

Dynamic and marketing capabilities as determinants of firm performance: evidence from automotive industry

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Abstract

Dynamic capabilities alone may not sustain competitive advantage, but they may lead to better firm performance through interacting with other capabilities. This paper empirically investigates the role of marketing capabilities on the relationship between dynamic capabilities and firm performance and the effect of environmental dynamism in marketing capability development through a study of 162 top-level managers from the automotive industry in Turkey using multiple regression methods. The results show that the marketing capabilities of firms mediate the relationship between dynamic capabilities and economic performance. However, environmental dynamism did not play a moderating role in the relationships between marketing capabilities and performance. It is concluded that dynamic capabilities are associated with improved firm performance via marketing capabilities. Furthermore, the insignificant impact of environmental dynamism on the development of marketing capabilities leading to better performance was explained by firms' given over-performing efforts in the context of emerging markets.

Keywords: Dynamic capabilities; marketing capabilities; environmental dynamism; international business; financial performance; automotive industry; regression analysis; emerging markets; Turkey.

1. INTRODUCTION

In today's dynamic business environments, firms need specific skills like Dynamic capabilities (DC hereafter) and Marketing capabilities (MC hereafter) to sustain competitive advantage. MC are essential skills that help firms to predict and explore new market potentials, offer unique

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3 products and services to address customer expectations, and formulate competitive strategies to
4 achieve the best market performance (Vorhies, 1998; Morgan, Vorhies & Mason, 2009; Moorman
5 & Day, 2016; Hunt & Madhavaram, 2020). Several authors (i.e., Vorhies & Morgan, 2003; Day,
6 & Day, 2011; Moorman & Day, 2016; Freixanet et al., 2020) claim that firms must quickly adapt
7 themselves to the conditions of fast-changing, hypercompetitive global markets by not only
8 constantly adjusting their marketing-related decisions and operations but also extending, modifying
9 and/or reconfiguring their resource-base. The rapid and sound adjustments in marketing-related
10 decisions and operations can only be made by “vigilant market learning that enhances deep market
11 insights, adaptive market experimentation that continuously learns, and open marketing that forges
12 relationships with partners that are more closely attuned to market changes” (Day, 2014, p. 28).
13 Thus, MCs can better respond to fast-changing environmental conditions through converging with
14 other abilities, i.e., dynamic capabilities. DCs help firms rebuild their existing marketing skills
15 and/or create new ones. Therefore, we propose that DCs, which contain three dynamic
16 mechanisms, sensing, seizing, and reconfiguring, may enhance the effectiveness of MCs in non-
17 static environments (Teece, Pisano & Shuen, 1997; Teece, 2007, 2014; Weerawardena et al., 2015;
18 Lee & Chandra, 2020).

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The relationships between MC and DC may sequentially occur. Firstly, firms can detect early
signals about changing customer needs and market conditions and make sound forecasts through
the sensing mechanism (Schilke, Hu & Helfat, 2018; Kamasak et al., 2020; Kamasak & Cansever,
2019). Moreover, accordingly, value-creating marketing decisions can be made rapidly by the
seizing mechanism of DC (Helfat & Martin, 2015; Baden-Fuller & Teece, 2020). Subsequently,
reconfiguring the firm's resource base to create new resource bundles or shift limited resources for
marketing activities may increase the MCs' effectiveness (Moorman & Day, 2016; Kamasak et al.,

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3 2019). We suggest that DC may impact and translate into MC, affecting a firm's economic
4 performance. Therefore, analyzing the MC performance with a DC lens constitutes a logical choice
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6 (Barrales-Molina et al., 2014; Morgan, Feng & Whitler, 2018).
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10 There are calls which suggest that the deployment of resources and capabilities for superior firm
11 performance may be contingent on external contextual variables, i.e., environmental dynamism
12 (Sirmon et al., 2011; Kamasak et al., 2019; Sun et al., 2020) as well as the three mechanisms of
13 DC. Namely, the performance outcomes of DC and MC may also vary according to the level of
14 dynamism in business environments. In response to these calls, we explore the roles and relations
15 of DCs and MCs to generate firm performance through new empirical data from the automotive
16 industry in an emerging market, Turkey, where volatile market conditions may compel firms to
17 utilize both their DCs and MCs (Kamasak et al., 2019). The automotive industry plays a critical
18 role as a significant contributor to the economies of many countries because of its large market size
19 and added value, and the Turkish economy is no exception. Therefore, with its dynamic character,
20 which is shaped by fierce competition among car manufacturers, fluctuating customer demands,
21 and the strong effect of environmental forces, i.e., tax regulations, sustainability requirements, and
22 health concerns (Kushwaha & Sharma, 2016), the automotive industry provides an ideal context
23 for examining the performance outcomes of MC and DC in non-static environments (Munten et
24 al., 2021; Siems et al., 2021).
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45 This paper contributes to the dynamic capabilities research in three ways. First, the study shows
46 whether better financial performance can be achieved through an integrated MC and DC
47 framework compared to the economic gains generated by MC alone. Thus, the study offers a unique
48 insight to understand DC's roles in the relationship between MC and firm performance. Second,
49 the paper explains if the level of environmental dynamism influences the utilization of MCs. Thus,
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with a better understanding of the ability of MCs in determining firm performance under different levels of environmental dynamism, firms can be advised about when they should reconfigure their resource base and which critical MCs should be upgraded to achieve superior performance. Finally, this study provides evidence about the impact of MC and DC convergence on firm performance by employing emerging market (i.e., Turkey) data rare in the extant literature. The majority of empirical work covering marketing and dynamic capabilities is focused on firms in developed countries (Kamasak et al., 2017; Salnikova & Grunert, 2020), yet the share of emerging market economies accounts for nearly 42 per cent of the world's GDP in 2021 (Cavusgil et al., 2021). The growing importance of emerging market economies in shaping global consumption trends and affecting international firms' decisions on resource and capability development and deployment requires more applied research in emerging markets. Therefore, this study also offers empirical evidence about the interactive effects of MC and DC, which may lead to superior performance by enhancing firms' ability to make more prudent strategic decisions and take necessary actions rapidly in emerging markets.

2. THEORY AND HYPOTHESES DEVELOPMENT

2.1. Dynamic capabilities

The dynamic capabilities (DC) concept, which remains a well-charted terrain in the extant literature, reflects an organization's capacity to (purposefully) alter, renew or reconfigure its resource base to lead to superior performance (Teece et al., 1997; Helfat et al., 2007; Teece, 2018). The main reason for utilizing DCs is to enhance firms' ability to provide more dynamic responses to continuously changing environments and sustain competitive advantage (Sirmon et al., 2011; Schilke et al., 2018). In line, Teece (2007) suggests that DCs "embrace the companies' capacity to shape the ecosystem they compete in, develop new products and processes, design and implement

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3 viable business models” (p. 1320). Specifically, within a dynamic environment, DCs allow
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5 companies to reposition their existing resources while increasing their ability to respond to
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7 changing market conditions accordingly (Landroquez, Castro & Cepeda-Carrión, 2011; Helfat &
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9 Peteraf, 2015). Additionally, companies with strong DCs can seize the opportunities and threats in
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11 the environment to renew and retransform their existing resources, assets, and capabilities to
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13 capitalize on a market advantage to deliver a created value to their customers. The role of DCs in
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15 the way of creating firm performance is commonly accepted in the field (i.e., Wang, He &
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17 Mahoney, 2009; Mahmood, Zhu & Zajac, 2011; Protogerou, Caloghirou & Lioukas, 2012), yet the
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19 operationalization of DCs has been a target for constant criticism (Priem & Butler 2001; Arend &
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21 Bromiley, 2009; Giudici & Reinmoeller, 2012; Kurtmollaiev, 2020). A considerable amount of
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23 theorists (i.e., Song et al., 2005; Zahra, Sapienza & Davidsson, 2006; Sapienza et al., 2006; Di
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25 Stefano, Peteraf & Verona, 2014; Teece, 2017; Hunt & Madhavaram, 2020) suggest that the
26
27 operationalization of DCs can only be achieved if they act with other ordinary capabilities. For
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29 example, integrating DC with marketing and supply chain capabilities may determine a firm’s
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31 operational effectiveness (Eisenhardt & Martin, 2000; Winter, 2003). DCs can modify ordinary
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33 capabilities and extend or renew the firm’s broader resource base through its sensing, seizing, and
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35 reconfiguring mechanisms and these changes may ultimately lead to firm performance (Eisenhardt
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37 & Martin 2000; Teece 2007).

44 45 **2.2. Marketing capabilities**

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48 Marketing capabilities (MCs) refer to “a firm’s ability to use available resources to perform
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50 marketing tasks in ways that achieve desired marketing outcomes” (Morgan et al., 2018, p. 61).
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52 Nath et al. (2010) define MCs as “the integrative process in which a firm uses its tangible and
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54 intangible resources to understand complex consumer specific needs, achieve product
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3 differentiation relative to competition, and achieve superior brand equity” (p. 319). Similarly,
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5 Kaleka and Morgan (2019) highlight MCs as a complex and coordinated set of skills, knowledge,
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7 and activities that the company uses to transform its existing resources into market-related value
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9 outputs. Previous studies (i.e., Hooley et al., 2005; Kamasak, 2013; Kamasak & Yozgat, 2013;
10
11 Wilden & Gudergan, 2015) show that MCs help companies create sustainable relationships with
12
13 customers and yield higher customer loyalty, which affects the firm performance. In addition, MCs
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15 help firms manipulate “unique marketing mix strategies, create a strong brand image and influential
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17 corporate reputation, and retain strong bonds with suppliers and other channel members”
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19 (Kamasak, 2013, p. 239). MCs comprise competencies related to new product development,
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21 pricing, channel management, marketing research, marketing communication, and marketing
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23 strategy and implementation (Vorhies & Morgan, 2005; Morgan et al., 2009).
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29 Product development refers to new products and services that offer value to the customers and
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31 better meet their needs and demands, as well as representing new opportunities for the future and
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33 creating a more sustainable business (James & Woelfel, 2000; Vijande et al., 2012, Morgan 2012),
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35 whereas pricing is the capability to define the price policy that leads the company to achieve
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37 maximum revenue from the market. Dacko et al. (2008) emphasized that establishing the right
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39 pricing strategy may increase perceived quality. In addition, firms can offer unique shopping and
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41 purchasing experiences to their customers through effective channel management decisions
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43 (Kamasak, 2008; Gao & Huang, 2021). Marketing research enables firms to have sufficient
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45 information about customer expectations and capture deep customer insights (Ramaswami,
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47 Srivastava & Bhargava, 2009; Morgan et al., 2018). While firms can maintain and maximize their
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49 personalized relations with customers through marketing communication (Cambier & Poncin,
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51 2020), prudent decisions regarding marketing strategy and implementation help firms “select the
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3 most productive available resource combinations to match market conditions” (Kamasak, 2013, p.
4 243). In line, a considerable amount of research has shown that MCs are strongly related to
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6 243). In line, a considerable amount of research has shown that MCs are strongly related to
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8 company performance, and many firms try to build, maintain, and leverage MCs (Krasnikov &
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10 Jayachandran, 2008; Morgan et al., 2009b; Slotegraaf & Dickson, 2004; Vorhies & Morgan, 2005).
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12 Ateke and Nwulu (2021) examined the impact of MCs on firms’ adaptability. They found that MCs
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14 were a necessary antecedent of increased responsiveness and superior performance contributing to
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16 a business strategy.
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19 20 **2.3. The DC and MC relationship and firm performance: the mediating role of marketing** 21 22 **capabilities**

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25 The dynamic capabilities perspective (Eisenhardt & Martin, 2000; Zahra, Sapienza & Davidsson;
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27 2006; Lee & Chandra, 2020) suggests that DCs cannot exclusively impact firms’ performance, but
28
29 their potential benefits can be realized indirectly via using marketing capabilities effectively and
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31 efficiently. Dynamic capabilities, which are tools for gaining competitive advantage, emerge from
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33 routines from which a firm reconfigures its capabilities and changes its resource base to establish
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35 new value-creating strategies (Freixanet & Renart, 2020). Freixanet and Renart (2020) also point
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37 out that dynamic capabilities are identifiable processes observed in product development routines.
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39 They also claim a relationship between some of the capabilities and the company’s performance.
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41 Protogerou et al. (2012) found that DCs’ effect on firm performance was mediated by operational
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43 competencies (i.e., marketing and technology). Sensing, seizing, and reconfiguring are the
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45 mechanisms of dynamic capabilities that are not unique and can be duplicated across firms
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47 (DiStefano et al., 2014; Teece, 2018). They can also be obtained by many firms which employ
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49 several methods and paths; thus, DCs cannot be acknowledged as sources of competitive advantage
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51 (Eisenhardt & Martin, 2000; Zott, 2003). Nevertheless, MCs such as new product development that
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3 can lead to innovative product and service offerings or creative marketing communication
4 campaigns that can maintain customer loyalty can be considered strategic skills; thus, MCs are
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6 often unique to firms and not easily imitated (Drnevich & Kriauciunas, 2011; Takahashi et al.,
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8 2017; Teece, 2017). Firms with robust MCs can “be more alert, timely, and accurate in assessing
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10 its customers’ needs than [their] rivals, and [they] can thus produce market offerings that have
11
12 better value” (Lee & Chandra, 2020, p. 590). DCs will result in superior economic performance if
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14 firms apply their MCs effectively. For example, when sensing, which reflects a “systematic,
15
16 thoughtful, and anticipatory” (Teece et al., 1997) mechanism, focuses on acquiring relevant
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18 marketing intelligence, including heightened awareness of the business context, better recognition
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20 of the marketplace, potential clients, customer needs, distribution requirements and pricing
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22 expectations (Teece, 2007), firms can gather sufficient marketing-related information. Day (1994)
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24 states that firms that can use market-sensing mechanisms can “learn about customers, competitors,
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26 and channel members in order to continuously sense and act on events and trends in present and
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28 prospective markets” (p. 43). Similarly, some DC scholars (Grant, 1996; Eisenhardt & Martin,
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30 2000) posit invaluable market knowledge generated by the market sensing mechanism as a critical
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32 element for any DC.
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41 Once firms sense and seize that they have to make the necessary extension, deployment, or renewal
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43 in their marketing activities, the interaction with their MC related capabilities enhances the
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45 potential of leading to better performance (Teece, 2007; Schilke et al., 2018; Kaleka & Morgan,
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47 2019). Since the potential benefits of DCs can be realized via MCs, we propose that:

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51 H1: The relationship between dynamic capabilities and firm performance is positively mediated by
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53 marketing capabilities
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2.4. The moderating role of environmental dynamism in the relationship between marketing capabilities and firm performance

Environmental dynamism (ED) refers to the level of change in technology, customer needs and demands within an industry, unpredictability and volatility in market conditions and competition, and instability in external conditions, i.e., political, economic, and social factors (Jansen, Vera & Crossan, 2009; Kamasak, Yavuz & Altuntas, 2016). According to Sirmon, Hitt, and Ireland (2007), “environmental dynamism results in a high amount of uncertainty that produces deficits in the information needed to identify and understand cause and effects relationships” (p. 275). Therefore, an industry characterized by high uncertainty and dynamism may limit a firm’s responsiveness to environmental changes, assess customer demands, steer its business strategy, and explore new viable business opportunities (D’Aveni, 1997; Gonzalez-Benito et al., 2012). Against the prediction-, forecasting- and operation-related disadvantages of firms that may result from high levels of ED, dynamic environments can also compel firms to strengthen their existing marketing (and also other) capabilities or develop new ones. The improvements in firms’ capabilities do not only enable firms to cope with their “organizational inertia and myopia of learning” (Levinthal & March 1993), but they are sources that contribute significantly to competitive advantage and superior performance (Mu, 2017; Schilke, 2014; Collis, 1994).

Particularly in the context of emerging markets where “a high variety of market segments along with rapid and discursive consumer shifts that may emerge as a consequence of divergent income distribution and low education levels of consumers” (Cavusgil, Ghauri & Akcal, 2021, p. 14) occur, firms may need to find creative marketing-mix solutions. Furthermore, the firms need to establish long-term relations with customers, make prudent pricing decisions, use extensive marketing research for market intelligence and rapidly launch new products and services. Additionally, a

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3 unique channel management strategy that enables a firm to reach the broadest possible customer
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5 base can influence firm performance. For example, the Turkish on-demand delivery firm Getir,
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7 operating only in a few districts in Istanbul before the Covid-19 pandemic, predicted the booming
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9 trends in online shopping. In the turbulent economic and social context, the firm rapidly adopted a
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11 channel management strategy based on a collaborative and value-added approach to forging
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13 sustainable partnerships. Through this successful channel management, the firm achieved
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15 substantial sales growth and extended its operations throughout Turkey. Moreover, Getir UK and
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17 Getir Spain started their operations in 2021. Drawing upon MC, it can be argued that MC appears
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19 to have a more substantial impact on the firm's performance when there is greater environmental
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21 volatility. The relationship between MC and firm performance in a highly dynamic environment
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23 will be greater than in a less dynamic environment. Thus, we posit upon the MC to hypothesize
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25 that in the automotive industry, characterized by environment dynamism, possessing superior MC
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27 will attain better performance outcomes. In line with these explanations, we hypothesize that:

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34 H2: Environmental dynamism moderates the relationship between marketing capabilities and firm
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36 performance

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38 The conceptual model, including the hypotheses developed, is illustrated in Figure 1. The
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40 conceptual model shows the mediating effect of MC in the relationship between DC and firm
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42 performance (H1) and the moderated mediation effect of ED in the relationship between MC and
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44 firm performance (H2).
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50 **FIGURE 1. TO BE INSERTED HERE**
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3. THE CONTEXT

The automotive industry is one of the prominent sectors in Turkey due to its enmeshed relationship with other sectors in the economy. For example, the automotive industry is one of the largest buyers of iron-steel, petroleum, and chemical industries. Thus, any developments in the automobile industry influence other industries parallelly. Due to its interconnectedness and being the largest export industry in Turkey (Badem et al., 2013), understating automotive incumbents adopted MC is critical. The automotive sector requires cross-border alliances to manage increased sunk costs and attain economies of scale. To achieve cost-efficiency and maximize sales, automotive manufacturers need large budgets for their marketing functions. For instance, expanding the vehicle portfolio of OEMs through the globalized sales channels intensifies price competition and rivalry (Diehlmann and Häcker, 2013). Furthermore, due to the increasing technological innovation and imposed green management regulations, traditional vehicles will substantially be modified, leading to a heightened need for successful MC, such as effective marketing communication and strategy (Berger, 2017).

The establishment of the automobile industry in Turkey is dated back to the early 1960s. The automobile industry played a critical role in integrating the Turkish economy into the global value chain as part of mass industrialization efforts. Turkey is one of the essential automobile OEMs with a total investment exceeding 15 billion USD (Presidency of The Republic of Turkey Investment Office, 2022). Turkey's Automobile Joint Venture Group (TOGG) manufactures various models within the dynamic local market, and currently, 8 Turkish original equipment manufacturers (OEMs) have produced over 1.3 million units in 2021. This rapid growth represents a nearly 6 per cent compound annual growth rate (CAGR), making the Turkish automotive industry the fourteenth largest manufacturer globally and fourth-largest in Europe (Presidency of The Republic

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3 Turkiye Investment Office, 2022). Although depicting the economic geography of the automobile
4 industry is complex, several contingencies like the market saturation in OECD countries and high
5 shipping costs have forced automakers to adopt outsourcing options (OECD, 2021).
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10 Considering the impact of global economic challenges, such as the unpredictability of oil prices
11 and various government interventions to reduce carbon dioxide emissions, Turkish firms in the
12 automotive industry should become more alert and agile to address the requirements of global
13 conditions. The projected sales growth trend, which will be in BRIC (Brazil, Russia, India, and
14 China) and other emerging markets (OECD, 2021; McKinsey, 2020), is likely to lead to a shift
15 toward the Turkish automobile industry thus, it is crucial to understand and explore how Turkish
16 firms can adapt and navigate the challenges to their sustained existence and viability. Accordingly,
17 the Turkish automotive industry is expected to strengthen its capabilities in a global market
18 characterized by heightened volatility facing rapid technological breakthroughs and inexorable
19 competition.
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34 4. METHOD

35 4.1. Sample and data collection

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37 A self-administered questionnaire was used to collect data. The sample included the firms which
38 operate in the Turkish automotive industry. The automotive ecosystem has forward and backward
39 relationships with other sectors such as steel, iron, aluminum, rubber, electronics, plastic, glass,
40 textile, and chemicals (Saberi, 2018); thus, the interaction of the automotive industry with other
41 industries creates an enormous volume of economic activity. A few big players dominate the
42 automotive industry in Turkey. Although there are many micro-firms in the industry, their effect
43 on the industry is limited, most of them are not registered by automotive associations, and micro
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3 firms do not have sufficient knowledge to assess the strategic issues that are included in this study;
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5 thus, micro firms are excluded in the sample. Forty-seven international and six national brands
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7 constitute nearly 95% of the total market (Automotive Manufacturers' Association Report - OSD,
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9 2021). We approached 53 automotive firms that were registered in the databases of the Automotive
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11 Manufacturers' Association (OSD), Automotive Distributors Association (ODD), Heavy
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13 Commercial Vehicles Association (TAID), and Automotive Suppliers Association (TAYSAD) in
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15 Turkey; thus, our sample comprised all firms in the market. We selected only top and senior-level
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17 managers as the key informants who had adequate knowledge to assess the firms' strategy and
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19 performance-related issues (Galbreath & Galvin, 2008; Cao, Simsek & Jansen, 2015). Therefore,
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21 the questionnaires were sent to 486 top managers from 53 firms that operate in the Turkish
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23 automotive industry. The participants included the general managers, CEOs, directors, and division
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25 managers such as marketing and finance managers. A foremost concern was to obtain at least three
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27 questionnaires from each firm to minimize the risk of getting biased answers from only one
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29 manager. An online link that directs participants to the questionnaire was sent to the managers
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31 obtained from the database via e-mail. Over four months (between May to August 2020), we got
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33 162 usable questionnaires out of 486, yielding a response rate of 34%. The composition of the
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35 sample is illustrated in Table 1.
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43 **TABLE 1. TO BE INSERTED HERE**

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45 The majority of the firms had between 101-250 employees (33%), and the firm age was between
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47 the years of 26-50 (50%). The mean number of employees was 342.67, and the standard deviation
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49 was 266.84. The mean number of years in business was 32.62, and the standard deviation was
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51 32.49. The majority of the participants hold GM positions (77%) with industry experience of more
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3 than 15 years (40%), and the gender has an unequal distribution, with 90% of the participants being
4 male, and the majority of the participants have tenure with the company over 15 years (40%).
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8 **4.2. Measurement instruments**

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11 The questionnaire included 55 items in total, including age and size. In order to measure the DC
12 dimensions, we compiled 19 items in total from different studies based on the conceptualization of
13 DC. DC has three sub-dimensions (Teece, 2007): sensing, seizing, and reconfiguring. The sensing
14 dimension was measured by 6 items from Wilden et al. (2013) scale. This scale included items like
15 “our company knows the best practices in the market” and “our company notices changes quickly”.
16 Seizing and reconfiguring dimensions were measured via Jantunen et al.’s (2005) scale. While
17 sensing and seizing dimensions consisted of 6 items each, reconfiguring dimension was assessed
18 by 7 items. All items were measured with a five-point Likert scale. Vorhies and Morgan’s (2005)
19 instrument was used to measure marketing capabilities in the study. Although the original
20 instrument included 7 dimensions, the sales dimension was excluded from the scale to prevent
21 erroneous results. The companies in the Turkish automotive industry work based on long-term pre-
22 sales agreements, and they do not use sales dimensions actively; thus, the inclusion of sales
23 dimensions would have produced biased findings. Therefore, marketing capabilities were assessed
24 by 6 sub-dimensions which were pricing, product development, channel management, marketing
25 communication, marketing research, and marketing strategy implementation. The environmental
26 dynamism scale used in this research was adapted from Jantunen et al. (2005), which included
27 questions like “technological development is rapid in our field of business” or “the ability to operate
28 quickly is crucial for success in our field of business”. Responses were recorded on a five-point
29 Likert-type scale, with anchors of “strongly disagree” (1) to “strongly agree” (5). Firm
30 performance was measured by Spanos and Lioukas's (2001) performance scale that comprises 3
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3 questions, including growth in market share, profitability, and sales revenue. Participants rated
4 their firm's performance regarding the major competitors over the past three years on a five-point
5 Likert-type scale from "strongly disagree" (1) to "strongly agree" (5).
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10 **4.3. Validity and reliability issues**

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12 Exploratory factor analysis (EFA) that employs the VARIMAX rotation method was performed
13 for all the measurement instruments used in this study to explore whether the results conformed
14 with the predetermined factors in the literature. In EFA, "loadings are used to detect whether or not
15 an item appropriately loads on its predicted construct" (Galbreath, 2004, p. 165). Therefore, we
16 have marked the item loading cut-off point at .50 for each instrument, and item loadings of .50 or
17 greater are considered significant for validity.
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28 Additionally, Kaiser's criterion of Eigenvalues greater than 1.00 has also been examined to support
29 validity. To address the reliability issues, Cronbach's alpha (α) and Average Variance Extracted
30 (AVE) were calculated for each instrument. The instruments with Cronbach's alpha values equal
31 to and higher than the minimum threshold value of .70 indicated adequate internal reliability (Hair
32 et al., 2017).
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41 The EFA was conducted to assess the factorial structure of DC, consisting of 19 items. One item
42 (#11) has appeared under more than one factor; thus, we dropped it from the analysis and continued
43 with 18 items. Our analysis yielded 2 factors that were sensing and reconfiguring. The items of
44 sensing and seizing were loaded on a single factor. One explanation for this result might be that
45 the participants could not discern the differences between sensing and seizing mechanisms.
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3 be categorized as opportunity-capitalizing (internal) and opportunity-recognizing (external)
4 capabilities. The items of sensing and seizing mechanisms that comprise searching- and strategic
5 decision-making related elements to recognize and acquire opportunities from the external
6 environment might create such a perception for the participants that both mechanisms work for the
7 same purpose. However, the reconfiguration of the resource-base of a firm comprises
8 organizational change- and implementation-related internal actions; thus, understanding the
9 respondents for the DC operationalization may be more prone to external and internal DC
10 categorization in this study. Nonetheless, more replication studies are required to prove our
11 explanations.
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24 The Kaiser-Meyer-Olkin measure substantiated the sampling adequacy for the analysis $KMO =$
25 $.947$. Barlett's test of sphericity $Chi-Square = 2324.866$, $p < .001$, demonstrating that correlation
26 structure was suitable for performing factor analysis. The DC factor analysis yielded a two-factor
27 as the best fit for the data, explaining 66.32% of the total variance. The EFA output shows that
28 "opportunity-recognizing" is loaded on factor 1 (F1), and "opportunity-capitalizing" is loaded on
29 factor 2 (F2). We have calculated the internal reliability of the factors as ($\alpha = .930$) for opportunity-
30 recognizing and ($\alpha = .942$) for opportunity-capitalizing. The overall reliability of the DC
31 measurement instrument was found adequate with the value of ($\alpha = .958$).
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43 The EFA analysis for the MC instrument, which comprised 28 items, yielded 6 factors (as
44 suggested in the literature) that explained 75,2% of the total variance. Two items (#3 - doing an
45 effective job of pricing products/services and #22 - making full use of marketing research
46 information) were eliminated since they were cross-loaded. Therefore, we continued the analysis
47 with 26 items. Additionally, one item (#18 - gathering information about customers and
48 competitors), originally intended to measure marketing research factors, was loaded on the pricing
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3 factor. As this analysis requires gathering extensive information about customers and competitors,
4 the respondents might have perceived this question as related to pricing decisions; thus, we did not
5 exclude the item from the analysis. We have calculated the internal reliability of the factors as (α =
6 .771) for pricing (F1), (α = .853) for product development (F2), (α = .959) for channel management
7 (F3), (α = .889) for marketing communication (F4), (α = .803) for marketing research (F5) and (α =
8 .942) for marketing strategy and implementation (F6). The overall reliability of the MC
9 measurement instrument was found adequate with the value of (α = .921).

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12 The environmental Dynamism (ED) scale is loaded on a single factor. The scores of the Kaiser-
13 Meyer-Olkin test (KMO=.853) and Barlett's test of sphericity Chi-Square= 377.097, $p < .001$,
14 substantiated the adequacy of the analysis. Furthermore, the internal reliability of the scale is also
15 high (α = .871).

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18 Finally, the Firm Performance (FP) scale is loaded on a single factor with significant test scores of
19 KMO= .650 and Barlett's test of sphericity Chi-Square= 96.168, $p < .001$. The alpha value of .713
20 indicated that the internal reliability of the scale was adequate. The results of all factor analyses are
21 presented in the Appendix.

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24 In addition to item loadings and alpha values to assess reliability, the average variances extracted
25 (AVE) scores were calculated to test convergent validity. We have AVE for each of the constructs,
26 and each construct had an AVE value above the expected threshold of .50 (Chin, Marcolin, &
27 Newstead, 2003). Thus, reliability and convergent validity were supported.

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30 Multicollinearity refers to the existence of highly correlated exploratory variables that may predict
31 each other and undermine the statistical significance and accuracy of the regression model (Hair,
32 2017). Therefore, inter-correlations between variables were checked, and no unacceptable level of
33 correlation higher than .80 between variables was observed (Sekaran & Bougie, 2013). As another
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3 diagnostic tool for multicollinearity, each variable's variance inflation factor (VIF) was examined.
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5 The VIF scores were below 3, which is accepted as problematic (Kothari, 2015). These results
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7 indicated that there was no multicollinearity problem in the model. Inter-item correlations, VIF
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9 scores, and AVE scores are presented in Table 2.
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12 13 **TABLE 2. TO BE INSERTED HERE**

14 15 **5. ANALYSES AND RESULTS**

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18 The data were analyzed by the regression method, and the mediation and moderation tests were
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20 conducted to test the established hypotheses. Older firms may have more experience in markets
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22 and have extensive networking skills, which enable them to access external resources, yet younger
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24 firms may have more flexibility for adaptation and change (Surroca, Tribó, & Waddock, 2010;
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26 Doherty, Haugh, & Lyon, 2014). Similarly, larger firms may have greater access to key resources
27
28 and may have more potential to develop capabilities (Wei, Yi, & Guo, 2014). Therefore, firms' age
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30 and size were controlled to observe the real impact of other variables on firm performance
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32 (Weerawardena et al., 2015).
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37 The mediating role of MC on the relationship between DC and firm performance was assessed
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39 through hierarchical regression and mediation tests. We adopted the methodology of Baron and
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41 Kenny (1986) to determine whether MCs worked as a mediator or not. In Model 1, we examined
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43 the direct relationship between DC and firm performance, which was the first precondition to
44
45 continue the analysis, and we found a significant result ($\beta = .439$; $t = 6.174$; $p < .001$). In Model 2,
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47 additionally, MC was entered and a direct relationship between MC and firm performance was
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49 found ($\beta = .195$; $t = 1.993$; $p < .05$). When MC was entered to the model, β value of DC reduced
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51 from .439 to .303 while p values were significant ($t = 3.090$; $p < .05$). Moreover, based on the
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53 change in the adjusted R^2 values, the contribution of DC to firm performance significantly
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3 increased from .187 to .202 [ΔR^2 (adjusted) = .015] with the entrance of MC into the model (Table
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5 3), thus, the hypothesis was also supported.
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9 **TABLE 3. TO BE INSERTED HERE**

10 First, the moderating effect of ED on ED on the direct relationship between MC and firm
11 performance was assessed through hierarchical regression. In Model 1, MC was entered into the
12 regression model, and then in Model 2, the interaction term (MC x ED) was added. Yet, the
13 interaction term was insignificant ($\beta = .013$; $t = .103$; $p = .918$) in predicting firm performance.
14 Moreover, the interaction between MC and ED did not contribute to explaining performance
15 variation (no significant change in R^2) (Table 4).
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25 **TABLE 4. TO BE INSERTED HERE**

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27 Then, we tested the moderated mediation analysis to explore whether ED affects the relationship
28 between the mediator (MC) and the dependent variable (the second stage of moderated mediation)
29 (Edwards & Lambert, 2007). To test the relationship, we have utilized Hayes Process Macro Model
30 14. The moderated mediation hypothesis was tested at the 95% confidence interval using
31 Bootstrapping method (Hayes, 2013, 2018). Bootstrap confidence level interval can be interpreted
32 as supporting the significance of interaction if it does not include "0" between the lower and upper
33 bound. The regression analysis shows that Dynamic Capability (DC) is a significant predictor of
34 Marketing Capability with a p-value of ($p < .05$), and zero falls within the 95% confidence interval
35 (Bootstrap CI: .5391 to .7495). However, there was no statistically significant moderated mediation
36 effect between Marketing Capability (Mediation) and Environmental Dynamism (Moderator) on
37 Firm Performance (Dependent Variable) ($M^*W = -.0051$; Bootstrap CI95 = $-.1619$ and $.1720$).
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53 The result of the analysis shows that the indirect effect of DC on FP through MC does not depend
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3 on the levels of ED. Therefore, the analysis shows that the confidence level does include 0; thus,
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5 the H2 hypothesis of moderated mediation is not supported (Table 5).
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8 9 **TABLE 5. TO BE INSERTED HERE**

10 11 **6. DISCUSSION**

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13 This paper aimed to explore the capabilities and performance linkage in the context of the Turkish
14 automotive industry and, more specifically, how dynamic capabilities influence the economic
15 performance of firms via marketing capabilities. As a result, one of our two hypotheses is
16 supported.
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23 Our findings concerning H1 show that MC mediates the relationship between DC and firm
24 performance. These findings support DC scholars (i.e., Helfat et al., 2007; Pavlou & El Sawy,
25 2011) who suggest that DCs alone do not necessarily lead to better economic performance.
26
27 Operational capabilities such as MCs are daily executed activities that may use more or less the
28 same methods and techniques in a similar way to support current products and services for the
29 customers (Helfat & Winter, 2011; Teece, 2014). However, DCs are the mechanisms that can
30 modify operational capabilities to appropriateness (Eisenhardt & Martin, 2001; Wilden &
31 Gudergan, 2015). Therefore, “MCs may serve as the necessary leveraging mechanism to
32 transform” (Lee & Chandra, 2020, p. 597) a firm’s DC into superior performance. For example,
33 the sensing mechanism of DC deals with “precautionary signals and sound forecasts about a new
34 market trend or concern of the society for developing scenarios guiding to the optimal strategic
35 change” (Kamasak et al., 2020, p. 23) when employed as a tool to operate an existing marketing
36 capability, may create new resource configurations and greater firm performance. Similarly, the
37 reconfiguring mechanism of DC, which refers to “extending or modifying the firm’s resources and
38 capabilities to conduct successful strategies” (Kamasak et al., 2020, p. 26), once orchestrated in
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3 excellence, will increase the successful transformation of MCs, resulting in superior long-term firm
4 performance (Eisenhardt & Martin, 2000). So, coupled with the reconfiguring mechanism, firms
5 can purposefully and flexibly modify their resource and knowledge base to implement innovative
6 market-based solutions and design new products or services, which lead to superior firm
7 performance. Thus, the results support the mediating role of MC on DC—the financial performance
8 relationship in the context of dynamic environments.
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18 Contrary to our expectations, we did not find evidence for H2 in which the moderating role of
19 environmental dynamism on the MC–firm performance relationship was tested. One explanation
20 for this unexpected finding is that the Turkish automotive industry suffers from the heaviest
21 industry-specific tax burden globally, enacted by the Turkish government (Gönül, Duman, &
22 Güler, 2021). Additionally, Turkey’s economic and human development indicators have been
23 worsening over the last ten years, and this situation made the business environment more brutal in
24 Turkey. As a result, the decisions concerning tax rates, carbon emission regulations, and product
25 specifications were frequently made over a night by the government before the firms could find the
26 opportunity to take the necessary actions to maintain their competitive position. Under these
27 unforeseen legal practices, firms in the automotive industry might always prepare themselves for
28 the worst-case scenarios no matter the level of environmental dynamism. Therefore, no impact
29 from environmental dynamism might be observed.
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46 This study empirically shows the importance of marketing capabilities for firm performance in the
47 automotive industry. Thus, managers should allocate significant efforts and resources to improve
48 marketing capabilities and other capabilities, such as operational and innovation capabilities (Alkan
49 et al., 2022). Investment in plants, machinery, and equipment in various global manufacturing
50 plantations exemplify immense initial and continuing investment costs resulting in a high degree
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3 of sunk costs within the automotive industry. Furthermore, the complexity of the production and
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5 by-product portfolio offered in various global markets leads to an increased number of facilities
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7 that intensifies existing competition. The automotive industry has distinctive importance in the
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9 Turkish economy, and Turkey currently is the fourteenth largest automotive producer in the world.
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11 As one of the largest OEMs in Europe, Turkey, like other automotive incumbents, relies on efficient
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13 production capacity to minimize initial and continuing costs to maximize performance outcomes.
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15 Thus, generally, OEMs have large budgets for marketing functions such as brand promotion and
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17 positioning (Lempp & Siegfried, 2022) to strive in the competition. Furthermore, the Turkish
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19 automotive industry needs effective DC to detect external threats and seize potential opportunities
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21 in dynamic market conditions.
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26 In addition, although the Turkish automotive industry has developed in line with the low-cost
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28 economy model of the country (Kamasak, 2011, 2017; Kamasak & Yavuz, 2015), the demand for
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30 electric and even autonomous vehicles is likely to increase in the following years. The new era in
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32 the automotive industry requires more R&D and innovation-based products, i.e., green vehicles
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34 with low carbon footprint, robotics, and long-life batteries for electric vehicles. Therefore, the cost-
35
36 related pricing may no longer be a competitive advantage for the firms in the Turkish automotive
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38 industry; thus, more investment in disruptive technologies should be considered.
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43 Furthermore, given the importance of detecting future trends and acting flexibly, firms should
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45 establish specific teams for market screening and identify dynamic market changes earlier to
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47 strengthen the sensing mechanism. Additionally, firms should have flatter organizational structures
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49 and units, leading to quick decision-making and effective communication supporting reconfiguring
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7. LIMITATIONS AND FURTHER RESEARCH SUGGESTIONS

Our study has some limitations. The small sample size can be considered the first limitation. Although the dataset covers a broad range of firms operating in the Turkish automotive industry, the generalization of findings should only be possible through obtaining fresh evidence from other emerging markets that possess similar market characteristics to Turkey. The study's cross-sectional nature may offer insights only for a certain period; thus, additional longitudinal studies are recommended to see the dynamic changes in the constructs and relationships. Future studies may also include qualitative methods, i.e., interviews with top managers to understand how DC-MC interaction creates superior performance. Finally, firm performance was assessed based on the perception of managers. In other studies, objective performance criteria may be used, i.e., ROI, ROA, and profit figures for firm performance.

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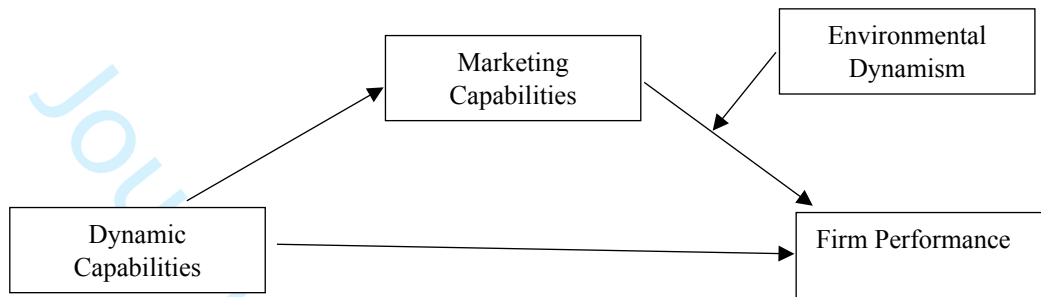
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Figure 1. The Conceptual Model**Table 1. Sample Composition**

Firm Size	Firm Age (Years)	Position	Gender	Tenure (Years)
< 50 (13%)	5-10 (3.7%)	Director/Manager (77.2%)	Female (9.3%)	3-5 (2.5%)
50-100 (9.3%)	11-25 (19.1%)	CEO/GM (22.8%)	Male (90.7%)	6-10 (7.4%)
101-250 (32.7%)	26-50 (50%)			11-15 (13%)
251-500 (21.6%)	50+ (27.2%)			15+ (77.2%)
500+ (23.5%)				

Table 2. Inter-item correlation matrix

Variables	Mean	SD	1	2	3	4	5	6	7	8	9	10	11	12	13	14	VIF
1. <i>Opportunity recognizing</i>	3.89	.62	(.509)														2.992
2. <i>Opportunity capitalizing</i>	3.80	.69	.779**	(.584)													2.873
3. Dynamic Capabilities	3.85	.61	.793**	.796*	(.532)												1.638
4. <i>Pricing</i>	3.88	.64	.448**	.375**	.439**	(.515)											1.329
5. <i>Product development</i>	4.11	.70	.570**	.578**	.608**	.359**	(.593)										1.574
6. <i>Channel management</i>	3.57	1.07	.232**	.281**	.270**	.363**	.370**	(.806)									1.371
7. <i>Marketing comm.</i>	3.09	.85	.326*	.285**	.325*	.307**	.306**	.409**	(.609)								1.492
8. <i>Marketing research</i>	3.96	.63	.712**	.651**	.724**	.420**	.558**	.301**	.504**	(.402)							1.861
9. <i>Marketing str. & impl.</i>	3.54	.78	.683**	.647**	.706**	.416**	.455**	.350**	.579**	.647**	(.641)						2.114
10. Marketing Capabilities	3.68	.56	.670**	.641**	.696**	.625**	.672**	.683**	.734**	.762**	.825*	(.598)					1.638
11. Environmental Dyn.	3.96	.73	.590**	.587**	.624**	.277*	.473**	.329**	.189*	.481**	.346**	.470**	(.579)				1.284
12. Firm Performance	3.55	.75	.466**	.355**	.439**	.404**	.261**	.205**	.243**	.364**	.336**	.406**	.206**	(.471)			1.250
13. Firm Age	33.62	31.49	.211**	.198*	.284**	.013	.342**	-.016	.118*	.247*	.186**	.293**	.176**	.301**	n/a		1.335
14. Firm Size	342.67	266.84	.268*	.227*	.316**	-.009	.213**	.068	.194**	.286*	.233**	.251**	.105**	.281**	.132**	n/a	1.449

Non-diagonal value: correlation

Diagonal value: AVE for the constructs

Sub-dimensions are shown in italics

* $p < 0.05$; ** $p < 0.01$ (two tailed)

n/a: this item is not adaptive to analysis.

Table 3. Regression results for the mediation role of MC on the relationship between DC and firm performance

Variable	Model 1					Model 2				
	<i>B</i>	SE	β	<i>t</i>	<i>p</i>	<i>B</i>	SE	β	<i>t</i>	<i>p</i>
Constant	1.464	.342		4.282	.001	1.150	.373		3.081	.002
Firm age	.257	.094	.103	1.613	.001	.251	.092	.101	1.528	.001
Firms size	.282	.156	.117	1.778	.001	.279	.153	.109	1.704	.001
DC	.541	.088	.439	6.174	.001	.373	.121	.303	3.090	.002
MC						.261	.131	.195	1.993	.048
<i>R</i> ²	.192					.212				
<i>Adj R</i> ²	.187					.202				
<i>SE</i>	.684					.678				
ΔR^2 (adjusted)	-					.015				
F value change	38.118***					21.400***				

Dependent variable: Firm performance

***Significant at the .001 level

Table 4. Regression results for the moderation role of ED on the relationship between MC and firm performance

Variable	Model 1					Model 2				
	<i>B</i>	SE	β	<i>t</i>	<i>p</i>	<i>B</i>	SE	β	<i>t</i>	<i>p</i>
Constant	1.511	.359		4.149	.001	1.571	.394		3.990	.001
Firm age	.269	.095	.106	1.659	.001	.305	.125	.097	1.535	.001
Firm size	.274	.153	.119	1.743	.001	.327	.134	.102	1.611	.001
MC	.552	.096	.408	5.656	.001	.527	.172	.395	3.066	.003
MC x ED						.003	.025	.013	0.104	.918
<i>R</i> ²	.165					.164				
<i>Adj R</i> ²	.161					.160				
<i>SE</i>	.696					.698				
ΔR^2 (adjusted)	-					-				
F value change	31.562***					.011				

Dependent variable: Firm performance

***Significant at the .001 level

Table 5. Conditional process analysis: probing the interaction in a second-stage moderated mediation model predicting firm performance

Independent Variables	Dependent Variables									
	Mediator (M) (Marketing Capability)					Dependent Variable Y (Firm Performance)				
	<i>b</i>	SE	<i>p</i>	LLCI	ULCI	<i>b</i>	SE	<i>p</i>	LLCI	ULCI
Constant										
X	.6428	.0525	.0000	.5391	.7495	.4617	.1383	.0011	.1885	.7349
M	-	-	-	-	-	.2721	.1306	.0389	.0141	.5301
M x W	-	-	-	-	-	.0051	.0845	.9523	-.1629	.1720

Unstandardized regression coefficients reported, significance level ($p < 0.05$). Bootstrap sample size = 5000. LL, low limit; UL, upper limit; CI, confidence interval

APPENDIX:

EFA results of the DC dimension

Items (Our company...)	F1: Opportunity-recognizing ($\alpha = .930$)	F2: Opportunity-capitalizing ($\alpha = .942$)
DC5. Periodically monitors the possible effects of changes in the sector on customer preferences.	.808	
DC4. Quickly notices changes (technological, economic, legal etc.) in the industry.	.766	
DC3. Always follows competitors' actions against changing environment and developing technology.	.752	
DC6. Uses established processes to identify target market segments, changing customer needs, innovation and conditions.	.741	
DC1. Knows the best practices in the market.	.720	
DC2. Systematically searches for information on the current market situation.	.713	
DC7. Adapts best practices in the industry.	.695	
DC9. Develops new strategies in line with new information acquired in the market.	.622	
DC8. Develops new production methods suitable for changing technology.	.579	
DC10. Invests in technologies that find solutions to changing customer needs	.562	
DC13. Moves to a new or substantially changed organization structure.		.841
DC16. Implements new management methods.		.833
DC14. Implements new or substantially changed business models.		.827
DC15. Implements new or substantially changed company strategy.		.804
DC19. Implements new or substantially changed marketing strategies.		.728
DC18. Uses new or substantially changed production processes.		.723
DC12. Develops business models that answer discovered business opportunities.		.683
DC17. Our company implements new or substantially changed technological equipment to capture business opportunity.		.653
Kaiser-Meyer-Olkin Sampling Adequacy	.947	
Barlett's Test of Approx. Chi-Square Sphericity	2324.866***	
*** $p < .001$		
Overall reliability of the scale	$\alpha = .958$	

EFA results of the MC dimension

Items	F1: Pricing ($\alpha = .771$)	F2: Product development ($\alpha = .853$)	F3: Channel management ($\alpha = .959$)	F4: Marketing communication ($\alpha = .889$)	F5: Marketing research ($\alpha = .803$)	F6: Marketing strategy & implementation ($\alpha = .942$)
MC2. Knowledge of competitors' pricing tactics.	.879					
MC4. Monitoring competitors' prices and price changes.	.783					
MC18. Gathering information about customers and competitors.	.615					
MC1. Using pricing skills and systems to respond quickly to market changes.	.547					
MC5. Ability to develop new products/services.		.846				
MC7. Successfully launching new products/services.		.793				
MC6. Test marketing of new products/services.		.742				
MC8. Ensuring that product/service development efforts are responsive to customer needs.		.692				
MC9. Strength of relationships with distributors.			.914			
MC11. Adding value to our distributors' businesses.			.906			
MC12. Providing high levels of service support to distributors.			.905			
MC10. Attracting and retaining the best distributors.			.866			
MC14. Developing and executing advertising programs.				.860		
MC13. Advertising management and creative skills.				.839		
MC15. Public relations skills.				.790		

MC16. Brand image management skills and processes.	.607	
MC17. Managing corporate image and reputation.		.720
MC19. Using market research skills to develop effective marketing programs.		.613
MC20. Tracking customer wants and needs.		.602
MC21. Analyzing our market information.		.596
MC27. Translating marketing strategies into action.		.849
MC26. Organizing to deliver marketing programs Effectively.		.841
MC25. Allocating marketing resources effectively.		.829
MC28. Monitoring marketing performance.		.795
MC24. Developing creative marketing strategies.		.756
MC23. Ability to effectively segment and target market.		.727
<hr/>		
Kaiser-Meyer-Olkin Sampling Adequacy	.888	
Barlett's Test of Approx. Chi-Square Sphericity	3677.015***	
***p< .001		
Overall reliability of the scale	$\alpha = .921$	

EFA results of the ED dimension

Items		F1: Environmental dynamism ($\alpha = .871$)
ED1. Our operational environment changes slowly.		.784
ED2. In our field of business the life cycle of products is typically long.		.827
ED3. In our field of business customers' preferences are quite stable.		.778
ED4. Technological development offers remarkable possibilities in our field of business.		.757
ED5. The ability to operate quickly is crucial for success in our field of business.		.647
<hr/>		
Kaiser-Meyer-Olkin Sampling Adequacy	.853	
Barlett's Test of Approx. Chi-Square Sphericity	377.097***	
***p< .001		
Overall reliability of the scale	$\alpha = .871$	

EFA results of the FP dimension

Items		F1: Firm performance ($\alpha = .713$)
FP1. Higher growth in market share.		.673
FP2. Higher growth in profitability.		0.540
FP3. Higher growth in sales revenue.		0.818
<hr/>		
Kaiser-Meyer-Olkin Sampling Adequacy	.650	
Barlett's Test of Approx. Chi-Square Sphericity	96.168***	
***p< .001		
Overall reliability of the scale	$\alpha = .713$	

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3 Associate Editor Comments:
4 Area Editor
5 Comments to Author::
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7

8 Thank you for your revisions to the manuscript to satisfy the concerns of the review team. While
9 you have addressed most of the issues raised in the previous review, a few still remain. I agree
10 with R1 that Hypothesis 1 makes no sense. It either needs to be contextualized (e.g., MC leads
11 to better firm performance when) or completely dropped.
12

13 **RESPONSE:** Thank you for this constructive comment. To avoid offering a tautological
14 argument, we completely dropped H1 and made necessary modifications accordingly
15 throughout the manuscript.
16

17
18 In addition, H3 appears to be moderating the mediator rather than the main effect. I wonder if
19 it is possible to rewrite the paper to better streamline the theorization. While the next version
20 of the manuscript will not be sent back to reviewers, an editorial decision will be made based
21 on your changes to address these final concerns.
22

23
24 **RESPONSE:** Thank you. We have adopted Hayes Process Macro Model 14 to test the
25 moderated mediation effect in addition to the hierarchical regression analysis we have initially
26 tested. However, the analysis result showed no statistically significant relationship. The
27 changes implemented for the analysis and the results are highlighted in the manuscript and
28 depicted in Tables 4 and 5.
29

30
31 Good luck!
32 PSA
33

34 Reviewer(s)' Comments to Author:
35 Reviewer: 1
36

37 Recommendation: Minor Revision
38

39
40 Comments:

41 The authors have made a good effort to improve the manuscript, following reviewers'
42 comments.

43 I still believe though that the paper needs some improvements before it can be considered for
44 publication.
45

46
47 First, I think the text needs some further proof-editing by an expert. For example, among others,
48 it looks like verbs such as “mediated” and “were associated” in the abstract should be in the
49 present tense, like the rest of the text in this part.
50

51 **RESPONSE:** Thank you for this comment. The language of the manuscript was checked by an
52 expert and the problematic words were corrected.
53

54
55 In the introduction you refer to the automobile industry as “volatile”. I read the definition of
56 volatile is the following: liable to change rapidly and unpredictably, especially for the worse. I
57 don't think we can call the automobile industry volatile, unless we believe that it is possible that
58 next year car production is suddenly and drastically reduced in a high percentage. If it requires
59 a process of adaptation, probably uncertain, fast-changing or dynamic would be better.
60

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3
4 RESPONSE: Thank you for this comment. We replaced the “volatile” word with dynamic
5 throughout the manuscript and corrected the meanings where necessary.
6

7
8 Furthermore, I believe the introduction is too long and the authors could make further efforts
9 to summarize it. Please notice that OEM is introduced before it is defined.
10

11 RESPONSE: Thank you for this comment. We shortened the introduction part (around one
12 page). Furthermore, we constructed a new section as “the context” and moved there some
13 material from the introduction and hypotheses development (the dropped H1 in particular)
14 sections.
15

16
17 Finally, if you insist to keep H1, I think you should do more efforts to make it less tautological.
18 You should argue on your null hypothesis, by pointing out that in some cases marketing
19 capabilities might not positively influence firm performance (and finally conclude that in your
20 industry and country context they will). Again, if as you appear to argue marketing capabilities
21 would always, in any context and situation, contribute to firm performance, what is the point
22 of testing this hypothesis?
23

24
25 RESPONSE: Thank you for this comment. We completely dropped H1 and made necessary
26 modifications accordingly throughout the manuscript.
27

28 Good luck!
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