

Trust perceptions of online travel information by different content creators: Some social and legal implications

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Published online: 9 June 2009
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Abstract Consumers are increasingly turning to the online environment to provide information to assist them in making purchase decisions related to travel products. They often rely on travel recommendations from different sources, such as sellers, independent experts and, increasingly, other consumers. A new type of online content, user-generated content (UGC), provides a number of legal and social challenges to providers and users of that content, especially in relation to areas such as defamation, misrepresentation and social embarrassment. This paper reports research that examined the level of trustworthiness of online travel information from these different sources. The study used a survey of Australian travel consumers ($n=12,000$) and results support the notion that there are differences in the level of trust for online travel information from different sources. Respondents ‘tended to agree’ that they trusted information provided by travel agents, infor-

mation from commercial operators and comments made by travellers on third party websites. However, the highest level of trust was afforded to information provided on State government tourism websites. These results suggest that greater trust is placed in online travel comments when they are on a specific travel website than when they are on a more generic social networking website. However, respondents were ‘not sure’ that they trusted comments made by travellers on weblogs and on social networking sites. Some 88% of respondents that had not visited UGC websites (or were unsure if they had) indicated that they thought that UGC would be useful in the future – suggesting that they feel that any concerns they may have in relation to legal and social problems resulting from its use will be resolved.

Keywords User-generated content · Online consumers · Travel information · Product recommendations · Trust · Survey

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1 Introduction

These days, consumers are increasingly using the Internet to source information to assist them in making purchase decisions, particularly for ‘experience’ goods (such as travel) – where information about the experience cannot always be easily gathered before purchase. In this environment, consumers often rely upon travel product recommendations from different sources, such as sellers, independent experts and, increasingly, other consumers. Consumers can post ‘content’ online in a number of formats, such as text reviews, images and pictures (this content being commonly known as user-generated content or UGC). A number of legal and social issues associated with this type of online content are discussed, as they can

potentially affect the level of trust placed in this content. The study examines the level of trustworthiness of online travel information from different information sources through a survey of Australian travel consumers that had subscribed to an online newsletter with Tourism New South Wales, the tourism body representing the largest State in Australia. The survey resulted in a large number of responses ($n=12544$) and examined how users perceived the level of trustworthiness of different categories of content travel information creators.

2 Purchase decisions and product recommendations

Consumers have different strategies for finding information about a product or service of interest that they wish to purchase. Senecal and Nantel (2004) discuss literature that relates consumers' choices of information sources to the *type* of product or service being sought. They note that goods can possess either *search* or *experience* qualities. Information about goods with search qualities can be determined prior to purchase – that is, much can be found out about the product or service beforehand. Information about goods with experience qualities cannot easily be determined before purchase, and it is for these types of goods that consumers will rely more on product recommendations from others. Travel products and services fall directly into the category of being *experience* goods (Bei et al. 2004). Alternatively, Smith et al. (2005) suggest that the consumption of goods involves *hedonic* and/or *utilitarian* dimensions. Utilitarian goods are predominantly purchased for functional needs. Hedonic goods are purchased for 'socio-emotional' benefits and experiences such as fantasy, fun and pleasure. Although some goods can satisfy the criteria for both utilitarian and hedonic, it is reasonable to conclude that travel purchases fall into the category of hedonic goods.

One of the common sources of information that tends to be sought embraces product recommendations – where advice is offered (either general or specific to consumers) in relation to the selection of a particular product or service. Senecal and Nantel's (2004) research suggested that:

- Consumers that consulted a product recommendation were more likely to purchase the product than those who did not. In addition, Smith et al. (2005) found that in the absence of recommendations consumers looking to purchase conducted even more searches for information.
- Consumers were more influenced by recommendations for an experience product (wine) than for a search product (calculator).

Consumers will look to different sources to find these recommendations. Some of these sources will be

personal— derived from individual sources of information, whilst other source can be viewed as impersonal. Impersonal information tends to be associated with information sources such as product/service sellers and travel agents. One of the most common and typical type of personal information sources can be attributed to word-of-mouth (WOM), which can involve non-commercial, person-to-person communication regarding a brand, a good or a provider (Chatterjee 2001; Litvin et al. 2008). High credibility tends to be placed on WOM information, with negative WOM information being particularly influential in shaping future decision-making (Chatterjee 2001). However, when negative WOM information is provided with the specific goal to vent frustration or anger, its influence on the receiver tends to be lower as it is not perceived to be as constructive or useful (Wetzer et al. 2007). The success of WOM information exchanges is potentially associated with the close links or ties that exist between the person conveying the information (the product or service recommender) and the listening consumer. Duhan et al. (1997) discuss the notion of *tie strength*. A tie is *weak* if the recommender is just an acquaintance or is not known to the consumer. A tie is *strong* when the consumer knows the recommender personally. A significant advantage of strong tie recommenders is that they can evaluate product and service alternatives on the basis of what the consumer prefers due to their understanding of the consumer. Weak tie recommendation sources, however, are not limited to the social circle of the consumer and can thus be more numerous and more varied (Duhan et al. 1997). It is important to remember that most WOM (in the traditional sense) comes from those people with whom the consumer has *strong ties*.

In a travel sense, consumers spread WOM information due to extreme feelings associated with a product 'experience', such as pleasure or sadness. In some instances, sharing the pleasure of the travel experience is seen as being part of the positive experience (Litvin et al. 2008). Amongst the vast array of travel information available to consumers when planning travel, WOM tends to be one of the most influential. Prospective travellers often rely heavily on advice from friends, family and other peer groups, particularly when planning an intangible travel experience to a destination that they have not previously visited (Litvin et al. 2008). Existing research notes that, due to the lack of commercial self-interest in word-of-mouth recommendations, consumers tend to trust and be more influenced by this type of information than by more commercial sources such as travel agents or accommodation operators (Litvin et al. 2008). In addition, information derived from logical, well-reasoned and persuasive reviews can positively influence the likelihood of product purchases (Park et al. 2007).

3 Content in the online environment

The complexity associated with consumer search choices on the Internet is recognised by Peterson and Merino (2003), who suggest that the Internet is a complex phenomenon that is not completely understood and that the way in which consumers search for information for purchase decisions is also a complex phenomenon which is not completely understood. However, it is likely that consumers will continue to use the Internet as a source of information for purchase decisions (Peterson and Merino 2003). An example of an impersonal source is the typically encountered electronic recommender system, which is an automated system that provides advice to consumers about goods that would suit them (Burke 2000). Recommender systems usually operate according to some programmed algorithm and make their calculation based upon the personal profile of the consumer (usually stored in a database).

In the online world, recommendations sources can come from (Senecal and Nantel 2004):

- Other consumers
- Human experts
- Expert systems (these are electronic recommendation systems that will recommend a particular product or service based upon a consumer's profile).

Park et al. (2007) suggest that online sellers generally provide consumers with two types of product information to help them with purchase decisions, 'seller-created' information (via websites or communication channels such as email) and provision for 'consumer' created information (or online consumer reviews). Online consumer reviews can have the dual tasks of providing useful information and can also act as a recommender. The mere provision of online peer recommendations is seen as being important for consumers as it can provide a means by which they are assisted in the managing the volume of information available to them for purchase decisions (Smith et al. 2005).

A common term for the content generate by consumers on websites is *User-Generated Content* (or UGC). In marketing terms, UGC sites are effectively a form of consumer to consumer e-marketing. They equate to electronic word-of-mouth marketing (eWOM), whereby somebody who has an opinion about a product or service shares their views, beliefs and experiences with other people (Ahuja et al. 2007). Fernando (2007) suggests that UGC, or social media, is the polar opposite to traditional forms of media and marketing since content is generated by the consumer rather than by the marketer.

Consumers can use the Internet to access information that they would have traditionally received from 'real

world' sources. Some examples are (Peterson and Merino 2003; Litvin et al. 2008):

- Websites instead of traditional mass media advertising and/or information normally acquired from a salesperson
- eWOM instead of traditional WOM
- Online independent sources (such as government tourism bodies) instead of their offline counterparts.
- Email

Senecal and Nantel (2004) have classified information sources in 'computer-mediated' environments into four groups, according to whether the source of information comes from a personal source (known to the consumer) or an impersonal source and whether the type of information is personalised to the consumer or just general recommendations (non-personalised). Indeed, tools such as blogs and social networking sites— for example Facebook and MySpace— have allowed consumers to become better informed than ever before – not only being able to add their own comments, but also being able to find other information and articles and 'tag' them with their own keywords (Buhler 2006). Social networking sites typically operate by inviting members into their own personal networks. As this process 'snowballs' the size of the networks can grow. These communities rely upon the creation of UGC to continue operation (Trusov et al. 2008).

In an online context, word-of-mouth information exchanges occur when consumers create their own content on the Internet to share their experiences and views about products they have purchased (Park et al. 2007). There is typically far more information available to the consumer in the online environment from eWOM than from traditional WOM. Often the level of exposure of consumers is only limited by their time and cognitive limits (Chatterjee. 2001). As suggested earlier, exposure to online consumer reviews can increase consumers' intention to purchase a product and maximise the likelihood that they will buy a recommended product (Park et al. 2007; Senecal and Nantel 2004). Park et al. (2007) found that consumers' purchasing intentions increased with the number of available reviews as this suggested that the product was popular. The availability of online forums that publish consumer comments can potentially allow a business to receive genuine consumer evaluation about their products and services. As such, it provides the business with another avenue in which to provide feedback and/or reassurance to those customers. However, many forums are not sponsored or associated with commercial business. These forums do not always attract comments from 'typical' consumers – in fact, as with traditional WOM, it is more likely that consumers who have had extreme (*very favourable* or *very unfavourable*) experiences are more likely to provide online

comments or reviews. These sites could be regarded as being more neutral than those sites sponsored by businesses (Litvin et al. 2008).

In the tourism context, the Internet is an important source of information for travellers. For instance, a majority of US travellers use the medium to search for travel information (Litvin et al. 2008). According to Senecal and Nantel's (2004) discussion of the types of products referred to earlier, the travel product could certainly be described as an *experience* product. Product recommendations or reviews from other consumers can be important to prospective purchasers where an experiential product (such as tourism) is concerned. In fact, Litvin et al. (2008) discuss the nature of the hospitality and tourism products as being intangible, sometimes high risk goods that cannot be evaluated before consumption, making the *interpersonal influence* quite important. In a study of the online search patterns faculty and staff of a major university in Taipei, Bei et al. (2004) found that consumers searching for information about experience products tended to use online information sources more frequently than those searching for information about search products. Of these online sources, information from consumers and neutral sources was used more frequently and were regarded as being more important.

4 Trustworthiness of user-generated content

There is no universally accepted definition of 'trust'. Chen (2006) discusses two 'schools' of trust. The first school regards trust as a belief or expectation about another party's trustworthiness. The other school regards trust as a behaviour that reflects a reliance on others and some uncertainty (and vulnerability) from the person who is 'doing the trusting'. The difference is in how trust is actually measured in a research context. Chen (2006) adopts the latter view of trust and identifies three dimensions of trust: the level of competence, the level of benevolence and the level of integrity. However, this view generally relates to the relationship between the consumer and provider – so in this instance, where the trustworthiness of UGC is being examined – it is more appropriate to adopt the first school, where the trustworthiness of the party providing the UGC comment is considered.

Criticism regarding the power of UGC to persuade travelers about travel related decisions is based on the potential for 'fake' content to be posted by travel operators posing as independent reviewers. This effectively defeats the purpose of enabling UGC to influence travelers in their decision making process as the content added is no longer independent, objective or credible (Bray and Schetzina 2006). One of the concerns raised about the use of UGC

sites when planning travel is how the consumer can be assured that the reviews they are viewing are in fact independent and hence trustworthy (Gretzel 2006). One of the major concerns here is that businesses might use employees to act as consumers to pose positive comments on behalf of the business or to post negative comments about the competition (Litvin et al. 2008).

Senecal and Nantel (2004) note that many consumers are sceptical about any form of information that is perceived to be skewed towards promoting the interests of the creator of that information. As suggested earlier, online consumer reviews are often considered more trustworthy and credible than information that is created and published by suppliers of products and services (Park et al. 2007). Presumably, there is a perception that consumers are considered relatively more reliable and honest as an information source. However, a study by Jupiter Research suggested that only 21 percent of consumers surveyed actually trust information provided about products on general *social networking* sites (such as MySpace or Facebook, which are not specifically oriented towards tourism information), whilst information provided on corporate web sites is considered far more trustworthy (Wasserman 2006). Websites that are independent, third-party type sites tend to be considered preferable by consumers, compared to those which are clearly operated by a business with a vested interest (Senecal and Nantel 2004). Thus, the forum in which recommendations is presented is quite important.

As already mentioned, a possible downside of UGC is that while traditional forms of word-of-mouth tends to come from people who are known to the consumer (i.e. friends, colleagues etc), online reviews are typically created by total strangers, resulting in some concern over the credibility of the source of review (Park et al. 2007, Litvin et al. 2008). As previously indicated, UGC as an information source typically reflects information exchanges that can be considered to represent weak ties between consumers.

From the literature, the perceived sources or creators of online information can be varied and there is a suggestion that some are more trustworthy and perceived as more reliable than others. Information created by what people might perceive to be independent entities potentially allows the published information to embrace elements of objectivity and credibility (Bray and Schetzina 2006; Gretzel 2006; Park et al. 2007). The broad establishment of government, regional and industry tourism websites are typical of sources that are perceived as being independent. Another type of information source is the individual consumer who contributes content to the online travel and tourism and generic social-networking forums. Consumer created content tends to reflect threads of consumer experiences, views and beliefs associated with travel and tourism events -

reviews that are often considered to have a relatively high trust value (Park et al. 2007). Moreover, Litvin et al. (2008) indicate that these user views and experiences when published as UGC can be considered to be a form of electronic word-of-mouth (or eWOM). Websites that have been designed to include weblogs, social networking sites (eg MySpace) and third party tourism sites, classically embodied by Tripadvisor are typical of avenues that are founded on consumer created content. A further type of online information source that is encountered can be associated with the businesses or sellers of tourism products or services— commercial entities that have an interest in promoting consumer travel trade. Promotional information published on tourism or travel websites owned by private businesses tends to be treated sceptically by consumers (Senecal and Nantel 2004) - the assumption being that it is less trustworthy than the other sources of tourism information.

Clearly, there are several categories in which the creators of online tourism information or content can be grouped— each group being potentially perceived as having varying elements of trust. Table 1 summarizes the different creators of online tourism information content. It is within the dimensions of the different content creators that this study explores the trust issue with respect to online tourism information and users.

5 Legal and social implications of online content

The various legal and ethical issues associated with websites that publish UGC are one of the emerging

challenges facing its proponents. Ibrahim (2008) suggests that social networking sites in particular facilitate new types of “deviance, fraud, deception and crime while enabling new types of communities and fraternities” (:245). One of the concerns with these types of websites is that they have contributions from a combination of amateur, semi-professional and professional people – some of whom do not necessarily understand the obligations that publishers have when dealing with the online environment (Humphreys 2008). Furthermore, one of the major issues that may occur with online social networking content is the jurisdictional uncertainty that can emerge when the creators, hosts and readers of the content are located in different parts of the world. Whilst formal policies and regulations are easier to implement and follow within an organisation or even a nation, it is much more complicated when multiple countries are involved (Zapinta 2007). Different countries will have their own legal and ethical frameworks in determining the responsibility for the management and distribution of content (Lam and Churchill 2007). Indeed, common laws and regulations have traditionally developed to be applied within a defined boundary – commonly one that might geographically define a country or nation state. However, with the advent of online publishing, and more recently, the easy recording of user content by social networking sites, it can be assumed that the ability to enforce these laws has been ameliorated.

Some of the commonly encountered legal issues that can occur with the posting of user-content are associated with copyright laws and, perhaps more relevant to the tourism field, information that may result in defamation claims. Fayle (2007) discusses how the providers of content have to

Table 1 Summary of the different content creators of online tourism information (adapted and derived from Senecal and Nantel 2004; Bray and Schetzina 2006; Gretzel 2006; Park et al. 2007; Litvin et al. 2008)

| Content Creator | Description/Features | Examples |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| Independent expert | Information is created by what people perceive to be independent bodies or entities that allow the published information to embrace elements of objectivity and credibility. The information is impartial and devoid of advertising or unjustified recommendations. The evaluation and review of a particular tourism product or service— with subsequent rating/recommendation might well fall into this category. The use of online recommender systems based on user profiles to suggest unbiased products or services. | Government tourism websites Travel agents |
| Consumer | Information that embodies User-Generated-Content that can be viewed as form of electronic word-of-mouth (or eWOM). Product recommendations from other travel consumers appear to be more important to prospective purchasers when associated with an experiential product such as tourism. Purchasing intentions improve with the number of positive reviews posted on a travel product/service. | Weblogs Social networking sites. Third party tourism websites such as Tripadvisor |
| Seller (Tourism Operators) | Promotional marketing of an operator’s products through a review in the traditional media or on a website recommending a particular product. The use of online recommender systems based on user profiles to suggest some of the operator’s products or services. | Email promotion based on a commercial mailing list Tourist operators own website |

be aware of potential intellectual property infringements as well as defamation when posting comments. Cases that relate to damaging the reputation of individuals due to postings on social network sites are starting to appear in the courts (Rosenblum 2007). Fayle (2007) suggests that whilst the owners of websites that host such content might have some protection, people that post the comments may not – certainly in the United States anyway. The social networking websites that host content may also fall victim of non-disclosure, where for instance, users of the websites could become upset if they feel that they have not been fully informed of the risks associated with posting content (Lam and Churchill 2007). Of course, one of the problems already mentioned is that of multiple identities; where fake content is posted as a form of deception to either improve the profile of a company's product or damage the reputation of others (Ibrahim 2008).

In addition to some of the legal challenges associated with the publishing of user-content, various socially related problems such as personal or emotional embarrassment may be caused by inappropriate postings (Lam and Churchill 2007). In some instances the person posting the content may inadvertently suffer embarrassment or a damaged reputation due to the way their message might be negatively perceived by the social networking community (Ibrahim 2008; Rosenblum 2007). Arguably, any posting that is incorrect, unclear or exaggerated has the potential to be interpreted in a way that reflects poorly on the contributor – a situation that can have unintended consequences within a social group or the public domain. It is important to remember that in the tourism industry there are a number of specialist providers that allow users of their website to post reviews. These will often have more controls than a general social networking site. For instance, Travelocity (www.Travelocity.com) allow their website users to post reviews, but state quite clearly that profanity, hateful comments, personal messages, information identifying individuals, review responses or website links are not allowed – and they reserve the right to edit or remove these reviews. In contrast, sites such as MySpace or Facebook have few restrictions that are placed on access to their websites or posting of information. In Facebook some options have recently been implemented in an attempt to prevent unwelcome contact with underage users (Rosenblum 2007). This may be a possible reason as to why Rosenblum (2007) found that the trust levels associated with general social networking websites were lower than other websites.

6 Research questions

As previously outlined, there are several different types of online information categories that relate to travel informa-

tion. Hence, one of the questions directing this research is how do users perceive these different types of travel information creators with respect to trust? In this study the authors are predominantly interested in the views of consumers who use the Internet to assist with their travel plans in relation to their opinions on UGC. However, linked with this is the idea that they need to place their use of UGC in context with other travel information and services that are available to them online. Thus, the more general research question relates to the levels of trust that consumers place in these different types of sources of information. To this end the authors examine the following hypothesis related to the *sources* of the information (consumer, seller-created or independent expert information).

H1. The level of trust placed by online travel consumers will be greater for independent expert-created travel information than for other types of travel information.

It is not as easy to generate a hypothesis in relation to levels of trust in seller-created information versus consumer-created information. The literature suggests that levels of trust in seller-created information may be compromised by the vested interested they may have in creating the information. It also suggested that levels of trust in consumer-created information, whilst being viewed as being independent, may be compromised by extreme or inappropriate postings. However, we felt that the weight of the literature suggested that it would be preferred to seller-created information.

H2. The level of trust placed by online travel consumers will be greater for consumer-created travel information than for seller-created travel information.

7 Study details

The study was conducted in partnership with Tourism New South Wales (TNSW), the tourism body representing the largest state (by population) in Australia. To explore consumers' views on UGC in relation to travel planning, a quantitative study was conducted using an online survey of predominantly Australian consumers who were known to use the Internet to gather information when planning their travel. The survey questions were developed from a review of existing studies to date, as reviewed in the previous section. The survey instrument was refined in a pilot study using a sample of typical travelers— with the final survey conducted online in December 2007. A web-link to the survey was included in an invitation, sent via email, to participate in the research promoted through Tourism New South Wales's database of email subscribers via their regular online newsletter, known as E-Scapes. At the time of

dispatching the email invitation to promote the survey, there were approximately 110,000 subscribers listed on the database. An incentive prize was included with the email received by subscribers to encourage responses. On completion of the survey, users were directed to a separate online database that recorded their details for the prize draw if they chose to do so. The database of results and the prize database were not linked.

Recipients who choose to participate in the survey, on a voluntary and anonymous basis, simply clicked on the web-link provided and responded to the survey questions online.

The use of a survey for data collection is appropriate (when compared with say, interviews or focus groups) as the researchers wanted to access the views of as many travel consumers as possible within the time constraints of the study. An online survey provides the means for achieving this. Online surveys have the advantage of being easier (and cheaper) to set up and administer than the paper alternative, especially if the paper survey is to be mailed to potential respondents. One of the limitations of using online surveys can be the difficulty of getting an acceptable response rate (Evans and Mathur 2005; Williamson 2002). The use of TNSW's online newsletter as the means of distributing the survey meant that it was targeted specifically at travel consumers (controlled sampling is seen as a benefit of online surveys), so it was hoped that this would have a positive affect on the response rate. Some of the challenges associated with paper-based surveys can be also encountered with online surveys, such as problems with unclear questions and respondent bias (Evans and Mathur 2005; Williamson 2002). The online survey tool that was employed did not allow multiple entry of the survey in one session. Theoretically, it would have been possible for a user to close down their browser and to open it again, or enter the survey with another web browser, but we believe this to be unlikely. Noting these online survey issues, the researchers acknowledge that this to be one of the limitations of the study.

Data was collected over a two-week period and the survey took approximately 10 min to complete. All data received was contained within a downloadable spreadsheet from the survey software that was then converted into SPSS (Statistical Package for the Social Sciences) for further analysis.

By the survey closing date, 13,281 people had participated in the study (a response rate of approximately 12%). It should be noted that not all respondents answered every question in the survey, as they were given the option not to answer questions if they so chose. Furthermore, some questions were not asked of all respondents (e.g., names of UGC sites they had used) where their previous responses to questions indicated a question was irrelevant. These factors should be taken into account when noting the total number

of responses reported in the various tables in this article. Approximately 700 responses were not considered useful due to a lack of data, so in effect the useable number of responses was 12,544.

8 Respondent profile

A demographic profile of survey participants is provided in Table 2. This profile is compared to that of the database of 110,000 users, provided by TNSW, to which the survey was sent out (see last column of table) to enable any potential response bias to be detected. Overall the sample surveyed is highly representative of the profile of users included in the database.

The age profile of participants in this study reflects the overall profile of the E-Scapes database. Approximately 51 percent of people were aged 30–49 years. A further 23 percent were 50–59 years. In terms of gender, the skew towards a higher proportion of female participants (61%) is reflective of the overall profile of the database. The profile of responses to the survey appears, therefore, to be able to be generalized to the population of travelers included in the database and certainly to 'online' travel consumers as a whole. The authors consider that it is reasonable to suggest that the results of the study could be generalized to apply to online travel consumers in similar countries to Australia. Indeed, many of the websites that were referenced during the study were overseas-based travel websites.

9 Results

Survey respondents were asked to comment upon seven statements related to their level of trust in different forms of travel information. For each statement they had the option of selecting values on a Likert scale, ranging from 1 (Strongly Disagree) to 7 (Strongly Agree). The types of travel information that were identified were classified according to the *creator* of the information (consumer, seller-created or independent expert information) as per Table 1. The statements, and the authors' classifications, are shown in Table 3.

In relation to the 'independent expert' sources, these come from travel agents and from government sponsored tourism bodies.

In relation to the 'seller-created' sources, these come from commercial operators and via specific email promotions.

'Consumer-created' sources are traveller comments provided on weblogs in general, on specific third party travel sites (such as Tripadvisor) and on social networking sites (such as MySpace).

Table 2 Profile of survey respondents

| Demographic | Category | N | % responded | % of TNSW database |
|-----------------------------|---------------------------------|------|-------------|--------------------|
| Age Group | Under 19 years | 39 | 0.5 | 0.2 |
| | 20–29 years | 893 | 10.0 | 10.6 |
| | 30–34 years | 972 | 11.4 | 12.1 |
| | 35–39 years | 1091 | 12.7 | 13.3 |
| | 40–44 years | 1155 | 13.5 | 13.9 |
| | 45–49 years | 1161 | 13.6 | 14.3 |
| | 50–54 years | 1103 | 12.9 | 13.0 |
| | 55–59 years | 874 | 10.2 | 10.2 |
| | 60–69 years | 1056 | 12.3 | 10.7 |
| | 70 plus years | 223 | 2.6 | 1.8 |
| | Total | 8567 | 100.0 | 100.0 |
| Gender | Female | 5235 | 61.4 | 60 |
| | Male | 3292 | 38.6 | 40 |
| | Total | 8527 | 100.0 | 100.0 |
| Country of Origin | Australia | 8273 | 97.0 | 99.0 |
| | Other | 259 | 3.0 | 1.0 |
| | Total | 8532 | 100.0 | 100.0 |
| Place of Origin | New South Wales | 6210 | 72.8 | 68.1 |
| | Victoria | 934 | 10.9 | 8.2 |
| | Queensland | 713 | 8.4 | 7.6 |
| | Other States | 362 | 4.2 | 14.5 |
| | Overseas | 259 | 3.0 | 1.6 |
| | Australia – State not indicated | 54 | 0.7 | - |
| | Total | 8532 | 100.0 | 100.0 |
| Gross Household Income/Year | Less than \$52,000 | 2178 | 27.4 | 28.8 |
| | \$52,000 – \$77,999 | 1738 | 21.8 | 24.5 |
| | More than \$78,000 | 4041 | 50.8 | 46.7 |
| | Total | 7957 | 100.0 | 100.0 |

In relation to construct reliability, it was not considered appropriate to use measures such as Cronbach's alpha or convergent/discriminant validity as there was never any intention to develop a composite measure of trust from the

different categories of website sources. Trust was measured by a single item statement repeated for various travel information sources to allow a comparison of trust levels, rather than using a series of related items to develop a

Table 3 Sample size and distribution of level of agreement with travel information statements

| Creator | Travel information statement | n | Mean | St.Dev | Skewness | Kurtosis |
|--------------------|--------------------------------------------------------------------------|------|------|--------|----------|----------|
| Independent expert | I trust information provided on State tourism websites | 8775 | 5.65 | .947 | -1.008 | 2.532 |
| Independent expert | I trust information provided by travel agents | 8725 | 4.82 | 1.152 | -.800 | .699 |
| Seller | I trust information from commercial operators and/or accommodation sites | 8937 | 4.61 | 1.152 | -.570 | .244 |
| Consumer | I trust comments made by travellers on third party websites | 8795 | 4.56 | 1.042 | -.413 | .686 |
| Seller | I trust information received through Email travel promotions | 8901 | 4.46 | 1.141 | -.470 | .234 |
| Consumer | I trust comments made by travellers on weblogs | 8732 | 4.39 | 1.104 | -.459 | .491 |
| Consumer | I trust comments made by travellers on social networking websites | 8810 | 4.19 | 1.117 | -.287 | .526 |

composite measure of trust. Even simple correlations were not appropriate to employ as it was voluntary for respondents to respond to trust levels in different categories of information.

Table 3 indicates the sample size and distribution details for each of the travel information statements. The use of skewness and kurtosis measures to determine the normality of the distributions could perhaps be considered to be unnecessary as the parametric tests which will be employed become more reliable as the sample size (n) becomes larger (Spiegel and Stephens 2008). However, the distributions each still fall within Newsom’s (2005) acceptable limits of normality for skewness and kurtosis.

In determining whether differences between the mean scores for each of these statements is significant, a calculation of Levene’s statistic for the travel information statements (refer Table 4) suggests that there are statements which have variances that are not equal (that is, homogeneity does not exist). Thus, the Games-Howell tests have been run for each statement (refer Table 5) in preference to the Tukey test, which relies on homogeneity (Coakes and Steed 2007).

The Games-Howell results suggest that there are only two statements where the mean results are not significantly different ($p < .01$) – these being trust in comments made by travellers on third party websites and information provided by commercial operators. Note that there is only a difference of 0.05 in the mean results between these two statements (and 0.11 difference in their standard deviations). There appears to be no specific reason as to why these statements in particular are not significantly different whilst all of the others are.

As previously stated, the results suggest that the differences between the means for most of the statements are significant. However, it is important to consider the size of the samples as there are a large number of responses for each statement (ranging between $n=8725$ to $n=8937$ responses for each statement). Uran (2005) warns that even *very small* differences can be statistically significant if the population is large. Oller (2006), in discussing statistically significant correlations, discusses the notion that statistical differences might be significant but may not be *important*. In this instance, Oller suggests that “A statistically significant correlation may account for very little variation and consequently may be practically unimportant”.

Table 4 Test of homogeneity of variances for level of agreement with travel information statements

| Levene Statistic | df1 | df2 | Sig. |
|------------------|-----|-------|------|
| 78.731 | 6 | 61668 | .000 |

Having such a large sample in this instance, it is useful to consider the *importance* of the statistical differences that have been identified, and this is carried out by referring back to some other characteristics of the data. In this instance the authors consider ‘important’ to mean that the results indicate a substantial difference (that is, a difference between the discrete Likert scale) in the survey response according to the Likert scale that was employed. A typical example here is shown in the first two rows in Table 6, with respondents **agreeing** that they trust travel information from State tourism websites, but **tending to agree** that they trust travel information provided by travel agents.

Returning to Table 3, it is obvious that travel consumers place more trust in travel information provided on State tourism websites and by travel agents (‘independent expert’ content) than they do in travel comments provided by travellers on weblogs and social networking websites (‘consumer-created’ content).

Table 6 shows the median and mean values for each of the travel statements (the mode was equal to the median value in all instances), with the matching survey response also shown (assuming the mean is rounded to the nearest response interval). The results for the three measures (median, mode, rounded mean) are identical for nearly all of the statements, the exception being information received through Email travel promotions.

Taking into account these measures and the size of the sample, the authors feel that the responses can be categorised into three groups.

For all measures, respondents ‘agreed’ with the statement that they trusted information on State government sponsored tourism websites. This corresponded to response ‘6’ on the 1–7 Likert scale provided to survey respondents. As Table 6 shows, these state tourism websites, which represent ‘independent expert’ opinion about travel destinations, are the most trusted form of information considered in this study. However, the other ‘independent expert’ source, travel agent information, has the same *matching survey response* as the next three most trusted sources of information (from seller and consumer created categories). Thus, although statistically it can be argued that H1, which proposed that independent-expert information was more trusted than other sources of travel information, is *supported* on the basis that the two independent sources are *significantly* greater than the other forms of information that were presented (refer Table 3 Table 5), the results presented in Table 6 suggest to the authors that they should err on the side of caution and suggest that the hypothesis is *partly supported*.

In the same manner, respondents ‘tended to agree’ that they trusted information provided by travel agents, information from commercial operators and comments made by travellers on third party websites. This corresponded to

Table 5 Games-Howell test for level of agreement with travel information statements

| | Weblog traveller comments | Social network traveller comments | Third party traveller comments | Commercial Operator information | Travel agent information | State tourism information | Email promotion information |
|-----------------------------------|---------------------------|-----------------------------------|--------------------------------|---------------------------------|--------------------------|---------------------------|-----------------------------|
| Weblog traveller comments | - | .198* | -.172* | -.217* | -.430* | -1.262* | -.069* |
| Social network traveller comments | -1.98* | - | -.370* | -.415* | -.628* | -1.461* | -.267* |
| Third party traveller comments | .172* | .370* | - | -.045 | -.258* | -1.091* | .103* |
| Commercial operator information | .217* | .415* | .045 | - | -.213* | -1.046* | .148* |
| Travel agent information | .430* | .628* | .258* | .213* | - | -.833* | .361* |
| State tourism information | 1.262* | 1.461* | 1.091* | 1.046* | .833* | - | 1.194* |
| Email promotion information | .069* | .267* | -.103* | -.148* | -.361* | -1.194* | - |

*mean difference sig. ($p < .01$)

response '5' on the Likert scale. Very close to this group of responses was the trust placed in email travel promotions, with the mean measure (4.46) only marginally placing it closer to the 'not sure' response ('4' on the Likert scale) than the 'tend to agree' response.

Finally, both of the measures suggested that respondents were 'not sure' that they trusted comments made by travellers on weblogs and on social networking sites.

The literature (for instance, Senecal and Nantel 2004; Park et al. 2007) supports the notion that independent expert sources would be the most trusted. It is interesting that there are some doubts as to the trustworthiness of consumer comments, especially on weblogs and social networking sites – although the low trust rating of consumer-created content on general social networking websites was highlighted by Wasserman (2006), who suggested that they ranked lower than corporate websites (and this appears to be the case here).

Thus, H2 is not supported. It appears that the source of the travel information is more complex than just 'seller-created' and 'consumer-created' information and that factors such as the location of the information and the method of delivery (such as web site versus email) are also important.

9.1 The effect of having used UGC

Given the results presented in the previous section, the authors were interested in examining the levels of trust in the different categories of online travel information according to whether the survey respondents had previously visited a UGC website.

One interesting aspect that came out of this study is the number of respondents that indicated that they were 'not sure' if they had previously visited a UGC website, despite the fact that a definition of the meaning of UGC was provided at the beginning of the survey (refer Table 7).

Table 6 Median and Mean and matching survey response for travel information statements

| Creator | Travel information statement | Median, (Mean) | Matching Survey Response |
|--------------------|--------------------------------------------------------------------------|----------------|--------------------------|
| Independent expert | I trust information provided on State tourism websites | 6, (5.65) | Agree |
| Independent expert | I trust information provided by travel agents | 5, (4.82) | Tend to agree |
| Seller | I trust information from commercial operators and/or accommodation sites | 5, (4.61) | Tend to agree |
| Consumer | I trust comments made by travellers on third party websites | 5, (4.56) | Tend to agree |
| Seller | I trust information received through Email travel promotions | 5, (4.46) | Tend to agree (Not sure) |
| Consumer | I trust comments made by travellers on weblogs | 4, (4.39) | Not sure |
| Consumer | I trust comments made by travellers on social networking websites | 4, (4.19) | Not sure |

Almost one in three respondents indicated that they were not sure if they had visited a UGC website.

Respondents that had indicated that they were ‘not sure’ if they had visited a UGC website or had not visited such a site were asked a further question – if they thought UGC would be useful in the future (refer Table 8).

The authors were interested to see if there were differences in the level of trust between previous users of UGC and those that had not used UGC. To establish this, Mann-Whitney tests were carried out between pairs of results for whether respondents had used UGC before (between the ‘no’/ ‘not sure’ and ‘not sure’/ ‘yes’ pairs) and whether UGC will be useful in the future (between the ‘no’/ ‘yes’ pairs). Note that nearly nine out of ten of the respondents that had not used UGC thought that it would be useful in the future. Due to the fact that the sample size is so large (and it was expected that there would be significant differences in the results, as with Table 3), the values in Table 9 where there is *no significant* difference have been highlighted. Note that all of the ‘no’/ ‘yes’ pairs for the question relating to if UGC will be useful in the future showed a significant difference ($p < 0.05$).

It is now possible to examine the differences between means for the question where respondents were asked if they had used UGC before. Note the *change* in mean trust levels, moving from respondents that had used UGC before to those that had not used UGC before. For each statement bar one (comments by travellers on social networking sites are the [slight] exception) the means either increase or decrease as one moves from the ‘Yes’ responses, through ‘Not sure’ responses to the ‘No’ responses.

Respondents that had not visited a UGC website, or were not sure if they had visited one, tended to trust the content of websites that contained *seller-created* or *independent expert* information more than respondents that had visited UGC websites.

However, the situation is reversed when the results for consumer-created information are examined. In these instances, respondents that had visited a UGC website, or were not sure if they had visited one, tended to trust the content of the website more.

Now the discussion moves to the responses of those respondents that had not used UGC, but were asked if they would consider UGC to be useful in the future. Perhaps not

Table 7 Response to 'Have you visited UGC websites?' question

| Response | Frequency | Percent |
|----------|-----------|---------|
| No | 2816 | 22 |
| Not sure | 4004 | 32 |
| Yes | 5724 | 46 |
| Total | 12544 | 100 |

Table 8 Response to 'Will UGC be useful in the future?' question [Only answered by those that had not used UGC before or were unsure if they had]

| Response | Frequency | Percent |
|----------|-----------|---------|
| No | 749 | 12 |
| Yes | 5503 | 88 |
| Total | 6252 | 100 |

surprisingly, the responses suggested that those that thought UGC would be useful in the future tended to trust information from all sources more than those that thought UGC would not be useful.

Once again, however, it is important to examine if these differences are important. These are presented in Table 10. For the independent expert sources of information the rounded means and median results show little *important* variation in the level of trust between respondents when their median and (rounded) mean results are mapped back to the original Likert scale.

The results of level of trust in seller-created information do show some movement from ‘Not sure’ (from respondents that had used UGC) to ‘Tend to agree’ from those that had not. The results from two of the consumer-created information statements show the reverse trend. There is no variation in the level of trust place in comments on social networking sites. This is consistently the lowest level of trust across all categories.

10 Discussion

The results support the notion that there are differences in the level of trust for online travel information from different sources. The highest level of trust was afforded to information provided on State government tourism websites. This result is consistent with the literature (for instance, Senecal and Nantel 2004; Park et al. 2007), which suggested that independent websites would be viewed as being the most trustworthy. In this category, the bulk of respondents ‘agreed’ that the information was trustworthy. Government authorities would do well to understand the implications of this and to recognize their responsibility to provide comprehensive and easy-to-access information for online travel consumers.

Respondents ‘tended to agree’ that they trusted information provided by travel agents, information from commercial operators and comments made by travellers on third party websites. The result in relation to travel agents was expected, as they would be viewed as being independent. However, it is interesting to note that information from commercial operators falls into this category. Given the level of ‘mistrust’ suggested in the literature, it was

Table 9 Ratings of trust in travel information statements by use of UGC content and future usefulness of UGC content

| Creator | Travel information statement | Overall (Mean, median) | Used UGC (Mean, median) | | | UGC will be useful (for those that have not used UGC or were unsure if they had) | |
|--------------------|--------------------------------------------------------------------------|------------------------|-------------------------------|------------------------------------|------------------------------|----------------------------------------------------------------------------------|----------------------------|
| | | | Yes <i>n</i> =8725 to 8937 | Not sure <i>n</i> =3290 to 3336 | No <i>n</i> =2399 to 2434 | Yes <i>n</i> =5012 to 5086 | No <i>n</i> =664 to 679 |
| Independent expert | I trust information provided on State tourism websites | 5.65 | 5.56 | 5.67 | 5.74 | 5.72 | 5.54 |
| | | 6 | 6 | 6 | 6 | 6 | 6 |
| Independent expert | I trust information provided by travel agents | 4.82 | 4.67 | 4.87 ^o | 4.92 ^o | 4.91 | 4.79 |
| | | 5 | 5 | 5 | 5 | 5 | 5 |
| Seller | I trust information from commercial operators and/or accommodation sites | 4.61 | 4.43 | 4.69 ^o | 4.72 ^o | 4.73 | 4.52 |
| | | 5 | 5 | 5 | 5 | 5 | 5 |
| Consumer | I trust comments made by travellers on third party websites | 4.56 | 4.68 | 4.54 | 4.44 | 4.56 | 4.00 |
| | | 5 | 5 | 5 | 4 | 5 | 4 |
| Seller | I trust information received through Email travel promotions | 4.46 | 4.30 | 4.53 ^o | 4.56 ^o | 4.58 | 4.27 |
| | | 5 | 4 | 5 | 5 | 5 | 4 |
| Consumer | I trust comments made by travellers on weblogs | 4.39 | 4.46 | 4.41 | 4.27 | 4.44 | 3.67 |
| | | 4 | 5 | 4 | 4 | 4 | 4 |
| Consumer | I trust comments made by travellers on social networking websites | 4.19 | 4.21 ^o | 4.23 ^o | 4.11 | 4.26 | 3.58 |
| | | 4 | 4 | 4 | 4 | 4 | 4 |

^oNo significant difference ($p > .05$)

expected that there would be lower levels of trust in this category. One possible explanation for this is that the questions related to information on the *websites* of these commercial operators. This is a finding that could be used by commercial operators to their advantage. If the information that they provide on their websites is (mostly)

viewed as being trustworthy, then this could be used as a vehicle to which the marketing of their own offerings can be linked. In relation to UGC, respondents' trust in postings by travellers on travel websites was also grouped into this category. These results suggest that greater trust is placed in online travel comments when they are on a specific travel

Table 10 Median and mean and matching survey response for travel information statements by use of UGC content and future usefulness of UGC content

| Creator | Travel information statement | Overall (Mean, median) | Used UGC (Mean, median) | | | UGC will be useful (for those that have not used UGC) | |
|--------------------|-------------------------------------------------------------------|----------------------------|----------------------------|---------------|---------------|-------------------------------------------------------|---------------|
| | | | Yes | Not sure | No | Yes | No |
| Independent expert | I trust information provided on State tourism websites | Agree | Agree | Agree | Agree | Agree | Agree |
| Independent expert | I trust information provided by travel agents | Tend to Agree | Tend to Agree | Tend to Agree | Tend to Agree | Tend to Agree | Tend to Agree |
| | | Tend to agree | Not sure/ Tend to agree | Tend to Agree | Tend to Agree | Tend to Agree | Tend to Agree |
| Consumer | I trust comments made by travellers on third party websites | Tend to Agree | Tend to Agree | Tend to Agree | Not sure | Tend to Agree | Not sure |
| Seller | I trust information received through Email travel promotions | Not sure/ Tend to agree | Not sure | Tend to Agree | Tend to Agree | Tend to Agree | Not sure |
| | | Not sure | Not sure/ Tend to agree | Not sure | Not sure | Not sure | Not sure |
| Consumer | I trust comments made by travellers on social networking websites | Not sure | Not sure | Not sure | Not sure | Not sure | Not sure |

website than when they are on a more generic social networking website. This is consistent with the discussion earlier in the article related to the legal and social aspects of online content. Websites such as Travelocity have stricter controls on the types and nature of reviews posted – consequently there is less likelihood that emotional or defamatory postings will occur on these websites when compared to some of the more general social networking websites. It would seem logical to assume that this leads to greater trust in these websites. Again, the potential lesson here is for businesses that intend to employ some form of user-generated content on their websites. The results here suggest that businesses that employ controls to restrict extreme postings may be considered to be more trustworthy.

Very close to this group of responses was the level of trust placed in email travel promotions, with the mean measure (4.46) only marginally placing it closer to the ‘Not sure’ response (‘4’ on the Likert scale) than the ‘tend to agree’ response. This ‘targeted’ seller created information was not seen to be as trustworthy as information on commercial websites. This may be due to the confrontational nature of email promotions as opposed to users accessing a website for travel information at their own convenience.

Finally, respondents were ‘not sure’ that they trusted comments made by travellers on weblogs and on social networking sites. This is consistent with the findings of Wasserman (2006).

The authors were surprised by the number of respondents that indicated they were ‘Not sure’ if they had visited a UGC website before. A definition of UGC was provided – but it may have been ‘skimmed’ or not understood by some respondents.

What is User-Generated Content?

A growing number of web sites are incorporating features which enable the user, such as you, to contribute their own content enabling people to communicate about special interest topics or products or services through the internet. Such content is commonly referred to as ‘user-generated content’.

In relation to travel and tourism, some examples of user-generated content include

- ordinary people like yourself sharing their opinions about travel destinations, attractions and accommodation properties through blogs (weblogs) or other discussion forums
- travellers submitting photos or videos to the internet to share their travel experiences with other online users (including family, friends or total strangers who may be interested)
- consumers posting reviews of accommodation properties to sites such as tripadvisor.com
- people using social networking sites such as MySpace or Youtube to share travel information.

In relation to respondents that had used UGC before, it was not surprising to find greater trust in consumer-created information, especially in relation to UGC posted on travel

websites and weblogs. The differences were not so evident in relation to social networking websites.

An interesting finding is that this trend is reversed for seller-created information, with more trust being placed in that category of online information by respondents that had not used UGC before. Perhaps there is a possibility that the lack of use of UGC sites (and greater trust in seller-created information) might relate to concerns about their level of trustworthiness. An interesting future study will be to examine the effect of age, gender and income level on these results to see if these trends can be explained by any of these demographic variables.

Earlier in this article the authors raised a number of legal and social issues that could lead to a lack of trust in websites incorporating UGC, especially in relation to general social networking websites. Whilst the results of the study suggest that independent and seller-created information is generally more highly rated than consumer created content, the reader is reminded that **88%** of respondents that had not visited UGC websites before (or were not sure if they had) suggested that UGC would be useful in the future. This implies that there is likely to be an increase in the use of UGC despite the legal and social implications that come with its use.

11 Conclusion

This research reported on how travel consumers in Australia perceive the different travel information creators with respect to trust. It is acknowledged that as the survey data was collected primarily from Australian consumers, the results may not be applicable to all consumers globally. Three types of online content creators were identified as being important to the traveller providing them with decision-making information— these were the independent expert, the seller or tourism operator and the consumer. The study used on the online survey instrument to capture over 12,000 traveller responses to record their views on the trustworthiness associated with each of these information creators.

Generally, the highest level of trust associated with online travel information was that provided by independent experts, followed by sellers and consumer-created information, although when related back to specific survey responses were not conclusive. The lowest levels of trust were placed in comments made by travellers on social networking websites, such as Facebook. However, further analysis revealed that there were some differences in the levels of trust between travel consumers that had visited UGC travel websites and those that had not. Although the ranking of the overall information sources remained similar across the groups, respondents that had visited UGC

websites were more likely to trust consumer-created information than those that had not. Alternatively, those that had not visited UGC websites were more likely to place higher levels of trust in websites associated with seller-created information. Some 88% of respondents that had not visited UGC websites (or were unsure if they had) indicated that they thought that UGC would be useful in the future – suggesting that they felt that any concerns they may have in relation to potential legal and social problems will be resolved.

Acknowledgements The authors wish to thank and acknowledge the Sustainable Tourism Cooperative Research Centre (STCRC) and Tourism New South Wales (TNSW) as the funding sponsors of this research.

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