

East, West, Would Home Really Be Best?

On Dissatisfaction with Offshore-Outsourcing and Firms' Inclination to Backsource

Abstract

With so many firms seemingly disenchanted with their experiences of offshore outsourcing one may well wonder why relatively few of these firms choose to 'backsource' – i.e., bring their offshored operations back in-house. Of all sourcing decisions that firms take, backsourcing is perhaps the least understood and least researched. In this article we draw on the behavioral theory of the firm (BTF) to propose a new model in which differences in firms' inclination to backsource are ascribed to the level of dissatisfaction at not having achieved offshoring aspirations. Building on BTF concepts of bounded rationality, problemistic search and satisficing decisions, the model suggests that how this dissatisfaction with offshoring affects a firm's inclination to backsource is dependent on managerial expectations regarding technical challenges of reintegrating activities, possible financial losses, and potential decline in quality following back sourcing, as well as on internal political support and financial slack for back sourcing. SEM analysis of data from U.S. and U.K. firms shows support for the model. The study highlights the importance of recognizing the role of managerial perceptions and biases and subgroup political relations in shaping firms' back sourcing behaviors. We also discuss the study's contributions to research and practice.

Keywords: Backsourcing; behavioral theory; managerial expectations; organizational politics; sourcing decisions.

1. Introduction

There is tremendous interest in academic and professional circles in understanding more about the drivers and outcomes of firms' sourcing decisions. To advance understanding, key questions that need attention are why, what, where, how, and when firms outsource (Dibbern, Chin, & Heinzl, 2012; DiRomualdo & Gurbaxani, 1998; Mudambi & Venzin, 2010; Mudambi & Tallman, 2010; Tanriverdi, Konana, & Ge, 2007)¹ and offshore (Aron & Singh, 2005; Doh, Bunyaratavej, & Hahn, 2009; Farrell, 2006; Musteen, 2016). When addressing such questions, scholars have often tended to use transaction-cost economics (TCE) and the resource-based view (RBV) as lenses to model firms' sourcing decisions as rational choices that capitalize on either the cost or resource advantages that offshoring provides (Aubert, Rivard, & Patry, 1996; Lewin, Massini, & Peeters, 2009; Mudambi & Venzin, 2010; Vivek, Banwet, & Shankar, 2008). Notably, despite an increasing trend to bring offshored operations back in-house (Bhagwatwar, Hackney, & Desouza, 2011; Ejodame & Oshri, 2017), there has so far been little scrutiny of firms' decisions to backsource. The handful of studies that have looked at the phenomenon indicate that back sourcing seems to follow disenchantment with offshoring because of a failure to realize anticipated improvements in performance (Veltri, Saunders, & Kavan, 2008; Whitten & Leidner, 2006).

Importantly, however, disenchantment with offshoring does not always lead to back sourcing, raising the intriguing question of why these disappointed firms differ in their inclination to backsource. In this article, we address the question by using the behavioral theory

¹ Most articles cited here focus on both outsourcing and offshoring decisions. In this article, we use the terms offshoring and offshored as shorthand for, respectively, offshore outsourcing and activities, functions, and processes that are outsourced offshore.

of the firm (see Argote & Greve, 2007; Desai, 2016; Gavetti, Greve, Levinthal, & Ocasio, 2012; Tyler & Caner, 2016) as lens. Rooted in the work of scholars from the Carnegie School (Cyert & March, 1963), the behavioral theory of the firm (BTF) offers an account of the decision-making process in firms that is based on realistic assumptions about human cognition and relations. This account suggests that decision making in firms is guided by decision makers' bounded rationality and organizational politics. As discussed in more detail later on in the article, we draw on the core ideas of BTF to articulate a model in which variation in firms' inclination to backsource is ascribed to differences in decision makers' dissatisfaction with offshoring, and the problemistic search for a solution that dissatisfaction prompts. Furthermore, the model suggests that whether dissatisfaction with offshoring ultimately leads to back sourcing is likely to depend on decision-makers' expectations regarding the technical difficulty of reintegrating offshored work, financial losses, and decline in product quality. Moreover, whether dissatisfaction leads to back sourcing is also likely to depend on what political support for back sourcing there is within the firm, and whether there is financial slack to facilitate the re-aggregation of the firm's value chain.

Structural equation modeling of data from a cross-industry survey of firms located in the U.S. and the U.K. provides support for the theoretical model. Empirical results show that, while greater dissatisfaction with offshoring is indeed associated with a greater inclination to backsource, the relationship is conditional on managerial perceptions and the political climate in a firm. In particular, the greater the financial loss and the greater the decline in product quality that managers expect to result from discontinuing offshoring, the weaker the relationship between dissatisfaction with offshoring and the inclination to backsource. Surprisingly, though,

managerial expectations about the technical difficulty of reintegration do not seem to moderate the effect of dissatisfaction with offshoring. As regards political climate, dissatisfaction with offshoring has a stronger effect on inclination to backsource when there is more political support in the firm for back sourcing. Quite interestingly, contrary to our theoretical model, we find that financial slack weakens the effect of dissatisfaction with offshoring on inclination to backsource. This result seems to suggest that, because greater financial slack provides more buffer, it discourages firms from switching from offshoring to back sourcing – rather than undertaking such a radical shift, firms seem to prefer the status quo, pinning their hopes on an offshoring strategy, despite their dissatisfaction with it.

This article speaks directly to the timely question in this Special Issue’s call for papers, namely, “[w]hat are the factors that influence a firm’s decision to re-shore and back-source?” As the decision to backsource is a poorly understood aspect of firms’ outsourcing and offshoring decision making, the article makes several contributions to the literature. It presents one of the first theoretical and empirical inquiries into differences in firms’ inclination to backsource, providing insights into why so many firms are hesitant to backsource, in spite of the widespread dissatisfaction with offshoring reported in the news and business press. It adds to the literature by showing that the expectations of boundedly rational decision makers and organizational politics, both of which are variables that have not received sufficient attention in prior work, play a critical role in guiding back sourcing decisions. More generally, by employing the BTF lens the article augments the literature, complementing earlier research that used TCE and RBV frameworks to suggest that sourcing decisions are shaped by rational cost and resource considerations (cf. Lewin et al., 2009; Mudambi & Venzin, 2010). Since back sourcing and

outsourcing are essentially two sides of the sourcing coin, the article indicates that there may be value in also examining outsourcing using a BTF lens – outsourcing choices may very well reflect managerial biases and company politics. In this regard, the article provides a valuable addition to a growing stream of offshoring research that has started to draw on BTF to advance our understanding of sourcing decisions (Massini, Perm-Ajchariyawong, & Lewin, 2010; Musteen, 2016). Overall, the article offers a behavioral explanation of why some firms may be more inclined than others to ‘remake’ rather than to ‘continue to buy’.

2. Research background

2.1 Sourcing decisions, and the incidence and challenges of backsourcing

Outsourcing, offshoring, and backsourcing form a spectrum of sourcing options (Aron & Singh, 2005; Dedrick, Carmel, & Kraemer, 2011; Metters, 2008; Mudambi & Venzin, 2010). Whereas outsourcing refers to the contracting of external service providers to carry out some of a client firm’s value-chain functions, processes, and activities for a specified length of time and at an agreed cost and service level, offshoring (i.e., offshore outsourcing) refers specifically to the contracting of external service providers operating from an offshore location, usually a developing country separated from the client firm’s country by an ocean (Oshri, Kotlarsky, & Willcocks, 2015). Backsourcing, in contrast, is the practice of bringing offshored operations back in-house (Hirschheim & Lacity, 1998; Whitten & Leidner, 2006). The backsourcing process starts with a decision by a client firm to terminate its existing offshore contracts, and it culminates in the reintegration of the previously offshored operations into the firm’s value chain².

² As defined here, backsourcing can be distinguished from ‘insourcing’, which refers particularly to the termination of an outsourcing contract with a view to rebuilding the IT infrastructure internally (e.g., Hirschheim & Lacity, 2000). Backsourcing

The last decade has witnessed a growth in the phenomenon of backsourcing across industries. For example, in the retail sector, in 2006 Sainsbury backsourced its IT systems from Accenture in a deal worth over \$2 billion. In the banking sector, in 2011 the Spanish bank Santander brought back its contact centers from India to the UK, and in 2013 Maybank Singapore brought back its IT function in-house after ten years of a multi-million dollar contract with CSC Computer Services. In terms of sheer scale, the termination of a contract between JP Morgan and IB – centering on the outsourcing of data-centers, helpdesks, and data and voice networks – stands out for the \$5 billion sum of money involved (Bhagwatwar et al., 2011; Overby, 2005). These and other backsourcing cases (see, for example, Kotlarsky & Bognar, 2012) seem to signal that firms may backsourcing even more frequently in the future as part of their overall sourcing strategy (Dibbern, Goles, Hirschheim, & Jayatilaka, 2004). The most common explanation for this growing use of backsourcing is firms' disenchantment with offshoring as offshoring goals are not realized (e.g., Bhagwatwar et al., 2011; Veltri et al., 2008).

It is important to note that successful backsourcing of offshored operations is not an easy or straightforward process. It represents a major change in sourcing strategy, and can be anticipated to produce substantial technical and financial challenges of the kind that usually accompany large system re-integration projects (Volkoff, Strong, & Elmes, 2005). It may also entail legal difficulties linked to the termination of contracts with service providers (Bhagwatwar et al., 2011). In relation to technical challenges, one significant potential difficulty is that a firm's

can also be distinguished from 'reshoring', which refers to the practice of bringing a function that has been outsourced offshore back to the home country or home continent, but not back in-house (e.g., Gray, Skowronski, Esenduran, & Rungtusanatham, 2013; Musteen, 2016).

capabilities to carry out offshored operations in-house may have atrophied; these thus may need re-building by committing sufficient time and monetary resources to allow the offshored operations to be reincorporated effectively into the firm's value chain (Bhagwatwar et al., 2011; Ejodame & Oshri, 2017). Below, we draw on the insights of the BTF to submit that, alongside other factors, decision-makers' expectations regarding the technical difficulty of reintegrating offshored operations, financial losses, and decline in product quality if offshore contracts are terminated, will form a crucial element in determining how dissatisfaction with offshoring affects firms' inclination to backsource.

2.2 The behavioral theory of the firm (BTF) and firms' inclination to backsource

Two salient premises of the BTF are that decision makers in firms have bounded rationality and that firms are political entities made up of coalitions who may have shared as well as conflicting interests and goals (Cyert & March, 1963; Eisenhardt & Zbaracki, 1992; Gaba & Joseph, 2013; Gavetti et al., 2012). Based on these premises, BTF maintains that the decision-making process in firms tends not to conform to the postulates of rational models of decision making, in which managerial decisions are viewed to reflect the selection of the best solution after undertaking a cost-benefit analysis of all possible options. BTF suggests that, typically, managerial decisions are in fact "satisficing" solutions, which reflect the bounded rationality of those making the decisions and the need for compromise, given the varied interests and goals of different factions in a firm. According to BTF, a failure to achieve an aspirational level of performance triggers a problemistic (i.e., problem-driven) search for a satisfactory rather than optimal solution. As decision makers do not have complete knowledge of all the alternative solutions and their relative pay-offs, decision-makers' coarse-grained expectations of the consequences of choosing

a solution readily visible to them play a key role in decision making. Furthermore, having political support for a solution is vital because implementing a mutually acceptable solution is essential to avoid conflict in the firm. In addition, BTF draws attention to the slack available to a firm, because greater slack enables the firm to absorb the costs and the risks attached to switching to an acceptable alternative.

The BTF thus identifies failure to achieve aspirations, problemistic search, managerial expectations, politics, and slack as key concepts that have a bearing on decision making in firms, and thus on organizational behavior and outcomes. We draw on these core BTF ideas to propose the model outlined in Figure 1, in which the level of dissatisfaction with offshoring due to a failure to achieve the expected level of performance, predicts firms' inclination to move to back sourcing as a satisfactory alternative. In keeping with the BTF, the model suggests that managerial expectations regarding the technical difficulty of reincorporating offshored operations into the firm's value chain, and potential financial loss and decline in product quality from discontinuing offshoring, will moderate the extent to which dissatisfaction with offshoring inclines firms to backsource. The model additionally holds that political backing for back sourcing and the amount of financial slack available for it will also moderate the effect of dissatisfaction with offshoring on a firm's inclination to backsource. We now expand on these relationships and present the study's formal hypotheses by weaving together BTF arguments and accounts of firms' actual offshoring and back sourcing decisions.

-----PLACE FIGURE 1 ABOUT HERE -----

3. Hypotheses

3.1 Dissatisfaction with offshoring and the inclination to backsource

It is usually suggested that the offshoring of parts of a firm's value chain is motivated by the hope that this will lead to improvements in performance, either because of lower costs or because of higher-quality factor inputs such as expertise, knowledge, and skills that are to be obtained by contracting with offshore service providers (Carmel & Tjia, 2005; Manning, Larsen, & Bharati, 2015; Oshri et al., 2015; Varadarajan, 2009). There is ample evidence to suggest, however, that performance improvements vary greatly across firms that offshore (Mani, 2006; Lacity, Khan, & Yan, 2016). Dibbern, Winkler, and Heinzl (2008, p. 334) note in this regard that, "while realized cost savings through offshore outsourcing may range between 20 and 50 percent, studies also show that in about 50 percent of the cases offshore projects fail to achieve cost savings or that costs actually increase." If firms fail to achieve the level of performance they had hoped for, managers are likely to feel dissatisfied with offshoring. According to the BTF, because dissatisfaction with a course of action motivates managers to find a solution that would lead to better performance (e.g., Desai, 2016; Greve, 2008), decision makers' behavioral response to dissatisfaction with offshoring is likely to be the initiation of a problemistic search for a satisfactory alternative. Since back sourcing is a very obvious and potentially viable alternative to offshoring (cf. Whitten et al., 2010; Whitten & Leidner, 2006), as decision makers' dissatisfaction with offshoring increases, so should the likelihood of a problemistic search for an alternative to it, and thus an offshoring-to-backsourcing switch in sourcing strategy. Conversely, if decision makers are satisfied with offshoring and feel no need to search for another strategy, one can expect less inclination to backsource. Formally:

H1: The greater the level of dissatisfaction with offshoring, the greater the firm's inclination to backsource.

3.2 The moderating effect of managerial expectations

The BTF suggests that managerial expectations play a crucial role in shaping decisions. When there is dissatisfaction with offshoring, managerial beliefs about the technical difficulty of reintegrating offshored activities with home operations could be particularly influential for the decision regarding whether or not to backsource. Such beliefs may form around a range of technical issues. For example, decision makers may have different perceptions of the technical challenges of reintegration, and of the feasibility and work required to make in-house and external systems compatible. Similarly, decision makers may vary in their beliefs about their firm's ability to regain the expertise needed to carry out offshored activities in-house (Bhagwatwar et al., 2011; Ejodame & Oshri, 2017). Such expertise may need to be reacquired, either because a firm has lost domain and functional knowledge over time as a result of an activity being offshored, or because attention in the firm has shifted from focusing on technical problem-solving to managing relationships with service providers (cf. Bhagwatwar et al., 2011; Cullen, Seddon, & Willcocks, 2005). When there is no definitive knowledge of how far technical difficulties will in fact be resolved over time, decision making will depend on decision makers' beliefs (Cyert & March, 1963; Gavetti et al., 2012). The more strongly decision makers believe that reintegrating offshored activities poses considerable difficulties, the less likely they are to see back sourcing as a satisfactory solution, and thus the weaker the relationship will be between dissatisfaction with offshoring and inclination to backsource. Formally:

H2: The positive relationship between dissatisfaction with offshoring and inclination to backsource will be weaker when decision makers expect the technical difficulties in reintegrating offshored activities with in-house activities to be greater.

One can also assume that managerial expectations concerning the financial and quality consequences of discontinuing offshoring will moderate the influence of dissatisfaction with offshoring on inclination to backsource. Backsourcing can involve financial loss in the form of non-capitalization of returns on monetary and psychological investments in offshoring relationships (Whitten et al., 2010). Moreover, firms could incur financial losses as a result of penalties and legal fees attached to terminating contracts. Bhagwatwar et al. (2011, p.166) report, for example, that, “JP Morgan paid IBM millions of dollars for terminating [their] outsourcing contract, which approximated to some 15% of the total cost. This approximated to JPMC spending somewhere between \$14 million and \$107 million in 2005 to bring its IT back in-house.” Similarly, Sainsbury’s incurred a substantial financial loss of U.S. \$65 million from terminating a contract early in order to bring its IT system and business processes back in-house (Bhagwatwar et al., 2011). As full information about financial losses from discontinuing offshoring is not available to decision makers who are considering backsourcing, decisions are likely to be based upon decision makers’ rough beliefs about the potential level of financial loss (cf. Cyert & March, 1963). In line with earlier research (Bromiley, 1991; Shinkle, 2012), we surmise that the greater the financial loss managers believe will ensue from discontinuing offshoring, the less likely they are to perceive backsourcing as a satisfactory solution, and thus the weaker the relationship will be between dissatisfaction with offshoring and inclination to backsource. Formally:

H3: The positive relationship between dissatisfaction with offshoring and inclination to backsource will be weaker when decision makers expect to incur a greater financial

loss from discontinuing offshoring.

A relationship similar to the one posited above can also be anticipated with regard to the effect of managerial expectations about potential decline in product quality. That backsourcing can entail a decline in quality has been noted in the literature (e.g., Veltri et al., 2008). In illustration, let us consider the case of backsourcing data-center operations; if a firm does not possess state-of-the-art infrastructure and technical resources for using current platforms (e.g., Cloud-based services), it is likely to face serious challenges in ensuring continuity in the speed and scale of its service provision after it backsources operations. JP Morgan's experience of backsourcing its data-center and helpdesk operations indicates that, during the backsourcing process and even up to one year later, the service quality was severely affected, because the personnel transferred back from the service provider, IBM, were "not getting any work done [...] they did not want to commit to projects and they started slacking off" (Bhagwatwar et al., 2011, p.169). Importantly, uncertainty about the extent of any decline in quality levels after discontinuing offshoring means that sourcing decisions will be guided essentially by expectations of what that decline might be. These may be based on decision makers' assessments of whether the company still has the requisite knowledge to enable existing levels of quality to be maintained. Additionally, decision makers may take a certain view of how long it would take to rebuild quality levels (see also Ejodame & Oshri, 2017). Consistent with the logic of our earlier hypotheses, the more decision makers expect quality to decline and believe that it will take longer to restore, the weaker the effect of dissatisfaction with offshoring will be on inclination to backsource. We postulate that:

H4: The positive relationship between dissatisfaction with offshoring and inclination

to backsource will be weaker when decision makers expect discontinuing offshoring to lead to a larger decline in quality.

3.3 The moderating effect of organizational politics

As we noted above, the BTF draws attention to the significance of organizational politics in decision making. Since individuals and groups in firms may not always agree on means and ends, give and take are an integral part of the decision-making process in firms. The decision choices that emerge from this type of process are satisficing solutions for which there is broad approval in the firm (Cyert & March, 1963; Eisenhardt & Zbaracki, 1992). Consistent with this, several studies have noted that internal relations, the distribution of power, and politics all play a role in outsourcing decisions (Bidwell, 2012; Chakrabarty & Whitten, 2011; Heiskanen, Newman, & Eklin, 2008). Politics are also likely to matter when decision makers weigh up whether or not to switch from offshoring to back sourcing. Backsourcing can have serious implications for organizational structure and for work interdependencies – it can engender uncertainties and impact people’s tasks, workflows and workload, and also evaluation and rewards (Overby, 2005). As such, a decision to backsource may be met with considerable internal resistance. Indeed, it would seem that companies such as Cable & Wireless, Sears, and Washington Mutual hired new people for key decision-making positions with a view to steering the firm towards a climate in which there was more openness to back sourcing (Veltri et al., 2008). In the light of the arguments above, we anticipate that a political climate which is favorable to bringing back offshored operations will temper the impact of dissatisfaction with offshoring on inclination to backsource. In particular, we expect the impact to be stronger when there is less internal

resistance to back sourcing, and to be weaker when there is more resistance. Formally:

H5: The positive relationship between dissatisfaction with offshoring and inclination to backsource will be stronger when there is a more favorable political climate for back sourcing.

3.4 The moderating effect of financial slack

The notion of slack implies that there are more resources available to a firm than are strictly needed to carry out operations. BTF emphasizes that financial slack has an important influence on decision making in firms (Cyert & March, 1963; Singh, 1986). Since it provides a buffer that allows the firm to absorb costs and take risks, it has been suggested to encourage the search for new solutions to problems (Salge, 2011; Iyer & Miller, 2008). In line with this, we expect financial slack to strengthen the effect of dissatisfaction with offshoring on inclination to backsource. As financial slack increases, decision makers are likely to see back sourcing as a more feasible sourcing solution, because there is greater capacity to offset the numerous costs and expenses of back sourcing. For example, more financial slack should make it easier for a firm to meet the substantial costs of terminating offshored operations and bringing them back in-house (Overby, 2005). It should also allow the firm to absorb more easily the costs of searching for, acquiring and setting up physical assets for the back sourced activities, rehiring experts, training personnel, and meeting the additional workload on the support functions in a company, such as human resources, finance and accounting, and procurement. A study by Ejodame and Oshri (2017) illustrates this well, describing how a bank earmarked a significant amount of money to hire and train personnel in order to facilitate back sourcing. In view of this discussion, we predict that

greater financial slack will strengthen the effect of dissatisfaction with offshoring on inclination to backsource. Formally:

H6: The positive relationship between dissatisfaction with offshoring and inclination to backsource will be stronger when more financial slack is available.

4. Methods

4.1 Sample and data collection

The sample for hypotheses testing was drawn from firms in the U.S. and the U.K. (the two largest markets worldwide in terms of spending on offshored operations). For the sake of generalizability, we targeted firms in varied business sectors, including financial services, distribution and logistics, and manufacturing. Using panel data on consumers of offshore services, we invited representatives from 36,038 firms in the U.S. and 13,804 firms in the U.K. to complete a web-based survey. In line with the “key informant” approach to data collection, the invited representatives were the firms’ most senior executives (e.g., Goo, Huang, & Hart, 2008). We used a set of screening questions to ensure that all of our respondents were executives who took offshoring and back sourcing decisions (i.e., in CEO, CIO, CTO or COO positions), had at least two years of offshoring experience with their current firm, and were in firms that paid at least US\$50,000 or more annually to offshore service provider(s). Of the 1192 representatives who accepted our invitation, 849 were screened out. We received usable, fully completed responses from 196 invitees, equating to a response rate of 16% among those who expressed interest in the survey. No evidence of non-response bias was found when comparing the industry affiliation of responding and non-responding firms. Further, a comparison of early and late respondents (i.e., those responding in the last three days of the one-week period for

which the survey was open) did not reveal any significant difference with respect to any of the study's variables. Table 1 presents descriptive information about the sample.

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To avoid bias in the measurement of variables, we followed closely the guidelines suggested for web-based surveys (Dillman, 2000). To avoid bias that might arise because of confusion by respondents, all the questions and items were worded unambiguously, and response options were clearly explained and presented. Also, a “don't know” response category was always included to avoid inaccurate responses, should a respondent not be able to answer a particular question or item. Furthermore, with a view to encouraging truthful answers, respondents were assured of confidentiality and we underlined that the survey was linked to a scientific research project. Despite the steps we took, it is nevertheless possible that data from single informants may contain common-method bias. To verify that this was not the case, we employed Harman's one-factor test (Podsakoff & Organ, 1986). As four factors having an eigenvalue of more than unity were necessary to account for the variance in the data, common-method bias did not seem to be a problem in our dataset.

4.2 Measurement of variables

The study's explanatory, moderating and dependent variables were measured using Likert-type items with seven-point response formats. All items were anchored at “strongly disagree” and “strongly agree” (see, for example, Nunnally & Bernstein, 1994).

The study's explanatory variable, *dissatisfaction with offshoring*, was measured using three

items: “Offshoring has been a disappointment for us”, “The net benefits from offshoring have been minimal”, and “We are satisfied with the performance levels of offshored activities” (reverse scored). Respondents were asked to keep in mind their firm’s experience with offshoring in the last three years when rating the items. The Cronbach’s reliability coefficient for the three-item instrument was 0.78.

The five moderating variables were operationalized using single-item instruments. Specifically, we measured *expected technical difficulties of reintegration* with the item “We would experience significant technical difficulties in reintegrating offshored operations with in-house activities”. To measure *expected financial loss*, we used the item “We would suffer considerable financial loss if contracts with offshore service providers were terminated”. To measure *expected decline in quality*, we used the item “Should we bring back offshored operations, we can expect substantial decline in our product quality”. To measure *political climate favorable to back sourcing* we used the item “The political climate in our company is unfavorable to bringing back offshored operations” (reverse scored). Lastly, to measure *available financial slack*, we used the item “We have enough financial slack to facilitate reintegration of offshored operations with in-house activities”.

To measure the study’s dependent variable, *inclination to backsource*, we employed the following three items: “We are seriously considering bringing back offshored activities”; “We are firm in our commitment to offshoring” (reverse scored); and “We are thinking of sourcing more from our offshore service providers” (reverse scored). Respondents were asked to keep in mind their intentions regarding offshoring in the coming three years when rating the items. The

Cronbach's reliability coefficient for the three-item instrument was 0.76.

In addition to the above, we included several control variables in our analysis that may potentially affect firms' inclination to backsource. To control for the effect of firms' home country on back sourcing, we included a dummy variable for firms located in the U.S.; firms in the U.K. served as the reference category. We similarly included dummy variables to control for industry effects on back sourcing. At the firm level, we controlled for firm size as indicated by firms' total assets. We also controlled for the global sales revenue of firms, and for firms' disbursements to offshore service providers. Moreover, based on respondents' "yes" or "no" answers to the question of whether their company had brought back any offshored activity during the last three years, we included a dummy variable to control for firms' prior experience of back sourcing (Gefen, Wyss, & Lichtenstein, 2008). Lastly, because decision-makers' tenure may have a bearing on the inclination to backsource, we also controlled for the length of time respondents had been in their current position.

5. Analysis and results

We examined our data using SPSS Amos 22 software. We first did a confirmatory factor analysis (CFA) to estimate a measurement model of relationships between the study's constructs and the items used to measure the constructs; we then estimated a structural equation model of cause-effect linkages. With regard to the measurement model, we used maximum likelihood estimation to estimate parameters. The CFA results indicated a measurement model with a good fit ($\chi^2 = 44.30$, d.f. = 28, $p = 0.03$, CFI = 0.98, TLI = 0.96, RMSEA = 0.05). Furthermore, the composite reliability (CR) and the average variance extracted (AVE) for construct measures were above 0.80 and 0.50 respectively, values which can be taken to indicate convergent validity

(Fornell & Larcker, 1981). Additionally, we also examined the size and the significance of the factor loadings of measurement items. All factor loadings were above the recommended threshold of 0.50 (the lowest and the highest being 0.63 and 0.82 respectively) and all were statistically significant at the one percent level, indicating convergent validity. Furthermore, as the correlation coefficients for the construct measures were less than the square root of the AVE for the measures, the results also indicate discriminant validity. Taken together, the estimation results suggest that one can have confidence in the measurement properties of the instruments used to operationalize the study's constructs.

Table 2 shows the descriptive statistics and correlations between the study's variables. To estimate the structural equation model, we again used maximum likelihood estimation. The standardized values of the study's main and moderating variables were used to build interaction terms for hypotheses testing (Dawson, 2014). The results showed a structural model with an acceptable fit ($\chi^2 = 81.37$, d.f. = 49, $p = 0.00$, CFI = 0.97, TLI = 0.91, RMSEA = 0.06). Table 3 presents the parameter estimates, standard errors (S.E.), and significance levels. As shown in Table 4, several of the study's control variables had a statistically significant effect on inclination to backsource. In particular, bigger firms (in terms of assets) show a greater inclination to backsource offshored activities. On the other hand, firms with a larger sales revenue show less inclination to backsource. Also, prior experience of back sourcing has a negative effect on inclination to backsource, which might be due to the challenges and difficulties experienced previously when reintegrating offshored activities with in-house operations. Interestingly, decision-makers' length of tenure has a negative relationship with the inclination to backsource, implying that those who have been in post longer are more likely to continue to offshore. Most importantly, in support of Hypothesis 1, Table 4 also shows that

dissatisfaction with offshoring has a strong positive effect on inclination to backsource ($\beta = 0.57$, $p < 0.001$).

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As regards the hypothesized moderation effects, Table 3 indicates that, of the five interaction terms constructed to capture these effects, four are statistically significant. The significant linkages are shown visually in Figures 2–5 to aid interpretation. Starting with the first moderation effect summarized in Hypothesis 2, there is no support for the idea that the expected level of technical reintegration difficulties will moderate negatively the effect of dissatisfaction with offshoring on inclination to backsource. It should be noted, though, that the variable does have a significant direct impact on inclination to backsource ($\beta = -0.25$, $p < 0.001$). Further, in support of Hypothesis 3, expected financial loss moderates negatively the effect of offshoring dissatisfaction ($\beta = -0.19$, $p < 0.001$); as captured in Figure 2, there is less inclination to backsource when there is a higher expected financial loss. Further, there is also support for Hypothesis 4. The relevant interaction term is negative ($-\beta = 0.14$, $p < 0.05$) and, as illustrated in Figure 3, with growing levels of offshoring dissatisfaction, there is less inclination to backsource when there are higher levels of expected service quality decline. Further, Hypothesis 5 is also supported – political climate has a significant moderation effect ($\beta = 0.14$, $p < 0.05$). As seen in Figure 4, as dissatisfaction with offshoring increases, there is greater inclination to backsource if the political climate is more in favor of backsourcing. Surprisingly, there is no support for Hypothesis 6 – the negative interaction term ($\beta = -0.18$, $p < 0.05$) in Table 3 and the plot in Figure 5 indicate that as dissatisfaction with offshoring increases, there is less inclination

to backsource when there is more financial slack. We discuss this unexpected result in the next section.

-----PLACE FIGURES 2, 3, 4 AND 5 ABOUT HERE -----

6. Discussion

While the backsourcing of offshored operations is on the rise, there has not yet been much research on firms' motivations for considering backsourcing, the factors that affect their tendency to backsource, and the consequences of backsourcing behavior. In this article, we draw on the behavioral theory of the firm (BTF) to explore in particular why firms that are alike in terms of their decisions to offshore some of their value-chain activities nevertheless differ in their inclination to backsource. Building on the core tenet of BTF that decision making in firms is guided by performance aspirations, problemistic search, managerial expectations, politics, and availability of slack, in this article we put forward a model which suggests that dissatisfaction with offshoring when performance aspirations are not met will fuel a firm's inclination to backsource. The model also suggests that the effect of dissatisfaction with offshoring on the inclination to backsource will be conditioned by managerial expectations regarding technical challenges, financial losses, and decline in quality following back sourcing, as well as by internal political support for back sourcing and the financial slack a firm has.

Analysis of data from firms located in diverse industries in the U.S. and U.K. provides support for the model. As theorized, unsatisfactory experience of offshoring appears to have a strong positive effect on firms' future inclination to backsource, a result wholly consistent with

BTF's assertion that a failure to achieve performance aspirations triggers decision makers with bounded rationality to look for a satisfactory alternative strategy to improve performance (Cyert & March, 1963; Tyler & Caner, 2016). Interestingly, the result suggests the surge in backourcing in recent years may reflect problem-driven search by managers rather than rational planning based on systematic evaluation of the long-term threats and opportunities associated with different sourcing alternatives – for example, investing more in current offshoring relationships, switching vendors, or moving to a new offshore location (cf. Bhagwatwar et al., 2011; Veltri et al., 2008). Furthermore, as we had theorized, managerial expectations seem to be an important moderator of the effect of dissatisfaction with offshoring on the inclination to backsource; this is in line with BTF's argument that limits to human rationality imply that decision-makers' determine their preferred solution to a problem based on their subjective perceptions of the environment, rather than on an objective cost-benefit analysis.

Interestingly, while the level of expected difficulty of reintegrating offshored operations with in-house operations was found to be inversely related to the inclination to backsource, it did not attenuate the positive relationship between offshoring dissatisfaction and the inclination to backsource. The negative direct effect is in keeping with what others have found in case study research, namely that technical reintegration is a major issue for firms who have decided to backsource (Bhagwatwar et al., 2011; Ejodame & Oshri, 2017). As theorized, we found that higher levels of expected financial loss or decline in quality reduced the effect of dissatisfaction with offshoring on the inclination to backsource. Although these results underscore the significance of financial costs and quality issues in sourcing decisions, these results are new to the literature, which has typically linked outsourcing and offshoring decisions to actual cost and

quality outcomes (cf. Veltri et al., 2008; Whitten & Leidner, 2006). The present study indicates that, in line with the BTF (e.g., Gavetti et al., 2012), decision-makers' expectations about costs and changes in quality are also relevant factors in decisions concerning a switch in sourcing strategy from offshoring to back sourcing.

We also found that political backing for back sourcing strengthens the effect of dissatisfaction with offshoring on a firm's inclination to back source. In the BTF, politics are deemed to be important in identifying a satisfactory solution, in that a course of action which enjoys broad support in a firm should keep conflict at bay (Cyert & March, 1963; Gaba & Joseph, 2013). In the traditional view of back sourcing, explanations for why firms do or do not back source usually focus largely on the rational economic logic of costs and benefits; the effect of politics that we report brings to the literature a new element, which centers on subgroup processes and relationships. As organizational structure, resource allocation, distribution of power, and social relations more generally are likely to change when a firm back sources (e.g., Overby, 2005), politics is a significant factor in sourcing decisions that one cannot afford to overlook. Surprisingly, while our prediction was that financial slack would amplify the effect of dissatisfaction with offshoring by providing a buffer to facilitate back sourcing (Cyert & March, 1963; Salge, 2011), we found the opposite. To explain, slack may engender a complacent mode of thinking, working against a sense of urgency to look for a different sourcing approach (cf. Desai, 2016). Relatedly, managers may believe that slack will allow them to resolve their dissatisfaction with offshoring by making additional investments – for example, by investing in the implementation of more controls (e.g., Kang, Wu, Hong, & Park, 2012).

6.1. Contributions to the literature

This article contributes to the literature on offshoring decision-making by addressing the crucial *what* and *why* questions that feature in this Special Issue's call for papers. With reference specifically to the *what* question, the article sheds light on the managerial and organizational factors that can influence a firm's decision to backsource. Here it expands the scope of past theoretical inquiry by going beyond earlier studies, which have typically used a TCE or RBV lens and laid emphasis on examining rational cost and quality considerations that are assumed to guide sourcing decisions (cf. Lewin et al., 2009; Vivek et al., 2008). By building on the behavioral theory of the firm, we throw new light on the importance for sourcing decisions of managers' expectations or beliefs about the likely pay-off of changing the firm's sourcing strategy. In doing so, we draw attention to an important issue connected to decision making that has not received much recognition in the outsourcing and offshoring literature, namely that managerial perceptions or biases can be influential in affecting firms' sourcing decisions.

In addition to being, as this study shows, a relevant factor in decisions over whether to continue to offshore or to backsource, managerial biases are likely to be relevant more generally to the question of *why* firms choose to "make" or "buy" in the first place. This is because managers' expectations regarding the returns to be gained from these alternative sourcing strategies are likely to be determined, at least partly, by subjective elements such as their own personality (e.g., optimism and sense of self-efficacy), experiences (e.g., past successes and failures), and values. The article also adds to the literature by throwing light on a second important factor likely to affect sourcing decisions. Just like other strategic decisions (see Desai, 2016; Gaba & Joseph, 2013), sourcing decisions are not arrived at in a vacuum. Decision making

and decision makers in companies are immersed in multi-level social and political relations and dynamics. This article highlights the fact that *why* firms choose one sourcing strategy over another can be a function of organizational politics. By contributing these insights, overall, the article expands our understanding of sourcing decisions, enriches the offshoring literature, and opens up new avenues for further inquiry and dialogue on backsourcing.

6.2. Implications for practitioners

At a practical level, for decision makers who have to choose whether to continue offshoring or to backsource, this study pinpoints the particular set of factors that need to be considered to reach a sound decision. Moving from offshoring to backsourcing implies a radical change in strategy, and implementing the strategy is likely to be a complex technical and social process with important economic consequences (see, for example, Kotlarsky & Bognar, 2012). Those in charge would do well, therefore, to consider first whether dissatisfaction with offshoring can be addressed by, for example, resetting performance targets, renegotiating contracts, or through dispute resolution and relationship building (see, for example, Herath & Kishore, 2009; Oshri et al., 2015). As regards the backsourcing option, decision makers could seek to supplement their gut feelings and perceptions about the potential consequences of backsourcing with more detailed assessments, in which they draw on all the information and expertise that can be marshaled by engaging with those who will be involved with or affected by backsourcing (cf. Veltri et al., 2008). A detailed feasibility study could, for example, provide greater clarity regarding the quality changes that might be expected and the time that will be needed to rebuild quality should it decline following backsourcing. In addition, the article points to the importance of managing internal politics. If intuition and data suggest that backsourcing is likely to be the

better alternative, a more favorable climate for back sourcing should result if decision makers articulate a narrative and plan in which they anticipate the concerns of those who will be affected and demonstrate in a credible way how those concerns will be addressed. In this respect, decision makers need to think about how best to earmark the available financial slack to absorb the costs of back sourcing and alleviate concern.

6.3. Limitations and suggestions for future research

Although back sourcing by firms is receiving increased attention in academic circles and in the media, in the outsourcing and offshoring literature it is the least understood type of sourcing decision. One reason for this is that firms usually refrain from disclosing information about back sourcing to avoid jeopardizing relationships with suppliers and admitting that their offshoring decisions and investments have not been successful. Against this backdrop, while our research provides new insights into why firms that are dissatisfied with offshoring tend to differ in their inclination to back source, the data we obtained from decision makers could not be supplemented with secondary data in order to provide a greater level of confidence in the study's results. Future research that can overcome this specific limitation would therefore be of great value.

Also, our study only examined firms' *inclination* to back source. To build a fuller understanding, it would therefore be very useful for future work to examine also the actual back sourcing of activities. It is conceivable that firms dissatisfied with offshoring might attempt to deal with the situation by searching for and entering into contracts with new offshore service providers. This follows from our unexpected finding that firms with more financial slack are less

inclined to backsource, despite their dissatisfaction with offshoring. Given the challenges that backsourcing entails, it is plausible that resource-rich firms may prefer to find new service providers rather than backsource. Future work that investigates this would improve our understanding.

In this study, we used data only from firms in the U.S. and in the U.K. While these two countries are the largest consumers of offshore outsourcing services in the world, other countries and regions are beginning to spend more on offshoring – a case in point are the Nordic countries in Europe. In light of this, it would be useful to study the backsourcing decisions of firms that are located in other countries/regions but that have accumulated significant offshoring experience. Clearly, much more research is needed to develop a better understanding of the backsourcing phenomenon, how it varies around the globe, and what factors allow firms to backsource successfully. We hope that this inquiry will stimulate many others.

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TABLES AND FIGURES

TABLE 1.

Sample information

Descriptor		Frequency	Percentage
Country:	U.S.	99	51
	U.K.	97	49
Total Assets	Up to \$ 50 million	37	18.8
	\$ 50 million to \$ 150 million	73	37.2
	More than \$ 150 million	86	44.8
Business Sector	Commercial	23	11.7
	Distribution & logistics	30	15.3
	Electronics	22	11.2
	Energy	15	7.6
	Financial services & insurance	39	19.8
	Manufacturing	30	15.3
	Media & telecommunications	20	10.2
	Pharmaceutical	17	8.6
Offshore-Outsourced Activities (not mutually exclusive)	Business processes (customer-related, engineering, finance & accounting, human resources, procurement, R&D)	277	
	IT development & maintenance (application development, application maintenance, data center, infrastructure)	333	

TABLE 2.

Descriptive statistics and correlations

Variable	Mean	SD	1	2	3	4	5	6	7	8	9	10	11	12	13
1. Firm location	0.51	0.50	1.00												
2. Firm size (assets)	6.69	1.84	-0.05	1.00											
3. Firm global revenue	6.37	2.35	0.01	0.79	1.00										
4. Offshored amount	6.32	1.86	0.05	0.50	0.51	1.00									
5. Backsourcing experience	0.42	0.49	-0.07	-0.03	-0.10	-0.02	1.00								
6. Tenure length	6.03	1.52	0.05	0.18	0.15	0.20	-0.00	1.00							
7. Dissatisfaction with offshoring	3.33	1.12	-0.23	0.14	0.07	-0.09	-0.01	-0.14	1.00						
8. Expected reintegration difficulties	4.38	1.42	0.23	-0.11	0.06	0.04	-0.18	0.05	-0.48	1.00					
9. Politics favorable to backsourcing	3.38	1.35	-0.24	0.05	-0.01	0.02	0.18	0.02	0.23	-0.41	1.00				
10. Available financial slack	4.73	1.43	0.24	0.05	0.06	-0.01	-0.18	-0.03	-0.23	0.34	-0.55	1.00			
11. Expected financial loss	3.73	1.53	-0.18	0.03	-0.05	0.02	0.26	-0.13	0.36	-0.35	0.34	-0.43	1.00		
12. Expected decline in quality	4.49	1.37	0.10	-0.16	-0.06	0.08	-0.07	0.07	-0.61	0.50	-0.11	0.13	-0.25	1.00	
13. Inclination to backsource	3.03	1.05	-0.24	0.08	-0.06	-0.16	-0.11	-0.17	0.62	-0.50	0.17	-0.26	0.19	-0.48	1.00

N = 196; correlation coefficients above 0.14 in absolute value are significant at the 5% level and those above 0.18 in absolute value are significant at the 1% level.

TABLE 3.

Structural equation model (SEM) results for inclination to backsource

	Path	Estimate	S.E.
<i>Controls</i>			
Firm location	→ Inclination to backsource	- 0.16	0.11
Firm size (assets)	→ Inclination to backsource	0.11	0.05*
Firm global revenue	→ Inclination to backsource	- 0.10	0.04*
Offshored amount	→ Inclination to backsource	- 0.03	0.03
Backsourcing experience	→ Inclination to backsource	- 0.21	0.11*
Tenure length	→ Inclination to backsource	- 0.10	0.04**
<i>Main effects</i>			
Dissatisfaction with offshoring (DISO) [H 1]	→ Inclination to backsource	0.57	0.08***
Expected technical difficulties of reintegration	→ Inclination to backsource	- 0.25	0.07***
Expected financial loss	→ Inclination to backsource	- 0.23	0.06***
Expected decline in quality	→ Inclination to backsource	- 0.02	0.07
Politics favorable to backsourcing	→ Inclination to backsource	0.17	0.07*
Available financial slack	→ Inclination to backsource	- 0.20	0.07*
<i>Moderation effects</i>			
DISO * expected technical difficulties of reintegration [H 2]	→ Inclination to backsource	- 0.08	0.06
DISO * expected financial loss [H 3]	→ Inclination to backsource	- 0.19	0.06***
DISO * expected decline in quality [H 4]	→ Inclination to backsource	- 0.14	0.06*
DISO * politics favorable to backsourcing [H 5]	→ Inclination to backsource	0.14	0.07*
DISO * available financial slack [H 6]	→ Inclination to backsource	- 0.18	0.07*

N = 196; * p ≤ .05; ** p ≤ .01; *** p ≤ .001

FIGURE 1.
Conceptual model and hypotheses

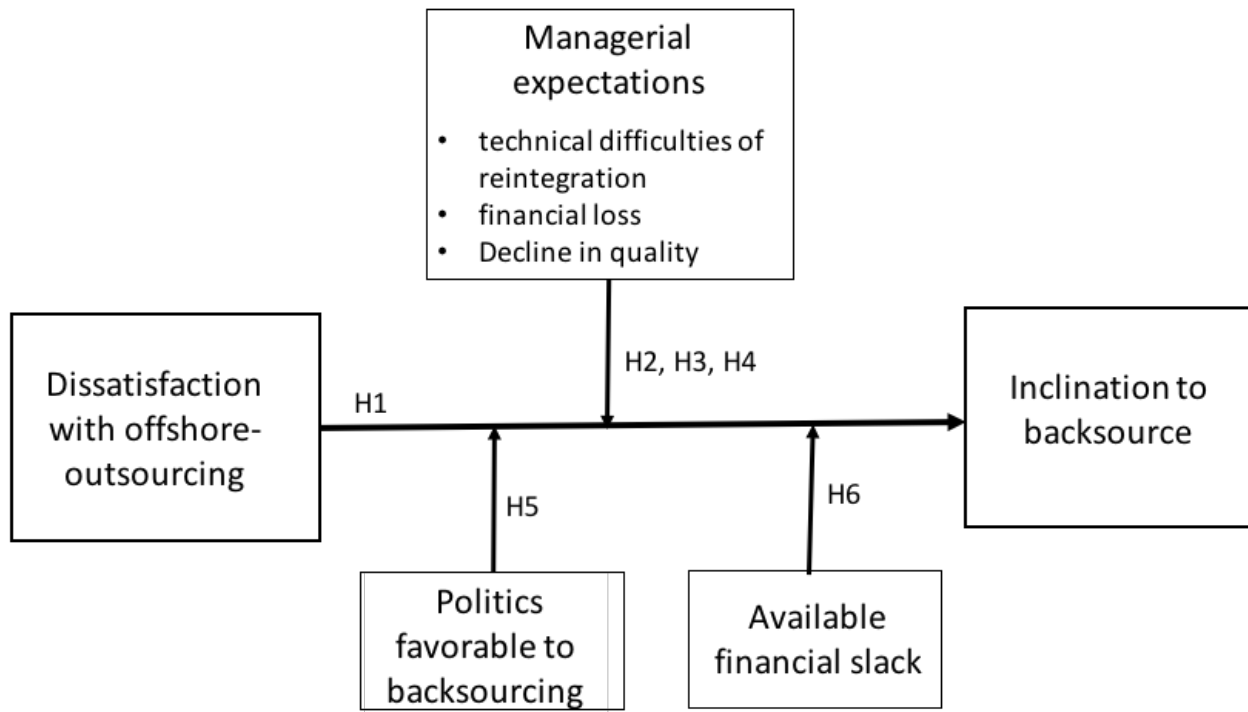


FIGURE 2.
Moderation effect of expected financial loss

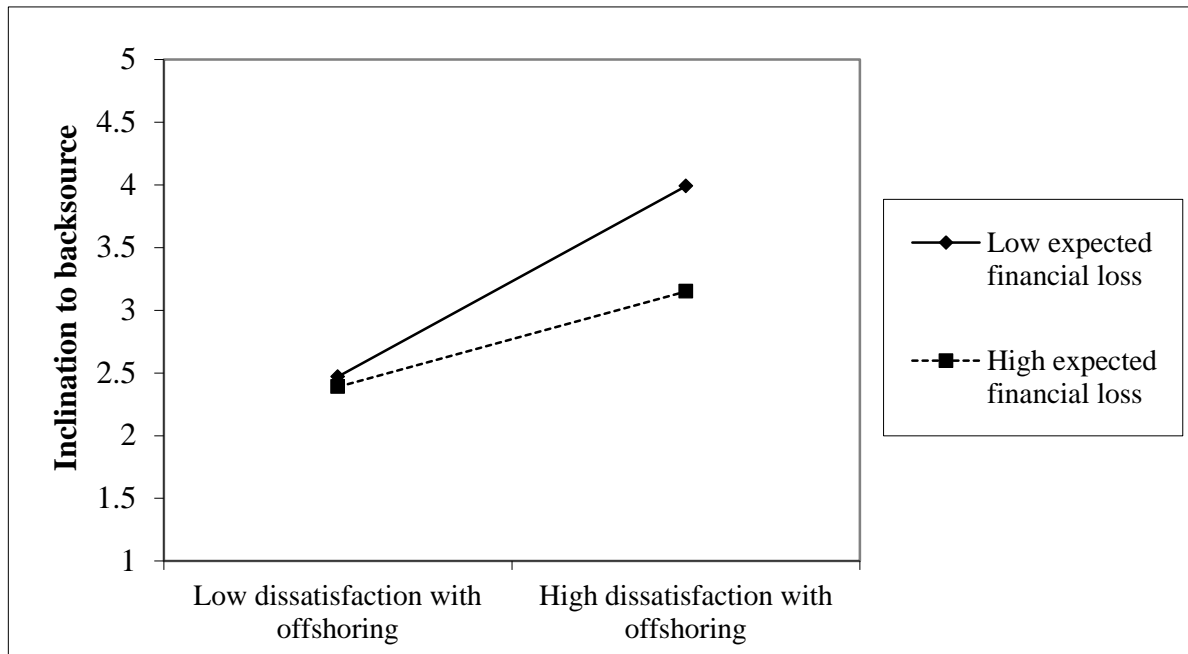


FIGURE 3.
Moderation effect of expected decline in quality

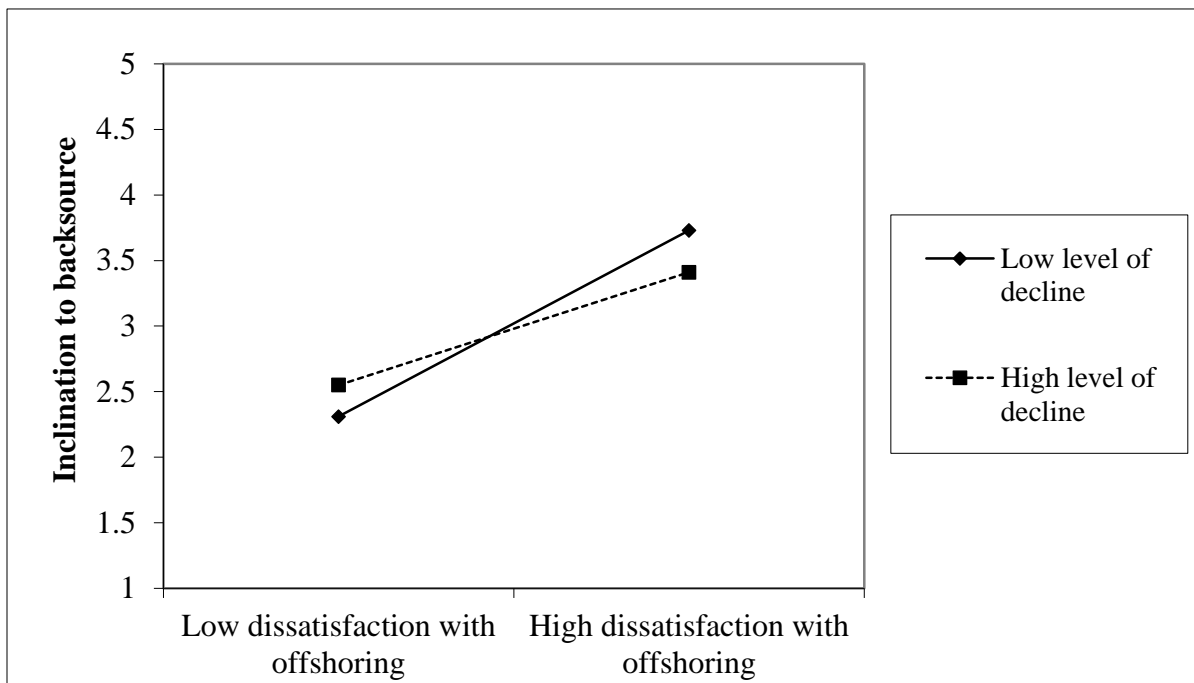


FIGURE 4.
Moderation effect of political climate favorable to back sourcing

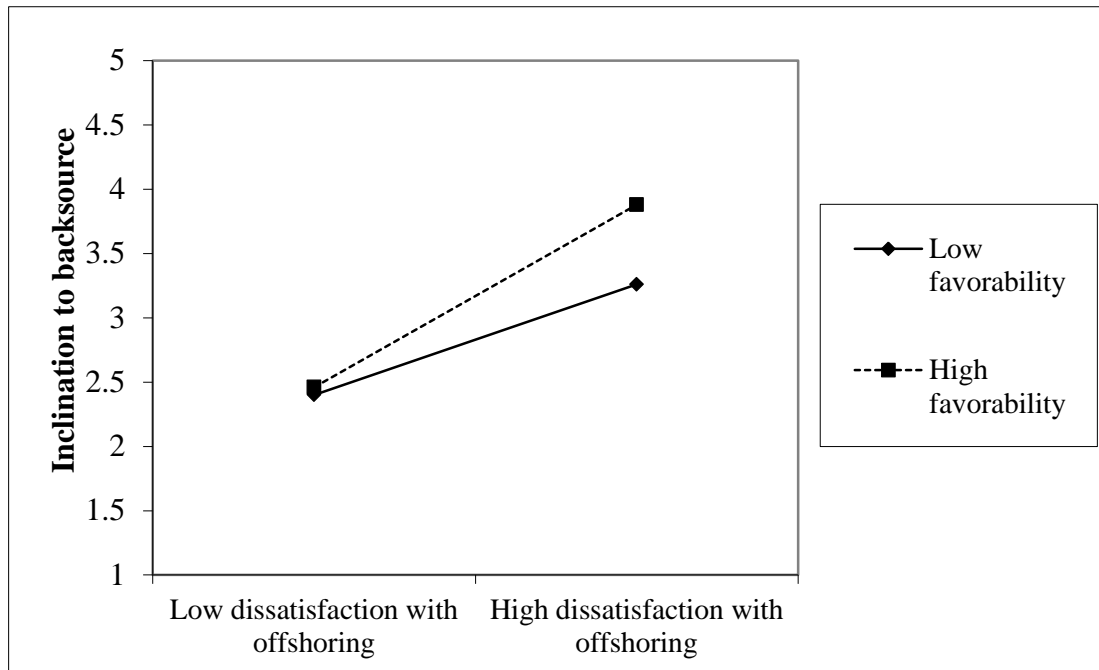


FIGURE 5.
Moderation effect of available financial slack

