Organizational Ambidexterity, Exploration, Exploitation and Firms Innovation Performance

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Background and Purpose: The construct of organizational ambidexterity (OA) has attracted the growing attention in management research. Previous empirical research has investigated the effect of organisational ambidexterity on performance from various perspectives. This study aims to resolve the contradictory previous research findings on the relationship between organisational ambidexterity and innovation performance. We unpack this construct with combined dimension of ambidexterity, which relates to a combination of high levels of both exploration and exploitation (introduction of products or services that were new to the market and new to the firm).

Methodology: We frame our ambidexterity hypothesis in terms of firm’s innovation orientation. The hypothesis is tested by using Community Innovation Survey (CIS) 2006 micro data at the organizational level in twelve countries. To operationalize an ambidexterity and firms innovation outcome, we used self-reported measures of innovativeness.

Results: To test our hypothesis, we developed a set of models and tested them with multiple hierarchical linear regression analyses. The results indicate that exploration and exploitation are positively related to firm’s innovation performances which supports our assumption that both are complementary. Furthermore, we find that above and over their independent effects, through combining them into a single construct of organizational ambidexterity, this variable remains negatively and significantly related to innovation performance.

Conclusion: These results provides the managers with an idea of when managing trade-offs between exploration and exploitation would be more favorable versus detrimental. For firms with lower organizational ambidexterity, the relationship between exploration-exploitation and the firm’s innovation performance is a more positive one.

Keywords: organizational ambidexterity, exploration, exploitation, innovation performance

1 Introduction

A major challenge for firms is to simultaneously pursue both explorative (radical) and exploitative (incremental) innovation and thereby remain competitive on a long-run (March, 1991). The general agreement in the literature is that ambidextrous firms are those who are capable of both exploiting existing competencies and in the same time exploring new opportunities. Scholars in general agree with this original premise, but that is where the consensus in ambidexterity research comes to a halt. Moreover, beyond these points of agreements, there is considerable ambiguity and some vagueness regarding the nature of exploration and exploitation, and conversely ambidexterity construct (Cao, Gedajlovic, and Zhang, 2009; Junni, Sarala, Taras, and Tarba, 2013; O’Reilly and Tushman, 2013).

The main argument in OA research is that firms – whether through combined or balanced OA are more like-
ly to achieve better performance effects compared to ones who emphasize one activity over one (Junni et al., 2013; Raisch and Birkinshaw, 2008). However, the empirical evidence on the effects of OA on performance is still mixed (Junni et al., 2013). While one group of scholars have found a positive relationship (Gibson and Birkinshaw, 2004; He and Wong, 2004; Lubatkin, Simsek, Ling, and Veiga, 2006), others have found a negative relationship (Atuahene-Gima, 2005; Atuahene-Gima and Murray, 2007), or no relationship at all (Venkatraman, Lee, and Iyer, 2007).

Both exploration and exploitation have been shown to positively affect organizational performance (Hernández-Esparlardo, Sánchez-Pérez, and Segovia-López, 2011). Thus, a firm that engages in both exploration and exploitation is expected to maintain innovation, achieving reliability while enabling organizational renewal and thus enjoying enhanced performance (Stettner and Lavie, 2013). Some scholars have argued that exploration and exploitation are mutually exclusive, indicating that relationship between exploration and exploitation is negative. In the other hand, Gupta, Smith, and Shalley (2006) argued that this not is necessary true and that relationship between exploration and exploitation may be positive.

In this paper, we embrace this suggestion and argued that both exploration and exploitation are associated with some amount of learning and innovation, albeit of different types (Baum, Calabrese, and Silverman, 2000; Benner and Tushman, 2002; Gupta et al., 2006; He and Wong, 2004). While being distinct sets of activities that rely on specific knowledge and capabilities (Kammerlander, Burger, Fust, and Fueglistaller, 2014; March, 1991; Raisch, Birkinshaw, Probst, and Tushman, 2009), complementary perspective seems appropriate. More specifically, we aim to examine the following research questions: What is the effect of a firm’s exploration and exploitation activities on the firm’s innovation performance, and what is the effect of organizational ambidexterity on this relationship?

Our study contributes to the literature in several ways. First and foremost, we advance research on organizational ambidexterity (Raisch and Birkinshaw, 2008), which focuses on the performances implications of a firms engagement in both exploration and exploitation. As such, our findings complement to greater clarity to the treatment of ambidexterity. Further, by studying how the effect of these distinct processes as mutually supportive enhances firm’s innovation performance. Our empirical results partly support these expectations. Data from the Community Innovation Survey (CIS 2006) show that correlation between exploration and exploitation is positive and significant, which supports our assumption that exploration and exploitation are complementary variables, rather than two ends of a continuum. This paper proceeds as follows. In what follows, we develop theory with respect to the relationship between exploration, exploitation, organizational ambidexterity and innovation performance followed by the methodology section, which explains the empirical approach. The research results are reported followed by a discussion of the implications of our study for theory and practice and suggested directions for future research.

2 Theory and hypotheses

2.1 The concept of organizational ambidexterity

A growing number of studies argue that organizational ambidexterity is increasingly important for the sustained competitive advantage of firms (Junni et al., 2013). The original meaning of ambidexterity, i.e. an individual’s capacity to be equally skilful with both hands, has become surprising well adapted to organization setting, broadly defined as an organization’s capacity to do two different things equally well (Birkinshaw and Gupta, 2013), or to pursue both explorative and exploitative innovation (O Reilly and Tushman, 2004). This construct is now generally used in a wide variety of methodological setting, but March (1991) introduces concepts of exploration and exploitation to the management literature.

In March s characterization exploitation is related to “refinement, choice, production, efficiency, selection, implementation and execution” opposing it to exploration, which involves “search, variation, risk-taking, experimentation, play, flexibility, discovery, and innovation” (p. 71). Many scholars have started using ambidexterity as an integral construct to hallmark a firm’s dual orientation with respect to the exploration and exploitation (Cao et al., 2009; Gibson and Birkinshaw, 2004; Tushman and O’Reilly, 1996). For instance, Lubatkin et al. (2006) define an ambidextrous organization as capable of exploiting existing competencies as well as exploring new opportunities. March (1991) conceptualize exploration and exploitation as two ends of continuum and therefore claimed that both must be fundamentally incompatible and will generally be mutually exclusive. One of the reasons of tensions between two activities is that both compete for scarce organizational resources (Gupta et al., 2006). If firm decides to invest more resources in exploitation logic dictates that fewer resources are left for exploration. Even though March conceptualization is indisputable, several scholars extended argument by threating exploration and exploitation as simultaneously achievable and thus orthogonal (Koza and Lewin, 1998; Rothaermel, 2001; Rothaermel and Alexandre, 2009).

This leads to the most notable differences in the conceptualization of OA construct. Concerning the March balance perspective, an OA can is an optimal point, on a continuum with exploration lying at one end and exploration...
on the other (Cao et al., 2009; March, 1991). Alternatively, proponents of orthogonal view, claim that they should be viewed as two separate and independent dimensions of firm activities (Gibson and Birkinshaw, 2004), implying that the combination of high levels of both exploration and exploitation should be achieved to maximize OA (Cao et al., 2009; Simsek, 2009). In this view, ambidexterity has been described as the capacity of the firm to pursuit high levels of both exploration and exploitation (Jansen, Simsek, and Cao, 2012; Lavie and Rosenkopf, 2006) rather than managing trade-offs to achieve an optimal balance between exploration and exploitation.

As firms are competing for limited resources they are faced with a trade-off situation, either “success trap” or a “failure trap” (March, 1991), a situation where a firm decides to invest heavily in exploitation, has fewer resources available for exploration and vice versa (Stadler, Rajvani, and Karaba, 2014). This one-path solution can be especially harmful for firms, especially for resource-constrained firms. In intra and inter-organizational contexts, scholars disagree concerning whether a particular difference in operationalization of balance between exploration and exploitation should be characterized as a binary, difference of kind or as a continuum – a difference of degree.

Although the transition from exploration to exploitation is gradual, the difference between these activities is often a matter of degree (Stettnner and Lavie, 2013). This transitivity leads to the conceptualization of exploration and exploitation along a continuum (Lavie, Stettnner, and Tushman, 2010). As distinction of exploration and exploitation call for conceptualization as continuum involving shades of explore-exploit, but often much hinges on which level (i.e., individual, intraorganizational, or interorganizational) these concern is exerted. Gupta et al. (2006) recommend approaching carefully in testing performance implications of pursuing exploration and exploitation activities, because the measurement of OA greatly vary across studies (Junnii et al., 2013).

We embrace these upfront conflicting recommendations. The pursuit of exploration and exploitation is an inherently difficult task due to their opposite nature, because what drives the former is different from that which drives the latter (O’Reilly and Tushman, 2008; Raisch et al., 2009). Although March (1991) presumes that a continuum balanced approach of both exploration and exploitation is essential for performance, the literature is still inconclusive with regard to the specific effects of these different activities on firms innovation performance.

In our paper, we follow extant research (Gibson and Birkinshaw, 2004; Lavie et al., 2010) in assuming that both activities, while being distinct sets of activities that rely on specific knowledge and capabilities (Kozan and Lewin, 1998; O’Reilly and Tushman, 2008; Raisch and Birkinshaw, 2008) are complementary activities (Kammerlander et al., 2014). The complementary perspective claims that exploration and exploitation are independent dimensions, but positively correlated and the underlying rationale behind this perspective is that firms benefit from previous investments in exploration process when making subsequent investments in the exploration ones. In sum, exploration and exploitation are complementary activities, as resources released through successful exploitation activities can furnish future exploratory activities (Bierly and Daly, 2007) Thus, there may be a synergistic effect between the two as well, and hence there is a need for firms to manage the balance between the two (He and Wong, 2004). Also in support of this view, Blindenbach-Driessen and Ende (2014) found support for orthogonal treatment of exploration and exploitation. Moreover they argued that exploratory innovation will lead to ideas for exploitation and thus facilitate a culture for innovation, which is also beneficial for exploitative innovation. Therefore, we hypothesize:

H1: Exploration is positively related to firm’s innovation performance.
H2: Exploitation is positively related to firm’s innovation performance.

2.2 Ambidexterity dimensions (exploration and exploitation) and innovation performance

Benner and Tushman (2002) argued that exploitative innovations involve improvements in existing components and build on the existing technological trajectory, whereas exploratory innovation involves a shift to a different technological trajectory. In in the same line, He and Wong (2004) defined exploitative innovation as technological innovation activities aimed at improving existing product-market domains and exploratory innovation as technological innovation aimed at entering new product-market domains. The combined OA perspective proposes that high levels of both exploration and exploitation will enhance performance. With maintaining efficiency high in current operation, simultaneously new opportunities can be identified and captured in high level (Junnii et al., 2013).

In such situations, firms can prevent organizational inertia (Simsek, 2009). As a consequence, combined ambidexterity involves a firm’s effort to increase the combined magnitude of both exploratory and exploitative activities (Cao et al., 2009). One group of scholars stipulated that exploration and exploitation are fundamentally different logics that create tensions (Lavie et al., 2010; March, 1991) and that balance occurs when we match the magnitude of two types of activities (Lavie et al., 2010)(Lavie).

For instance, He and Wong (2004) argued the relative imbalance (measured as absolute difference) between exploration and exploitation is negatively related to sales
growth rate, while the interaction between exploration and 
exploitation is positively related to sales growth rate. Gupt 
a et al. (2006) point out an idea that both activities are 
not necessary in conflict. Exploration and exploitation can 
enhance each other because they can take place in com 
plementary domains, which do not necessary, compete for 
the same resources (Gupta et al., 2006). Moreover, due to 
their basic incompatible nature (March, 1991) they require 
substantially different processes, structures, cultures and 
capabilities, and conversely affect performance different 
ly (He and Wong, 2004; O’Reilly and Tushman, 2008; 
Raisch and Birkinshaw, 2008).

**H3:** Ambidexterity is positively related to firm’s innovation performance.

### 3 Methods

#### 3.1 Measures

We used CIS 2006 micro data (company level) for the main explanatory variables and control measures. The Community Innovation surveys (CIS) from different countries were used (i.e. Bulgaria, Cyprus, Czech Republic, Estonia, Norway, Portugal, Romania, United Kingdom, Slovakia, Slovenia, Spain and Switzerland).

**Exploration and Exploitation.** To operationalize exploration and exploitation we used questions from the Community Innovation Survey (CIS). Organizational ambidexterity is an integrative construct of exploration and exploitation, and therefore measure of ambidexterity is based on measures, exploration and exploitation. We followed the approach used by most ambidexterity studies (Cao et al., 2009; He and Wong, 2004; Lubatkin et al., 2006; Tushman and O’Reilly, 1996). The exploration and exploitation variables were framed in terms of firms innovation orientation, that is, its orientation towards introduction of new products or services that were technologically new to market (i.e. exploration) and/or the instruction of products or services that were technologically improved versions of existing ones e.g. new to the firm (i.e. exploitation).

**Ambidexterity.** We measured organizational ambidex 
terity – using exploration and exploitation variables. To operationalize ambidexterity we multiply exploration and exploitation. To mitigate the potential for multicollinearity we mean centred the exploration and exploitation variables before obtaining their product. This measurement is in line with generally accepted measures in ambidexterity literature. This measure is adapted from He and Wong (2004), Gibson and Birkinshaw (2004) and Cao et al. (2009) who used it in similar operational approach.

**Firms Innovation Performance.** To operationalize firm innovation performance, we follow the approach of previous studies that have conceptualized this variable using CIS data (Blindenbach-Driessen and Ende, 2014; Laursen and Salter, 2006; Oerlemans, Knoben, and Pre 
torius, 2013). Innovation performance is operationalized with one combined measure through which firm were asked to indicate the percentage of turnover introduced during 2004 to 2006 that is attributable to (1) products and services that are totally new-to-the-firm and (2) products and services that are new new-to-the-market. Originally, CIS question combines two latter categories and one more – products that stayed the same or had only minor modifications over the period 2004–2006. We believe that latter two categories capture essence of innovative performance, so we excluded this category from research. Furthermore, definitions of exploration and exploitation were included just before this CIS question to make sure that respondents interpret these categories in the same way and to improve construct validity (de Leeuw, Lokshin, and Duysters, 2013).

We included several control variables in the analy 
sis. Firm size was used as a control variable. We follow 
prior study and calculated it as the logarithm of the num 
ber of employees in 2006. In line with Černe, Jaklič, and 
Škerlavaj (2013), geographic scope is operationalized as 
local (0), regional (1), national (2), or international (3). The variable R&D intensity is calculated by dividing the R&D expenditures by the turnover (Blindenbach-Driessen and Ende, 2014).

![Figure 1: Research model with hypotheses](image_url)
4 Results

4.1 Hierarchical regression analysis results

Descriptive statistics and correlations for all variables are provided in Table 1. The correlation between exploration and exploitation is positive and significant (.19; p<.01), which is in line with prior studies (Kammerlander et al., 2014), which provides our strong preliminary indication that exploration and exploitation are complementary rather than two end of a continuum. All individual variance inflation factors (VIF) were below 2 and thus below the critical value of 10.

To test our hypothesis, we developed a set of models and tested them with multiple hierarchical linear regression analyses. Model 1 in Table 2 reports the main effects of the control variables on innovation performance. Model 2 adds the main effects of exploratory and exploitative activities, which contribute 32% over the variance explained by the control variables. Model 3 adds their interaction term. First, we added exploration as a first predictor of innovation performance. The results show that exploitation is significantly and positively (thus, supporting Hypothesis 1) related to innovation performance (model 2: b = .20, s.e. = .00, p <.01). Exploitation, second predictor in the model 2 was positively and significantly related to innovation performance (model 2: b= .32, s.e. = .00, p<.01). Therefore, Hypothesis 2 is also supported. Model 3 shows that the interaction effect between the two innovation activities on firms innovation performance is negative, but significant (b = -.32, s.e. = .01, p <.01). Thus, Hypothesis 3 is not supported.

Table 1: Means, Standard Deviations, and Correlations

<table>
<thead>
<tr>
<th>Variable</th>
<th>Mean</th>
<th>SD</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
</tr>
</thead>
<tbody>
<tr>
<td>Innovation performance</td>
<td>0.21</td>
<td>0.33</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Geographic scope</td>
<td>0.26</td>
<td>0.44</td>
<td>0.08**</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Firm size (log)</td>
<td>0.62</td>
<td>0.71</td>
<td>0.00</td>
<td>0.33**</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>R&amp;D intensity</td>
<td>0.17</td>
<td>11.71</td>
<td>0.02**</td>
<td>0.01</td>
<td>0.00</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Exploration</td>
<td>0.27</td>
<td>0.45</td>
<td>0.34**</td>
<td>0.17**</td>
<td>0.11**</td>
<td>0.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Exploitation</td>
<td>0.42</td>
<td>0.49</td>
<td>0.51**</td>
<td>0.16**</td>
<td>0.09**</td>
<td>0.01*</td>
<td>0.19**</td>
<td></td>
</tr>
<tr>
<td>Ambidexterity</td>
<td>0.04</td>
<td>0.22</td>
<td>-0.11</td>
<td>0.02**</td>
<td>0.05**</td>
<td>-0.01*</td>
<td>0.21**</td>
<td>0.09**</td>
</tr>
</tbody>
</table>

* n = 33590. **p < .01, *p < .05

Table 2: Hierarchical regression analyses for innovation performance as the dependent variable

<table>
<thead>
<tr>
<th>Variables</th>
<th>Innovation performance</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Model 1</td>
</tr>
<tr>
<td></td>
<td>b</td>
</tr>
<tr>
<td>Geographic scope</td>
<td>0.07**</td>
</tr>
<tr>
<td>Firm size (log)</td>
<td>t</td>
</tr>
<tr>
<td>R&amp;D intensity</td>
<td>0.00**</td>
</tr>
<tr>
<td>Exploration</td>
<td>0.20**</td>
</tr>
<tr>
<td>Exploitation</td>
<td>0.32**</td>
</tr>
<tr>
<td>Ambidexterity</td>
<td>-0.32**</td>
</tr>
<tr>
<td>R²</td>
<td>.01</td>
</tr>
<tr>
<td>F (df)</td>
<td>89.05 (33586,3)</td>
</tr>
<tr>
<td>ΔR²</td>
<td>.01</td>
</tr>
</tbody>
</table>

**p < .01, *p < .05
5 General discussion and conclusion

While the effects of organization ambidexterity on performance have been of a variety industry and methodological setting, the empirical results have been mixed. Our study aimed to enhance our understanding how exploration and exploitation activities affect the firm’s innovation performance. Specifically, we adopt a combined perspective, and study ambidexterity as the combined magnitude of exploration and exploitation, which correspond to the notion that exploration and exploitation are orthogonal activities, but complementary (Cao et al., 2009). In such orthogonal relation, two types of activities can stimulate each other (Blindenbach-Driessen and Ende, 2014).

The empirical results revealed strong positive effects of exploration and activities on the firm’s innovation performance. These findings extend previous ambidexterity studies and found a positive correlation between exploration and exploitation, which supports the view that exploration and exploitation have an orthogonal relationship and thus complements each other.

Empirically, unpacking the ambidexterity construct into exploration and exploitation variables has proven to be beneficial as each variable only through their main effect and not interaction with other, has explained innovation performance. In particular, it appears that diminishing returns occur when both processes are combined, as is indicated by the negative interactive effect of exploitative and exploratory activities on firm’s innovation performance. This coincides with Atuahene-Gima (2005) research who has found negative association. In a line with this argument, Nerkar (2003) argued that the notion of balance also implies that high (low).

By contributing to further advancing the exploration-exploitation framework in cross-national firms, we also make a contribution to the international management literature. As the large portion of our sample consists of international firms (CIS 2006 micro data: Bulgaria, Cyprus, Czech Republic, Estonia, Norway, Portugal, Romania, United Kingdom, Slovakia, Slovenia, Spain and Switzerland) we contribute to the understanding the exploration-exploitation tensions along mix of different industries and national contexts. Although CIS data might be of doubtful quality in terms of accuracy of exploration and exploitation activities assessment, it leaves a room for further research. Although CIS data may have their shortcomings, they are well accepted by different scholars in exploration/exploitation research.

Literature


Gibson, C. B., & Birkinshaw, J. (2004). The antecedents, consequences, and mediating role of organization-


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Organizacijska prilagodljivost, raziskovanje, izkoriščanje in inovacijska uspešnost organizacije

Ozadje in namen: Raziskave na področju managementa konstruktu organizacijske prilagodljivosti (OA) je namenjajo vse več pozornosti. Prejšnje empirične raziskave so proučevali vpliv organizacijske prilagodljivosti na uspešnost organizacije iz različnih perspektiv. Namen te študije je razrešiti nasprotujoče ugotovitve prejšnjih raziskav o odnosu med organizacijsko prilagodljivostjo in inovacijsko uspešnostjo. Analizirali smo ta konstrukt s kombiniranjem dimenzij organizacijske prilagodljivosti, tj. tako dimenzije raziskovanja kot tudi izkoriščanja (uvajanje proizvodov ali storitev, ki so bodisi novi na trgu bodisi novi v podjetju).

Metodologija: Našo hipotezo organizacijske prilagodljivosti smo postavili v okviru inovacijske usmerjenosti podjetja. Hipotezo smo testirali s pomočjo podatkov na organizacijski ravni v dvajastih državah, ki so bili zbrani v okviru Popisa inovacijske dejavnosti 2006. Da bi operacionalizirali organizacijsko prilagodljivost in inovacijsko uspešnost podjetja, smo tako uporabili samoocene elementov inovacijskega procesa.

Rezultati: Za preverbo hipoteze smo razvili nabor modelov in jih testirali z multiplo hierarhično linearno regresijsko analizo. Rezultati kažejo, da sta obe dimenziji organizacijske prilagodljivosti in raziskovanja - raziskovanje in izkoriščanje pozitivno povezana z inovacijskimi sposobnostmi podjetja, kar podpira našo domnevo, da se na ta način dopolnjujeta. Poleg tega smo ugotovili, da ob kombiniranem obeh dimenzij organizacijske prilagodljivosti ta konstrukt ostaja negativno povezan z inovacijsko uspešnostjo podjetij, poleg neodvisnih učinkov obeh posameznih dimenzij (raziskovanje in izkoriščanje).

Zaključek: Ti rezultati podajajo managerjem podlago za odločanje glede sprejemanja kompromisov med raziskovanjem in izkoriščanjem, saj nakazujejo, v katerih primerih bi bile posledice izključujočih odločitev (z zanemarjanjem bodisi raziskovanja bodisi izkoriščanja) bolj ugodne kot škodljive. Za podjetja z nižjo organizacijsko prilagodljivostjo je razmerje med raziskovanjem/izkoriščanjem in inovacijsko uspešnostjo v podjetju bolj pozitivno.

Ključne besede: organizacijska prilagodljivost, raziskovanje, izkoriščanje, inovacijska uspešnost