning in this arena. The learning also seems to  
1129 apply in terms of the manner in which organizations  
1130 learn to manage and reduce the risks of offshore  
1131 services outsourcing. One of the issues here is how  
1132 much of this learning is tacit versus explicit knowledge.  
1133 As *Grant (1996)* found, it is not the loss or gain of  
1134 explicit knowledge that creates difficult competitive  
1135 issues for the firm, it is the loss of tacit knowledge.  
1136 Likewise, *Takeishi (2002)* notes that the effective  
1137 management of knowledge by the manufacturing firm in  
1138 its relationships with its suppliers may be a source of  
1139 competitive advantage.

1140 Taking this one step farther, the organizations that  
1141 offshore outsource these professional services must ask  
1142 themselves: are we outsourcing tacit knowledge, which  
1143 is difficult to recreate and transfer, or are we outsourcing  
1144 explicit knowledge, or capacity? Initially, all the  
1145 organizations studied believed they were doing the  
1146 latter. As the relationship progressed, it became clear  
1147 that some were really outsourcing the former, paying  
1148 their suppliers to become more powerful and compe-  
1149 titive, often at their own expense.

1150 Clearly, there are many interesting and exciting areas  
1151 of research opportunity in the offshore outsourcing of  
1152 professional services. This research contains a broad  
1153 perspective of offshore outsourcing. Future research is  
1154 needed that takes a more in-depth look at this  
1155 phenomenon. This globalization of professional ser-  
1156 vices is as a developing phenomenon not a passing  
1157 trend. Organizations need to be successful with their  
1158 offshoring efforts, both reducing costs and safeguarding  
1159 the company from risk. Organizational leaders have

1159 both the possibility and the desire to learn and gain  
1160 experience in offshore outsourcing. Researchers have  
1161 the opportunity to be at the forefront of this developing  
1162 phenomenon and allowing their insights and experience  
1163 to help make the transition to a global services economy  
1164 a successful one. 1165

### Appendix A. Questionnaire

1. Do you outsource any professional services? If yes,  
please describe. If not, go to Q13. 1166 1169
2. In what geographical region is the outsourced  
service located/conducted? 1170 1171
3. Why was that location(s) chosen? 1172 1173
4. Are you familiar with why the decision was made to  
outsource each of these services? Could you please  
explain? 1174 1175 1176
5. For each of the outsourced services that we are  
focusing on, please answer: 1177 1178
  - a. Do you have a relatively high volume of  
transactions with this supplier? At what level  
of transactions would you expect that it would no  
longer be worth it to the supplier, or to you, to  
outsource? 1179 1180 1181 1182 ~~1209~~
  - b. Are there unique assets or investments required  
by the supplier to support your service? Please  
consider both physical resources and training.  
Are these significant versus the total cost of the  
service? 1183 ~~1286~~ 1184 ~~1283~~ 1185 ~~1288~~ 1186 ~~1289~~
  - c. Is the supplier developing intellectual property in  
any way? If so, how do you manage the  
ownership of that IP? 1187 ~~1290~~ 1188 ~~1298~~ 1189 ~~1299~~
  - d. Is there a great deal of uncertainty in the market  
place associated with the item that you are  
purchasing, for example, is technology changing  
rapidly, do the levels of supply and demand shift  
rapidly with limited predictability, or are there  
other types of market risks? 1190 ~~1290~~ 1191 ~~1298~~ 1192 ~~1298~~ 1193 ~~1298~~ 1194 ~~1298~~ 1195 ~~1298~~
  - e. From a compliance perspective, how easy is it to  
verify that the supply is doing what it says it is  
doing in line with its contractual obligation to  
you: can you measure performance inputs and  
outcomes? 1196 ~~1290~~ 1197 ~~1280~~ 1198 ~~1288~~ 1199 ~~1289~~ 1200 ~~1280~~
6. Could you please describe the extent of the  
outsourcing: 1204 ~~1283~~
  - a. Is this a turnkey operation? 1205 ~~1288~~
  - b. How much internal control and management do  
you retain? 1206 ~~1289~~ 1207 ~~1286~~
  - c. Do you retain any of these capabilities in house?  
Which capabilities, and why? 1208 1251 1252
  - d. What are the benefits you seek by retaining some  
capabilities in house? 1209 1253 1254 1255 ~~1266~~ 1256 ~~1267~~ 1257 ~~1268~~ 1258 ~~1269~~ 1259 ~~1264~~

- 1229  
1230 7. Have you been satisfied with the results of your  
1231 outsourcing? Please explain the aspects that you  
1232 have been satisfied with and dissatisfied with.  
1234 8. If you have retained some operations internally,  
1235 how satisfied are you with the performance of the  
1236 internal versus the external function?  
1238 9. In addition to outsourcing, have you offshored any  
1239 professional services (where offshoring is defined  
1240 as moving an operation from your home country to  
1241 another country).  
1243 10. For these services, do you also retain some  
1244 capabilities domestically? Please explain.  
1246 11. Do you know why the decision to offshore was  
1248 made versus:  
1249 a. Retaining all domestically.  
1250 b. Outsourcing overseas.  
1254 12. For each of the offshored services that we are  
1255 focusing on, please answer: (see Q5 a–e above).End  
1256 For organizations that do not outsource:  
1258 13. If you don't outsource any professional services,  
1259 could you please explain to the best of your  
1260 knowledge, why not?  
1262 a. Is that decision revisited frequently?  
1265 b. Do you expect this to change? Why or why not?  
1267 14. As opposed to outsourcing, have you offshored any  
1268 professional services (where offshoring is defined  
1269 as moving an operation from your home country to  
1270 another country)? If no, go to Q18.  
1272 15. For these services, do you also retain some  
1273 capabilities domestically? Please explain.  
1275 16. Do you know why the decision to offshore was  
1276 made versus:  
1278 a. Retaining all domestically.  
1280 b. Outsourcing overseas.  
1282 17. For each of the offshored services that we are  
1284 focusing on, please answer: (see Q5 a–e above).  
1285 For organizations that do not outsource OR  
1286 offshore:  
1288 18. If don't offshore any professional services, could  
1289 you please explain to the best of your knowledge,  
1290 why not?  
1292 a. Is that decision revisited frequently?  
1295 b. Do you expect this to change? Why or why  
not?

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