Chapter IX

Small Firms and Offshore Software Outsourcing: High Transaction Costs and Their Mitigation

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Abstract

It seems surprising that small firms engage in offshore outsourcing given that they lack the resources that large firms possess to overcome the difficulties involved. We examine these factors using transaction cost theory’s three stages: contact costs, contract costs, and control costs. Then, using our field data from small client firms (in the United States and the United Kingdom), intermediaries, and offshore vendors, we analyze the mitigation approaches that reduce transaction costs for small firms. We identify nine such approaches: three for client firms and six for suppliers. For the small client firm, they are liaisons of knowledge flows, gaining experience, and overcoming opportunism; and, for the service providers, they are onshore presence, reducing contact costs, simplifying contracting, providing control channels, expert intermediaries, and standardization of services.
Introduction

Over the last decade, many firms in the U.S. and Western Europe have outsourced software development tasks to offshore sites in countries such as India, Russia, and the Philippines. More than 50% of the American Fortune 500 firms and an increasing proportion of Western European and Japanese firms are users of offshore software sourcing (Carmel & Agarwal, 2002; Sahay, Nicholson, & Krishna, 2003). Research on onshore or domestic information-systems outsourcing has significantly enhanced our understanding of why such firms outsource software development (Lacity & Hirschheim, 1993) and how relationships may be effectively managed with appropriate risk mitigation, coordination, and control strategies (for example, Kern & Willcocks, 2000; Lacity & Willcocks, 2001; Levina & Ross, 2003; Sabherwal, 1999, 2003). Other scholars and practitioners have drawn attention to the particular difficulties presented by offshore software outsourcing (Apte, 1990; Kumar & Willcocks, 1999; Nicholson & Sahay, 2001). Communication may be impacted by technical issues such as telecommunications infrastructure, cultural differences, accents, and language ability (Walsham, 2001). Time-zone differences may lead to coordination difficulties (Carmel, 1999). Often the offshore team lacks domain knowledge in the business application in question, and transferring this knowledge is hampered by distance (Sahay et al., 2003).

This prior research in onshore and offshore software sourcing has improved our understanding of the management of software outsourcing and the additional complexities presented in offshore relationships. However, most of this research has centered on large organizations that have the internal resources to address the problems of managing across time and space. Therefore, in this chapter our approach is to focus on the issues faced by small companies when sourcing software offshore.

We have noticed in the course of our related research, fieldwork, conference attendance, and consultancy that an increasing amount of offshore sourcing of software development work is taking place between small client firms and offshore vendors in India and other countries. This trend looks set to continue. Small and large firms have chosen to outsource for a number of reasons such as skills shortages, cost, capacity, flexibility, and a “bandwagon effect” (Heeks, 1995; Lacity & Hirschheim, 1993). We have encountered cases of small U.S. and UK technology firms engaging in offshore software development since the late 1990s. At that time, the growth of the Indian IT industry was closely linked to the demand for skills from Europe and the U.S. for Y2K (year 2000) alleviation and subsequently the demand for development skills in dot-com companies. During the late 1990s, small UK and American technology firms faced a recruitment crisis due to the high cost of IT skills and the inability to provide the perks and career paths that large companies could offer. Access to scarce skills was shown to be a major driver in the cases of Sierra (Nicholson & Sahay, 2004; Nicholson, Sahay, & Krishna, 2000; Sahay et al.,
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