



Transformation of the hospitality services marketing structure: a chaos theory perspective

Journal:	<i>Journal of Services Marketing</i>
Manuscript ID	JSM-01-2021-0017.R3
Manuscript Type:	Article
Keywords:	service design, Transformative, Tourism, Hospitality, Internal marketing
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Abstract

Purpose – Drawing on chaos theory as an overarching approach, as well as guidelines from effectuation and transformative learning theories, this study evaluates the changing marketing channels in the hospitality industry in the wake of the COVID-19 pandemic. It also aims to develop a conceptual framework that demonstrates the transformation of the marketing structure; in particular, the transformation of hospitality organizations, employees, and customers.

Design/methodology/approach – The study utilizes the hermeneutic method and conceptually evaluates the existing actors of the services marketing structure. It also discusses how to transform this structure into the new normal in the wake of the COVID-19 pandemic.

Findings – The findings of the study demonstrated that COVID-19 has resulted in changing marketing channels in the hospitality industry. These include external, internal, interactive, and substitutional marketing channels. In response to these changes, the hospitality industry needs to adopt a more transformative marketing structure that requires the transformation of hospitality companies, employees, and customers.

Originality – This study utilizes chaos, effectuation, and transformative learning theories in order to reconceptualize the hospitality services marketing structure. The contribution of this paper lies in the conceptual pathways it suggests for transforming hospitality firms, employees, and customers and for demonstrating their transformed roles and positions in the wake of the pandemic.

Research limitations/implications – The conceptualized transformation of the services marketing structure could help hospitality practitioners, employees, and customers to understand the new normal and acquire new abilities, meanings, awareness, and learning accordingly.

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3 **Keywords:** Service design; transformative; tourism; hospitality; internal marketing.
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6 **Introduction**

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9 The recent COVID-19 pandemic has posed an extraordinary threat to the world, not least to
10 the global economy (Jiang and Wen, 2020). The tourism and hospitality sectors have been
11 particularly badly hit (Alonso *et al.*, 2020) because of the high possibility of infection
12 spreading in hospitality organizations (Shin and Kang, 2020). The unprecedented nature of
13 the pandemic (Gössling *et al.*, 2020) has had a crippling impact, imposing sweeping
14 constraints on organizations such as hotels, restaurants, cafes, and other hospitality facilities,
15 leaving the industry to face severe and apparently insurmountable challenges (Alonso *et al.*,
16 2020).
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27 The main concerns resulting from the pandemic relate to its significant financial
28 impacts, aggravated by disruption, loss of customers, the lack of clarity over the duration of
29 the crisis, and the socio-economic impacts on workers and their livelihoods (Alonso *et al.*,
30 2020). For example, the pandemic has resulted in a decline in the hospitality industry of at
31 least 50% in comparison to the previous year in almost every country (Hall *et al.*, 2020). In
32 the United States, for example, hotel profits declined by approximately 50% in 2020, owing to
33 an extraordinary fall in occupancy rates (38%) (Shin and Kang, 2020). An identical impact
34 has been found in Europe, where a monthly loss of one billion euros of tourism income is
35 estimated (European Parliament, 2020). In a recent investigation by Longwoods International
36 (2020) regarding customer reactions to the pandemic, 66% of US tourists stated that COVID-
37 19 would significantly influence their holiday decisions. It is anticipated that nearly
38 75 million jobs will be lost from the tourism and hospitality industry (Alonso *et al.*, 2020).
39 Worse still, it will take nearly five years for the hospitality sector to reach pre-pandemic daily
40 occupancy rates and income (Shin and Kang, 2020). This is evidently a profound crisis that
41 places hospitality in an exceptionally vulnerable position.
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3 The subject of pandemic crises has attracted the attention of several scholars in the
4 field resulting in an extant body of literature. These studies have contributed to the evaluation
5 of crises in hospitality (e.g., Tang and Wong 2009; Rivera *et al.*, 2021) by addressing specific
6 aspects of crisis management, mainly recovery (e.g., Kuo *et al.*, 2008; Rivera *et al.*, 2021), by
7 or focusing on lessons learned from crises (e.g., Paraskevas and Altinay, 2013; Paraskevas *et*
8 *al.*, 2013). Huang and Jahromi (2021) argued that transformation and resilience-building by
9 hospitality organizations have become essential. Similarly, Hao, Xiao and Chon (2021)
10 advocated that hospitality service providers should adopt a new way of thinking and operating
11 that involves new service design, marketing, and market reshuffles. However, none of these
12 studies – and indeed previous literature – has evaluated the transformation of services
13 marketing structure in the hospitality industry in the wake of a pandemic. Particularly, it is yet
14 not known how services marketing structure will take shape as a result of COVID-19 and,
15 more specifically, how firms, employees and customers could transform themselves in
16 response to the new changes and complexities.

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19 This study draws upon chaos, effectuation, and transformative learning theories to
20 evaluate the changing marketing channels in the hospitality industry in the wake of the
21 COVID-19 pandemic. It also develops a conceptual framework that demonstrates the
22 transformation of the marketing structure, in particular the transformation of hospitality
23 organizations, employees, and customers in response to emergent challenges. This study
24 adopts chaos theory (also known as ‘butterfly theory’). The fundamental assumption of chaos
25 theory is that a small shift in the state of a deterministic situation or event can have serious
26 ramifications at a later stage (Speakman and Sharpley, 2012; Zahra and Ryan, 2007). That is,
27 the chaos/butterfly theory suggests that a minor change in one place may create turbulence in
28 a far-distant space. The related literature suggests that chaos theory may help the hospitality
29 and tourism industry to establish transformational crisis management strategies. For instance,
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3 Speakman and Sharpley (2012) emphasized how Mexico benefited from the application of
4 chaos theory in responding to the influenza A (H1N1) crisis almost a decade ago.
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8 The present study also draws on effectuation and transformative learning theories,
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10 which embrace new strategies that foster a transformative approach, resulting in positive
11 shifts toward sustainable habits and generating a positive impact on individuals,
12 organizations, and destinations (Pung *et al.*, 2020). They, therefore, provide a suitable
13 theoretical basis for the hospitality services marketing structure. During this exceptional
14 period, hospitality firms and individuals (e.g., managers, employees, and customers) are
15 facing high levels of complexity and disruption, and they need to transform their operational
16 strategies and activities.
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26 Taking into account this background, the present study evaluates the transformation of
27 the hospitality services marketing structure from the overarching perspective of chaos theory,
28 while adopting the conceptual pathways of effectuation and transformative learning theories.
29 We develop a framework that addresses the transformation of organizations, employees, and
30 customers, using the abovementioned theories as a conceptual guide for hospitality scholars
31 and practitioners. We adopt a hermeneutic approach, reviewing the literature to develop an
32 extensive and a profound understanding of the field in its current context. By doing so, this
33 paper makes a number of important contributions to the hospitality services marketing
34 literature.
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46 First, following the suggestions of MacInnis (2011) and MacInnis *et al.* (2020), we
47 develop a framework that makes use of chaos, transformative learning, and effectuation
48 theories to provide conceptual support for the post-COVID-19 recovery in hospitality. We
49 identify the new normal and the requirements for a new framework in the hospitality
50 marketing structure. We also emphasize the potential outcomes of the transformative
51 framework by integrating explicit and specific examples from the industry to break the
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3 boundary conditions in the new normal. Second, we provide insight into how businesses seek
4 to transform their strategies in order to respond to or cope with this unparalleled situation; this
5 will help industry stakeholders to understand and make an informed choice from the range of
6 available options. Third, through its application of effectuation theory, which is still in its
7 infancy, the present study makes a theoretical contribution to the discourse on effectuation in
8 relation to the service industry, building on the initial work of Sarasvathy (2009). Fourth, this
9 study answers recent calls for more research on novel strategies that can contribute to the
10 development of purposeful transformative experiences in tourism and hospitality (Pung *et al.*,
11 2020; Soulard *et al.*, 2019). We thus emphasize that the significant gaps in the understanding
12 of the hospitality services marketing structure provide an opportunity to find a transformative
13 response to the current complex situation.
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30 **Theoretical background and literature review**

31 *Services marketing: current conceptual approaches*

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33 In the late 1970s, an important debate about the legitimacy of services marketing emerged.
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35 Scholars claimed that services marketing was a completely distinct field (Fisk *et al.*, 1993;
36 Lovelock, 1979; Shostack, 1977). An early discussion of services marketing by Wyckham *et*
37 *al.* (1975) investigated this claim and suggested that the taxonomy of products versus services
38 is dysfunctional. In this connection, Lovelock (1979) argued that marketing approaches need
39 to be expanded to involve services marketing, and Berry (1980) argued that the era of treating
40 services marketing as a variation on product marketing had come to an end.
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51 Services marketing scholars theorized different characteristics that were thought to
52 distinguish services from products (Zeithaml *et al.*, 1985; Rathmell, 1974), and Shostack's
53 (1977) milestone study transformed the services marketing domain. Shostack was the first to
54 propose a service-oriented approach that considers service marketing as a unique and separate
55 research area distinct from product-oriented marketing. The services marketing model relies
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3 on a separate basis in relation to objectives and exchange procedures, and services marketing
4 is acknowledged to be different in theoretical terms (Furrer *et al.*, 2020; Vargo and Lusch,
5 2008). A service provides an interaction procedure, in that the service is what is constantly
6 exchanged; products support the service-supplying mechanism (Baker and Magnini, 2016).
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8 Previous studies have confirmed this service-dominant rationale and provided
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10 interdisciplinary support for services science (Kandampully *et al.*, 2015; Lovelock, 1983).
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17 In the field of services marketing, the following three factors have been added to the
18 conventional 4Ps of marketing: people (individual actors in services marketing), procedure
19 (progress and stream of services), and physical conditions, since the conventional marketing
20 mix does not encompass executing the customer interface (Baker and Magnini, 2016;
21 Lovelock and Wirtz, 2011; Tansuhaj *et al.*, 1988). By integrating the 7Ps, Lovelock and
22 Wirtz's (2011) seminal book offers a four-part framework for developing effective services
23 marketing strategies: "(1) understanding service products, consumers and markets;
24 (2) applying the 4Ps of marketing to services; (3) managing the customer interface; and
25 (4) implementing profitable service strategies" (p. 28). The authors also defined services as
26 economic activities between two parties, indicating a value exchange between service
27 provider and customer.
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42 In support of the exchange idea in the service setting, the services marketing triangle
43 approach was developed to analyze the triangular associations of external marketing
44 (company), internal marketing (human labor), and interactive marketing (guests) (Edvardsson
45 and Enquist, 2002) for common organizational purposes. Internal marketing emphasizes the
46 management and satisfaction of the workforce, whereas interactive marketing focuses on
47 guests and perceived excellent service (Shiu and Yu, 2010). External marketing activities
48 include prices, products, places, and promotion facilities between organizations and guests.
49 Interactive marketing calls for service companies to hire skilled and competent workers to
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3 offer excellent service to guests during critical periods. The exchange relationship of these
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5 employees and guests has a significant role in the success or failure of service organizations
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8 (Chaouali *et al.*, 2020; Hsieh, 2018).
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10 Our review of the literature confirms that current services marketing studies place
11
12 great emphasis on workers as services marketing actors and on the exchange relationships
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14 between workers and guests as key factors affecting marketing accomplishment. More
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16 specifically, hospitality scholars have paid attention to the close interaction of employees and
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18 customers (Ariffin and Maghzi, 2012; Scott and Laws, 2006). Many scholars have
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20 recommended a personalized service based on warm and close interactions between
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22 customers and employees (Ariffin and Maghzi, 2012; Chathoth *et al.*, 2013; Lu *et al.*, 2019).
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26 Interactions between travelers and host countries in terms of customer–employee
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28 associations have been the focus of tourism and hospitality studies (Backer, 2007). It is
29
30 widely accepted that the quality of interactions between visitors and locals (residents and
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32 hospitality employees) plays a vital role in the transformative experiences that result in tourist
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34 satisfaction and permanent positive changes in behaviors and values toward the travel
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36 destination and the hospitality organization (Bimonte and Punzo, 2016). Previous studies have
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38 made a valuable contribution to the hospitality marketing literature by identifying the
39
40 antecedents of customers, employees, local experiences, and satisfaction. However, to date,
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42 they have not considered the health and safety concerns of visitors, which have become a core
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44 value that cuts across and underpins global, regional, and national hospitality marketing
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46 strategies and policies. In particular, there has been no study in the context of COVID-19 that
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48 focuses on protecting the health and safety of customers as well as host communities, despite
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50 this being the top priority of service organizations, destinations, and policy-makers.
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55 Therefore, the COVID-19 pandemic presents an opportunity for tourism and
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57 hospitality actors (both organizations and individuals) to transform their perceptions,
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3 understanding, expectations, and attitudes. The pandemic can prompt hospitality practitioners
4 to adopt new operational methods, including automated service, virtual service providers, and
5 robots. Accordingly, hospitality scholars need to suggest alternative strategies for offering
6 goods and services to customers in suitable ways at the right moment, and our research
7 proposes an appropriate conceptual framework for that purpose.
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15 *Chaos theory and COVID-19*

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18 Chaos theory focuses on the random, complex, unstable, and dynamic character of structures
19 (Speakman and Sharpley, 2012). It suggests that chaotic situations can self-manage and self-
20 recover, with periods of order broken up by periods of rapid transformation whose direction
21 cannot be altered (Levy, 1994). In other words, chaotic structures have the potential to
22 reconstruct stability, systems, and prosperity (Doherty and Delener, 2001). Chaos theory thus
23 offers various approaches that can provide appropriate guidelines for responding to crises in
24 hospitality. Therefore, research in the context of COVID-19 needs to consider both the chaos
25 and complexity of the structure, and the invitation from Pappas (2019) to do so is more timely
26 now than ever.
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Tourism and hospitality has more generally been defined as a naturally non-linear, complex and dynamic system – *a chaos model* (Gurlek and Koseoglu, 2021; Speakman and Sharpley, 2012). In other words, vulnerable to health and safety crises, the hospitality sector is unstable, complicated and troublesome (Speakman and Sharpley, 2012). Crises of the hospitality industry could therefore be better analyzed through chaos theory (McKerche, 1999). In fact, several scholars suggested that chaos theory can present significant insights into crisis management for tourism and hospitality companies (e.g., Japutra and Situmorang, 2021; Kirk and Pine, 1998; Rivera *et al.*, 2021; Speakman, 2017). However, its applicability to the effective management of the pandemic crisis in hospitality has yet to be completely

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3 investigated, and the following brief review addresses this gap by offering an overarching
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5 chaos theory-based approach to COVID-19 crisis management.
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8 *The edge of chaos*

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11 Uncertainty and transformation are natural features of organizations. Even if an organization
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13 pursues consistency and balance, these states are fragile, and complexity is always possible.
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15 The *edge of chaos* refers to a balance between stability and chaos in which firms can operate
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17 as complex adaptive systems (Speakman, 2017). Organizations are situated between
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19 disintegration (total chaos) and ossification (total stability) (Verleye and Gemmel, 2011). The
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21 structure is continually on the edge of chaos; the butterfly effect means that even an
22
23 unimportant event can trigger a set of events that result in a crisis. In other words, a minor
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25 change in one place may lead to turbulence over a much wider area. This is evident from the
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27 COVID-19 pandemic, which has left nothing unaffected, either positively or negatively. For
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29 instance, a minor change in one factor, such as the required duration of quarantine, has an
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31 impact on several factors. Therefore, different elements which have relationships to each
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33 other need to be considered both during and after crises (Prideaux *et al.*, 2003). This shows
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35 the continuing relevance of Levy's (1994) suggestion that flexibility and adaptiveness are
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37 necessary for companies to survive, because long-term estimates are almost impossible for
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39 service organizations in complex and chaotic situations such as the COVID-19 pandemic.
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45 *Bifurcation and cosmology*

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48 Farazmand (2003) defined bifurcation as the crucial moments of transformation that an
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50 organization's direction, character, and structure are mainly disrupted. A cosmology
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52 component appears if individuals immediately and profoundly sense that the universe is no
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54 longer a reasonable and regular structure. Page *et al.* (2006) suggested that marketing and
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56 promotional activities should be decreased or postponed at this point, as maintaining ordinary
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58 marketing activities should be decreased or postponed at this point, as maintaining ordinary
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60 marketing activities can appear improper; conditions have altered, and a new perspective is

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3 required. Regarding the pandemic, recent research has presented evidence of the extent of the
4 effect of COVID-19 on customers' travel intentions, identifying an unwillingness to go on
5 holiday, at least for the foreseeable future (Pappas, 2021). Therefore, it can be assumed that
6 the return to tourism normality is unlikely to be as fast as the recovery from previous
7 disruptions experienced by the industry, and that a transformative approach is therefore
8 required.

17 *Self-organization and strange attractors*

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20 Self-organization is a procedure whereby structure re-emerges from a random and chaotic
21 state (Valeri and Baggio, 2020). The hospitality sector has been striving to maintain or
22 surpass its previous performance. However, according to the concept of self-organization, a
23 return to normal is neither plausible nor desirable (Speakman and Sharpley, 2012). Moreover,
24 the dimension of the "strange attractor" helps to identify methods that can stimulate order
25 from chaos. Order will emerge from a chaotic situation, provided that there remains an "island
26 of stability" in the current chaos (Zhang *et al.*, 2021). In the current context, the COVID-19
27 pandemic can be considered an opportunity to innovate in terms of resources and operational
28 strategies. The skills, capabilities, and knowledge of managers have a critical role to play in
29 achieving such a transformation. By ensuring communication opportunities and supporting
30 cooperative associations, supervisors themselves can be the strange attractors that will help to
31 elicit order from chaos and create the conditions for a new order (Speakman and Sharpley,
32 2012).

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51 A number of responses to the pandemic may therefore be recommended. Innovative
52 and transformative implications reinforce the role of managers as strange attractors.
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54 Moreover, there is an urgent need for transformation of marketing and operational strategies
55 to recover the trust of employees and customers in the viability of the firm in a post-COVID
56 world, and marketing activities should make use of any available "lock-in effect" (Speakman
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3 and Sharpley, 2012). As Ritchie and Jiang (2019) observed, the fundamental purpose of
4 revival marketing activity is to change a negative image and enhance guest demand; among
5 the methods they recommended are influential advertising, cooperative marketing, and private
6 events. In this way, the complex and chaotic nature of the pandemic can be eliminated by
7 deploying a major transformation in advertising and marketing activities to recover
8 customers' attention.
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11 Thus, the components of chaos theory (i.e., the edge of chaos, the butterfly effect,
12 bifurcation and cosmology, self-organization, strange attractors, and the lock-in effect)
13 present an overarching perspective within a chaotic hospitality system (such as during the
14 COVID-19 pandemic) that can be used to propose a transformative service structure. The
15 extent to which this represents a transformative approach to the hospitality services marketing
16 structure is the focus of the remainder of this paper. Specifically, the following section
17 identifies a reconceptualization of the services marketing structure as transformative in the
18 post-COVID world based on the conceptual guidelines of transformative learning and
19 effectuation theory.
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37 38 *Transformative learning and effectuation theory* 39

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41 An analysis of current crisis management in the hospitality field demonstrates the urgent need
42 to establish a framework for managing a crisis, such as COVID-19, that reflects the complex
43 and chaotic nature of the event (Reddy *et al.*, 2020). The pandemic, although complex and
44 chaotic in nature, is also an opportunity for hospitality firms to innovate to survive and to
45 sustain competitiveness in the market (Seyitoglu and Ivanov, 2020). Therefore, adopting a
46 transformation-based perspective when evaluating crises in the hospitality industry can
47 provide a better understanding of pandemic crisis management and planning as a response to
48 chaos (Reddy *et al.*, 2020).
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3 Within the overarching perspective of the chaos theory, we first use transformative
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5 learning theory, which has been widely adopted in the domain of adult education. A suitable
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7 conceptual framework in which to investigate individuals' transformation and changes in their
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9 lives (Kitchenham, 2008), it can be used to conceptually justify individuals' transformative
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11 actions in complex and chaotic situations more generally. Originally developed by Jack
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13 Mezirow, the theory identifies a change in an individual's perception, understanding, and
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15 world beliefs (Mezirow, 1991). Mezirow's theory of transformative learning draws on
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17 conscious procedures of which the individual is completely aware, and has been implemented
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19 to create processes by which customers gain novel ideas and understanding, experience chaos,
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21 and develop reactions (Pearce and Foster, 2007; Wolf *et al.*, 2017). These are considered as
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23 disorienting dilemmas that facilitate transformation.
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28 The theory of transformative learning has been much used to theorize transformative
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30 actions in tourism (Coghlan and Weiler, 2018; Pung *et al.*, 2020; Robledo and Batle, 2017;
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32 Soulard *et al.*, 2019; Wolf *et al.*, 2017). For example, Coghlan and Weiler (2018) described
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34 disorienting dilemmas in tourism as crises or situations that trigger customers to find new
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36 ways to compensate their loss. Building on Mezirow's (1991) work on transformative
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38 learning, Wolf *et al.* (2017) developed a conceptual model that includes triggers of the
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40 transformative process and their outcomes. They suggested four dimensions of transformative
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42 tourism experiences: "(1) disorienting dilemma, (2) self-reflection, (3) resolution by exploring
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44 new actions, and (4) development of new skills, attitudes and beliefs" (p. 1664). For example,
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46 customers may experience a disorienting dilemma in the form of being confronted with the
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48 pandemic crisis or another complex and chaotic situation. More recently, Pung *et al.* (2020)
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50 developed a conceptual framework to describe the tourist transformation process across
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52 various experiences. They suggested that Mezirow's theory allows tourists' experiences of
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54 culture shock to be conceptualized as a way for them to develop a global awareness, thereby
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3 broadening their worldview. According to the conceptual framework, customers can improve
4 other knowledge and capabilities by learning how to deal with chaos and complexity and by
5 using new technologies (Pung *et al.*, 2020).
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10 Thus, transformative learning theory involves obtaining a broader sense of the world,
11 fostering novel abilities and capabilities within the new conditions (Pearce and Foster, 2007;
12 Pung *et al.*, 2020; Soulard *et al.*, 2019). Hence, we suppose that the theory provides a
13 conceptual underpinning to justify the reactions of individuals (e.g., employees and
14 customers) to the new complex and chaotic situation arising from the pandemic. To illustrate
15 this point, the pandemic and its outcomes can be considered as a triggering factor that
16 stimulates individuals to examine themselves, evaluate their existing positions and roles,
17 search for alternatives, and transform their roles and positions in the new normal. Drawing on
18 this theory, we argue that the ways in which individuals experience new challenges (e.g.,
19 COVID-19) and take the necessary precautions (Pearce and Foster, 2007) can be regarded as
20 occasions for transformative learning. In other words, the pandemic causes individuals to
21 have transformative experiences, including developing new forms of relations with others,
22 self-isolating, social distancing, avoiding crowded areas (e.g., resort hotels), finding
23 destinations or accommodation facilities that are more isolated, and adopting new-generation
24 technologies. Therefore, scholars should pay attention to transformative experiences based on
25 exceptional conditions that compel individuals to reconsider their understanding,
26 expectations, and world beliefs in a long-lasting and life-changing form (Kirillova *et al.*,
27 2017).
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51 Despite increasing attention to the transformative perspective in tourism, there is
52 limited understanding of individuals' transformations in response to the pandemic. The
53 present study addresses this gap by developing a framework that clarifies the transformation
54 of hospitality employees and customers in the post-pandemic world. We also adopt
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3 effectuation theory to underpin firms' transformation process as a reaction to the uncertainty
4 arising from the pandemic. Effectuation has been described as a rationale of entrepreneurial
5 ability, identified as an effective and interactive procedure of generating novel ideas in the
6 industry (Matalamäki, 2017; Sarasvathy, 2009). Theorists of effectuation have argued that,
7 during exceptional and uncertain times, such as the COVID-19 pandemic, practitioners
8 embrace a rationale of decision, which is distinct from causation as accepted by the
9 conventional approach to entrepreneurship (Mthanti and Urban, 2014). Three fundamental
10 constructs emerge, which shareholders utilize and present as a base for effectuation: means-
11 driven movement, affordable loss as appraisal norm, and leveraging probabilities (Arend *et*
12 *al.*, 2015). Building on the conceptual foundations of effectuation theory, four key points have
13 been developed: (1) concentrating on short-term attempts, (2) developing projects that the loss
14 in a worst-case scenario is affordable, (3) emphasizing strategic alliances and pre-
15 commitments from stakeholders (4) exploitation of contingencies through maintaining
16 flexibility (Sarasvathy, 2009).

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19 On this theoretical basis, we propose that hospitality companies should first focus on
20 the short-term implications of the pandemic and then develop longer-term projects to
21 compensate for the costs of the pandemic and the worst of its outcomes in the future. To do
22 this, companies may need to adopt new approaches, such as new-generation technologies, if
23 they are to remain flexible in their service structure and develop prompt reactions to future
24 crises. Thus, within the overarching perspective of the chaos theory, this study provides a
25 framework for the transformation process of hospitality organizations. It draws on
26 effectuation theory and individual transformations (i.e., employees and customers) in terms of
27 transformative learning theory to expand the discussion on the abovementioned theories in the
28 hospitality literature.

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Conceptualizing the services marketing structure

Drawing on the underlying principles of chaos theory, we first clarify what the new normal might look like for hospitality organizations. Second, we consider the requirements for a transformative marketing structure under those circumstances. Finally, we provide guidance for transformative actions by discussing specific examples from the transformative marketing structure for hospitality organizations in the post-pandemic world.

The edge of chaos: what the new normal could look like

Simply stated, the new normal can be defined as an event for which the pandemic acts as a catalyst, generating a series of events that bring the service industry to the edge of chaos.

Unlike previous crises that resulted in short-term volatility of the financial markets, the COVID-19 pandemic has influenced organizations worldwide and had a considerable effect on global financial markets (Finsterwalder *et al.*, 2021; Huang *et al.*, 2021; Prentice *et al.*, 2021; The Khoa *et al.*, 2021). Organizations have been caught completely unprepared and left frantically searching for remedies. The deeper impact of the pandemic is likely to prove consistent and significant, raising concerns that nobody knows what the dangers of the new normal will be, how many service organizations will be affected, or how long the recovery will take (Ali *et al.*, 2021; Kabadayi *et al.*, 2020). Such concerns may generate a chaotic system that results in the re-establishment of stability and order in distribution, management, and service delivery systems; for example, organizations may adopt online marketing strategies and deliver restricted services that take account of social distancing requirements (Khoa *et al.*, 2021). In other words, it is time to reconstruct the hospitality services marketing structure in a more viable form.

This transformation must go beyond lip service (Benjamin *et al.*, 2020); what is required is no less than the launch of a transformative marketing structure for hospitality organizations. Service design needs to be redefined, online platforms will likely become the

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3 standard, and technology will be a critical channel for marketing. Thus, the pandemic crisis
4 creates a discontinuity, after which some elements will return to their previous condition, even
5 as others are transformed permanently. Hence, the new normal focuses attention on the
6 transformative approach as a way for hospitality organizations to manage emergent and
7 developing challenges.
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15 Within the “edge of chaos where organizations are at their most innovative, flexible
16 and adaptive” (McMillan and Carlisle, 2007, p. 584), hospitality firms are expected to have a
17 higher capacity for transformation, which is vital for the survival of their operations.
18 However, if organizations become too chaotic, it is inevitable that they disintegrate
19 (Speakman, 2017). In this way, disintegrated (i.e. totally chaotic) organizations need to
20 consider total transformation in a situation of chaos. This study has categorized disintegrated
21 organizations as *non-operational*, *semi-operational*, and *diversified organizations*.
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Non-operational organizations can be defined as hospitality firms that are forced to
confront bankruptcy and insolvency, and completely bring their operations to an end due to
the devastating impacts of the recent pandemic. For example, several hospitality organizations
declared bankruptcy in the US in 2020 due to the COVID-19 pandemic (Scigliuzzo *et al.*,
2020).

Moreover, there are hospitality organizations that have not fully used their capacity
due to the restrictions imposed as a result of the pandemic or they have been used for
alternative purposes. These organizations can be labeled as *semi-operational organizations*.
For example, there are hotel companies that have not used their rooms to accommodate guests
during the pandemic. Instead, the premises were used as quarantine hotels; that is, “hotels that
cater to guests self-isolating for 14 days when returning from overseas as mandated by
governments” (Goh and Baum, 2021, p. 6) in order to help to prevent the spread of infection
to the wider community (Teng *et al.*, 2020). Moreover, since the advent of the pandemic,

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3 restaurants have only been allowed to offer takeaway services (Ioannides and Gyimothy,
4 2020), which has resulted in a change of focus from the table service operations to the online
5 order and delivery in the restaurant sector.
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10 The third most distinctive form of disintegration is *diversified hospitality*
11 *organizations* that have stopped their operations in the hospitality industry and have diverted
12 their activities to another sector. These hospitality organizations suffered from poor financial
13 performance during the pandemic, so they moved away from their main operations, products,
14 and services to compensate for their financial losses during the pandemic (Hoang *et al.*,
15 2021). For example, Hewing Hotel from North Loop, Minneapolis has started to use its rooms
16 as private dining rooms by setting up tables in them and redecorating the rooms (Morse,
17 2021).
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20 *Bifurcation and cosmology: changing marketing channels of hospitality*

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22 Today, many hospitality organizations realize that the post-pandemic world is no longer
23 rational and orderly, which is the main argument of cosmology. Indeed, COVID-19
24 cosmology now exists, since there is an ongoing investigation into growing public concerns
25 that travel will never be the same again. Hence, today's COVID-19 world is a new normal
26 (Kabadayi *et al.*, 2020; Alonso *et al.*, 2020) that will generate new and transformative avenues
27 for producing, marketing, and delivering hospitality services. In this new normal, social
28 distancing and health and safety measures will remain among the important
29 nonpharmaceutical interventions to control the spread of COVID-19 (Gössling *et al.*, 2020;
30 Hall *et al.*, 2020; Yang *et al.*, 2021). This means that all types of interactions, including those
31 between employees and customers, will be limited. Only after large numbers of people have
32 been vaccinated will it be possible to ease social distancing restrictions and other
33 nonpharmaceutical interventions, making it safe to resume tourism and hospitality services
34 (Gössling *et al.*, 2020).
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3 We can also observe evidence of a bifurcation of the hospitality industry as a result of
4 the recent pandemic, in the form of a transformation of organizational management, changing
5 roles of hospitality employees, developments in practitioners' understanding, and evolution of
6 customer experience, all of which indicate the new direction, character, and structure of
7 hospitality marketing channels.
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12 First, *external marketing*, as can be seen from the proposed framework (see Figure 1),
13 includes prices, products, places, and promotion facilities between organization and
14 customers. In the new normal, external marketing needs to be redesigned according to the
15 transformative perspective by moving toward a marketing plan that encourages safe and
16 healthy services. The initial focus will be on supporting the mobility of local travelers, who
17 are in a position to bounce back relatively quickly.
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22 Second, *internal marketing* defines the management and satisfaction of the workforce
23 in the work setting. In the post-pandemic world, hospitality practitioners need to work
24 continually to determine how best to develop the rights and livelihoods of workers rather than
25 using them as a tool for financial recovery. Internal marketing needs to consider enhancing
26 the minimum salary to a truly "living wage" in order to preserve the workforce in a future
27 crisis (Benjamin *et al.*, 2020).
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32 Third, *interactive marketing* calls for close interaction between guests and employees
33 to produce excellent service. The hospitality industry relies profoundly on human labor;
34 therefore, the role of service encounters is quintessential, and these interactions are addressed
35 as moments of truth (Kandampully *et al.*, 2015; Prentice *et al.*, 2021). However, in the new
36 normal, practitioners will have to clarify the distinct factors that lead to satisfying experiences
37 for customers. Under pandemic conditions, interactive marketing should favor consumption
38 behavior that minimizes face-to-face contact, as a self-preventive attitude to risk and safety,
39 involving technology-based and non-digitalized "untact" behaviors, utilized for health
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3 protection purposes, including camping or hiking, and personalized special services, such as
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5 room service or special family dining rooms (Bae and Chang, 2021).
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8 Lastly, our transformative marketing structure proposes an additional marketing
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10 channel, which we call *substitutional marketing*, because the service structure needs to be
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12 transformable in accordance with new requirements by replacing any given services
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14 marketing actor. For instance, to incorporate physical distancing, many service companies
15
16 have had to change the personalized or coproduction service concept that encourages
17
18 customers to participate more in service delivery design. Future crises may generate new
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20 paradigms, leading to the emergence of new stakeholders and authorities, forcing service
21
22 organizations to substitute any stakeholder, and causing new forms, structures, procedures,
23
24 hierarchies, and knowledge to emerge. In the next global crisis, we need to be ready to react
25
26 swiftly and effectively, and this requires an adaptive and flexible approach. Therefore, we
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28 propose substitutability as a characteristic of the new marketing channel in the post-pandemic
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30 world. Thus, when service organizations have to transform their marketing structure in future
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32 crises, any given stakeholder or actor may have to be replaced immediately in response to a
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34 possibly chaotic or complex situation.
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39 40 *Self-organization and strange attractors: transformative marketing structure*

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43 The self-organization principle of chaos theory provides a theoretical base for establishing a
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45 new understanding and a new transformative marketing structure in the complex and chaotic
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47 post-pandemic world. Hospitality studies in relation to COVID-19 have addressed the need
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49 for radical change in the industry, with clear implications for the travel experience, design and
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51 delivery of tourist products, management of the booking and consumption experience, hosting
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53 travelers, managing and governing destinations, and, most importantly achieving and
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55 sustaining a transformative structure in the hospitality service (Alonso *et al.*, 2020; Bae and
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57 Chang, 2021; Rivera *et al.*, 2021; Seyitoglu and Ivanov, 2020; Shin and Kang, 2020).
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3 Therefore, this study proposes a transformative marketing structure framework for
4 hospitality organizations for a better service design, and develops the conceptualization of a
5 transformative hospitality services marketing structure in the new normal. Figure 1 sets out
6 the conceptual framework proposing a transformative marketing structure in response to the
7 complex and chaotic nature of the pandemic crisis.
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15 New paradigms arising from the COVID-19 pandemic have emphasized the
16 importance of the transformation of hospitality companies, employees, and customers as
17 strange attractors who strive to bring order from chaos and thus create new conditions for
18 structural transformation. Therefore, our framework proposes three phases for transformative
19 action by hospitality organizations: (1) short-term transitions, (2) research and development
20 (R&D), and (3) exploitation of technology through flexibility (Sarasvathy, 2009).
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29 In terms of short-term transitions, capacity planning needs to be flexible. That is,
30 hospitality companies need to be able to adapt their capacity in case a new crisis erupts in the
31 future. Moreover, the marketing structure needs to be transformed from personalized service
32 to remote service, in accordance with the untact lifestyle. That is, hospitality companies
33 should develop digitalization and adapted technology to establish a transformative marketing
34 structure that encourages a techno-intensive service design.
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43 Our framework suggests that hospitality organizations will need to more adopt R&D
44 in the new normal. In the post-pandemic period, it will not be possible to continue with the
45 existing service structure, given the urgent need for transformative strategies, methods, and
46 approaches. Accordingly, our framework puts R&D center stage. Transformative structure
47 requires innovation, which is the first and fundamental component of R&D. Innovative
48 companies will be able to survive in the new normal and to confront new challenges or global
49 threats.
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3 Innovation goes together with project management as a systematic way of putting new
4 ideas into practice. Innovative ideas and strategies can be transformed into operational
5 strategies and practices through project management, which in turn can pave the way for
6 transformative marketing structure. During chaotic circumstances, prevention is another vital
7 transformative characteristic in the marketing structure, allowing new target markets to be
8 explored. Developing a recovery strategy to compensate for reduced customer flow and
9 demand will be among the most significant tasks of a service organization in the post-
10 pandemic world. The transformative framework includes the concept of pervasiveness to
11 compensate for reduced customer demand when a new crisis inevitably appears. To handle
12 the chaos arising from any such crisis, our transformative marketing structure also anticipates
13 flexibility as vital for the survival of organizations in relation to the substitutional marketing
14 channel during times of crisis. None of these transformative actions can be completed without
15 effective leadership in hospitality organizations. We therefore propose what we call
16 transformational leadership for managing organizations effectively and transforming the
17 services marketing structure for future events. In other words, the transformative marketing
18 structure requires transformational leadership.

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40 Second, by means of transformative learning theory, the transformative procedure of
41 hospitality employees and customers can be clarified. For employees, the transformative
42 marketing structure consists of four stages: (1) a disorienting dilemma, (2) the search for
43 alternatives, (3) obtaining new skills and knowledge, and (4) performing transformed roles.
44 The pandemic is considered as a disorienting dilemma, which means that it triggers
45 employees to adapt with technology and digitalization. That is, in the new normal, the need
46 for employees with perfect social skills, interrelationship capabilities, and fluency in several
47 foreign languages will probably decrease, because new-generation technologies can achieve
48 these tasks more effectively and efficiently. For example, a Japanese smart face mask
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3 translates eight languages; thus, employees do not have to be fluent in several foreign
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5 languages, but they do need to keep up with new developments in technology and
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7 digitalization (CNN Business, 2020). A transformative perspective is therefore needed to
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9 develop employee skills and knowledge in the new normal, and organizations will need to
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11 support their employees with appropriate training and development. Thus, our transformative
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13 perspective proposes that interrelationship skills will be replaced by technological skills, and
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15 training facilities need to be reconsidered on this basis.
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19 Our framework also proposes that employee transformation is life-long and involves
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21 continuous searching for alternative roles and positions according to the requirements of the
22
23 new normal. For example, the pandemic requires people to maintain social distancing, and
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25 therefore employees need to offer services in a way that respects customers' health and safety.
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27 This may force employees to use technology in service settings more effectively. Hence,
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29 employees need to adopt the roles that will allow them to develop immediate transformative
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31 responses to crises in the post-pandemic world. In our framework, hospitality employees will
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33 not only perform their transformed roles and tasks but will always be ready for a new
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35 transformation when required.
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40 The proposed transformative marketing structure anticipates that another substantial
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42 effect of the recent pandemic will be on customers' perspective and worldview. The pandemic
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44 can be regarded as a disorienting dilemma, defined by transformative learning theory as an
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46 individual's experience with an unfamiliar condition or a shock. The dilemma triggers the
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48 acquisition of new knowledge and understanding regarding different situations and lifestyles
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50 (Soulard *et al.*, 2019). Drawing on this conceptualization, we propose three steps for
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52 explaining customers' transformative experiences: (1) global awareness, (2) novel
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54 perspectives, and (3) revised roles and interpersonal relationships.
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3 The pandemic has restricted our relationships, and individuals have reconstructed their
4 social lives accordingly. From the hospitality perspective, whereas people used to participate
5 in mass travel and expected more personalized service from service providers, now they place
6 greater emphasis on health and safety. For customers, health and safety are the new non-
7 negotiable determinants in the service structure. From the services marketing perspective, the
8 transformation of customer demand will continue as long as technological development
9 proceeds. This leads to novel perspectives in line with the requirements of the new normal.
10 Our framework proposes that customers will have new viewpoints for dealing with the
11 detrimental effects of complexity and chaos. For instance, due to the recent pandemic,
12 customers now place greater emphasis on nonpharmaceutical measures as a way of coping
13 with fears, worries, and anxiety. This is reflected in revised roles and interpersonal
14 relationships in our framework. As argued by transformative learning theory, disruption or a
15 global event like the pandemic can lead to transformation in people's roles and in their
16 associations with others.
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35 Furthermore, our framework anticipates the dilemma that although people will
36 prioritize their own health and safety, they will nevertheless monitor others' health and safety
37 closely because of the risk of contamination. To minimize this risk, tourists will be looking
38 for untact services (Bae and Chang, 2021), and this will stimulate low-touch and high-tech
39 service solutions in the post-pandemic world. Customers' decision-making processes,
40 including searching, evaluating alternatives, and buying a service/product, are likely to be
41 transformed, since many people's priorities have changed in the wake of the pandemic. For
42 example, for many customers today, quality equals health. Hence, our framework proposes
43 that customers' roles, relations, and quality perception are not stable but dynamic and
44 transformative.
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3 The next section proposes a number of transformative actions, including precise and
4 peculiar examples of transformative marketing structure in hospitality organizations in the
5 new normal.
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10 **Transformative implications of the framework**

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13 This section provides examples of what the transformative marketing structure offers to
14 hospitality organizations in the post-pandemic world, including specific recommendations for
15 each type of actor in the structure (companies, employees, and customers).
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20 *Implications for companies*

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23 Based on the three-stage transformation of hospitality organizations proposed in our
24 framework, the following implications are offered as specific examples of the transformative
25 marketing structure in the new normal.
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31 *Short-term transitions.* One of the main objectives of hospitality organizations was to
32 sell their goods and services as much as possible to increase their financial performance and
33 gain a competitive advantage over their rivals in the market. It was commonly suggested that
34 to obtain financial success, hotels needed to use their full capacity and interpersonal service
35 delivery, which required a high level of interaction between guests and employees (Ariffin
36 and Maghzi, 2012; Heskett *et al.*, 1994; Lin and Wong, 2020). In the new normal, however,
37 hotel organizations have been forced to transform their policies and practices, because
38 nonpharmaceutical measures, such as physical social distancing, make it impossible to
39 maintain the previous service design. In the short term, they need to start by reconsidering
40 capacity planning, limiting the number of guests to ensure social distancing. In the new
41 normal, hospitality businesses should develop a service delivery design that both satisfies the
42 guests' expectations and fits the organization's resources and capabilities (Seyitoglu and
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3 Ivanov, 2020). They need to concentrate on the health and safety of customers and workers
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5 and on physical distancing.
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8 Hospitality organizations can also adopt untact services to limit face-to-face
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10 interaction (Bae and Chang, 2021). In the short term, this could include the use of contactless
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12 check-in and check-out, keyless room access, and digital menus to generate a trouble-free
13
14 travel experience for customers. Another way for organizations to create a “COVID-19-free”
15
16 marketing structure for customers is to vaccinate managers/supervisors and employees at all
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18 levels, and to improve the firm’s health infrastructure (Gursoy et al., 2021).
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22 *Research and development.* Hospitality companies’ R&D strategy should include three
23
24 components: innovation, project management, and prevention. Innovation can prompt fresh
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26 opinions, decisions, outcomes, and creativity, which can lead to novel products and services.
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28 It can also trigger the improvement of firm-level capabilities through a process of trial and
29
30 error (Palmié *et al.*, 2019) that reflects the effectuation component. Through innovation, hotel
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32 organizations can better integrate new-generation technologies, such as artificial intelligence
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34 and service robots, into their service delivery design.
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38 Project management, the second component of R&D, can be defined in terms of the
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40 procedures, approaches, abilities, knowledge, and experience that facilitate the
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42 accomplishment of the organization’s specific purposes. Project management can help
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44 hospitality companies to control or avoid failures, which mitigates the risks of trying new
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46 policies and approaches. For example, a project to ensure a service delivery design based on
47
48 physical social distancing could generate a unique selling proposition and improve the
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50 organization’s image, thereby attracting the attention of potential guests.
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54 Prevention, the last component of R&D, also has an association with effectuation, in
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56 that a hospitality organization looking for new market opportunities, which could be
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58 completely different from the existing demand and operations, can retain competitiveness by
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3 discovering novel target markets. R&D stimulates hospitality companies to investigate and
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5 test activities that may or may not be implemented. This process of trial and error can help
6
7 companies to develop preventive approaches for dealing with future crises. For example,
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9 given the current international travel restrictions, hotel companies can focus on the domestic
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11 market to make up for their losses.
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14 *Exploiting technological facilities.* In line with nonpharmaceutical measures, new-
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16 generation technologies (including AI, service robots, and smart devices) may be a useful tool
17
18 for maintaining physical distance. In the post-COVID-19 period, the use of new-generation
19
20 technologies is likely to become widespread, as customers will be more concerned than
21
22 previously about their safety and security when buying goods and services from hospitality
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24 organizations (Zeng *et al.*, 2020). In this sense, new-generation technologies may dramatically
25
26 affect the future of hospitality service design (Belk, 2020). Therefore, hospitality firms should
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28 adopt a flexible approach in keeping up with recent developments in technology and applying
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30 these innovations in their service design.
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35 In the new normal, long-term forecasting is unlikely to be accurate, and substantial
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37 change may occur when it is not expected; hence, adaptiveness and flexibility are vital for the
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39 survival of organizations (Levy, 1994). By being flexible, hospitality companies can keep up
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41 with developments in virtual reality devices, service robots, smart systems, and intelligent
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43 automation, and those technologies can inaugurate a new era in service by replacing human
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45 labor in the service encounter (substitution of service workers; Larivière *et al.*, 2017). Using
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47 new technology could give a hospitality firm a competitive advantage over its rivals, since
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49 artificial intelligence systems can provide better service than human employees. In addition,
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51 adopting new-generation technologies can make it easier for hotel practitioners to deliver
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53 items to rooms, to advertise, promote, and market the hotel brand and destination, and to
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55 process payments (Ivanov *et al.*, 2018). Applying new technology and smart devices can
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3 therefore provide services that run autonomously without labor intervention, which may be
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5 critical for the survival of organizations during periods of crisis. The adoption of new
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7 technology can significantly enhance service quality, eliminating possible failures due to
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9 human error (Bock *et al.*, 2020; Lien *et al.*, 2021). Thus, we propose that the pandemic will be
10
11 a trigger for technological transformation in the service delivery systems of hospitality
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13 organizations, since customers will be deeply concerned about their health and safety in the
14
15 post-pandemic era (Jiang and Wen, 2020).
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19 We further propose that the aforementioned transformations cannot be accomplished
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21 without transformational leadership, since a reconsideration of organizational policy and
22
23 service design will necessitate a transformative approach. According to Bass and Riggio
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25 (2006), transformational leaders are more likely to view objectives as more important than
26
27 avoiding the violation of rules and precedents. Moreover, these leaders are more likely to
28
29 change the rules and even the culture as needed over time. Hospitality businesses encouraging
30
31 this style of leadership will successfully transform their organizational policy and service
32
33 design. Without transformational leadership, the existing structure will persist, albeit with
34
35 small-scale revisions and precautions to ensure hygienic conditions, and this may be sufficient
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37 in smaller-scale crises or epidemics. However, when the next global pandemic takes place –
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39 as many scholars have argued that it will – the existing structure will not work, and
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41 organizations will again be forced to seek solutions on an emergency basis (Alonso *et al.*,
42
43 2020; Benjamin *et al.*, 2020; Kabadayi *et al.*, 2020). This opportunity for technological
44
45 transformation should not be missed. When the next global crisis takes place, transformed
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47 hospitality companies in which the employee-based service delivery system has been replaced
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49 by a technology-based approach will be in the strongest position.
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Implications for employees

As explained above, we propose a four-stage process of employee transformation:

- (1) experiencing a disorienting dilemma, (2) searching for alternative roles and positions,
- (3) obtaining skills and knowledge for transformation, and (4) performing transformed roles.

Disorienting dilemma. The recent pandemic has been considered as a milestone in the development of the hospitality marketing structure, because it has radically altered customer behaviors and expectations (Baum *et al.*, 2020). The desirable characteristics of hospitality service have transformed from “personalization” or “warm welcome” (Ariffin and Maghzi, 2012; Bayighomog and Arasli, 2019; Chandni and Rahman, 2020) to “socially distanced.” As part of this transformation, employees have been led to reconsider their roles and positions in the new normal.

Searching for alternative roles and positions. Hospitality companies have to redesign their service delivery to provide a high level of physically distanced service in the post-pandemic era. This change requires reconsideration of employees and their roles, and hospitality employees should pay close attention to the priorities of companies and customers. Companies must mitigate guests’ anxiety by keeping them safe. Employees should therefore seek alternatives ways of providing healthy and safe service to customers (Hofmann *et al.*, 2021). For example, vaccination of hospitality employees and hiring employees who have vaccine passports can mitigate customers’ anxiety. Employees should understand that their new roles are completely different than their previous ones, because ensuring safety and health is now more important than providing warm, personalized service.

Obtaining skills and knowledge for transformation. Hospitality employees should adapt to the new conditions by improving their knowledge of health and safety precautions. In other words, they should learn and abide by the health and safety rules, and they need to be trained in these matters to improve their ability to do this. In addition, they should be aware of

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3 the importance of new-generation technologies, which entails being equipped with the skills
4 and knowledge necessary to quickly and effectively adopt new technology, including service
5 robots, artificial intelligence, and smart devices.
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10 *Performing transformed roles.* Hospitality employees must also adjust to their new
11 roles and positions. This may involve effective use of smart devices in service delivery, or
12 collaboration with service robots in offering service to customers who are looking for social
13 relations and interaction or who expect human service. The new roles require strict employee
14 compliance with health precautions during customer service, including being vaccinated.
15 Adopting and successfully performing transformed roles and positions can ensure excellent
16 service in a hospitality setting, resulting in customer satisfaction and loyalty, which
17 contributes to the profitability and growth of hospitality companies, supporting their survival
18 during difficult trading times.
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30 *Implications for customers*

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34 Our framework proposes three steps for customers' transformative actions: (1) global
35 awareness, (2) novel perspectives, and (3) revised roles and interpersonal relationships.
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39 *Global awareness.* In the wake of the COVID-19 outbreak, people have encountered
40 the reality of global crises and their devastating impacts on mankind, in many cases for the
41 first time. People have closely followed recent developments on the global scale, which has
42 given them a broader sense of the world. This can be considered an opportunity for people to
43 increase their awareness and understanding, improving their global perspective and equipping
44 them with new knowledge. Individuals' transformative learning experience of being exposed
45 to the pandemic will shape their travel behaviors, attitudes, and intentions, as well as their
46 decision-making processes. Thus, the pandemic has fortified customers' global awareness in
47 the new era. For example, customers may in future prefer boutique hotels in more isolated
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3 areas to large chain hotels in popular resorts, in accordance not only with their own health and
4 safety but with that of other guests and service providers.
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8 *Novel perspectives.* People who improve their global awareness and citizenship have a
9 novel viewpoint on travel and tourism, which brings a clearer understanding of the
10 detrimental impacts of global crises and may change behaviors and attitudes. COVID-19 has
11 changed travelers' viewpoints by generating a wave of stress and worry unfamiliar to many in
12 recent years (Zwanka and Buff, 2021). Travelers have reconsidered their perspectives and
13 habits, with a renewed focus on physiological and psychological welfare (Jiang and Wen,
14 2020). In the new normal, cleanliness and sanitation will be even more important to travelers
15 (Gössling *et al.*, 2020), who will prioritize the adoption of nonpharmaceutical measures in
16 their lives. Therefore, hospitality guests are likely to take a keen interest in cleaning and
17 hygiene measures and vaccine procedures when making a travel decision (Park *et al.*, 2019).
18 For example, Greece is planning to vaccinate the entire population of its islands to create a
19 "COVID-19 free" tourist environment for international travelers. However, this will require
20 travelers to show their "vaccine passports" before entry. Israel is one of the few countries
21 where the population has been extensively vaccinated; because it addresses the health and
22 safety concerns of international travelers, this is a source of competitiveness in the industry
23 (Gössling *et al.*, 2020; Memish *et al.*, 2021).
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45 *Revised roles and interpersonal relationships.* The pandemic has also affected roles
46 and interpersonal relations. Customers used to play an active role in the co-creation process
47 and have close interactions with service employees (Chathoth *et al.*, 2013). However, in the
48 new normal, it is vital for hospitality organizations to focus on developing a safe service
49 delivery design and to address guests' anxiety. Travelers may expect more digitalization in
50 the service design to reduce perceived health risks by limiting social interactions. Zeng *et al.*
51 (2020) suggested that adoption of new technology could transform the conventional high-
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3 touch, low-tech customer experience into a low-touch, high-tech experience, thus reducing
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5 interaction between guests and service providers (Shin *et al.*, 2019). Overall, the
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7 transformative marketing structure proposes that in response to the pandemic, the untact
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9 lifestyle may gain in popularity among customers, with a substantial effect on their pre- and
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11 post-buying behaviors and attitudes. These changing roles and interpersonal relations can be
12
13 fulfilled by designing and providing safe and comfortable experiences characterized by a
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15 technology-based service structure, thereby promoting the future survival and development of
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17 hospitality organizations.
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22 **Conclusions**

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25 The aim of this study is to assess the extent to which a chaos theory-based approach can
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27 provide a transformative framework for hospitality organizations' reactions to crises. Drawing
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29 on research into the progress of and reactions to the effects on the hospitality industry of the
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31 COVID-19 pandemic, it clarifies the extent to which an alternative approach, adopting the
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33 principles of chaos theory, is reflected in and can improve the reaction of the hospitality
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35 industry to the crisis.
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40 Three main conclusions can be drawn. First, the massive negative impacts of the
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42 pandemic are clear, and they call into question the potential effectiveness of existing service
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44 marketing models. Drawing on the concept of the edge of chaos, one of the underlying
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46 principles of chaos theory, we can characterize the new normal as a situation in which the
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48 COVID-19 pandemic will trigger a series of further events that bring the hospitality industry
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50 to the edge of chaos. Second, we suggest that the unfolding and outcomes of the pandemic
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52 show that the principles of chaos theory, namely bifurcation and cosmology, can be useful in
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54 reconstructing services marketing channels. The proposed transformative chaos theory-based
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56 structure identifies appropriate changes of direction, characteristics, and new structures of
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3 hospitality marketing channels in the new normal. Four marketing channels are identified:
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5 external, internal, interactive, and substitutional.
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8 Furthermore, drawing on self-organization, another underlying tenet of chaos theory,
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10 we propose a transformative services marketing structure for hospitality organizations as a
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12 response to the complex and chaotic nature of the COVID-19 pandemic. The transformative
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14 structure involves three main actors (organizations, employees, and customers) and
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16 acknowledges their growing importance as strange attractors in the hospitality industry.
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18 Analyzing the transformed roles and positions of companies, human labor, and customers in
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20 the proposed framework and discussing a unique pathway for each actor are crucial factors in
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22 the (re)conceptualization of the hospitality services marketing structure, because investigation
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24 of transformative marketing structure and hospitality actors' changing roles using the
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26 underlying principles of chaos theory remains scarce. Hence, this study provides a meaningful
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28 contribution to our understanding of services marketing in hospitality.
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33 Morrison's (2010) services marketing triangle, commonly used in tourism and
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35 hospitality studies to shape the service flow procedure, is the fundamental services marketing
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37 model. However, the current pandemic has required hospitality practitioners and
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39 academicians to transform the overwhelming majority of existing models, concepts, and
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41 theories; in other words, the pandemic can be considered as a milestone on the road to the
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43 renewal of existing knowledge and understanding. Underpinning the transformation process
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45 with chaos theory and the effectuation and transformative learning approaches provides a
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47 deeper understanding of how the hospitality industry will change as a result of COVID-19.
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49 These theories shed light on the importance of chaos (local or global) and shocks for the
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51 transformation of firms and the changing roles, behaviors, attitudes, and beliefs of individuals
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54 (Kitchenham, 2008; Mezirow, 1997; Sarasvathy, 2009; Speakman and Sharpley, 2012).
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3 The contribution of this paper lies in the conceptual pathways it suggests for
4 transforming hospitality firms, employees, and customers and for demonstrating their
5 transformed roles and positions in the new normal (as illustrated in Figure 1). First, using the
6 effectuation approach, our study proposes three phases for justifying the transformation of
7 hospitality companies. Hospitality firms should concentrate on short-term transitions to adjust
8 their existing forms immediately, and then R&D should be prioritized to ensure the
9 affordability of any losses and to anticipate the future. The companies also need to exploit
10 technological facilities by increasing their flexibility. Second, using the conceptual guidelines
11 of transformative learning theory, we develop a four-step transformation process for
12 hospitality employees starting from the experience of the pandemic as a disorienting dilemma.
13 To adapt effectively, hospitality employees should search for a number of alternative roles
14 and positions, acquiring the new skills and knowledge necessary for transformation. This will
15 enable them to perform their transformed roles effectively in the new normal. Our conceptual
16 framework also includes three stages of customers' transformative experiences: global
17 awareness, novel perspectives, and revised roles and interpersonal relationships. We posit that
18 individual travelers have become more aware of global challenges and issues and that they
19 possess new perspectives on tourism and hospitality. From their new viewpoints, they are
20 likely to develop different roles and relationships with other actors, including locals,
21 hospitality companies, and employees.

22 We also predict the integration of new-generation technologies, which is highly likely
23 to prompt changes in behaviors, attitudes, and world beliefs within the new service structure.
24 If the transformed roles and tasks can be strengthened by adopting digitalization, short-term
25 or daily behavioral changes and habits in the new services marketing process may become
26 permanent transformations; this will include shifting perceptions of smart devices and robots,
27 adoption of technology-oriented lifestyles, use of technological tools in interpersonal
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3 relations, and feeling drawn to technological development. Finally, this study proposes a new
4 marketing channel, substitutional marketing, that will allow hospitality organizations to
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6 respond more effectively to the inevitable crises in the new normal.
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10 Our study is one of the first to propose and discuss a transformative marketing
11 structure within the hospitality context. To date, transformational changes in attitudes and
12 behaviors during travel have been studied by focusing on tourist experiences (Pung *et al.*,
13 2020; Robledo and Batle, 2017) and, to a limited extent, on tourism practitioners (Soulard *et*
14 *al.*, 2019); a transformative marketing structure that includes organizations, employees, and
15 customers in hospitality has not been examined. Our proposed conceptual map thus has the
16 potential to improve knowledge and understanding of how the COVID-19 pandemic can
17 result in long-lasting transformations of attitudes and behaviors.
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28 Furthermore, the current paper offers hospitality practitioners a new option for treating
29 the coronavirus pandemic as an opportunity to effect a permanent transformation in their
30 services marketing structure. The proposed framework recommends that hospitality
31 practitioners should ensure their transformation when planning their strategy for providing
32 services. Hospitality companies are encouraged to adopt R&D and innovation, including new-
33 generation technologies, and to increase awareness of the importance of transformation by
34 putting technical infrastructure in place and procuring the necessary equipment and smart
35 devices (such as robotics and AI). They are also encouraged to minimize interactions between
36 frontline employees and customers, which should definitely be avoided after the pandemic,
37 and to enhance customers' experiences of technological innovations by offering virtual or
38 smart service implementations. Furthermore, hoteliers need to focus on generating new
39 market opportunities to make up for their losses in the new period. For example, they can
40 respond to international travel restrictions by developing new marketing and promotion
41 activities to attract domestic travelers.
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3 A significant challenge for hospitality practitioners is that the transformation of
4 management practices and marketing activities makes it necessary to keep up with the latest
5 technological developments to provide better service in the new normal and to ensure
6 customers' health and safety. To trigger and reinforce such a permanent change in hospitality
7 companies, destination marketers and governments may have to provide political and/or
8 financial support and incentives. On the one hand, hospitality practitioners should provide
9 training for their employees to improve their balance in terms of technological innovation and
10 to enhance their skills and capabilities in utilizing smart devices; this must include the ability
11 to resolve any issues that arise from the use of these new-generation technologies.
12
13 Practitioners should also help customers to intensify their transformative learning about the
14 use of new-generation technologies, inspiring them to choose hospitality companies that
15 provide technology-centered services. Permanent changes in customer behaviors and attitudes
16 due to technological innovation in the services marketing structure can also lead to positive
17 electronic word of mouth, which will trigger other customers to choose hospitality companies
18 that provide similar services. Through this process, the hospitality industry can bounce back
19 in the post-pandemic world.
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40 This study has a number of theoretical limitations. Despite our efforts to review all the
41 literature on relevant topics, our interpretations and reconceptualization of existing service
42 structures lead to subjective outputs that may limit the study's generalizability. Nevertheless,
43 besides empirical investigations, the current study offers a deep discussion of interdisciplinary
44 concepts and theories of the pandemic crisis, services marketing, chaos, effectuation, and
45 transformative learning so as to produce a transformational effect of the COVID-19 pandemic
46 on hospitality marketing structure. Future studies can build on this knowledge by focusing on
47 specific implications of the proposed transformative structure in the tourism industry in
48 general or in its subsectors (i.e., transportation, restaurants, and airlines). Future investigations
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3 could also develop a specific framework for the integration of the tourism and hospitality
4 workforce into the new normal to minimize the risks of transforming the service structure, to
5 generalize existing knowledge of the transformation procedure, and to contribute to the
6 continuing conceptualization of the services marketing structure in the post-pandemic world.
7
8 Finally, although chaos theory has the potential to explain the pandemic and its massive
9 negative effect on the sustained performance of tourism destinations and organizations, it may
10 also provide several methods of understanding and coping with the implications of the
11 COVID-19 pandemic for destination governance and competitiveness. We therefore
12 recommend further investigation in this area.
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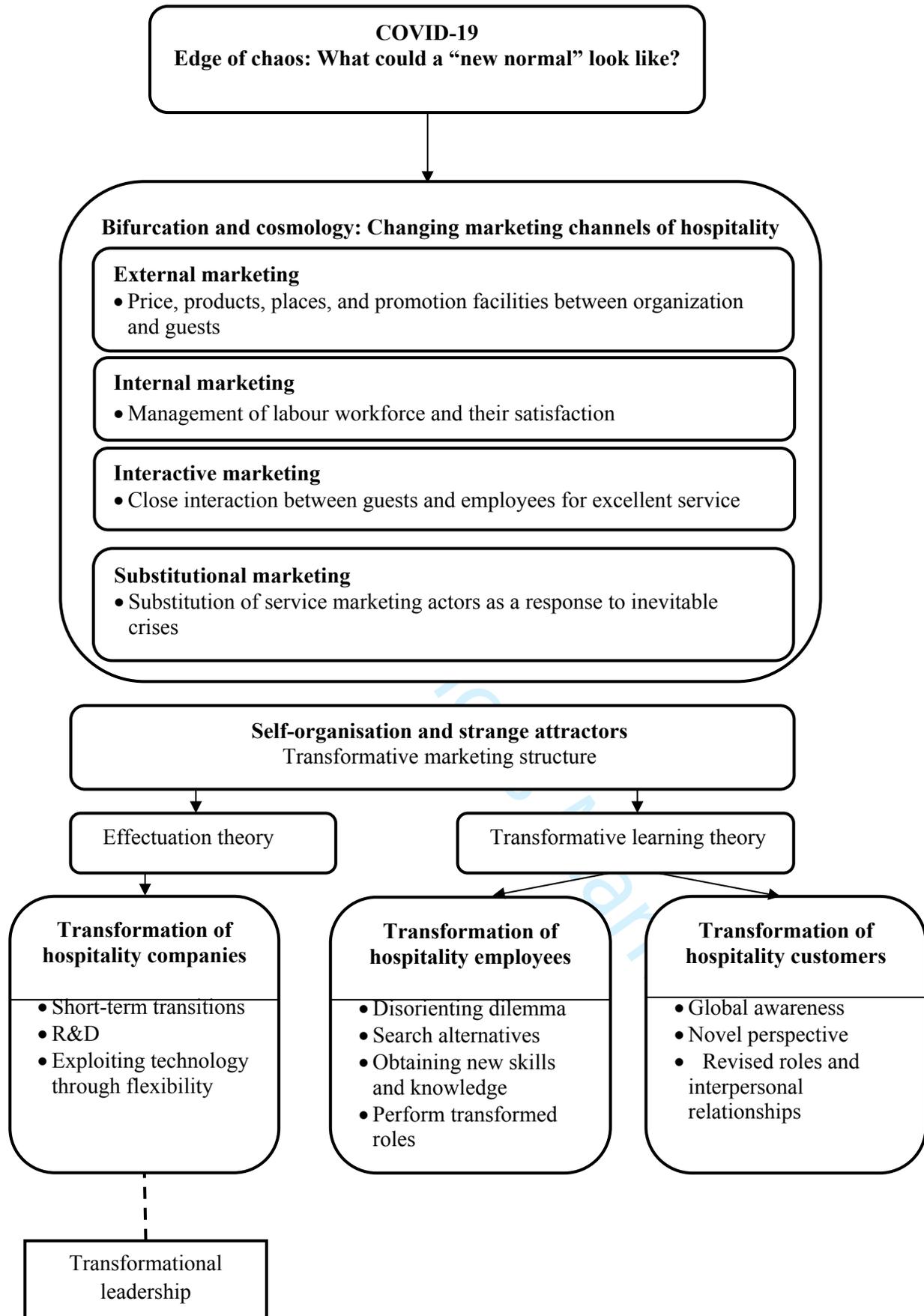


Figure 1: Proposed conceptual framework for the transformation of the hospitality services marketing structure.