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# Impact of prior knowledge and psychological distance on tourist imagination of a promoted tourism event

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ABSTRACT

Experiential marketing has emerged as an effective strategy to promote hedonic tourism and hospitality experiences through stimulating tourist imagination and positive emotions. This study aims to broaden the existing literature by exploring potential imagination facilitator and/or inhibitor in the context of a local tourism event, "The White Party" on the Gold Coast, with a sample of 655 participants. Structural equation model (SEM) using SmartPLS software and cluster analysis using SPSS were conducted to test research hypothesis and identify three audience groups (event dreamers, indecisive audience, and uninterested audience). Research outcomes demonstrate that video is more effective than poster in evoking tourist imagination and positive emotions, leading to stronger intentions to attend the promoted event. More importantly, prior knowledge is found as an imagination facilitator while psychological distance plays the role of an imagination inhibitor. This study provide valuable insights into how the effectiveness of experiential marketing varies depending on the audience characteristics. Therefore, event managers can optimize the effectiveness of experiential marketing by (1) targeting more receptive audience groups (i.e., event dreamers and indecisive audience); (2) adding more "psychologically close" details of the promoted event (e.g., similar age or cultural groups) and (3) enhancing message repetition.

#### 1. Introduction

Special events have an important role in tourism destination development. A special event attracts visitors to destinations at specific times and fosters local economic development (Kim & Jun 2016; Lu, Zhu, & Wei, 2020; Thompson, 2020). Indeed, events can create substantial social impacts, including community, cultural and educational benefits (Jepson, Stadler, & Spencer, 2019; Kim, Park, & Kim, 2020). For example, cultural festivals enhance national emotions, covey local cultural identity and thus offer tourists authentic experiences (Wong, Ma, & Xiong, 2020; Zou, Meng, Bi, & Zhang, 2021). Hosting special events is a strategy to build destination branding (Ezeuduji, 2015; Van Niekerk, 2017), alter destination image (Deng & Li, 2014), contribute to the development of destination networks (Mackellar & Nisbet, 2017), improve destination competitiveness (Evans, 2012; Kruger & Heath, 2013) and reduce anti-tourism movements (Seraphin, Gowreesunkar, Zaman, & Bourliataux-Lajoinie, 2019). Also, event attributes and event quality lead to attendee satisfaction, form a positive attitude toward the host destination (Lee, Sung, Suh, & Zhao, 2017; Mainolfi & Marino,

2020) and thus increase their re-attendance intentions (i.e., loyalty) (Llopis-Amorós, Gil-Saura, Ruiz-Molina, & Fuentes-Blasco, 2019; Vesci & Botti, 2019).

As tourism events are bounded in time (i.e., limited duration) and space (i.e., a specific place), marketing is critical to ensure event brand equity (Llopis-Amorós et al., 2019), event profitability (Bojanic & Warnick, 2012), event longevity and event impacts (Masterman & Wood, 2006). Event marketing research to date has been developed mostly from the supply perspective with a heavy focus on selling space in venues and bidding capacities of cities/regions (Getz & Page, 2016). Less academic attention has been paid to the demand side or how to promote special events effectively. Only some studies investigate motivational factors of event participants (Kirkup & Sutherland, 2017; Lee & Hsu, 2013; Rittichainuwat & Mair, 2012) and use motives as segmentation criteria (Lyu & Han, 2017; Perić, Vitezić, & Badurina, 2019; Tkaczynski & Rundle-Thiele, 2011).

The limited volumed of event promotion research remains dominated by the traditional approach using rational arguments of event characteristics (e.g., venue, host destination, celebrities) (Frost & Laing,

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2013; Getz, 2008; Kim & Jun 2016; Kim, Choe, & Petrick, 2018) or message framing (promotion focus versus prevention focus) (Zhang, Jeong, Olson, & Evans, 2020) to influence audience attitude and behavioral intentions. Even though the importance of imaginative and affective factors in influencing event attendee behavior has recently gained popularity (Boo & Busser, 2018; Ok, Park, Park, & Jeon, 2020), there is a noticeable lack of research in areas of experiential marketing as an alternative strategy for event promotion (Mair & Weber, 2019; Sel & Aktas, 2019).

Experiential marketing aims to pull on a tourist's heartstrings, stimulate their senses, generate imaginative prospection that elicits positive emotions of joy and happiness (Rather, 2020; Schmitt, 1999). Event marketers have just started using visual and sensory elements to evoke audience imagination and positive emotions related to future events (Sel & Aktas, 2019). Further exploration of experiential marketing for event promotion is necessary (Ok et al., 2020) because special events are experience production systems (Ferdinand & Williams, 2013). In fact, visitors seek experiential value and affective benefits (i.e., delight) when participating in tourism events (Hsu, Agyeiwaah, & Chen, 2021).

The effectiveness of these experiential marketing for event promotion may vary depending on receivers' characteristics such as prior knowledge about the promoted event (Le, Scott, & Lohmann, 2019), social-cultural backgrounds (Jung, Lee, Chung, & Dieck, 2018; Mikhailitchenko, Javalgi, Mikhailitchenko, & Laroche, 2009) or psychological distance (e.g., temporal or spatial distance) (Jeong, Crompton, & Hyun, 2020; Vilches-Montero & Spence, 2015). Further investigation of how these psychological factors influence audience perception of experiential marketing messages is needed to improve marketing effectiveness (Le et al., 2019; Ruzeviciute, Kamleitner, & Biswas, 2019) due to the temporal and spatial bounds of special events (Kim, Kim, Kim, & Magnini, 2016).

Against this background, the current research aims to explore how personal characteristics (prior knowledge and psychological distance) affect tourist perception of event promotion messages. First, this paper examines the effectiveness of experiential marketing designs (poster versus video) in eliciting audience imagination and positive emotions as a strategy to influence intentions to attend tourism events. Second, this study investigates how tourist imagination evoked by experiential marketing messages varies depending on receivers' characteristics (e.g., prior knowledge and psychological distance). Finally, cluster analysis is used to identify three audience groups based on personal characteristics and responses to experiential marketing messages.

The current research contributes to the existing literature on the application of experiential marketing for event promotion by raising the awareness of imagination facilitator (e.g., prior knowledge) and/or inhibitor (e.g., psychological distance). Video is a better tool to evoke tourist imagination, positive emotions, and intentions to attend the promoted event (compared to poster). However, the effectiveness of experiential marketing varies depending on the audience's prior knowledge of and psychological distance to the promoted event. Therefore, event manager could optimize the use of their limited marketing resources by targeting more receptive audience groups (i.e., event dreamers and indecisive audience). Indeed, designing experiential marketing messages that contain "psychologically close" details of the promoted event to the audience (e.g., similar social-cultural groups of event participants) would also improve audience's positive responses and behavioral intentions.

#### 2. Literature review

# 2.1. Experiential marketing and tourist imagination

Experiential marketing aims to stimulate and generate thinking about affective (FEEL), sensory (SENSE), cognitive (THINK), behavior and lifestyles (ACT), or social-identity (RELATE) outcomes (Schmitt, 1999; Tasci & Milman, 2019; Tsaur, Chiu, & Wang, 2007). The experience concept has emerged as an influential school of thought in the tourism, hospitality, and service sectors, referring to subjective mental state (Pine & Gilmore, 1998). An experience is a subjective mental state. Experiential marketing uses various sensory stimuli to invoke imaginative thinking about future experiences (termed prospection) to encourage purchase (Rather, 2020; Scott, Laws, & Boksberger, 2009). Experiential marketing seeks to encourage prospection thinking about how tourism and hospitality offerings, including special events, can meet personal goals and provide enjoyment and fantasy (; Barnes, Mattsson, & Sørensen, 2016; Holbrook & Hirschman, 1982).

The effectiveness of experiential marketing on tourist behavior is mediated by (mental) imagery processing (Le et al., 2019). Mental imagery is defined as "a process (not a structure) by which sensory information is represented in working memory" (MacInnis & Price, 1987, p. 473). In contrast with discursive/verbal processing devoted to textual or factual information (i.e., words or numbers); imagery processing is dedicated to non-verbal or sensory information (i.e., visual, haptic, olfactory, auditory cues) (Bogicevic, Seo, Kandampully, Liu, & Rudd, 2019; Ha, Huang, & Park, 2019). Hence, imagery is a mentally distinct way of representing information, which is "very like picturing and very unlike describing" (Fodor, 1981, p. 76). Mental imagery is superior to verbal processing in the digital age because we receive large volumes of visual and multisensory information in marketing communications (Petit, Velasco, & Spence, 2019; Thompson & Hamilton, 2006).

(Mental) Imagery processing is operationalized and measured by two dimensions (imagery quality and imagery elaboration) (Ha et al., 2019; Walters, Sparks, & Herington, 2012). Imagery quality refers to the vividness or clarity of mental images formed in the audience's mind (Walters, Sparks, & Herington, 2007). Indeed, imagery elaboration reflects the extent to which sensory information is processed in working memory and integrated with prior knowledge structure) (MacInnis & Price, 1987). Low-elaboration imagery processing leads to the construction of simple mental images of an event in a tourist's mind and perhaps some feelings used as inputs for decision-making (Pham, 1998). Through high-elaboration imagery processing, tourists can form imagination and fantasy of future event experiences (Laing & Crouch, 2009; Philips, 2017), experience feelings of being transported to the imagined event (Choi, Ok, & Choi, 2016; Tussyadiah, Wang, Jung, & Tom Dieck, 2018) and immerse themselves in flow experiences (Jeon, Ok, & Choi, 2017)

Experiential marketing messages such as pictures or videos are effective in influencing the audience's behavioral intentions by stimulating high-elaboration and vivid mental imagery such as imagination and fantasy (Cowan & Ketron, 2019; Philips, 2017). Research shows that the simple act of thinking positively about an action can increase one's intention to engage in that action (James, 1890). Hence, forming vivid, positively biased, idealized (fantasized) imagination imagery about future event experiences inspire attendance behavior (Bogicevic et al., 2019; Wong, Lee, & Lee, 2016). Moreover, imagining such hedon-ic/entertainment event experiences in a vivid manner elicit positive emotions of joy and happiness, which are also important influencing factors of consumer behavior (Kim, Kim, & Bolls, 2014; Lee, Bruwer, & Song, 2017; Walters et al., 2012; Yin, Poon, & Su, 2017). Therefore, the following hypotheses are established:

**H1.** Audience imagination imagery about future event experiences increases positive emotions

**H2**. Audience imagination imagery about future event experiences increases behavioral intentions.

**H3.** Positive emotions related to future event experiences increase behavioral intentions.

# 2.2. Designing imagination-inducing messages

In particular, sensory elements are core elements of experiential marketing to induce high-elaboration and vivid mental imagery such as imagination and fantasy (Lee, Gretzel, & Law, 2010; Walters et al., 2012). Many sensory-enabling technologies such as augmented reality and virtual reality are available (Kang, 2020; Kim, So, Mihalik, & Lopes, 2021). Still, these technologies are often too expensive for managers of local events who work with limited budgets. Instead, posters and videos are the two dominant marketing tools used by event managers on social media platforms to reach a mass audience (Munar & Jacobsen, 2014). In designing posters, marketers typically use visual images and congruent textual sensory cues (i.e., haptic, auditory, etc.) to show future event experiences and facilitate tourist imagination imagery (Ghosh & Sarkar, 2016; Krishna, Cian, & Sokolova, 2016; Lv, Li, & Xia, 2020). User-generated photos can also generate similar effects(An, Ma, Du, Xiang, & Fan, 2020).

Videos are also effective tools in generating imagery processing and positive emotions (Tussyadiah & Fesenmaier, 2009; Yim, Baek, & Sauer, 2018). Videos are better than audio-only advertisements in inducing imagination imagery (Kim et al., 2014; Kim & Youn, 2016). However, no previous empirical study has compared posters designed with static visual images and some textual information versus videos containing dynamic images for experiential marketing purpose. It is unclear which tool should be the focus of an event marketing campaign. Given that videos can provide more dynamic and multisensory details of future event experiences in a logical and (potentially) storytelling way, the following hypothesis is established:

**H4.** A video is more effective than a poster in stimulating the audience's imagination imagery of future event experiences

## 2.3. Prior knowledge and imagination imagery

As a high-elaboration form of mental imagery, imagination imagery involves a mixture of perceived marketing stimuli (e.g., poster, video) with relevant prior knowledge stored in their long-term memory (MacInnis & Price, 1987). For example, when the audience watches travel advertisements, they retrieve their travel memories and rely on their previous experiences to create their imagination about future travel experiences (Tussyadiah & Fesenmaier, 2009). Therefore, tourist imagination may be a function of the individual's familiarity and prior knowledge with the message content (Bone & Ellen, 1992; Le et al., 2019). This proposition is supported by neuroscience evidence that more robust activation of visual sensory brain areas in imagining familiar objects/events (Lacey, Flueckiger, Stilla, Lava, & Sathian, 2010). Empirical research in marketing also demonstrates that familiarity with promotion content (e.g., brand familiarity) can activate the retrieval of relevant information and knowledge in the production of consumer imagination of product/service consumption experiences (Mikhailitchenko et al., 2009; Yu, Cho, & Johnson, 2017). All things considered; the following hypothesis is established:

**H5.** Tourist's prior knowledge related to the promoted event increases the audience's imagination imagery.

# 2.4. Psychological distance and imagination imagery

A considerable volume of research has studied the influences of psychological distance on the audience's behavior using the Construallevel theory (Jeong et al., 2020; Kim et al., 2016; Sinha & Lu, 2019; Tseng & Hsieh, 2019). According to this theory, people mentally construct an event in their mind at multiple levels of abstractness (i.e., construal level) depending on the psychological distance between their point-of-reference (here and now) and this imagined event (Liberman, Trope, & Wakslak, 2007; Trope & Liberman, 2010).

There are four dimensions of psychological distance: time (short-

term vs. long-term horizon), space (nearby vs. far away), social-cultural distance (ingroup vs. outgroup referent), and hypotheticality (probable vs. unlikely). Temporal distance reflects the gap between the time that a mental event is supposed to happen from one's point-of-reference (i.e., now). Spatial distance represents the distance between the place where an event is supposed to happen from one's point-of-reference (i.e., here). Social-cultural distance raises the question of whether an individual belongs to an event participant group (ingroup) or feel excluded from the group (outgroup) based on their social-cultural characteristics (e.g., age, cultural backgrounds, lifestyles). The less similar the typical event participants are to themselves, the more socially distant they typically seem. Hypothetical distance is related to one's perceived probability of an event to happen. An improbable event seems more distant than a probable event, and the lower the probability of the event, the greater its psychological distance (Trope, Liberman, & Wakslak, 2007).

Construal levels of future events (high versus low) might be related to the superiority of mental information processing (verbal versus imagery). Tourists are more engaged in imagination imagery to process proximal low-construal's events with concrete, sensory and perceptual details. In contrast, verbal/analytical processing may be superior when consumers consider distal high-construal events with abstract analysis (Rim et al., 2014; Wyer Jr, Hung, & Jiang, 2008). Some experimental studies suggest that people perceive pictures representing proximal events in a shorter time than pictures showing distal events. In contrast, participants process words representing distal events better than words describing proximal events (Amit, Algom, & Trope, 2009; Elder, Schlosser, Poor, & Xu, 2017; Yan, Sengupta, & Hong, 2016). Therefore, it can be hypothesized that the psychological distance of future events facilitates verbal processing and inhibits tourist imagination imagery.

**H6.** Psychological distance negatively influences tourist imagination imagery of future event experiences.

# 3. Methodology

# 3.1. Research context

The proposed hypotheses were tested in the context of a local tourism event, the White Party Gold Coast (http://whitepartynye.com. au), an annual two-day event organized on an island near Gold Coast City, Australia. This annual event attracts several thousand young people to celebrate New Year's Eve (based on event records provided by the event organizer). The tickets include cruise transfers, a boat party, a beach party, musical performances, and fireworks. This real tourism event enables measuring the audience's psychological distance in a real-life setting without using hypothetical scenarios. Due to the limited time scheme of the study, the temporal distance was excluded. The hypothetical distance (i.e., probability) was not studied because this event is indeed organized as planned (100% probability).

#### 3.2. Survey design and measurement

The survey design followed previous guidance in the literature (Dolnicar, 2013). COARSE method (Construct definition, Object presentation, Attribute classification, Rater-entity identification, Scale selection and Enumeration/scoring) was applied to ensure measurement validity (Rossiter, 2011). Based on the discussion among the research team of three experts, psychological distance and participants' prior knowledge were concrete attribute constructs and thus measured by single items. Prior knowledge related to the promoted event was measured by one question (i.e., How much do you know about the White Party Gold Coast? Not at all/Know something about it). Spatial distance (nearby vs. far away) was measured by the participant's current residence place (i.e., Are you currently living on the Gold Coast? Yes/No). The event promotion messages (poster and video) showcased young people between 18 and 25 who attended previous events. Hence, the respondent age was used as an indicator of social distance (ingroup vs. outgroup reference): the higher the respondent age was, the more socially distant they were from the event participant group. It is worth noting that no participant under 18 years old can attend this event because it involves alcohol consumption. Participants' nationality was used as an indicator for cultural distance: people from Australia were included in the close cultural distance, and people of other nationalities were classified in another group of far cultural distance.

Complex-attribute constructs (i.e., imagination imagery, positive emotions, and behavioral intentions) were measured by multiple items. Imagination imagery was measured by a two-dimension scale (imagery quality, imagery elaboration) adapted from Ha et al. (2019). Positive emotions were measured by three items adapted from the consumption emotion set (Richins, 1997). The measurement scale for behavioral intentions was developed using four items adapted from Walters et al. (2012) and one item indicating the respondent's intentions to attend the event. All questions were asked using a seven-point Likert-type scale.

After agreeing to participate in the survey, respondents were asked to complete three main sections of the questionnaire. In the first section, they answered questions related to prior knowledge and psychological distance of the promoted event (i.e., spatial distance, social distance, and cultural distance). Next, they were randomly distributed among two conditions: half of the sample was exposed to the event poster (n = 331), the other half was exposed to the event video (n = 324). The use of these promotional contents for research purpose was approved by the event organizer. In the last section, the respondent answered questions related to their imagination imagery, positive emotions, and behavioral intentions.

# 3.3. Data collection and data analysis

The questionnaire was made available online on the Qualtrics website. In total, 668 completed questionnaires were recorded. In the data cleaning process, 35 questionnaires were deleted because of incomplete or "straight-lining" responses (i.e., the variance for all items was equal to zero) (Moyle et al., 2017). A final sample of 655 questionnaires was used for data analysis. The profile of the respondents is given in Table 1.

Normality tests showed that all items were normally distributed ( $Z_{skewness} < 3$  and  $Z_{kutosis} < 3$ ) (Yap & Sim, 2011). Partial least squares (PLS) regression was used to verify the proposed hypotheses in a structural equation model (SEM) using SmartPLS software version 3.3.2. Cluster analysis was conducted using SPSS to identify the main tourist segments in the audience of event promotion messages.

#### Table 1

Profile of survey participants.

Characteristics	Frequency	Percentage
Age (Social distance)		
Under 25 years old	229	35.0
From 25 to 35 years old	286	43.7
From 36 to 45 years old	92	14.0
Over 45 years old	48	7.3
Gender		
Male	213	32.5
Female	440	67.2
Other	2	0.3
Nationality (Cultural distance)		
Australians	280	42.8
Others	375	57.2
Place of residence (Spatial distance)		
Gold Coast	229	35
Outside Gold Coast	426	65
Prior knowledge about the promoted event		
Know nothing	387	59.1
Know something about the event	268	40.9
Total	655	100%

#### 4. Results

#### 4.1. Hypotheses testing

The convergent validity of all complex constructs was verified using significant outer loadings, *t* value, Cronbach alpha, maxR(H), average variance extracted (AVE) scores and composite R (Table 2). The evaluation of the individual reliability of each indicator was based on factor loadings above 0.70 and a bootstrapping significance test estimated from 5000 subsamples (Hair, Hult, Ringle, & Sarstedt, 2016). The discriminant validity was tested by comparing intercorrelations of factors with the square root of the average variance for each factor (Table 3). No convergent and discriminant validity issues were detected because the estimate for AVE for each factor was above 0.5, and the square root of AVE exceeded any of the intercorrelations of the factors (Fornell & Larcker, 1981; Huang, Gursoy, & Xu, 2014).

The results of testing the structural model were introduced in Fig. 1. The predicting power of the model was evaluated based on the coefficient of determination (*R*) and effect size (*f*). Tourist imagination imagery and positive emotions explained 58.9% of the variance of the endogenous construct (i.e., behavioral intentions) (*R* = 0.589). Tourist imagination imagery also substantially impacted positive emotions ( $\beta$  = 0.553) and explained 30.6% of the variance of the measured construct (*R* = 0.306). The indirect impact of tourist imagination imagery on behavioral intentions through positive emotions was significant ( $\beta$ ' =

#### Table 2

Convergent validity of measurement constructs.

Factor	Outer loadings	t value	α	AVE	CR
Imagery quality - When			0.940	0.848	0.957
viewing the poster/video,					
the images come to my					
mind are					
Vague-Vivid	0.923	96.150			
Weak-Intense	0.934	119.577			
Unclear-Clear	0.920	92.435			
Dull-Sharp	0.906	81.046			
Imagery Elaboration			0.936	0.721	0.948
The poster/video makes me	0.826	48.823			
feel as though I'm actually					
participating in the party.					
It is easy for me to imagine	0.854	64.585			
myself at the party.					
I can form a series of events in	0.845	60.046			
my mind in which I'm a					
L can easily construct a story	0.842	53 601			
about myself participating	0.042	55.091			
in the party based on the					
noster/video					
I find myself daydreaming	0 844	72 44			
about the party	0.011	, 2.11			
I can actually see myself at	0.881	88 1 99			
the party.	0.001	00.177			
The poster makes me	0.852	61 273			
fantasize about having the	0.002	01.270			
opportunity to attend the					
party.					
Positive emotions			0.947	0.904	0.66
Нарру	0.957	182.171			
Jovful	0.956	151.210			
Pleased	0.940	136.741			
Behavioral intentions			0.946	0.822	0.958
I am curious about this party.	0.897	88.795			
I want more information	0.930	120/			
about the party.		400			
I want to learn more about	0.892	86/439			
the party.		-,			
I am intrigued by the party.	0.904	93.928			
I am willing to attend the	0.910	103.282			
party.					

# Table 3

Discriminant validity: Fornell and Lacker criterion.

	Behavioral intentions	Imagery elaboration	Imagery quality	Positive emotions
Behavioral intentions	0.907			
Imagery elaboration	0.746	0.849		
Imagery quality	0.398	0.517	0.921	
Positive emotions	0.637	0.567	0.339	0.951

0.195, p < 0.01), supporting the partial mediating role of positive emotions (hypothesis 2).

Model robustness checks in the PLS-SEM model were conducted to verify the potential issues of collinearity, non-linear effects, endogeneity and unobserved heterogeneity (Sarstedt et al., 2020; Svensson et al., 2018). First, all (factor-level) VIFs resulting from a full collinearity test (see Appendix 1) are equal to or lower than 3.3, the model in this study can be considered free of common method bias (Kock, 2015). Second, insignificant results of all quadratic effects (see Appendix 2), it can be concluded that the relationships between imagery, joy and behavioral intentions are linear (Hair, Risher, Sarstedt, & Ringle, 2019). Third, the use of experimental conditions (video versus poster) would possibly eliminate the danger of endogeneity in the model and (Marder, Archer-Brown, Colliander, & Lambert, 2019). Also, previous studies did not raise any endogeneity issue between imagination, emotions and behavioral intentions (Loureiro, Roschk, Ali, & Friedmann, 2021; Walters et al., 2012). Finally, following Sarstedt et al. (2020)'s systematic procedure for identifying and treating unobserved heterogeneity in PLS path models, the FIMIX-PLS procedure on the data was run using the same settings as in the initial analysis, showing that unobserved heterogeneity does not significantly affect the data (see Appendix 3).

The proposed hypotheses were evaluated based on an examination of path coefficients ( $\beta$ ) (see Table 4). Tourist imagination imagery had both significant impacts on positive emotions and behavioral intentions, supporting hypotheses 1 & 2. In turn, positive emotions also have positive effects on behavioral intentions, supporting hypothesis 3. The event promotional video was more effective than the poster in stimulating tourist imagination imagery ( $\beta = 0.129$ , p < 0.01), supporting

hypothesis 4. Prior knowledge was found to increase tourist imagination imagery of future event experiences ( $\beta = 0.093$ , p < 0.05), supporting hypothesis 5. Psychological distance (spatial and socio-cultural distances) had negative influences on tourist imagination, supporting hypothesis 6.

Following hypothesis testing, cluster analysis was conducted to classify receivers of the event promotion messages into more or less receptive audience groups. In the initial step of a hierarchical cluster analysis, the agglomeration coefficient and dendrogram indicated a three-cluster solution and no significant outliers. As shown in Table 5, the K-means technique based on two imagination imagery dimensions (imagery quality and imagery elaboration) resulted in three final groups/clusters, labelled as (1) event dreamers (n = 289, 44.12%), (2) indecisive viewers (n = 231, 25.26%) and (3) uninterested viewers (n = 135, 20.61%).

The ANNOVA and chi-square tests indicated that three clusters significant differ in levels of imagination imagery, positive emotions, behavioral intentions, and psychological distance. Even though prior knowledge significantly influenced tourist imagination imagery (see Table 4), prior knowledge was not significantly different between the

Table 4	
Results of hypotheses	testing.

	Coefficient	<i>t</i> -value	<i>p</i> - value	Hypothesis tested
Imagination imagery - > Positive emotions	0.513	14.987	0.000	H1 supported
Imagination imagery - > Behavioral intentions	0.553	18.484	0.000	H2 supported
Positive emotions - > Behavioral intentions	0.352	10.136	0.000	H3 supported
Message format - > Imagination imagery	0.129	3.457	0.001	H4 supported
Prior knowledge - > Imagination imagery	0.093	2.387	0.017	H5 supported
Spatial distance - > Imagination imagery	-0.093	2.424	0.015	H6 supported
Social distance - > Imagination imagery	-0.136	3.501	0.000	
Cultural distance - >	-0.134	3.363	0.001	

Tourist segmentation using cluster analysis.



Fig. 1. Results of testing the structural model using SmartPLS. \*p < 0.05. \*\*p < 0.01.

#### Table 5

Cluster analysis of event promotion audience.

Variables	Cluster 1 Event dreamers $n = 289$ (44.12%)	Cluster 2 Indecisive audience $n = 231$ (35.26%)	Cluster 3 Uninterested audience n = 135 (20.61%)	$X^2/F$ statistics
Imagery quality	5.36	4.47	2.37	F = 444.203
				df = 2
				$p=0.000^{\mathrm{b}}$
Imagery elaboration	5.36	3.34	2.54	F = 588.876
				df = 2
				p = 0.000
Positive emotions	5.65	4.30	3.93	F = 93.820
				df = 2
D-hilintti	5.04	0.61	2.00	$p = 0.000^{\circ}$
Benavioral intentions	5.34	3.61	3.09	F = 1/2.044
				$u_{j} = 2$ $n = 0.000^{b}$
Prior knowledge				p = 0.000 $x^2 = 4.498$
Know nothing	158	146	84	df = 2
Know something	131	85	51	n = 0.105
Spatial distance	101			$X^2 = 7.881$
Gold Coast residents	113	82	34	df = 2
Not GC residents	176	149	101	$p = 0.019^{a}$
Social distance (age)				*
Under 25 years old	113	76	40	
From 25 to 35 years old	131	91	64	$X^2 = 15.231$
From 36 to 45 years old	33	41	18	df = 6
Over 45 years old	12	23	13	$p = 0.019^{a}$
Cultural distance				$X^2 = 6.763$
(nationality)				
Australians	182	128	68	df = 2
Not Australians	107	103	67	$p = 0.034^{a}$

<sup>a</sup> p < 0.05.

<sup>b</sup> p < 0.01.

#### three clusters.

Compared to the two other clusters, "event dreamers" had higher levels of imagination imagery, positive emotions, intentions to attend the event (between 5.34 and 5.65 on a 7-point Likert scale) and significantly lower psychological distance (spatial and socio-cultural distances). The indecisive audience scored between 3.61 and 4.47 on a 7point Likert scale, expressing moderate levels of imagination imagery, positive emotions, and intentions to attend after viewing the event poster/video. Finally, the uninterested audience rated the lowest levels of imagination, positive emotions, and behavioral intentions (between 2.37 and 3.93 on a 7-point Liker scale).

# 5. Discussion

This study expands the existing literature by providing further insights into tourist imagination facilitator/inhibitor when perceiving experiential marketing messages. Grounded on information processing theory (MacInnis & Price, 1987; Paivio, 2013) and construal-level theory (Liberman et al., 2007; Trope & Liberman, 2010), this study demonstrates that prior knowledge facilitates tourist imagination imagery of future event experiences while psychological distance inhibits imagination imagery. Therefore, tourists who have certain prior knowledge about and psychologically close distance to the promoted event (i.e., special, social-cultural groups) would be the most receptive audience of event promotion messages (i.e., event dreamers). Indeed, videos containing dynamic visual images are more effective for event promotion purpose than static visual images in the event poster, despite the audience's prior knowledge and psychological distance. Marketing implications are suggested based on research outcomes.

# 5.1. Theoretical contributions

This study broadens the current academic discussion on the application of experiential marketing for event promotion, which remains largely underexplored in the existing literature (Sel & Aktas, 2019). Most previous studies focused on designing posters/brochure/page with static visual images and textual information to stimulate the audience's imagination imagery and positive emotions (Chang, 2012; Yim & Yoo, 2020). Additional olfactory or haptic information in visual posters (Lv et al., 2020; Silva, Rocha, De Cicco, Galhanone, & Mattos, 2021) and/or storytelling techniques can also improve experiential marketing effectiveness (van Laer, Feiereisen, & Visconti, 2019). A limited number of studies justified the usefulness of videos in generating consumer imagination imagery (Chen, 2015; Yim et al., 2018), particularly in comparison with audio advertisements (Kim et al., 2014; Kim & Youn, 2016). This study provides further insights that promotional videos containing dynamic visual images generate more imagination, positive emotions and better persuasive outcomes than using posters with static images. It supports the view that incorporating more visual-audio elements in videos will lead to better experiential marketing outcomes (Simmonds, Bogomolova, Kennedy, Nenycz-Thiel, & Bellman, 2020).

It is also found that prior knowledge enhances, while psychological distance inhibits tourist imagination of future events. Hence, this study provides potential explanations why using familiar elements in marketing messages can increase tourist imagination imagery and consequently behavioral intentions as found in previous studies (Mikhailitchenko et al., 2009; Yu et al., 2017). Yet, the three audience clusters (event dreamers, indecisive audience, and uninterested audience) were not significantly different in prior knowledge about the promoted event (see Table 5). The use of the audience's prior knowledge as an event segmentation criterion needs to be applied with caution.

Meanwhile, psychological distance (including spatial and sociocultural distances) inhibits the audience's imagination imagery and reduces the effectiveness of experiential marketing messages. In accordance with previous research, this study points out the difficulties of the audience to imagine a psychologically distal event with concrete sensory and perceptual details using (mental) imagery processing (Rim et al., 2014; Wyer Jr et al., 2008). Hence, when the psychological distance from tourist point-of-reference to the promoted event increase, tourists are less receptive to experiential marketing messages (see Table 5). Outcomes of other studies investigating spatial distance (Kim et al., 2016); socio-cultural distance (ingroup versus outgroup) (Line, Hanks, & Zhang, 2016; So, Xie, & Wu, 2019; Stamolampros & Korfiatis, 2018) also support our research findings, demonstrating that consumers prefer verbal (versus visual) messages when the psychological distance of promoted experiences become distal (versus proximal).

## 5.2. Marketing implications

Research outcomes suggest some marketing tactics for event managers to optimize their promotion of local tourism events. First, videos should be used as an economic and more effective experiential marketing tool (compared to posters) to trigger tourist imagination and positive emotions related to the promoted event, in particular, in digital channels such as social media regardless the target audience. Second, marketing repetition may lead to better persuasive outcomes by improving the audience's prior knowledge about the promoted event (Martí-Parreño, Bermejo-Berros, & Aldá). The use of some key iconic images and/or symbols would increase tourist familiarity with the promoted event and facilitate their positive imagination, leading to intentions to attend (Kim, Kim, & Petrick, 2017; Zhang, Gursoy, & Xu, 2017).

Finally, event managers can optimize marketing efforts by design more "psychologically close" details in marketing messages to promote local tourism events more effectively. Hence, it becomes necessary to design different marketing messages when targeting different audience groups who have different levels of psychological distance to the promoted event such as long-haul spatial distance (versus short-haul market) (Dolnicar & Grün, 2016); distal (versus proximal versus) cultural distance (Funk & Bruun, 2007; Kastanakis & Voyer, 2014); different age groups (Brida, Disegna, & Osti, 2013; Llopis-Amorós et al., 2019), and gender groups (female versus males) (Joe, Choi, & Busser, 2021). For example, promoting and providing transportation and connection services in an inclusive festival package tour can reduce the audience perception of spatial distance and attract more tourists to local festival events (Lin & Chang, 2020). Using images of female customers could increase hotel booking intentions among female audience by enhancing perceived similarity between them (i.e., psychologically close social-cultural distance) (Joe et al., 2021).

### 6. Conclusion & future research direction

Grounded on information processing theory (MacInnis & Price, 1987; Paivio, 2013) and construal-level theory (Liberman et al., 2007; Trope & Liberman, 2010), this study provides further insights into tourist perception of experiential marketing messages and suggest practical ways to optimize event promotion budget. This study is subject to some limitations that should be addressed in future research. First, only spatial, and socio-cultural distances were examined here; other dimensions of psychological distance such as temporal and/or hypothetical distances should be tested. For example, the Covid-19 pandemic has made travel and mass events temporarily challenging and possibly widen tourist psychologically temporal and hypothetical distances to a future event (e.g., international conference, multinational sport competition). Future research might investigate the impact of the Covid-19 pandemic on the audience' psychological distance to future events, and the effects of psychological distance on tourist perception of experiential marketing messages. Second, this study examines the presence or absence of prior knowledge related to the promoted event (know nothing versus know something) as an imagination barrier. It is possible that the valence tourists' prior knowledge about the promoted event/brand/destination (negative versus positive) causes more perception bias when tourists receive relevant marketing messages (Tasci, Gartner, & Cavusgil, 2007). Addressing this research question can advance the field. Third, tourist segmentation in this study was conducted based on cluster analysis. Other segmentation methods and techniques might be applied in future studies for better market segmentation and targeted marketing outcomes (Ernst & Dolnicar, 2018). Finally, advanced technologies such as virtual reality or augmented reality can reduce audience perception of psychological distance (i.e., hypothetical distance) (Kang, 2020), and thus enhance emotional responses and presence (Yung, Khoo-Lattimore, & Potter, 2021). Further investigation of virtual reality in influencing the audience perception of event marketing messages is beneficial (Lee, Lee, & Jeong, 2021).

# **APPENDIX 1. Collinearity test**

The occurrence of a VIF greater than 3.3 is proposed as an indication of pathological collinearity and also as an indication that a model may be contaminated by common method bias (Kock, 2015). Given that all (factor-level) VIFs resulting from a full collinearity test (see Table 6) are equal to or lower than 3.3, the model in this study can be considered free of common method bias.

#### Table 6

Collinearity test based on VIF scores

	Behavioural intentions	Cultural distance	Imagery elaboration	Imagery quality	Joy	Message design	Prior knowledge	Social distance	Spatial distance
Behavioural intentions									
Cultural distance	1.093								
Imagery elaboration	2.053								
Imagery quality	1.481								
Joy	1.606								
Message design	1.056								
Prior knowledge	1.043								
Social distance	1.098								
Spatial distance	1.048								

#### **APPENDIX 2. Testing non-linear effects**

In order to test non-linear effects, quadratic effects were used. A significant test statistic in any of the partial regressions indicates a potential nonlinear effect. If the path is non-significant, it means that there is linearity in the relation (Hair et al., 2019). Based on the on the insignificant results of all quadratic effects in Table 7, it can be concluded that the relationships between imagery, joy and behavioral intentions are linear.

# Table 7

Non-linear effects testing based on quadratic effects

	Original Sample (O)	Sample Mean (M)	Standard Deviation (STDEV)	T Statistics ( O/STDEV )	P-Values
Cultural distance - > imagery	-0.136	-0.135	0.039	3.48	0.001
Imagery - > behavioural intentions	0.521	0.521	0.035	15.024	0
Imagery - > imagery elaboration	0.942	0.942	0.003	282.296	0
Imagery - > imagery quality	0.775	0.774	0.023	33.677	0
Imagery - > joy	0.553	0.552	0.029	19.132	0
Joy - > behavioural intentions	0.304	0.304	0.039	7.857	0
Message design - > imagery	0.129	0.13	0.038	3.402	0.001
Prior knowledge - > imagery	0.091	0.092	0.038	2.388	0.017
Quadratic effect 1 (imagery) - > Behavioural intentions	0.003	0.002	0.022	0.122	0.903
Quadratic effect 2 (joy) - > Behavioural intentions	-0.005	-0.005	0.022	0.924	0.103
Quadratic effect 3 (imagery) - > Joy	-0.003	-0.003	0.027	0.127	0.899
Social distance - > imagery	-0.134	-0.134	0.038	3.474	0.001
Spatial distance - > imagery	-0.095	-0.095	0.038	2.467	0.015

# **APPENDIX 3. Testing unobserved heterogeneity**

Following Sarstedt et al. (2020)'s systematic procedure for identifying and treating unobserved heterogeneity in PLS path models, the FIMIX-PLS procedure on the data was run using the same settings as in the initial analysis. The maximum 5 segments were decided based on the minimum sample size required to test the proposed model (n = 130) using the rule of thumb (Kock & Hadaya, 2018). Tables 8 and 9 report outcomes of FIMIX-PLS for five options of segmentation (from 1 to 5 segments). AIC3 and CAIC show inconsistent picture of the appropriate number of segments: AIC3 indicates a five-segment solution, whereas CAIC points to a one-segment solution. Based on AIC4 and BIC, which jointly and unambiguously point to the one-segment solution, it can be concluded that unobserved heterogeneity does not significantly affect the data.

#### Table 8

Fit indices for the one-to five-segment solutions

	1 segment	2 segments	3 segments	4 segments	5 segments
AIC (Akaike's Information Criterion)	5419.39	5372.732	5373.749	5363.751	5232.049
AIC3 (Modified AIC with Factor 3)	5464.39	5393.732	5370.749	5326.751	5311.049
AIC4 (Modified AIC with Factor 4)	5419.39	5434.732	5457.749	5469.751	5470.049
BIC (Bayesian Information Criteria)	5486.659	5511.756	5534.527	5546.283	5596.335
CAIC (Consistent AIC)	5401.659	5542.756	5551.527	5569.283	5665.335
HQ (Hannan Quinn Criterion)	5445.473	5426.637	5415.476	5403.3	5369.419
MDL5 (Minimum Description Length with Factor 5)	5815.737	5875.851	6103.638	6380.411	6635.479
LnL (LogLikelihood)	-3194.695	-2905.366	-2789.875	-2668.875	-2537.024
EN (Entropy Statistic (Normed))	na	0.672	0.691	0.719	0.759
NFI (Non-Fuzzy Index)	na	0.723	0.712	0.715	0.735
NEC (Normalized Entropy Criterion)	na	214.801	202.455	184.357	158.087

# Table 9

Relative segment sizes (N = 655)

%	1 segment	2 segments	3 segments	4 segments	5 segments
1	1	0.536	0.436	0.392	0.223
2		0.464	0.36	0.221	0.212
3			0.204	0.209	0.21
4				0.177	0.192
5					0.164

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