

## **Organizational Ambidexterity: Balancing Exploration and Exploitation for Sustainable Competitive Advantage.**

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### **Abstract**

**Background:** Organizational ambidexterity (OA) is defined as a firm's ability to manage both exploration (searching for new opportunities, radical innovation) and exploitation (refining existing capabilities, incremental innovation) simultaneously. . Exploitation in dynamic and uncertain environments is especially significant for developing new innovations and for sustaining competitive advantage over time. Thus, this study intends to address OA by establishing a theoretical framework for OA and exploring two of its core dimensions, exploration and exploitation, and the relationship between these dimensions to achieve sustainable competitive advantage.

**Methods:** A comprehensive literature review was implemented using contemporary empirical articles, seminal literature and established theoretical models on organizational ambidexterity (mostly since 2018 with exceptions related to foundational work). The review will elucidate the evolution of the concept of OA, distinctions of its core dimensions, alternative approaches to achieve ambidexterity (structural, contextual, or leadership), antecedents of ambidexterity, implementation challenges of ambidexterity, implications for performance on organizational outcomes.

**Results:** The study defines exploration (described as searching, discovering, testing, taking risks, changing, and radical innovation) and exploitation (described as optimizing, efficiency, implementations, incremental innovation, and control) as the two essential and sometimes conflicting dimensions of OA. Achieving OA requires a fluid balance or effective integration of the two dimensions. Enablement for dimension balancing includes supportive structures, a culture that supports exploration and exploitation, and ambidextrous leaders who can lead both activities.

**Conclusion:** Organizational Ambidexterity allows firms to be innovative, adaptable, and have sustained competitive advantage by effectively managing the exploration-exploitation paradox. This study demonstrates deeper theoretical connectivity to the OA framework. Future research will help to investigate the subtle mechanics of balancing exploration and exploitation in different organizational contexts, and the changing roles of leaders to foster that valuable capability.

**Keywords:** Organizational Ambidexterity, Exploration, Exploitation, Strategic Management, Innovation, Dynamic Capabilities, Sustainable Competitive Advantage, Ambidextrous Leadership.

## 1. Introduction

Today's global business environment is experience levels of volatility, uncertainty, complexity, and ambiguity (VUCA) at unprecedented levels; requiring organizations to manage a dual imperative of realizing the full potential of their existing capabilities, while simultaneously searching for, and developing, new possibilities for growth in their future (Raisch & Birkinshaw, 2008). This built-in tension between extraction from what you have built, and invention to develop what you will have, are important factors determining organizational survival and long-term success. Moreover, factors such as deteriorating environments, pace of technology change, and increasing rates of development emphasize the need for new strategies for organizational survival. The construct of Organizational Ambidexterity (OA)—firm ability to pursue opportunity on a speculative basis while also pursuing current opportunities in a exploitative fashion—has deep implications within strategic management and organization theory (March, 1991; Tushman & O'Reilly, 1996).

While the significance of OA is understood conceptually, a continuous challenge for researchers and practitioners alike, is understanding the theoretical underpinnings of the OA construct, its operational dimensions, and the policies, programs, and processes organizations can put in place in which to nurture this capacity. Organizations often become entrapped by their own success, getting too comfortable in exploiting existing capabilities while becoming incapable of taking an innovative or exploratory posture (Levinthal & March, 1993; Benner & Tushman, 2003). From the other end of the spectrum, organizations often find themselves exploring possible areas to innovate without being able to commercialize these ideas, which results in organizational inertia and lost opportunity. Critical to advancing OA's research agenda is having a clear and coherent view on OA's definitional underpinnings as it relates to strategic decision-making and organizational design.

This study contributes to this understanding by introducing the theoretical framework and key dimensions of Organizational Ambidexterity. The study will achieve the following objectives:

- Outline the fundamental concepts of exploration and exploitation as the core dimensions of OA.
- Identify how organizations can balance and manage these opposing dimensions of OA (i.e., structural, contextual, and leadership).
- Identify key antecedents and enablers of organizational ambidexterity.
- Understand the relationship between OA and sustainable competitive advantage.

By synthesizing contemporary literature (mainly published since 2018) and foundational theories, this paper will provide a consolidated perspective on the construct of OA. This is important because it presents information that can be systematically used for both academic research and managerial practice, facilitating an organization's ability to contend with the exploration-exploitation paradox, and enhance their ability to innovate and perform over time when the environment is constantly evolving.

This paper is organized as follows: Section 2 provides a conceptual overview of Organizational Ambidexterity. Section 3 describes the methodology of the literature review. Section 4, the main body of the paper addresses the main dimensions of OA — exploration, exploitation, and how organizations balance this. Section 5 outlines the implications of the findings, limitations of the study, and opportunities for future research. Finally, Section 6 of the paper makes a conclusion.

## **2. Concept of Organizational Ambidexterity (OA)**

There is an increasing awareness of the importance and relevance of Organizational Ambidexterity (OA) as a topic in strategic management and organization theory and practice, as firms try to address the need to respond to current market pressures while being prepared for needed future adaptations to disruptive change (March, 1991; Tushman & O'Reilly, 1996). In an increasingly VUCA (volatile, uncertain, complex, ambiguous) global business environment, being ambidextrous- in terms of conceptualizing and governing the present and future-- is increasingly becoming less of an "option" and more of an obligation in order to create organizational viability and success (Raisch & Birkinshaw, 2008; O'Reilly & Tushman, 2013). OA refers to a company's ability to be able to possess high levels of exploration (i.e., activities characterized by search, variation, risk taking, experimentation, playfulness, flexibility,

discovery, and innovation) and exploitation (i.e., activities identified as refinement, choice, production, efficiency, selection, implementation and execution) simultaneously (March, 1991; Gupta, Smith, & Shalley, 2006).

Organizational ambidexterity (OA) entails more than completing two competing tasks. It entails a strategic orientation as well as a dynamic capability that allows organizations to reconfigure their resource base and routines to meet shifting environmental conditions (Teece, Pisano, & Shuen, 1997; O'Reilly & Tushman, 2008). Ambidextrous organizations are those that, "explore new opportunities, while simultaneously exploiting existing capabilities to manage their business portfolio for today and tomorrow" (Raisch, Birkinshaw, Probst, & Tushman, 2009, p. 685). Ambidexterity is dichotomous in that there is a tension between two contradictory tasks - exploring new knowledge versus the efficient use of knowledge that already exists. Both of these efforts tend to compete for the same scarce resources, require different types of thinking, and require different organizational structures and processes. Organizational ambidexterity emphasizes the creating of an organizational system that can accommodate and integrate the two dimensions of ambidexterity: exploration and exploitation; promoting continuity of innovation, adaptability, and sustainable long-term performance (Gibson & Birkinshaw, 2004; He & Wong, 2004). Organization ambidexterity also reduces organizational inertia and competency traps resulting from excessive emphasis on exploitation while at the same time allowing organizations to maintain continuous search (and hence unavoidable risk) associated with exploration and lack of commercialization (Levinthal & March, 1993; Benner & Tushman, 2003). In this regard, OA allows for both the exploitation of existing capabilities and the exploration of new opportunities to augment business viability and growth.

### **3. Methodology**

To review and bring order to the theoretical framework and dimensions of Organizational Ambidexterity, this study applied an extensive review of literature approach. The method is qualitative in nature and conceptual in footings, and aims to build a holistic map using already established literature.

A literature search was engaged using major academic databases: Scopus, Web of Science, ABI/Inform, and Google Scholar. The search terms included: "organizational ambidexterity," "exploration and exploitation," "strategic ambidexterity," "ambidextrous leadership," "innovation paradox," and "dynamic capabilities." The literature was focused on contemporary works, post-2018, to address current thinking and concerns, while also obtaining some foundational and seminal works (e.g., March, 1991; Tushman

& O'Reilly, 1996; Teece et al, 1997) that presented ideas creating the initial core concepts of OA, to establish historical context and theoretical foundations.

The selection criteria for inclusion involved:

- **Relevance:** Articles and books directly addressing the concept, dimensions, antecedents, outcomes, or mechanisms of OA.
- **Quality:** Peer-reviewed journal articles, influential books by recognized scholars in the field, and reputable reports from research-oriented organizations.
- **Contribution:** Works offering significant theoretical insights, empirical evidence, or conceptual frameworks related to OA.

The process of analysis involved a thematic synthesis of the selected literature. Key concepts, definitions, theoretical arguments, proposed dimensions, and empirical findings were extracted and categorized. This allowed for the identification of recurring themes and the construction of a coherent framework outlining the core dimensions of OA and the mechanisms for balancing them. The study particularly focused on how exploration and exploitation intertwine and the contextual factors and leadership approaches that enable their effective integration for achieving sustainable competitive advantage.

#### **4. Dimensions of Organizational Ambidexterity (OA)**

Organizational ambidexterity is a multifaceted construct mainly conceptualized by its two adjacent and often contradictory components of exploration and exploitation. Authors differ in the ways that they describe opportunity in ambidexterity (i.e., structural, contextual, sequential, leadership), but the main issue is understanding how the effective management and balancing of these two dimensions is achieved. Based upon both previous and most up to date literature (e.g., March, 1991; Tushman & O'Reilly, 1996; Raisch & Birkinshaw, 2008; Junni, Sarala, Taras, & Tarba, 2013; O'Reilly & Tushman, 2013), the key dimensions and balancing mechanisms are:

##### **4.1 Exploration (Exploration Ambidexterity)**

This component pertains to actions that inspire the identification of new opportunities and the development of innovations that are markedly distinct from existing practices. The differences consist of:

- **Search and Discovery:** The act of being on a quest for new knowledge, technologies, markets, and business models while likely entering uncharted territory and

connecting new knowledge from multiple external sources (Cohen & Levinthal, 1990).

- Experimenting and Risk Taking: The willingness to experiment with new concepts about potential ideas and approaches that have uncertainty in it and potentially higher probabilities of failure. Investments in R&D for radical innovation or piloting projects that can create major lessons from learning experiences that could be gained from either successes or failures is important (Sitkin, 1992).
- Flexibility and Adaptability: The ability to sustain organizational flexibility that then enables you to act quickly on emergent opportunities and then adjust your strategies to reflect your emergent learning based off of your explorations. Flexibility relies on a less-tight structure, decentralized decision making, and a culture that embraces change (Volberda, 1996).
- Long Range Focus: Valuing potential future growth and maintenance to shareholders regardless of immediate efficiencies or profits. Exploration is often about building future competitive advantages (Lavie, Stettner, & Tushman, 2010).
- Radical Innovation: Pursuing breakthroughs or disruptive innovation that would change industries or create entirely new markets, rather than incremental development of an existing product or process (Christensen, 1997).

#### **4.2 Exploitation (Exploitation Ambidexterity)**

This dimension emphasizes the utilization and refinement of existing capabilities, resources, and positions in the market to derive efficiency and incremental enhancements. It pertains to:

- Optimization and Efficiency: Behaving in ways designed to enhance current products, services, processes, and routines whose aim is to improve quality, reduce costs, or increase speed of delivery; this also involves some level of formalization, standardization, and control (Benner and Tushman, 2003).
- Implementation and Execution: Achieving what has been planned to deliver on the propositions of current value; for current customers, in current markets. Organizations must have some degree of defined objectives, and established processes that are configured for discipline (Gupta et al., 2006).
- Incremental Innovation: Making numerous improvements or modifications to existing offers and operations. Incremental innovation can be thought of as using rather than creating entirely new capabilities (Dewar and Dutton, 1986).
- Focusing on the Short Term: An organization should care about, operational and financial goals for today, as it seeks to drive maximum returns from its existing capabilities, as well as, its level of stability and predictability (Lavie et al., 2010).



- **Certainty and Control:** Organizations will perform in areas of relatively better certainty, leveraging some level of known knowledge to not only propel individual and organizational performance, but also utilize monitoring or control.

### **4.3 Balancing and Integrating Exploration and Exploitation: Achieving Ambidexterity**

The core challenge of organizational ambidexterity is not just how to engage in exploration and exploitation separately, but rather to create a process, or dynamic balance, between exploration and exploitation, or an effective integration of exploration and exploitation. Excessive reliance upon exploitation can create competency traps and strategic inertia; excessive reliance on exploration can create a situation where an organization fails to execute on, or realize, new ideas (the "exploration trap"). The literature describes several approaches, as well as enablers to develop this critical equilibrium.

- **Structural ambidexterity** refers to the establishment of separate organizational units or structures to carry out different sets of activities dedicated to exploration (i.e., R&D laboratories, new venture divisions) and then use senior management to integrate outputs and learning from those different units of activities to facilitate exploration and exploitation (O'Reilly & Tushman, 2004; Tushman & O'Reilly, 1996). Each unit is able to develop its own processes, structures, and cultures around their specific task of exploration or exploitation.

**Contextual Ambidexterity:** This ultimately relies upon establishing an organizational context (e.g., systems, culture, processes, and social norms) that provides individuals with the opportunities and encouragement to exercise their independent judgment about how to divide their time and effort between explorative and exploitative activities while carrying out their existing role/s (Gibson & Birkinshaw, 2004). Importantly, this involves level of employee empowerment, supportive and trustoriented contexts, and performance management systems that legitimately value both types of contributions;

- **Ambidextrous Leadership:** This is an increasingly recognized critical enabler. Ambidextrous leaders are able to simultaneously engage and stimulate explorative and exploitative behaviors among their teams and organization. Ambidextrous leaders can also create a vision that legitimizes both modes of inquiry, adapt their leadership style to their followers and the context (e.g., enabling for exploration and directive for exploitation), while effectively managing the tensions and

conflicts both explicit and implicit (Mom, Van Den Bosch, & Volberda, 2009; Rosing, Frese, & Bausch, 2011; Uhl-Bien & Arena, 2018).

- **Strategic Controls & Resource Allocation:** Genuine OA necessitates intentional procedures of allocating scarce resources (financial, human, and attentional) between exploration and exploitation. Part of this procedure includes creating sharp strategic priorities & systems of control that monitor and reward exploration (and its contribution to long-term innovation) and exploitation (and its contribution to short-term efficiency). Strategic controls ensure proper alignment of entrepreneurship and bureaucracy, so both are supported by the increased value, rather than supporting one to be more important than the other (Cao, Gedajlovic, & Zhang, 2009).

- **Organizational Culture & Learning:** A learning culture that allows organizations to learn from success and failure, allows, encourages, & incentivizes experimentation, promotes cross-department collaboration, and embraces change is critical to developing an ambidextrous organization. Strong learning oriented organizations learn more from exploitation and new experiences from exploration, better than weak learning oriented organizations (Cohen & Levinthal, 1990; Teece, 2007).

## 5. Discussion

This review brings together theory on Organizational Ambidexterity, focusing primarily on exploration and exploitation, which are paradoxical by nature. The key problem, as consistently stated in the literature (e.g., March, 1991; Raisch & Birkinshaw, 2008), is that the problem is not to simply pursue either exploration or exploitation but to find a dynamic balance, or integrate the two. The point of this study is to demonstrate that this does not happen by chance, but is mediated through intentional organizational design choices and mediating behavior of leaders.

Since exploration (search, risk taking, flexibility, and radical innovation) and exploitation (efficiency, refinement, control, and incremental innovation) represent fundamentally different approaches to work, they require different organizational arrangements, orientations, and resource commitments (Gupta et al., 2006; Benner & Tushman, 2003). Our search has identified structural ambidexterity, contextual ambidexterity, and ambidextrous leadership as the primary vehicles in which organizations seek to manage this duality (O'Reilly & Tushman, 2004; Gibson & Birkinshaw, 2004; Rosing et al. 2011). Structural solutions provide a clear delineation of the two forms of work, whereas contextual type solutions seek to integrate ambidexterity that is experienced at the individual level. It was noted that ambidextrous leadership is potentially one of the other vital sources for both structural and contextual ambidexterity



- it was perceived that ambidextrous leadership acted as an integrating mechanism, and especially one that took place at a senior management level where strategic resource allocation decisions and tradeoffs between ambidex and resource allocations are made.

Adding the components of "Strategic Controls and Resource Allocation" and "Organizational Culture and Learning," to the model of balancing and integrating exploration and exploitation provides additional layers of complexity. Absent formal resource allocation mechanisms and control mechanisms that emphasize both long-term exploration and short-term exploitation, it is likely that one activity will diminish the other. Likewise, one must have a culture that encourages learning and experimentation in order for individuals and teams to engage in explorative and exploitative behaviors.

### **5.1 Practical Implications**

This integrated framework of OA provides a range of practical conclusions for managers and organizational practitioners:

- **Strategic Intentionality:** Ambidexterity requires a deliberate strategic choice and commitment to ambidexterity from the top of the organization. Ambidexterity is not a function that's created casually.
- **Context-Specificity:** There is no universal, generic answer. The decision of structural, contextual, or hybrid ambidexterity (or a variation) will depend on the specific characteristics and parameters of the organization including size, industry, strategy, and existing culture.
- **Creating Ambidextrous Leaders:** Build a leadership development capability place within the organization that specifically focuses on the skills necessary to manage tension between the exploration-exploitation and on innovation and efficiency definitions.
- **Align Systems and Culture:** Ensure that performance management systems and rewards systems, as well as the broader culture of the organization that support and reinforce both exploration and exploitation, are aligned.
- **Dynamic Balancing:** Be aware that the balance between exploration and exploitation is dynamic based on changes in environments or changes in focus or strategy. Therefore, mechanisms to periodically reassess, calibrate or adjust are necessary.

### **6. Conclusion**

In conclusion, Organizational Ambidexterity represents an essential strategic capability for organizations pursuing sustainable success in an uncertain and highly disruptive business environment. This research demonstrated that Organizational Ambidexterity relies on the dynamic interaction and relationship between two dimensions: exploration, which provides new opportunities and new levels of growth through radical innovation; and exploitation, which builds upon existing competencies to enable operational efficiency. Although the demands of exploitation and exploration can often be diametrically opposed in terms of organizational investment and resource allocation, effective, reciprocal interaction ultimately provides longer-term viability and provides an organization with a competitive advantage.

The ability to develop strong exploration capabilities allows organizations to anticipate changes in their environments and develop respective pathways for change and radical innovation thereby creating new avenues for growth; and strong exploitation capabilities allow organizations to maximize operational efficiency/deliver returns on investments today and provide the funding/investments needed to support organizational explorations. The challenge, therefore, is to avoid exploring too much to the point of resource exhaustion by employing capabilities of over-exploitation, or being held captive by strategic inertia because of over-exploitation.

To achieve this fine balance takes intentionality in organizational design. This involves structural arrangements (or contextual ambidexterity), cultural norms that support both exploration and exploitation, and ambidextrous leadership that can advocate and support both sets of activities. By intentionally cultivating an environment where both exploration and exploitation are encouraged and strategically aligned, firms can improve their innovative capabilities, increase their agility, and ultimately create a stronger and more sustainable competitive advantage. This discussion of OA's theoretical framework and select dimensions was designed to provide a clearer understanding for both researchers and practitioners who aspire to navigate the challenges and opportunities that characterize the strategic management environment of the present.

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