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Adoption and impact of marketing performance assessment systems among travel agencies

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Adoption and impact of marketing performance assessment systems among travel agencies

Purpose

The purpose of this paper is to assess whether travel agencies that implement comprehensive marketing performance assessment systems (MPASs) enjoy superior overall performance. Drawing on the Knowledge-Based View, we propose and test a model demonstrating that the relationship between MPASs and overall performance is fully mediated by the depth of market-related knowledge absorbed by the travel agency.

Design/methodology/approach

A survey was administered to a sample of Italian travel agencies; 171 complete questionnaires were received. The suggested relationships were assessed using a covariance-based structural equation modeling approach, including the estimation of both the measurement model and the structural model.

Findings

The findings indicate that the implementation of sophisticated MPASs has a significant and positive effect on performance and that this relationship is fully mediated by the depth of market-related knowledge absorbed by the travel agency. In addition, the results highlight that the number of marketing metrics monitored by the travel agency has no effect on its performance.

Research limitations/implications

The specific features of the travel agency sector in Italy include a remarkable level of fragmentation. The cross-sectional design does not permit an assessment of the medium-term effects of the adoption of an MPAS.

Practical implications

Travel agencies selecting proactive marketing strategies can particularly benefit from the adoption of sophisticated MPASs. Suggestions are provided to assist managers in designing their MPAS.

Originality/value

This study enriches the field's knowledge about marketing performance measurement and proactive marketing strategies and indicates that the implementation of well-designed marketing performance assessment systems improves a firm's overall performance. It also explains the knowledge-related processes that produce this positive effect.

Keywords: marketing performance measurement, travel agencies, marketing metrics, performance assessment, tourism.

Research paper

For Review Only

Adoption and impact of marketing performance assessment systems among travel agencies

Introduction

Challenged by growing competition and market saturation, tourism and hospitality firms are increasingly focusing on proactive marketing strategies to reinforce their competitive position (Alonso-Almeida *et al.*, 2015; Alonso-Almeida and Bremser, 2013; Becerra *et al.*, 2013; Kandampully *et al.*, 2015). In particular, both traditional and online travel agencies are taking specific marketing actions to react to the severe structural changes that have affected their sector (Dolnicar and Laesser, 2007; Huang, 2013; Huang *et al.*, 2009; Inversini and Masiero, 2015; Law *et al.*, 2015; Lawton and Weaver, 2009). This sector has reached a mature stage in several developed countries (Avci *et al.*, 2011), and the development of the Internet as a new distribution channel has profoundly changed both the buying habits of tourists and the distribution strategies of tourism and hospitality firms (Alvarez *et al.*, 2007; Law *et al.*, 2004; Law *et al.*, 2015; Lawton and Weaver, 2009).

Travel agencies that focus on proactive marketing strategies enjoy superior customer satisfaction, higher financial results, and a competitive advantage (Avci *et al.*, 2011). The successful implementation of these proactive marketing strategies (Seilov, 2015) requires frequent adjustments of resource allocation across alternative marketing programs to optimize the effectiveness and efficiency of marketing investments and, in turn, improve overall firm performance (Bruni *et al.*, 2014). These strategies are based on the ability to collect real-time measures of marketing performance and to use them to enhance marketing decisions (Bruni *et al.*, 2014; Ozkaya *et al.*, 2015).

Experience-based performance measures have already been adopted in the travel agency sector (Huang, 2008), and some travel agencies are collecting real-time data on the impact of their marketing actions (Almunawar *et al.*, 2013). However, several studies have highlighted that these data are useless if proper mechanisms to factor this information into decision making are not established beforehand (Almunawar *et al.*, 2013; McManus, 2013). Recent research (Frösén *et al.*, 2013; Homburg *et al.*, 2012) suggests that the successful implementation of proactive marketing strategies requires the adoption of a comprehensive Marketing Performance Assessment System (MPAS), which consists of a set of formalized routines and procedures that use the information collected through a set of marketing metrics

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3 to improve the effectiveness and efficiency of marketing investments, with the final purpose
4 of enhancing the firm's performance.

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6 No study has demonstrated the existence of a relationship between the adoption of a well-
7 designed MPAS and firm performance in the travel agency and tourism sectors or in other
8 fields. Therefore, the purpose of this paper is to investigate whether travel agencies that adopt
9 a sophisticated MPAS enjoy higher overall performance than other travel agencies. More
10 precisely, applying the Knowledge-Based View (KBV) to tourism firms (Okumus, 2013), this
11 study proposes a model in which the impact of MPAS on travel agency performance is fully
12 mediated by the depth of market-related knowledge gained by the travel agency.
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17 Demonstrating the existence of this effect will fill a significant theoretical gap regarding
18 marketing performance measurement and knowledge use among tourism firms. In addition,
19 the findings will provide travel agencies (and other firms) with guidance on how to design
20 their MPASs to improve their overall performance.
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24 In the remainder of the paper, we introduce the theoretical framework and develop our model.
25 We then describe the method, present the results, and highlight the implications and
26 conclusions.
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30 31 **Theoretical framework**

32 Marketing performance measurement has no effect on firm performance if it is not a
33 systematic process (Eusebio *et al.*, 2006) and if the mechanisms to use the collected
34 information to enhance decision-making are not previously established (Järvinen and
35 Karjaluoto, 2015; McManus, 2013). Consequently, recent studies have suggested that firms
36 should adopt an MPAS, which should specify the routines and procedures that support the
37 integration of the information collected into marketing decision-making (Frösén *et al.*, 2013).
38 A well-designed MPAS will enhance the effectiveness and efficiency of a firm's marketing
39 investments via several mechanisms by providing data inputs for planning and decision
40 making, offering timely feedback on marketing strategy implementation, and signaling
41 marketing priorities (Homburg *et al.*, 2012; Morgan *et al.*, 2007).
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49 However, there is still no evidence that adopting a sophisticated MPAS positively influences a
50 firm's overall performance. To close this gap, we suggest a model that adopts a KBV of the
51 firm (Grant, 1996). KBV states that the performance of the firm is related to its ability to
52 absorb and manage knowledge. In particular, acquiring market-related knowledge is
53 fundamental to enhancing the firm's market response capability and, thus, its performance
54 (Cui and Wu, 2015; Jayachandran *et al.*, 2004). In detail, market-related knowledge "is the
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3 knowledge about customers and competitors” necessary to understand target markets and to
4 satisfy these markets better than the competition (Marinova, 2004, p.3).

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6 Drawing on these premises, our model posits that an MPAS will improve a travel agency’s
7 performance if it is able to provide the firm with usable in-depth knowledge about the market.
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9 In other terms, we posit the existence of a positive relationship between the level of
10 sophistication of the MPAS and the travel agency’s performance, and we suggest that this
11 relationship is fully mediated by the depth of market-related knowledge that is allowed by the
12 MPAS.
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16 17 18 ***Model development***

19 To impact firm performance, market-related information should be transformed into relevant
20 and usable knowledge (Ozkaya *et al.*, 2015) via appropriate rules and routines (Grant, 1996).
21 A sophisticated MPAS sets specific procedures and routines to process the information
22 collected through marketing metrics, with the aim of providing decision-makers with
23 managerially actionable knowledge (Frösén *et al.*, 2013).
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26 In detail, a sophisticated MPAS specifies which performance dimensions should be measured,
27 through which indicators and with which frequency; establishes a target level of performance
28 to be met for each indicator; clearly identifies who in the organization is in charge of
29 preparing reports about the monitored indicators; establishes with what frequency and level of
30 detail those reports should be produced; and identifies who is charge of evaluating the results
31 contained in the reports and make the related decisions (Bruni *et al.*, 2014; Frösén *et al.*,
32 2013; Homburg *et al.*, 2012; O’Sullivan and Abela, 2007). Therefore, we propose the
33 following hypothesis:
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43 H1: An MPAS’s level of sophistication positively influences the depth of market-related
44 knowledge gained by the travel agency.
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48 Previous studies about knowledge management in hospitality organizations have shown that
49 the absorbed knowledge has the potential to improve the quality of decision making (Okumus,
50 2013). More specifically, using market-related knowledge enables a travel agency to respond
51 quickly to early signs of opportunities and changes in customer preferences, thus improving
52 its overall performance (Avci *et al.*, 2011; Chen and Myagmarsuren, 2013; Shah *et al.*, 2015).
53 In addition, knowledge about the effects of specific marketing actions can be used by
54 decision-makers to optimize the performance of their marketing programs, thus improving the
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3 overall performance of the travel agency (Eusebio *et al.*, 2006). Therefore, we posit the
4 following hypothesis:
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8 H2: The depth of market-related knowledge gained by the travel agency positively influences
9 travel agency performance.
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12 As stated above, we posit that the depth of knowledge about customers and competitors
13 gained by the travel agency fully mediates the effect of the MPAS's level of sophistication on
14 travel agency performance. This statement is consistent with the KBV, which specifies that
15 the performance of a firm is dependent on the absorbed knowledge (Grant, 1996; Wiklund
16 and Shepherd, 2003; Zhou and Li, 2012). Therefore, the adoption of a sophisticated MPAS
17 will not impact travel agency performance directly. Rather, it will impact performance only
18 through its positive effect on absorbed knowledge. Therefore, we suggest the following:
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26 H3: The depth of market-related knowledge gained by the travel agency fully mediates the
27 impact of the MPAS's level of sophistication on travel agency performance.
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31 **Method**

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33 A cross-sectional design relying on a questionnaire-based survey was used. The questionnaire
34 was structured into two sections. The first section included questions about the demographic
35 characteristics of the travel agencies, covering aspects such as the number of employees,
36 revenue, the use of offline and/or online channels, and the type of customers (consumers
37 and/or business customers). In addition, respondents were given a list of 20 marketing metrics
38 derived from previous studies (Avci *et al.*, 2011; Bruni *et al.*, 2014) and asked to indicate the
39 metrics adopted by their travel agencies. For the selected metrics, participants were also
40 required to report the frequency of measurement (monthly or more frequently; less frequently
41 than once a month but at least once a year; less frequently than once a year).
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48 The second section of the questionnaire included multiple-item measures of the three main
49 constructs (level of sophistication of MPAS, knowledge depth and travel agency's
50 performance). Most of the items used to measure these three constructs (Table 3) were taken
51 from previous studies, with some adaptations to the specific research setting. The level of
52 sophistication of an MPAS was measured using five items (1 = strongly disagree; 7 = strongly
53 agree) adapted from the "brand management system" construct by Lee *et al.* (2008) and from
54 the "norms" construct by Baumgarth (2010). Knowledge depth was measured by three items
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3 (1 = strongly disagree; 7 = strongly agree) adapted from Zhou and Li (2012). Finally, the
4 three items used for firm performance (1 = very poor; 7 = outstanding) were developed by
5 O'Sullivan and Abela (2007) and have been widely applied in similar studies (e.g., Ozkaya *et*
6 *al.*, 2015).
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10 In addition, we included three control variables: travel agency size (number of employees),
11 travel agency age (number of years since foundation) and number of metrics included in
12 MPAS (number of metrics measured at least once a year). This choice is in line with several
13 previous studies that have suggested and reported impacts of travel agency size (Johns *et al.*,
14 2004; Law *et al.*, 2015; Sellers-Rubio and Nicolau-Gonzálbez, 2009) and travel agency age
15 (Almunawar *et al.*, 2013; Seilov, 2015) on the performance of the travel agency. Similarly, it
16 has been argued that the number of metrics monitored by the firm may have an influence on
17 performance (O'Sullivan and Abela, 2007).
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21 The survey was distributed online to a sample of 2,169 travel agencies in Italy. The contact
22 details for the selected agencies were taken from public lists made available by Italian
23 provinces/regions. In Italy, each travel agency must register on a public list managed by its
24 province/region before beginning operations. Geographical sampling was applied based on
25 the most recent available data about the Italian travel agency sector, which indicates that
26 29.9% of travel agencies are in the Northwest region, 16.5% are in the Northeast region,
27 24.6% are in the Central region, and 29% are in the South of Italy (Fiavet and EBNT, 2010).
28 Data were collected in September-October 2014. Reminder e-mails were sent to non-
29 respondents two weeks after the first invitation.
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33 A total of 171 usable answers were received, corresponding to a response rate of 7.88%.
34 Similar to Avci *et al.* (2011), the low response rate may be due to the small dimensions of the
35 travel agencies. In Italy, each travel agency has 4.2 employees on average, among the smallest
36 in the European Union (Fiavet and EBNT, 2010).
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40 Given the low response rate, non-response bias was estimated by applying two of the methods
41 suggested by Armstrong and Overton (1977). First, we compared the profile of the sample
42 with the whole population of Italian travel agencies on the following key characteristics:
43 number of employees, revenue, geographical location (Northwest, Northeast, Center or South
44 of Italy). Statistics for the population of Italian travel agencies were gathered from the
45 national report edited by Fiavet (Italian federation of travel intermediaries) and EBNT (Italian
46 organization of tourism operators and employees), which is based on official data about each
47 of the Italian travel agencies (Fiavet and EBNT, 2010). No significant difference was found
48 from the comparison.
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3 Second, an extrapolation test was carried out over the two successive waves of the
4 questionnaire, comparing answers collected before and after the reminder e-mails had been
5 sent. This analysis is based on the assumption that people who responded later decided to
6 respond because of the increased stimulus; thus, they are similar to non-respondents
7 (Armstrong and Overton, 1977). The two groups of respondents were compared on several
8 key variables via χ^2 tests and t-tests. This analysis highlighted no significant differences.

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10 The hypotheses were then tested using covariance-based structural equation modeling, which
11 responded to the priority of reproducing the covariance matrix rather than focusing on
12 explained variance (Hair *et al.*, 2011). Before conducting this analysis, data were screened to
13 assess the absence of extreme collinearity and outliers and to check the assumptions of
14 normality, linearity and homoscedasticity (Kline, 2011). First, to detect collinearity, we ran
15 several multiple regressions, each with a different variable as the dependent variable and the
16 others as the independent variables. For all the regressions, R^2 was smaller than the cutoff of
17 0.90 (Kline, 2011), suggesting that collinearity was not a serious issue. In addition, the
18 absence of outliers was confirmed by analyzing the value of the Mahalanobis distance (D) for
19 each case. Regarding normality, the highest values for skewness and kurtosis were 1.027 and
20 1.143, respectively, well below the conservative values of 3 and 8 (Kline, 2011). Therefore,
21 we could conclude that the data were normally distributed. Finally linearity and
22 homoscedasticity were checked and confirmed via the examination of the plot of residuals.

33 Results

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36 Table 1 provides an overview of the characteristics of the travel agencies included in the
37 sample. In particular, the data demonstrate that the vast majority of agencies are small, with
38 fewer than 5 employees and revenues lower than 1 million Euros per year. Hence, the
39 sampled agencies reflect the average small dimension of Italian travel agencies (Fiavet and
40 EBNT, 2010).

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51 Table 2 presents the results for the types of marketing metrics adopted by the travel agencies
52 and the frequency of measurement. Following Bruni *et al.* (2014), the metrics have been
53 divided into three classes depending on the level of performance being measured: customer-
54 level, market-level and financial-level performance. On average, each participating travel
55 agency measured its marketing performance with 7.16 metrics once a month or more
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frequently and an additional 5.88 metrics at least once a year but less frequently than once a month.

(Insert Table 2 about here)

Before testing the hypotheses, we evaluated the measurement model (Table 3). The confirmatory factor analysis (CFA) showed a satisfying overall goodness of fit (Bagozzi and Yi, 2012; Kaplan, 2009). In detail, χ^2 (df=40) was equal to 53.28, yielding a value of χ^2 /df of 1.33, which is below the threshold of 3 (Kline, 2011). More importantly, the χ^2 was nonsignificant (p=0.07), suggesting that the estimated variance-covariance matrix reproduces the sample variance-covariance matrix. In addition, CFI was 0.99 and GFI was 0.94, well above the suggested cutoffs of 0.93 (Bagozzi and Yi, 2012) and 0.90 (Hu and Bentler, 1999), respectively. Finally, RMSEA was 0.04 (pclose=0.596) and SRMR was 0.03, below the recommended threshold of 0.07 for both (Bagozzi and Yi, 2012).

All the standardized factor loadings were greater than the ideal value of 0.70, highlighting good indicator reliability (Bagozzi and Yi, 2012). Composite reliability values ranged from 0.80 to 0.94, beyond the suggested level of 0.70 (Bagozzi and Yi, 2012). In addition, the average variance extracted (AVE) for each latent construct was greater than 0.50, thus confirming adequate convergent validity (Fornell and Larcker, 1981). Finally, the AVE of each latent construct was higher than the construct's highest squared correlation with any other construct, suggesting that discriminant validity was also met (Fornell and Larcker, 1981). Because the validity of the measurement model was confirmed, we were able to use the corresponding latent variables in the structural model.

(Insert Table 3 about here)

We first estimated a model including only the hypothesized structural effects (Model 1 in Table 4 and Fig. 1). The resulting model fit was particularly good. Chi-square (df=41) was 54.35 and, more importantly, nonsignificant (p>0.05). Moreover, the value of χ^2 /df was 1.32, which is well below the recommended threshold of 3 (Kline, 2011). CFI and GFI were 0.99 and 0.94, respectively, above the required levels of 0.93 (Bagozzi and Yi, 2012) and 0.90 (Hu and Bentler, 1999). In addition, the values of RMSEA (0.04) and SRMR (0.05) were below the suggested cutoff of 0.07 (Bagozzi and Yi, 2012).

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3 The results show that the MPAS's level of sophistication positively influences the depth of
4 knowledge gained by the travel agency ($\beta=0.312$, $p<0.01$). Therefore, hypothesis 1 is
5 supported. In addition, the depth of market-related knowledge gained by the travel agency has
6 a positive impact on travel agency performance ($\beta=0.336$, $p<0.01$). Therefore, hypothesis 2 is
7 also supported.
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11 We then tested the significance of the indirect effect of the level of sophistication of the
12 MPAS on performance via a Sobel test and obtained a value of 2.54 ($p<0.05$), which is
13 greater than the cutoff of 1.96 (Kline, 2011; Sobel, 1987). Therefore, it is possible to conclude
14 that the indirect effect of the level of sophistication of the MPAS on performance is
15 significant. In addition, to verify the existence of full mediation, we ran a Chi-square
16 difference test comparing the fully mediated model and the partially mediated model. The
17 results show that adding a direct relation between the MPAS' level of sophistication and
18 performance does not significantly improve the original model ($\Delta\chi^2(1)=1.07$, $p>0.10$).
19 Therefore, the depth of market-related knowledge gained by the travel agency fully mediates
20 the impact of the MPAS's level of sophistication on travel agency performance, which
21 supports hypothesis 3.
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24 The model was re-estimated by controlling each of the two hypothesized structural effects for
25 size, age and number of metrics. The estimations (Model 2 in Table 4) show that none of the
26 control variables has a significant effect. Hence, the size and the age of the travel agency and
27 the number of metrics included in its MPAS do not influence either knowledge depth or the
28 firm's performance. Moreover, when adding the control variables, the model fit worsened. In
29 detail, while χ^2 ((df=71)=150.78; $p<0.01$) and CFI (0.95) were acceptable, GFI (0.89),
30 RMSEA (0.08) and SRMR (0.11) were below the required minimum levels (Bagozzi and Yi,
31 2012; Hu and Bentler, 1999). Therefore, Model 1 was preferred over Model 2.
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(Insert Table 4 about here)

(Insert Figure 1 about here)

Discussion

Theoretical implications

The results of this study enhance the literature in several different ways.

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3 First, these findings contribute to enrich previous studies (Avcı *et al.*, 2011) that have
4 demonstrated that travel agencies that act as prospectors, i.e., those that are flexible and
5 proactive, enjoy a higher level of performance. In particular, this study shows that the
6 adoption of sophisticated MPASs allows travel agencies to absorb real-time market-related
7 knowledge, with a positive effect on overall performance. Hence, this research also enriches
8 Huang's (2013) barriers-advantage model describing travel agency performance. In particular,
9 by developing a sophisticated MPAS, a travel agency can reduce the impact of one of the
10 most relevant external barriers identified by Huang – the lack of an understanding of market
11 needs – and establish a sustainable competitive advantage. Moreover, the results of this
12 analysis complement those of other recent studies (Law *et al.*, 2015) suggesting that small
13 travel agencies may suffer in the current scenario. We determined that the size of a travel
14 agency will not have a direct impact on its performance if it adopts a well-designed MPAS.

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23 Second, this research contributes to extending available knowledge on marketing performance
24 measurement among tourism firms. Previous studies in this field have focused on either
25 measuring the performance of specific marketing programs (e.g., Cassia *et al.*, 2015) or
26 providing overviews of the marketing metrics used by tourism firms and of related current
27 practices, emphasizing the importance of measuring marketing performance (Bruni *et al.*,
28 2014; Eusebio *et al.*, 2006). However, the available research has not provided empirical
29 evidence that measuring marketing performance has a positive effect on a firm's overall
30 performance. This analysis closes this gap by describing the conditions (i.e., the adoption of a
31 sophisticated MPAS) and processes (i.e., knowledge absorption) that allow this positive effect
32 to occur.

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Third, findings from this research contribute to the growing number of studies about
knowledge management in tourism organizations in general (Okumus, 2013) and in travel
agencies in particular (Yiu and Law, 2015) by providing empirical evidence (Hallin and
Marnburg, 2008). Specifically, the mediating role of knowledge depth found in this analysis
confirms that knowledge is a fundamental source of a firm's competitive advantage. In
addition, the results indicate that a well-designed MPAS facilitates the creation of valuable
knowledge, thus improving a firm's overall performance. Hence, establishing formal rules,
policies and processes (such as those included in an MPAS) is crucial for successful
knowledge management (Okumus, 2013). Hence, the findings of this study also corroborate
other analyses by highlighting the importance for tourism firms of focusing on competitive
intelligence, i.e. setting up a set of activities for “gathering, analyzing, and disseminating of
data, information, or knowledge” (Köseoglu *et al.*, 2016, p. 162).

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3 Finally, as encouraged by Morosan et al. (2014), the results of this hospitality marketing
4 research can be extended to mainstream marketing literature. Available studies in the
5 marketing field have sought a direct effect of the type and number of adopted metrics on firm
6 performance and obtained mixed results (e.g., Frösén *et al.*, 2013; Katsikeas *et al.*, 2016). Our
7 study explains previously inconclusive results by demonstrating that collected data improve
8 firm performance only if the firm has specific previously established rules and routines to
9 factor data into decision-making. Therefore, it is not surprising that a significant direct effect
10 of the type and the number of metrics on firm performance did not emerge in previous
11 research. However, the importance of carefully selecting the most effective marketing metrics
12 should not be neglected. In fact, the selection of marketing metrics represents one of the
13 building blocks of a successful MPAS.
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22 ***Managerial implications***

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24 The results of this study provide managers of travel agencies (as well as other tourism firms)
25 with insights about both the practical benefits of adopting sophisticated MPASs and the
26 design of MPASs.
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29 Adopting a sophisticated MPAS can improve a travel agency's performance by enabling the
30 absorption of usable market-related knowledge. In particular, a well-designed MPAS is
31 fundamental for travel agencies that are selecting proactive marketing strategies to focus on
32 anticipating and quickly adapting to market changes. These strategies require significant
33 marketing investments, and the knowledge provided by an MPAS enables the real-time
34 optimization of the effectiveness and efficiency of marketing resources to improve overall
35 firm performance.
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40 Managers should also be aware that designing a successful MPAS is more complex than just
41 deciding the type and number of metrics to monitor. Designing a sophisticated MPAS
42 requires establishing rules and routines for analyzing and reporting data about the
43 performance of the travel agency's marketing activities. In addition, the people in charge of
44 evaluating the trends highlighted by the marketing indicators and the target level of
45 performance for each indicator should be clearly identified. In particular, the results of this
46 study also warn managers that adopting a higher number of marketing metrics will not
47 necessarily improve the overall performance of the travel agency if routines and procedures to
48 analyze and manage the collected information are not formalized through an MPAS.
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56 The results also highlight that the metrics included in a MPAS and the frequency of
57 monitoring are firm-specific. Each travel agency should develop its own MPAS based on its
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resources, competencies and routines in absorbing knowledge. This study indicates that travel agency performance is not directly dependent on agency size. Both small-sized and medium/large-sized travel agencies may enjoy superior performance if they develop their own successful MPASs.

Conclusions and limitations

While previous studies have suggested that measuring firm performance should be a priority for travel agencies, this paper provides empirical evidence that travel agencies that adopt a sophisticated system to measure and monitor their marketing results enjoy higher overall performance. In particular, this research demonstrates that this effect is fully mediated by the level of market-related knowledge absorbed by the travel agency through the adopted MPAS. Therefore, this research also provides further evidence of the effectiveness of the knowledge management framework in explaining how travel agencies establish their competitive advantage. Overall, this study emphasizes that the adoption of a sophisticated MPAS is integral to the implementation of successful proactive marketing strategies because it facilitates the real-time optimization of marketing decisions. Finally, setting up well-designed MPAS may require significant efforts to establish a marketing-performance-oriented culture in the firm.

Although this study has focused on the travel agency sector, its findings may be generalized to other industries where – similar to the travel agency sector – high levels of market uncertainty urge firms to adopt proactive marketing strategies. However, caution is needed in extending the results to other sectors because the setting of this research has some specific characteristics. In particular, the travel agency sector in Italy is characterized by a high level of fragmentation and small average size.

Some other limitations of this study should be mentioned. First, participants provided their own assessments of their travel agency's performance. Although this practice is consistent with previous studies (Avci *et al.*, 2011), replicating this analysis with objective measures of travel agency performance may be fruitful. Similarly self-reported measures were used for the other constructs, thus potentially limiting the external validity of the results of this study. Second, while the choice of the cross-sectional design provided strong evidence of the suggested relationships, a longitudinal approach would have provided a more comprehensive overview of the medium-term effects of the adoption of an MPAS. These limitations represent opportunities for new studies. Future research may also compare how different travel agencies designed their MPASs by considering specific routines, rules and organizational processes

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3 and their effectiveness. Moreover, it would be fruitful to replicate this study in other countries
4 and in other hospitality and tourism sectors, thus enriching the model with country- and
5 industry-specific aspects. Finally, this study has focused on the collection and application of
6 market-related knowledge. Therefore, future studies should examine the impact of alternative
7 knowledge-sharing mechanisms within the travel agency.
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Table 1 – Descriptive statistics of the sample

	Frequencies (n = 171)
Number of employees	
1 to 5	121 (70.7%)
6 to 10	21 (12.3%)
11 to 20	16 (9.6%)
21 to 50	6 (3.5%)
More than 50	7 (3.9%)
Revenues (2013)	
<€250,000	51 (29.7%)
€250,000-€500,000	44 (25.8%)
€500,001-€1,000,000	39 (22.8%)
€1,000,001-€2,500,000	21 (12.3%)
€2,500,001-€5,000,000	8 (4.7%)
>€5,000,000	8 (4.7%)
Customers	
100% BtoC	34 (19.9%)
Predominantly BtoC	111 (64.9%)
Predominantly BtoB	24 (14%)
100% BtoB	2 (1.2%)
Role of the respondent	
Marketing manager	19 (11.1%)
Sales manager	35 (20.5%)
Brand manager	9 (5.3%)
Revenue manager	5 (2.9%)
Travel agency director	98 (57.3%)
Other roles	5 (2.9%)
Type of business	
Pure travel agency	51 (29.7%)
Travel agency and tour operator	120 (70.3%)
Sales channels used by the agency	
Offline	100 (58.5%)
Offline and Online	71 (41.5%)

Table 2 – Marketing metrics adopted by the travel agencies

Level of Analysis	Object being measured	Metric	Adopted			Not Adopted
			Measured once a month (or more often)	Measured at least once a year (and less than monthly)	Measured less frequently	
Customer level	Attitude	Customer satisfaction (index)	128 (74.9%)	31 (18.1%)	10 (5.8%)	2 (1.2%)
		Brand reputation	114 (66.7%)	38 (22.2%)	17 (9.9%)	2 (1.2%)
		Brand awareness	56 (32.7%)	56 (32.7%)	35 (20.6%)	24 (14%)
	Behavior	Customer loyalty	96 (56.1%)	60 (35.1%)	8 (4.7%)	7 (4.1%)
		Number of customers	85 (49.8%)	50 (29.2%)	24 (14%)	12 (7%)
		Number of new customers	83 (48.5%)	52 (30.4%)	21 (12.3%)	15 (8.8%)
		Average booking value	61 (35.7%)	63 (36.8%)	24 (14%)	23 (13.5%)
		Number of complaints	58 (33.9%)	48 (28.1%)	38 (22.2%)	27 (15.8%)
		Conversion rate	41 (24%)	52 (30.4%)	41 (24%)	37 (21.6%)
		Market level	Competitive performance	Market share	22 (12.9%)	56 (32.7%)
Firm financial Level	Output/Input ratios	Cost per booking	53 (31%)	51 (29.8%)	35 (20.5%)	32 (18.7%)
		Cost of customer acquisition	31 (18.1%)	43 (25.1%)	44 (25.8%)	53 (31%)
	Financial indicators	Revenues	94 (55%)	54 (31.6%)	17 (9.9%)	6 (3.5%)
		Commissions from suppliers (other than tour operators)	84 (49.1%)	52 (30.4%)	22 (12.9%)	13 (7.6%)
		Commissions from tour operators	83 (48.5%)	46 (26.9%)	23 (13.5%)	19 (11.1%)
		Contribution margin	42 (24.6%)	54 (31.6%)	37 (21.6%)	38 (22.2%)
		Return on sales (avg. % of operating profit margin)	35 (20.5%)	53 (31%)	35 (20.5%)	48 (28%)
		Return on investment (ROI)	26 (15.2%)	49 (28.7%)	40 (23.4%)	56 (32.7%)
		Return on marketing investments (ROMI)	22 (12.9%)	48 (28.1%)	44 (25.7%)	57 (33.3%)
		Customer lifetime value (CLV)	19 (11.1%)	49 (28.7%)	40 (23.4%)	63 (36.8%)

Table 3 – The measurement model

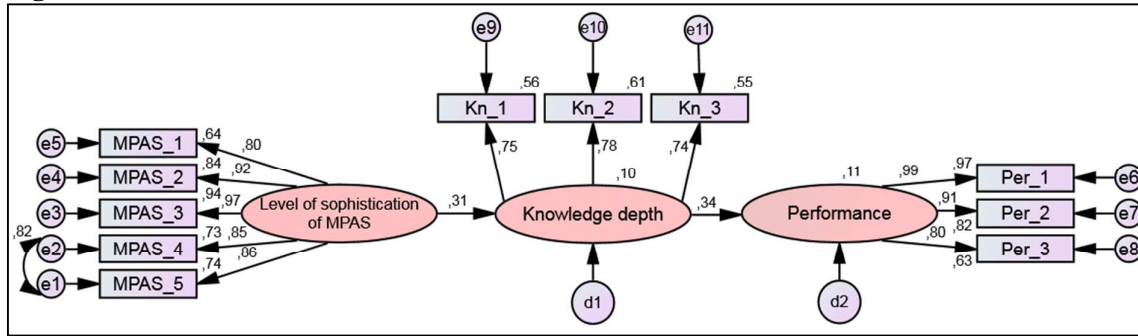
Construct	Item	Mean	S.D.	C.R.	Factor Loading
	<i>In our travel agency we have:</i>				
Level of sophistication of MPAS (AVE: 0.77; C.R.: 0.94)	MPAS_1 – A target level of performance to be met for each indicator	3.65	1.87	13.45	0.80
	MPAS_2 – A routine reporting system for all marketing activities	3.75	1.92	17.34	0.92
	MPAS_3 – A detailed analysis for each marketing activity	3.63	1.88	19.19	0.97
	MPAS_4 – One or more persons who are in charge of producing reports about the trends of the major marketing indicators	3.30	2.00	35.44	0.85
	MPAS_5 – One or more persons who are in charge of evaluating the trends of the major marketing indicators	3.32	2.02	/	0.86
Knowledge depth (AVE: 0.57; C.R.: 0.80)	Kn_1 – We have in-depth knowledge about our market	5.23	1.44	8.53	0.75
	Kn_2 – We have updated knowledge about market trends	5.39	1.34	8.70	0.78
	Kn_3 – Our knowledge of our customers is thorough	5.39	1.37	/	0.74
Performance (AVE: 0.81; C.R.: 0.93)	<i>Please indicate your firm's performance over the last year relative to all other competitors in the primary market that you serve:</i>				
	Per_1 – Sales growth	4.55	1.47	15.30	0.99
	Per_2 – Market share	4.66	1.44	14.44	0.91
	Per_3 – Profitability	4.43	1.51	/	0.80

Table 4 – The structural models

	Model 1 (final model)			Model 2		
	Unst. Coeff.	SE	Std. Coeff.	Unst. Coeff.	SE	Std. Coeff.
Hypotheses						
MPAS→Knowledge	0.183**	0.051	0.312	0.233**	0.052	0.385
Knowledge→Performance	0.478**	0.123	0.336	0.465**	0.118	0.338
Controls						
Size→Knowledge				-0.055	0.059	-0.074
Size→Performance				-0.107	0.075	-0.105
Number of metrics→Knowledge				-0.033	0.018	-0.148
Number of metrics→Performance				0.035	0.023	0.116
Age→Knowledge				-0.005	0.007	-0.057
Age→Performance				-0.010	0.010	-0.076
Model fit						
χ^2	54.35, df=41, p>0.05			150.78, df=71, p<0.01		
RMSEA	0.04 [0.00-0.07], pclose>0.05			0.08 [0.06-0.09], pclose<0.01		
CFI	0.99			0.95		
GFI	0.94			0.89		
SRMR	0.05			0.11		

* **p<0.01.

Fig. 1 – The final model



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