What is a digital platform?

A digital platform is a web-based structural software package that speeds and eases transactions among users. Digital platforms serve <u>digital markets</u>, while also offering physical products. They are common to businesses of all sizes -- from startups to large enterprises -- in fulfilling a variety of business functions, primarily customer interactions.

There are several kinds of digital platforms, but all facilitate services, interactions and transactions between users. Interactions may occur between two or more individuals, or between the user and platform provider.

Benefits of a digital platform

Among the many benefits a digital platform affords businesses, some of the most high-profile are:

- **Improved customer experience.** Customer service-related digital platforms can better the relationship between buyer and seller in a number of ways throughout the process, including freely offering pertinent information prior to the sale, streamlining the purchasing process, and providing support after the transaction.
- Expanded customer reach. An online presence provides a wider potential range of customers than a storefront. Digital platforms are the best way for businesses to connect with a broader audience and create new opportunities for innovation and growth.
- Improved data insights. Digital platforms often include business analytics and data collection to help businesses gain insight into customer behaviors and trends. This information, when gleaned by shrewd professionals, strengthens decision-making and drives growth.
- Costs fall and efficiency rises. Digital platforms, properly established and maintained, help businesses reduce operating costs, perhaps through operational efficiency or consolidation of multiple platforms for services. In addition, digital platforms allow businesses to automate certain tasks and streamline business processes, improving time and cost savings.
- **Increased flexibility.** A good digital platform is flexible and <u>adaptable to changing business needs and trends</u>, allowing a business to remain competitive.

Types of digital platforms

Digital platforms cater to various needs of their visitors. Among the best-known platforms are:

- E-commerce: <u>Amazon</u>, Etsy and eBay
- Content creation: YouTube and <u>Spotify</u>
- Business collaboration: Slack, Zoom and Microsoft Teams
- Knowledge: Quora and StackOverflow
- Learning: Coursera, Udemy and edX
- Social media: <u>Facebook</u>, <u>Twitter</u> and Instagram

- Gaming platforms: Steam, PlayStation Network and Xbox Live
- Financial platforms: PayPal, Venmo and Stripe
- Transportation and travel platforms: <u>Uber</u>, Lyft and Airbnb
- Healthcare platforms: MeMD, PatientsLikeMe, Zocdoc and GoodRx

Key components of a digital platform

A digital platform is a comprehensive combination of hardware and software, making it more complex than a <u>web server</u>, which provides information from a database. Digital platforms perform many functions, web serving being one of them.

The key components of a digital platform vary depending on the purpose and use of the platform. However, there are some common elements across platforms, including the following:

- **Infrastructure.** Beginning with the basic building blocks, every platform requires both hardware and software. This includes servers, storage, networking, operating systems, databases, application programming interfaces (<u>APIs</u>) and middleware.
- **Front end.** This external part of the platform allows users to interact with the platform. It includes web pages, PC and mobile apps and any other interface for user interaction.
- Back end. This includes the database, storage, business logic, APIs and other back-end services.
- **User authentication.** For user verification and access control, most digital platforms include a single-factor means of authentication, such as a login with a password, but some use <u>two-factor</u> <u>authentication</u>, such as texting an access code to the user's smartphone.
- **User management.** This part of the system handles user registration, login, logout and profile management.
- APIs. Many platforms have an API that allows third parties to access the system, giving users access to more than just a browser or the provider's application.
- **Analytics and monitoring.** These include logging user activity for both analytics and security, along with monitoring for suspicious activity.
- Scalability and load balancing. Because digital platforms are sometimes inundated with traffic, spreading traffic among different servers and data centers is vital to maintaining optimal performance.
- **Content storage and management.** Digital platforms serve content to users, and those texts, images, videos and more require management and maintenance.
- **Payment and billing.** Since many digital platforms allow and encourage transactions, secure payment processing, including billing and shipping, is needed on the platform.

How to create a digital platform

While there are some digital platforms available for purchase as package software or as free and open-source software, the vast majority of digital platforms are homegrown and developed specifically by the platform provider.

Following are some tips for building a digital platform:

- **Start small.** Clearly define the platform's core functionality. Focus on getting the basics working instead of trying to do everything at once. Amazon, YouTube and Twitter did not become the comprehensive platforms they are today without years of focused, flexible effort to get there.
- Perform comprehensive market research. Communicate with a target audience to learn their
 wants, needs, preferences and dislikes. This process is ongoing, with developers using constant
 feedback to effect changes and improvements.
- **Pick the right technology stack.** Not all hardware and software perform equally. Some servers, for example, scale up for high performance, while others scale out to allow for massive multiuser functions. Some process transactions better than others. Be sure to properly pair hardware and software to your needs.
- **Build the front end and back end at the same time.** Highly interactive and transactional platforms require constant attention to both the user interface and back-end processing technologies simultaneously. Transactional information from the back end, for example, can inform front-end decisions on user interface.
- **Test and document.** Because a digital platform is so complex, the DevOps method, emphasizing regular updates and deployment, is a strong choice for platform development. The process, along with its successes and challenges, is documented throughout, so whether a business experiences turnover or, conversely, expands its development team, the code and processes remain available to employees.
- Keep going. Creating a digital platform is an ongoing process that requires continuous
 improvement and adaptation to changing user needs and technology advancements.
 Collaboration among cross-functional teams, including developers, designers, product managers
 and marketers, is essential for success. Additionally, feedback from users plays a crucial role in
 refining and evolving the platform over time.

Digital platforms vs. digital products

Digital platforms should not be confused with digital products. A digital platform is a medium that facilitates the exchange of something of value between two or more parties, while digital products are goods or services that are exchanged

There is a relationship between the two; users visit a digital platform, such as iTunes or Spotify, to purchase or download a digital product, such as a video or music.

The purpose of this study is to understand the role of social media content on users' engagement behavior. More specifically, we investigate: (i)the direct effects of format and platform on users' passive and active engagement behavior, and (ii) we assess the moderating effect of content context on the link between each content type (rational, emotional, and transactional content) and users' engagement. The dataset contained 1,038 social media posts and 1,336,741 and 95,996 fan likes and comments, respectively based on Facebook and Instagram. The results reveal that the effectiveness of social media content on users' engagement is moderated by content context. The findings contribute to understanding engagement and users' experience with social media. This study is a pioneering one to empirically assess the construct of social media engagement behavior through the effects of content types and content contexts on a dual social media platform.

ntroduction

Due to the ongoing popularity of social media across the world, firms' social networks are growing at an increasingly rapid pace, intending to build online engagement among their customers (Hallock, Roggeveen, & Crittenden, 2019). Facebook, the most popular social media platform, has recorded a monthly active user rate of 2,375 million in April 2019 (Statista, 2019). Likewise, the number of monthly active Instagram users has increased from 90 million in January 2013 to 1,000 million in June 2018 (Statista, 2019). Correspondingly, social media content directed at customers continues to proliferate as customers' digital spending increases (Malthouse, Calder, & Vandenbosch, 2016). Social media advertising revenue has grown 30.6% in the U.S. in 2018 alone to \$28.9b (PwC, 2019). Firms are cognizant of this and are ever-increasingly investing in content creation and distribution within the social space. However, such marketing investments will not succeed unless marketers understand how to effectively create and distribute their content within these platforms to promote their desired outcomes, with one of the most frequently listed desired outcomes being customer engagement (Lee, Hosanagar, & Nair, 2018).

Previous studies (e.g., Gavilanes, Flatten, & Brettel, 2018) have drawn attention to the relationship between social media advertising efforts and the resultant customer engagement. However, the pertinent literature is limited in several ways. For example, much of the earlier research was largely conceptual (e.g., Ashley & Tuten, 2015; Dolan, Conduit, Frethey-Bentham, Fahy, & Goodman, 2019; Dolan, Seo, & Kemper, 2019), or offered a limited conceptualization of social media engagement behavior, mainly through numbers of likes, shares or comments (e.g., Cvijikj & Michahelles, 2013; De Vries, Gensler, & Leeflang, 2012). Our understanding of social media content design was also limited, with earlier scholars using broadly defined and limited content types, such as informational vs. entertaining (De Vries et al., 2012) and employing a singular social media platform to test social media engagement, e.g., Facebook or Instagram (e.g., Gavilanes et al., 2018; Kim, Spiller, & Hettche, 2015; Lee et al., 2018). Also, despite the numerous insights from previous work on the role of content type on users' engagement, very few studies have considered the role of content format, e.g., picture, video, etc. and the relationship with the choice of social media platform (e.g., Facebook vs. Instagram) on predicting users' engagement behavior. Finally, most of the relevant studies employ survey methods to collect primary data (see Voorveld, Van Noort, Muntinga, & Bronner, 2018), yet this is not comparable with actual secondary data.

In response to the aforementioned limitations, this study aims to provide a more in-depth and holistic investigation of this phenomenon by considering: (i) a more thorough range of social media content strategies, specifically 12 content types integrated into three overarching strategies, (ii) the role of the platform type by collecting data from both Facebook and Instagram, and (iii) the role of the content format in terms of richness, i.e., comparing both photo and textual social media posts. To achieve this, we utilize the Facebook and Instagram APIs to capture data of two Pacific Airlines and empirically demonstrate how these different contexts and types of social media content act as drivers of user engagement. By qualitative content-coding of the firms' posts, quantitative sentiment analysis of user

comments and regression analysis we connect firms' content management activities to user engagement behavior.

This research provides managers with guidance for developing social media strategies, investigating the distinct effects of social media content (rational, emotional, and transactional) along with content context (platform type and content format), and lag effects between posts on active and passive engagement. In our study, we carefully explore how and why different platform environment will lead to active or passive engagement. Finally, in this study, we consider the important nature of engagement influence by considering possible lag effects between posts, such that the interactivity and engagement generated by one post may have carry-over effects on the engagement level of subsequent posts. In so doing, we go beyond numbers of likes and comments on posts to measure engagement.

The remainder of the paper is structured as follows. First, we introduce the background of the study, namely, the role of social media and users' engagement. Second, we introduce the conceptual model and hypotheses of the study. The research context in which the study is conducted is then presented, followed by an overview of the study design. After presenting the results of the study, we outline the key findings, implications, and important contributions and limitations of the study, leading to a range of ideas recommended for further research.

Literature Review

Users' Engagement

The emergence of social media platforms has dramatically altered the role of customers from passive observers of content, to active participants, who are now the co-producers (Lee et al., 2018) and co-creators of content through their online interactions and behaviors (Dolan, Conduit, et al., 2019). Behavior that reflects engagement with social media includes customers' creation of, contribution to, or consumption of brand-related content within a social network (Hallock et al., 2019; Muntinga, Moorman, & Smit, 2011). The extent of engagement differs from simple types of engagement (e.g., "liking" a post on Instagram) to higher types of customer engagement in co-creation activities (e.g., posting reviews) (Malthouse, Haenlein, Skiera, Wege, & Zhang, 2013; Muntinga et al., 2011).

The growing prevalence of social media has seen a focus emerge from both academics and practitioners on the concept of engagement in social media platforms (Brodie, Ilic, Juric, & Hollebeek, 2013). Customers' engagement has been studied in many fields, including psychology (e.g., Hallberg & Schaufeli, 2006), education (e.g., Baron & Corbin, 2012), management (e.g., Saks, 2006), marketing (e.g., Hollebeek, 2011; Van Doorn et al., 2010), and information systems (e.g., O'Brien & Toms, 2008). Within the context of digital marketing, scholars (e.g., Brodie et al., 2013; Wirtz et al., 2013) conceptualized the concept of engagement and attempted to empirically validate its measurement scales (see Hollebeek, Glynn, & Brodie, 2014). Van Doorn et al. (2010) define it as "a customer's behavioural manifestations that have a brand or firm focus, beyond purchase." There are various focal objects of customer engagement including product or service offerings (e.g., Brodie, Hollebeek, Jurić, & Ilić, 2011), activities and events (e.g., Vivek, Beatty, & Morgan, 2012), and media (e.g., Calder, Malthouse, & Schaedel, 2009).

Some (e.g., Malthouse et al., 2013; Muntinga et al., 2011) recognized the properties of engagement, such as intensity, and examined its various aspects and antecedents (see also De Vries et al., 2012; Gummerus, Liljander, Weman, & Pihlström, 2012; Wirtz et al., 2013). Engagement is interactive and context-dependent and is understandable through an examination of each of its various aspects, known as service experiences (see Brodie et al., 2011; Calder et al., 2009; Coulter, Gummerus, Liljander, Weman, & Pihlström, 2012). This research explores the behavioral aspects of the concept, consistent with previous studies of engagement in social media (e.g., Coulter et al., 2012; Dolan et al., 2016; Van Doorn et al., 2010). According to Dolan, Conduit, Fahy, Brodie, et al. (2016), there are six types of social media engagement behavior on fan pages: creating, contributing, destructing (known as active engagement behaviors), consuming, dormancy, and detaching (known as passive and/or more individualized forms of engagement).

The interactive characteristics of engagement behavior may lead to different levels of intensity. In a most recent study on engagement intensity levels, Dolan, Conduit, Fahy, Brodie, et al. (2016) suggest two typologies that encompass the six behavioral groups (referred above). As they argue, it can be passive (low) or active (high) and also positive or negative. Passive engagement is defined through the behavior of a member browsing an online group and making the most of the benefits accessible, while not participating in any community activities (Preece, Nonnecke, & Andrews, 2004). In contrast, active engagement is determined through the behavior of members highly interested to be engaged in an online community by participating in activities, creating messages, disseminating information, and providing emotional support to others (Casaló, Flavián, & Guinalíu, 2007). There are different metrics to measure the intensity of passiveness or activeness of social media engagement (see Peters, Chen, Kaplan, Ognibeni, & Pauwels, 2013). For instance, Alhabash et al. (2013) describe liking (as "affective response") and commenting as ("active and public deliberation"), as active social media behaviors, while reading content and clicking are examples of passive engagement behaviors (Dolan, Conduit, Fahy, Brodie, et al., 2016). This research focuses on active engagement behavior. To address how consumers feel about the content presented on the fan page, this research also considers the sentiment of the comments, which can be an indication of positively valenced engagement (Van Doorn et al., 2010) and/or negatively valenced engagement (Hollebeek & Chen, 2014).

Methodology

Research Context

Social media has significantly changed the tourism industry, switching customers' role from passive to active users (Quach & Thaichon, 2017) who search for information, engage in collaborative planning, and memorialize travel experiences through various engagement behaviors, e.g., posting, messaging, and media sharing (Dolan, Seo, & Kemper, 2019; Zeng & Gerritsen, 2014). Although tourism research in social media context is still in the early stages, scholars (e.g., Luo & Zhong, 2015; Shu & Scott, 2014) have commonly acknowledged the positive effects of social media on travel sector and highlighted the significant role of social media in customers' engagement (e.g., Harrigan, Evers, Miles, & Daly, 2017).

In this research, we empirically investigated data of two international firms, highly active on their social media brand fan pages on two popular social networking platforms, Facebook and Instagram. To verify our research hypotheses, we controlled for the industry and focused on a singular industry—air travel. Airlines are one of the main and inseparable parts of the tourism industry, and, as large-scale service providers, frequently engage with a large customer base. Thus they are highly sensitive to customers' views/complaints (Dolan, Seo, & Kemper, 2019). Airlines' products and services are limited and, thus, their effects on social media engagement behavior are not largely heterogeneous. Also, from customer communications and public relations' point of view, airlines have exclusive touch points all around the globe (Shahbaznezhad, 2018). Further, airline customers have high involvement experience with airline services and their comments are current and effective (Dijkmans, Kerkhof, & Beukeboom, 2015). Hence, for airlines, developing high-quality campaigns and a strong presence on social media is critical for customer engagement (Shahbaznezhad, 2018). To explore our research hypotheses within this sector, we obtained data social media engagement data from two large airline companies—namely Air New Zealand and its low-cost competitor, Jetstar. Our data collection process is outlined below.

Sampling and Data Collection

The data of this study were collected from two pacific airlines, i.e., Air New Zealand and Jetstar Australia. Data were captured across 12 months, including all posts made and their corresponding engagement metrics of likes and comments. The final dataset contained 1,038 social media posts, 1,336,741 likes, and 95,996 comments. Of 1,038 posts, 579 were collected from Air New Zealand, comprising 308 posts published on Facebook and 271 on Instagram. The remaining 459 posts were collected from Jetstar Australia, comprising both Facebook (148 posts) and Instagram (311 posts). We also explored the effect of post timing and community size on customers' engagement based on two social media platforms. This process generated four sub-sets of data (2 airlines × 2 platforms), allowing a systemic analysis of brand post strategy and liking/commenting engagement behavior across and between brands and platforms.

Operationalization of Variables

To capture the interaction between the firms and their current customers, we gathered data about firms and users' activities and interactions on firms' fan pages (Facebook and Instagram). Overall, our variables fall into two categories: (i) firm-centric and (ii) user-centric. Firm-centric variables are independent, moderating, and control variables in the conceptual model of the study (see Fig. 1) and capture firms' effort in the content generation (see Shahbaznezhad, 2018). These variables enable us to explore firms' social media content management (independent and control variables). On the other hand, the user-centric variables (dependent variables) show users' reactions to firms' content in the form of engagement on social media fan pages (Hoffman & Fodor, 2010).

Independent Variables

We relied on qualitative content analysis approach to operationalize the independent variables (the type of content). A content analysis deals with the operationalization of variables, which is an exhaustive, exclusive, and enlightening process (Krippendorff, 2013). Codes must deconstruct the focal content in a way that it would be analytically relevant and interesting (Shahbaznezhad, 2018). To ensure this, codes should be based on previously established norms in the literature (Riffe, Lacy, & Fico, 2014) in addition to being relevant to the research questions. Accordingly, the measures selected for each variable matched

the conceptualizations of the unit of analysis as previously specified in the literature. We employed two trained English native speakers for coding of each social media post. They were asked to code over 100 messages during the training sessions (see also Swani et al., 2013). The intercoder reliability was calculated for all independent variables using Rust and Cooil's (1994) proportional reduction in loss index (PRL). Based on this study, a value of 0.70 is acceptable whereas 0.90 is desired. All reliability scores were high and above the desired level (0.96). Subsequently, each coder coded the whole dataset and, finally, both codes merged. After developing the full coding scheme and custom dictionaries, we coded the content in a binary manner, as applied in previous work (e.g., Tafesse, 2016). Where a type of social media content was present, it was coded as 1, while its absence was recorded as 0. In addition, each subcategory was coded as 1 or 0, which allowed for the level of content to be calculated for each content category. Each type of content contained four sub-categories, although the maximum number of content items that any post had was 4; this means that content levels were coded from 0 to 4. The total number of posts was 1,038. The number of posts coded as containing any form of informational content was 957 (92.2% of total posts), the number for emotional content was 664 (63.9% of total posts) and the number for transactional content was 652 (62.8% of total posts).

Control Variables

We control for important variables including content freshness, company/industry, scheduling, time lag effect, and net sentiment. Content freshness addresses the effect of a firm's timing strategy for updating posts on its fan page (Ashley & Tuten, 2015). Content freshness refers to the reverse difference of one post to its previous post (Li, Po, Hsiung, Candan, & Agrawal, 2003). The lower the value, the "fresher" is the content. Secondly, we control for the industry by selecting to only investigate airlines. Our empirical research was conducted to apply the conceptual framework to a dataset derived from two major pacific airlines, i.e., Air New Zealand and Jetstar. We selected the airline industry, with limited service to control for homogeneity of product type, in addition to controlling the indirect effect of social media behavior. We included a full-service airline (Air NZ) along with a budget/low-cost airline (Jetstar) to enable comparison.

We also controlled for post scheduling. Post scheduling is considered as a key consideration for managers when designing their social media strategy (Shahbaznezhad, 2018). Recent research has indicated that the time of the day at which the post is made can be a predictor of user engagement (Kanuri, Chen, & Sridhar, 2018). Sabate et al. (2014) advised managers to schedule the delivery of their content for the afternoon if they wish to increase the number of likes and shares received on a post. Our post scheduling variable has 24 data points (24 possible hours) in our initial dataset. However, we decided touse dummy coding for post scheduling, so we split the timing into two sections: The posts made from 8 am to 5 pm (working hours) was labeled 1, and posts made from 5 pm to 8 am (evening) as 0. This was done to decrease the effect of unwanted variance due to having numerous independent variables in our framework.

The fourth control variable was the time lag effect. We assume that social media engagement behavior (likes and comments) of each post may depend on the social media engagement behavior (likes and comments) of the last post generated by a firm. This is referred to as the time lag effect. To measure the role of the time lag effect, we first addressed the potential issue of endogeneity and simultaneity. This is

because some engagement behavioral patterns are unobservable to researchers, but they could be correlated with our dependent variables (i.e., number of likes and comments for each post).

Another control variable that is considered in this research is the engagement effect. Engagement effect is the effect of passive behavior (likes) on active behavior (comments) and vice versa, for the same post. We can assume that a post may stimulate more likes, once it has more comments (perhaps increasing its impressions/views, or virality). Similarly, a post probably provokes more comments, once it has more likes. Finally, the potential effect of posts' net sentiment was carefully controlled. The sentiment of a post or comment can be positively (Van Doorn et al., 2010) or negatively (Hollebeek & Chen, 2014) valenced. Positiveness/negativeness was measured as the percentage of positive/negative posts to the total number of posts (Liu, 2012). The last control variable is the net sentiment. The sentiment of the comments was then analyzed using sentiment 140 package in R. Using this algorithm, each comment was classified as positive, negative, or neutral.

Our results also provide sufficient evidence to support H2, revealing that users' behavior on the firms' fan page is influenced by the social media platform environment. As mentioned earlier, we selected two popular social media platforms—Facebook and Instagram (coded as 0 and 1 accordingly). The findings confirm that firms' fan page users onInstagram tend to "like" more (passive engagement) thangenerating comments (active engagement). In reverse, commenting on Facebook has shown as a more popular engagement behavior. In other words, Facebook provides an environment that provokes users to have active engagement behavior and write more comments than Instagram. Instagram has an app-based design with a very aesthetic platform (double tap for liking) (Sheldon & Bryant, 2016), and it is evident that users tend to "like" more on this platform than for the same posts on Facebook. The results also showed that by imposing a positive vibe to users (sentiment of posts), Instagram stimulates users' interests through more positive comments compared to Facebook, which has a more rational environment.

Having assessed the first two hypotheses, we now move to the H3 to H5 which investigate the moderating effect of content context on the relationship between different content types andusers' engagement behavior. First, we posited the extent towhich the effect of social media content on social media engagement behavior is moderated by the format of the content(H3a, H4a, and H5a). We expected differences in this relationship to unfold across the three types of content studied (rational, emotional, and transactional). Our findings reveal that rational content, presented in photo format, significantly stimulates more likes than comments. This means that rational content is sensitive to the format of the content (H3a). In contrast, we could not find full supporting evidence on emotional content to conform H4a. While emotional content has a significantly negative effect on liking behavior, the interaction effect of this content type with content format demonstrates no significant link to users' liking behavior. This means that the content format plays no role in the extent of emotional content to stimulate users' engagement behavior. However, the results showed that emotional content has a significantly negative effect on commenting behavior, once we consider the interaction effect of the content format. This means that users are not interested in writing comments on emotional content, unless it is not presented in the specific format. Moreover, our findings suggest that if emotional content is presented in the photo format, there would be a reverse effect on liking behavior, whereas emotional

content in the video format stimulates an increase in active engagement (commenting). Thus, it can be concluded that emotional content may be best suited to a higher media richness format (video), as it can convey greater levels of emotional stimuli such as music and movement compared to a photo post.

Finally, it was revealed that transactional content and the content format do not have any significant interactions. This means that the impact of transactional content on users' engagement behavior is format independent. As such, H5a was rejected.

Concerning the moderating role of the platform (as hypothesized in H3b, H4b, and H5b), we found that rational content on Instagram significantly gets more likes than comments. This confirms that rational content is sensitive to the platform type (H3b). In contrast, emotional content and theplatform which content is presented on, do not have any significant interactions. This means that the emotional content effect on user engagement behavior is platform-independent. As such, we are unable to provide sufficient evidence to support H4a. Moving to transactional content, the results supportH5b, revealing the significant moderating impact of the platform on users' engagement. It was found out that transactional content presented on Instagram attracts more likes, while it threatens comments. In other words, presenting transactional posts on Instagram may not be an effective tool for stimulating users' commenting behavior, while it promotes liking. It is worth adding that transactional content did not have any significant effect on liking or commenting behavior in the original model, however, once the interaction of content type with the platform was added, a significantly positive impact on liking and commenting behavior was discovered.

Discussion and Implications

Today's business environment has become more interactive, where customers are continuously are engaged with offerings and activities of firms (Dolan, Conduit, et al., 2019). Customers engage for various reasons through various objects, such as product or service offerings (Brodie et al., 2011), media (Calder et al., 2009), activities, and events (Vivek et al., 2012). Although recent research has explored both the antecedents and consequences of customer engagement (Gambetti, Graffigna, & Biraghi, 2012; Leckie, Nyadzayo, & Johnson, 2016; Van Doorn et al., 2010), the extant literature still lacks a systematically empirical study to assess the theoretical foundation of customer engagement in response to social media marketing practices (Sashi, 2012). This allows for scrutinizing the social media behavioral response of customers to organizational communications such as brand posts on Facebook (Dolan, Seo, & Kemper, 2019). While much of the literature identifies individual-related factors as antecedents of customer engagement, few studies (e.g., Cvijikj & Michahelles, 2013; Dolan, Conduit, et al., 2019; Lee et al., 2018) have studied the impact of social media content strategy on engagement behavior). Thus, a more indepth analysis of the impact of social media content posted by firms is warranted. To the best of our knowledge, previous literature is yet to identify how the various types of content (e.g. rational compared to emotional, and transaction) would be more or less suited to certain platforms (e.g. Instagram or Facebook), in terms of facilitating social media engagement behavior, as we have investigated within this paper. As such, this study makes several preliminary contributions to engagement and social media literature, offering areas for further exploration within this area.

First, this research endeavored to acknowledge the important role of the type of platform (Facebook vs. Instagram) in facilitating social media engagement behavior. Previous studies (e.g., Dolan, Seo, & Kemper, 2019) have focused on singular platforms of inquiry. The results of this study demonstrate that Instagram users (fans) appear to be more passively engaged, compared to fans on Facebook who tend to demonstrate greater active behavior in the form of commenting. This could be because Facebook may be commonly used on a desktop vs. mobile app device allowing users ease of typing comments compared to on a phone. For managers, if an objective of social media content is to gather rich feedback through comments and discussion, this finding suggests that Facebook may be the superior platform. Further research is needed however to fully encapsulate the type of users across platforms, and the effect this may have on their engagement.

Second, our study offers preliminary insights into our understanding of the role of the content format through our investigation of how this variable may moderate the effectiveness of specific types of content on social media engagement behavior. Exploring these relationships to the detailed level of individual content types is crucial for managers as they can understand how and why the selection of the most suitable format to post their content will vary depending on the specific type of content that is being communicated (e.g. rational, emotional, or transactional). To illustrate, our findings empirically demonstrate that when posting rational content, using the "photo" format will generate significantly more likes than comments. This may be good for boosting "virality" of a post, yet it may not be helpful if the objective is to seek comments or conversational feedback. When posting emotional content, we show that using the video format will stimulate active engagement from users (in the form of comments). Tourism firms who may wish to communicate a highly emotional message, and achieve active engagement (comments), should, therefore, utilize videos in their content.

Third, the results of our paper identified a unique and novel finding regarding a significantly positive effect between different patterns of user engagement behavior on posts within the firm's fan pages. It was identified that the number of comments on a post and the sentiment of those comments significantly stimulate the number of likes on the post. For managers, this identifies the importance of generating positive, active engagement in the form of comments to enhance the ongoing virality of the post in the form of likes. Interestingly, we also identified a significant negative effect between the net sentiment and number of comments for the firms' posts. This indicates that fans tend to express their opinion and write more comments with a negative sentiment, than positive. Managers, as well as scholars, need to further understand the implications of negative comments and word-of-mouth on social media platforms, as this could be potentially damaging to a brand.

Limitations and Directions for Future Research

This paper examined the literature of social media content and user engagement to develop an empirical model and related hypotheses which draw upon the theoretical foundations of Media Richness. This framework proposes three main social media content types; rational, emotional, and transactional, and explores how their effects of active and passive engagement behavior are altered by the content context, namely the format and platform. Using a dataset of 1,038 social media posts and 1,336,741 and 95,996

fan likes and comments, respectively based on two platforms of Facebook and Instagram, we demonstrate significant relationships as proposed in the framework. The results of this research demonstrate that the effectiveness of rational, emotional, and transactional social media content on social media engagement does significantly vary depending on the format of the content (photo vs. video), as well as the platform on which the content is presented (Facebook or Instagram).

The dataset utilized for this study is, however, limited to publicly accessible information from the social media pages of the respective companies. As such, important variables including advertising spending (e.g., investment in sponsored posts) and the total number of impressions (views of posts) compared to the level of engagement (e.g., likes, shares, and comments) are not included within this study. Future scholars should endeavor to capture such data to confirm and extend our preliminary findings. Future research could then capture important information, such as how advertising spending, on video production and placement, may lead to higher impressions, and thus higher engagement. Further, a more complex dataset of social media advertising and engagement may allow access to important information, such as targeting criteria used for social media posts. To achieve this, scholars could collaborate with companies to access their social media data (e.g., Facebook or Instagram Insights) and pair this with data on their advertising spending. Scholars could then also compare companies from the same industry who have varying levels of social media advertising spending, and varying content strategies, to assess their impact on performance in terms of engagement. Our dataset is also limited to the viewable dependent variables of likes and comments. Researchers should endeavor to extend on this to include important metrics such as "click-through rates," as this is likely to be an important metric among marketing managers, especially for those seeking increased website traffic.

Lastly, as our dataset is secondary, we are unable to consider and research the characteristics of users who are engaging with posts, e.g., demographic factors, and so on. As per typical survey research, the inclusion of such data would allow the researchers to control for many sources of bias. The lack of this information means there is likely a self-selection bias in the type of consumers who use Facebook vs. Instagram, or use both platforms. For example, recent statistics show that in 2020, 74% of Facebook users are "high-income earners" (USD 75,000 per annum), compared to 42% for Instagram (Aboulhosn, 2020). Further, users aged 65 and over are the fastest-growing group of users on Facebook, while gen X'ers have reduced their Facebook use (Aboulhosn, 2020). These factors, and many more, provide an important narrative around understanding the type of users engaging across platforms, and this information must be included in future studies to ensure a more robust understanding of the nature of cross-platform use and engagement. To do so, future researchers may consider an experimental design in which they work with a company to manipulate their social media strategy and spending across platforms for various target audiences over some time.

This research was conducted with social media data from a single industry-Airlines. Future research is required in a broader range of industries and product categories which would provide more insights on how social media content should be used to generate engagement. Future scholars would then be able to identify or investigate how industry, product, and brand characteristics play a role in generating online engagement. Another important note for future scholars is to adopt a deeper conceptualization of engagement. In this study, we focus solely on engagement behaviors, limited to actions within social

media platforms (liking and commenting). Further research in this area may want to investigate other forms of online engagement, as well as other dimensions of engagement (e.g., cognitive and affective). Finally, scholars need to also look toward the consequences of achieving social media engagement behavior. This study provides empirical strategic evidence and guidelines for generating engagement in social media; yet further research is needed to consider the benefits of such engagement, for example, brand-related outcomes such as brand equity, purchase intention, offline word-of-mouth, and customer satisfaction. Such research would provide a more holistic picture of the important nature of understanding how, and why, generating online engagement is critical.

Internet, social media, mobile apps, and other digital communications technologies have become part of everyday life for billions of people around the world. According to recent statistics for January 2020, 4.54 billion people are active internet users, encompassing 59 % of the global population (Statista, 2020a). Social media usage has become an integral element to the lives of many people across the world. In 2019 2.95 billion people were active social media users worldwide. This is forecast to increase to almost 3.43 billion by 2023 (Statistica, 2020b). Digital and social media marketing allows companies to achieve their marketing objectives at relatively low cost (Ajina, 2019). Facebook pages have more than 50 million registered businesses and over 88 % of businesses use Twitter for their marketing purposes (Lister, 2017). Digital and social media technologies and applications have also been widely used for creating awareness of public services and political promotions (Grover et al., 2019; Hossain et al., 2018; Kapoor and Dwivedi, 2015; Shareef et al., 2016). People spend an increasing amount of time online searching for information, on products and services communicating with other consumers about their experiences and engaging with companies. Organisations have responded to this change in consumer behavior by making digital and social media an essential and integral component of their business marketing plans (Stephen, 2016).

Organisations can significantly benefit from making social media marketing an integral element of their overall business strategy (Abed et al., 2015a, Abed et al., 2015b, Abed et al., 2016; Dwivedi et al., 2015a; Felix et al., 2017; Kapoor et al., 2016; Plume et al., 2016; Rathore et al., 2016; Shareef et al., 2018; Shareef et al., 2019a; Shareef, Mukerji, Dwivedi, Rana, & Islam, 2019b; Shiau et al., 2017, 2018; Singh et al., 2017; Yang et al., 2017). Social media enables companies to connect with their customers, improve awareness of their brands, influence consumer's attitudes, receive feedback, help to improve current products and services and increase sales (Algharabat et al., 2018; Kapoor et al., 2018; Kaur et al., 2018, Lal et al., 2020). The decline of traditional communication channels and societal reliance on bricks-and-mortar operations, has necessitated that businesses seek best practices use of digital and social media marketing strategies to retain and increase market share (Naylor et al., 2012; Schultz & Peltier, 2013). Significant challenges exist for organisations developing their social media strategy and plans within a new reality of increased power in the hands of consumers and greater awareness of cultural and societal norms (Kietzmann et al., 2011). Nowadays, consumer complaints can be instantly communicated to millions of people (negative electronic word-of-mouth) all of which can have negative consequences for the business concerned (Ismagilova et al., 2017, 2020b; Javornik et al., 2020).

This study brings together the collective insights from several leading experts to discuss the significant opportunities, challenges and future research agenda relating to key aspects of digital and social media marketing. The insights listed in this paper cover a wide spectrum of digital and social media marketing topics, reflecting the views from each of the invited experts. The research offers significant and timely contribution to the literature offering key insight to researchers in the advancement of knowledge within this marketing domain. This topic is positioned as a timely addition to the literature as the digital and social media marketing industry matures and takes its position as an integral and critical component of an organisations marketing strategy.

The remaining sections of this article are organized as follows. Section 2 presents the overview of current debates and overall themes within the current literature. Section 3 presents multiple experts' perspectives on digital and social media marketing. Section 4 concludes the paper discussing limitations and directions for future research.

2. An analysis of recent literature

This section synthesizes the existing literature focusing on digital and social media marketing and discusses each theme listed in Table 1 from a review of the extant literature. Studies included in this section were identified using the Scopus database by using the following combination of keywords "Social media", "digital marketing" and "social media marketing". This approach is similar to the one used by existing review papers on a number of key topics (e.g. Dwivedi et al., 2017, Dwivedi et al., 2019a, Dwivedi et al., 2019b, Dwivedi et al., 2019c; Marriott et al., 2017; Shareef et al., 2015). Based on the classification provided by Kannan and Li (2017) the overall topics were divided into four themes: environment, company, outcomes, and marketing strategies.

Environment

The introduction and advancement of digital technologies has significantly influenced the environment in which companies operate. The studies in this theme focus on the changes of consumer behavior and customer interactions through online media and ewom communications.

Consumer behavior has significantly changed due to technological innovation and ubiquitous adoption of hand-held devices, directly contributing to how we interact and use <u>social commerce</u> to make decisions and shop online. The increasing use of <u>digital marketing</u> and social media has positively influenced <u>consumer attitudes</u> toward online shopping with increasing market share for eCommerce centric organisations (<u>Abou-Elgheit, 2018</u>; <u>Alam et al., 2019</u>; <u>Komodromos et al. 2018</u>). The increasing number of shopping channels has also influenced consumer behavior (<u>Hossain et al., 2019</u>, 2020), creating a more diffused consumer shopping experience. Mobile channels have become the norm and are now embedded within consumers daily lives via the use of mobile tools, shopping apps, location-based services and mobile wallets - all impacting the consumer experience (<u>Shukla and Nigam, 2018</u>).

As in traditional marketing, it is important to identify the needs of users as well as their perceptions and attitudes to the various forms of messaging and communications. Kang (2018)

proposed that organisations seek to identify the needs of members of online communities, create special offerings that accommodate those needs and effectively communicate with members to increase the satisfaction levels of online communities. The study by Bae and Zamrudi (2018)) analyzed social fulfilment aspects of social media marketing, concluding that these characteristics were perceived to be useful in satisfying the motivations of consumers. The study assessed the motivations of belief, community participation and psychological factors, positing these as significant motivators of preceptive social media marketing and relevance for consumers. Consumer attitudes towards social media can in turn influence attitudes towards the brand. The research undertaken in Gaber et al. (2019)) investigated consumer experiences using Instagram advertising, concluding that attitudes are influenced by consumer perception of content usefulness, entertainment, credibility and lack of irritation from the Instagram advertisement itself.

The emerging trend of targeted personal advertising has led to an increase in privacy concerns from consumers. Gironda et al. (2018) found that invasiveness, privacy control, perceived usefulness and consumer innovativeness, directly influenced consumer behavior intention relating to privacy concerns. Companies should be sensitive to privacy and the concerns of consumers as they develop their advertising strategies and build long-term customer relationships (Mandal, 2019).

While many studies within the literature rely on consumers from developed countries, the research by Abou-Elgheit (2018) emphasized the importance of understanding changing consumer behavior from a wider context. The study conducted research on social media marketing within Egypt, highlighting the importance of cognition, emotion, experience and personality aspects that can influence the consumer decision making process and trust toward online vendors. The author argues that different demographic, cultural, geographic and behavioral consumer segments should be considered in companies social media marketing activities.

Consumer voices have become more powerful due to the advancement of social media and be heard by many people. Researchers have focused on consumer engagement, underlying characteristics, motivations and impact of eWOM communications, where factors such as: brand engagement (Algharabat et al., 2018), brand image (Seo and Park, 2018), self-brand image congruity (Islam et al., 2018) have influenced consumer behavior. Consumers personal characteristics and psychological drivers in the form of self-esteem, life satisfaction, narcissism and need to belong, seem to play an important role in consumers sharing intention on social media platforms (Kim and Jang 2019).

eWOM communication can have a significant effect on information adoption, consumer attitude, purchase intention, brand loyalty, and trust (Filieri & McLeay, 2014; Ismagilova et al., 2020a, Ismagilova et al., 2020c). The study by Mazzucchelli et al. (2018) collected and analyzed survey data from 277 millennials and found that peer recommendations significantly affect customer trust and brand loyalty intention. Liu et al. (2018) concluded that expressing subjectivity within online reviews can increase purchase intention among consumers. eWOM communications can yield significant benefits to organisations but also present challenges. Negative eWOM communications can lead to dire consequences for companies resulting in damaged reputation,

negative consumer attitudes and resulting decrease in sales. Consumers generally respond positively to attempts by organisations to promptly reply to negative social media postings where the replies are addressed individually rather than generic postings, thereby preserving brand reputation and trust (<u>Lappeman et al. 2018</u>).

The social media literature suggests that online opinion leaders play important role in the promotion of products and services, highlighting the criticality of selecting the right influencers (Lin et al., 2018; Perez Curiel & Luque Ortiz, 2018). Opinion leaders can be experts, celebrities, micro-celebrities, micro-influencers, early adopters, market mavens and enthusiasts. The study by Lin et al. (2018) suggests that opinion leaders should be used to promote the hedonic and utilitarian value of products and services over different online forums. The research proposed five important steps in the process of utilizing influencers for promotion: 1) planning where the setting of objectives for the campaign is developed and the role of online opinion leaders is defined; 2) recognition where identifying influential and relevant online opinion leaders is defined; 3) alignment where the organisation matches online opinion leaders and online forums with the products or services promoted; 4) motivation where the organisation identifies the reward for online opinion leaders in a way that aligns with their social role; 5) coordination - which involves the negotiating, monitoring, and support for the opinion leaders).

2.2. Marketing strategies

Companies use numerous social media platforms for social media marketing, such as Facebook, Snapchat, Twitter etc. The choice of platforms depends on target consumers and marketing strategy. Chen and Lee (2018) investigated the use of Snapchat for social media marketing while targeting young consumers. The study findings highlighted that Snapchat is considered as the most intimate, casual, and dynamic platform providing users with information, socialization, and entertainment. The study identified that young consumers seem to have a positive attitude towards Snapchat engendering similar feelings toward purchase intention and brands advertised on the platform.

Tafesse and Wien (2018) analyzed various strategies employed by companies such as transformational - where the experience and identity of the focal brand exhibits desirable psychological characteristics; informational - presents factual product; service information in clear terms and interactional - where social media advertising cultivates ongoing interactions with customers and message strategies (Puto and Wells, 1984; Laskey et al., 1989; Tafesse and Wien, 2018). The research undertaken by Kusumasondjaja (2018) found that interactive brand posts were responded to more frequently than informative message content. Twitter was more effective for informative appeal. The findings highlighted that Facebook worked better for interactive entertainment posts and that Instagram was more suitable for interactive content combining informative-entertainment appeals. Interactive brand posts with mixed appeals received the most responses on Facebook and Instagram, while a self-oriented message with informative appeal obtained the least appeal (Kusumasondjaja 2018).

Content marketing plays an important role in the success of <u>marketing communications</u>. Aspects of the literature has argued that the use of emotions in the message significantly affects consumer behavior. The study by <u>Hutchins et al. (2018)</u> analyzed the marketing content of eleven B2B

companies. It was found that using emotions in content marketing can lead to a competitive advantage and increased brand equity. Some studies looked at how companies should share their videos. Ang et al. (2018) conducted a scenario-based experiment with 462 participants and applied social impact theory to conclude that a livestreaming oriented strategy is more authentic in the eyes of consumers than pre-recorded videos by increasing consumers searching and subscription intention.

Social media message characteristics are important for advertisers. For example, Hwang et al.
(2018) used motivation theory within a tourism context to conclude that completeness, relevance flexibility, timeliness of the argument, quality and trustworthiness of source-credibility, have a positive impact on user satisfaction. This in turn can affect user intention where consumers are inclined to revisit the website and purchase the tourism product. Kang and Park (2018) found that message structure (interactivity, formality, and immediacy) significantly affects consumer behavior, such as attitude towards brand, corporate trust and purchase intention. Companies face many challenges when developing their strategies for social media marketing. The study by Parsons and Lepkowska-White (2018) proposed a framework to help managers to develop and apply social media as a marketing tool. The proposed framework includes four dimensions: messaging/projecting, monitoring, assessing, and responding. Lee et al. (2018) analyzed 106,316 Facebook messages across 782 companies and found that inclusion of humor and emotion can lead to greater consumer engagement.

2.3. Company

A number of different approaches have been adopted by organisations in the use of digital and social media marketing where companies have exhibited varying attitudes to social media strategy. The study by Matikiti et al. (2018) examined factors that affect attitude of travel agencies and tour operators in South Africa. By using questionnaires collected from 150 agencies the study found that there are internal and external factors influencing attitude. Internal factors are managerial support and managers' level of education. External factors are pressure from competitors, perceived benefits and perceived ease of use. The study by Canovi and Pucciarelli (2019) investigated the attitude towards social media marketing in the context of small wine companies. The study found that while the majority of winery owners recognize the social, economic and emotional benefits of social media, they are far from exploiting its full potential.

The literature has identified variances in attitude to social media, depending on the size and type of the company. B2B companies tend to perceive social media as having a lower overall effectiveness as a marketing channel and categorize it as less important for relationship building than other communication models (<u>Iankova et al., 2019</u>). Motivations such as perceived economic benefit, sense of control, self-improvement, ease of use and perceived usefulness, tend to influence small businesses to use social media marketing (<u>Ritz et al., 2019</u>).

Organisations use various tools for analyzing and capturing data from social media and managing multi-channel communication. However, companies tend to lack sufficient knowledge on emerging technologies such as Artificial Intelligence (AI) with many organisations exhibiting low levels of adoption and utilization of Machine Learning (ML) analytical tools (<u>Duan et al.</u>, 2019; <u>Gil-González et al.</u>, 2018; <u>Miklosik et al.</u> 2019). These technologies could be used by

companies for automated <u>curation</u> of brand-related social media images (<u>Tous et al., 2018</u>); to identify more effective sales promotional targets (<u>Takahashi, 2019</u>); to propose personalized incentives for users (<u>Ballestar et al., 2019</u>) and for identifying relevant eWOM communications (<u>Vermeer et al., 2019</u>).

2.4. Outcomes

The effects of digital and social media marketing can result in a number of positive and negative outcomes for organisations. Studies have found that social media marketing has a positive effect on customer retention (Hanaysha (2018) and also on purchase intention in the context of: hotels (Alansari et al., 2018), luxury fashion brands (Morra et al., 2018) and universities (Wong et al., 2018). Digital and social media marketing can have a positive effect on a company's brand. This can take the form of aspects such as: brand meaning (Tarnovskaya and Biedenbach, 2018), brand equity (Stojanovic et al., 2018; Mishra, 2019), brand loyalty (Shanahan et al., 2019) and brand sustainability (Ahmed et al., 2019). The research undertaken by Stojanovic et al. (2018) applied the schema theory and multidimensional approach to brand equity where the effect of social media communications on brand equity was studied using survey data of 249 international tourists. The results identified a positive effect of the intensity of social media use on brand awareness and intention to engage in eWOM communication. Studies have found that social media can have a significant influence on brand loyalty, sustainability and business effectiveness (Ibrahim & Aljarah 2018; Veseli-Kurtishi 2018).

Studies have considered consumer engagement as an outcome of social media marketing. The study by Syrdal and Briggs (2018) proposed that engagement should be considered as a psychological state of mind and should be considered separately from interactive behavior which includes liking and sharing content. While the majority of studies consider the effect of social media marketing and digital marketing on commercial companies, some studies focused outcomes relating to non-profit organisations. Smith (2018) examined the use of Facebook and Twitter in the context of non-profit organisations and the outcomes as well as impact on user engagement, concluding that users respond differently to social media activities across platforms.

There are negative outcomes and resulting consequences of digital and social media marketing that need to be considered by organisations. <u>Aswani et al. (2018)</u> highlight that digital marketing can have a negative effect if performed by unskilled service providers. The study highlights that if marketing is not developed and managed properly, it fails to provide benefits, destructs value, increases transaction costs, coordination costs, loss of non-contractible value and negative impact on long-term benefits.

Contribution 1 - digital marketing & humanity: from individuals to societies and consuming to creating - Anjala S. Krishen

Several recent studies examine hypothesized links between humanness, or human-like physical or evolutionary characteristics and ascriptions of humanity and social perceptions (e.g. Wang et al., 2019). Humanness, or lack of dehumanization, is associated with the possession of sophisticated cognitive and agentic capacities and emotional and experiential responsiveness (Deska et al., 2018). Humanity and humanness, while intertwined, are not synonymous.

Humanity is not simply defined as a collection of human beings; it is also characterized by the enactment of compassion, sympathy, generosity, kindness, and benevolence (c.f. Krishen and Berezan, 2019). In this age of digitization and analytics, societies are grappling with intersections – human-computer, human-machine, and human-human (race, religion, sexuality, gender, ethnicity, country-of-origin, etc.), among others. At each of these intersections lies another challenge for humanity, especially in relation to digital vulnerability. Research is needed to further understand how digital marketing relates to humanity. To grow this body of research, we offer three aspects of individuals as dimensions of their humanity: (1) individuals as seekers of capital, including informational, intellectual, social and cultural, (2) individuals existing and functioning with change, agency, and empowerment, and (3) individuals as progressively moving forward and creating capital. As conduits to these dimensions lies digitization and multiple intersections of communication.

3.1.1. Conceptual framework and research proposition

In <u>Fig. 1</u>, we propose a humanity framework. Various facets of individuals enacting humanity are depicted in clouds (certain ones are at the forefront); the lower level (such as information seekers) shows dimensions which are more tied to consumption while the upper level ones (such as knowledge creators) are more tied to creation

3.1.1.1. Seeking capital: information, social, and cultural

Individuals spend much of their time consuming. This consumption can be tangible (e.g. physical objects) or intangible (e.g. relationships). Digital and social media marketing provide a mechanism by which to gather vast amounts of information, a phenomenon known as information overload (Hu and Krishen, 2019). To counter the overload, sophisticated hardware and software solutions enable adaptive choice sets and recommended products and services (Krishen, Raschke, and Kachroo, 2011). As seekers of social and cultural capital, consumers participate in multiple forms of social media; ideally, this could lead to a lived experience of mindfulness, happiness and belonging. Paradoxically, digital marketing simultaneously enables negative mental health issues (e.g. loneliness; Berezan, Krishen, Agarwal, and Kachroo, 2020 forthcoming) while facilitating solutions to them (e.g. social marketing campaigns encouraging mindful consumption; Bahl et al., 2016).

Proposition: In the process of seeking various types of capital through digital marketing platforms, consumers experience both positive (benefits or "gets") and negative (costs or "gives") effects.

3.1.1.2. Encountering change, agency, and empowerment

Cultural agency refers to an analytical lens for understanding individual actions and decisions as emergent from interactions between public and private experiences and ideas; for example, the purchase or desire for skin lightening creams stems from complex layers of individual agency and public hegemonic discourses (Wong & Krishen, 2019). The digital marketing ecosystem provides an environment within which individuals encounter change, agency, and empowerment. Digital marketing can enable consumers to access vast amounts of knowledge regarding diverse

populations throughout the world: some who share similar ideas and others who live in completely different environments. This ability to understand and interact with multiple cultures and societies through online forums, support groups, information repositories, eWOM postings, and so on, has the potential to facilitate greater intersectionality, diversity, and inclusiveness throughout humanity. For example, through online representation via Twitter, fourth wave feminists can champion discussions and debates, mobilize social justice, and become change agents with organized political activities, and create allies, collaborations, and coalitions (Zimmerman, 2017). Alongside the ability to learn about other people and environments, individuals have access to information that can enable them to make data-driven decisions with potentially higher quality data (Zahay et al., 2014). Technologies also allow consumers to act as agents, empowered or unempowered, as they traverse the marketplace. For instance, fitness trackers enable social networks to share common health goals and track individual and group progress.

Proposition: Digital marketing platforms provide forums though which consumers can work across boundaries in a plethora of ways, including: 1) as empowered agents seeking to collaborate, 2) as data-driven <u>decision makers</u> enabling transparency, and 3) as social change humanitarians spreading knowledge through their voices.

3.1.1.3. Moving forward and creating capital

As a facilitator of intellectual capital, digital and social media marketing allows consumers to circulate new knowledge through complex gatekeeping processes that track both its quality as well as its popularity. Creativity is not limited to written knowledge and spans products and services that can be self-created (do-it-yourself), a process that can lead to greater well-being and mindful consumption (Brunneder and Dholakia, 2018). Through transformational leadership, individuals as part of teams can convert cognitive diversity to team creativity (Wang et al., 2016). These creative processes and systems exist in face-to-face environments but also in digital and social media ones, which often provide additional tools and mechanisms (Iacobucci et al., 2019).

Proposition: Digital marketing platforms have the potential to unlock multiple forms of creativity and knowledge alongside the sophistication to carefully link them together.

As shown in Fig. 1, digital and social media marketing provides a backdrop to humanity and humane individuals, one that can serve as both a positive and negative force. The challenges to humanity in the digital environment (e.g. information overload) can be overcome with tools and mechanisms that build credible knowledge and facilitate data-driven decisions.

3.2. Contribution 2 - leveraging social media to understand consumer behavior - Gina A. Tran

Daily, the average individual spends 2 h and 23 min on <u>social networking</u> sites; this time is spent reading the news, researching products and staying in touch with friends (Global Web Index Social Flagship Report, 2019). Given the prevalence of social media within consumers' lives, it is clear that organizations must effectively use social media marketing to reach potential markets. However, social media marketing presents unique challenges for both practitioners and

researchers, as the lack of validated scales, constant changes in social media platforms (including emerging platforms) and use of <u>social network analysis</u>, is needed to understand how information shared on social media influences consumers.

3.2.1. Lack of validated scales

One of the challenges of researching social media marketing is the lack of appropriate constructs (Cooper, Stavros, & Dobele, 2019) and validated scales (Tran et al., 2019) to test the potential models of how social media usage impacts consumption behaviors. While existing scales may be adapted for the context of social media, this approach is not always successful (Tran et al., 2019). The scales currently available do not fully capture and measure the complexity of social media. For example, no scale currently exists to measure the level of perceived connectedness via social media between an individual to others, as well as perceived connectedness via social media between an individual to a brand. It would be interesting to explore these relationships and the link between perceived connectedness and behavioral outcomes, such as brand awareness, electronic word-of-mouth intentions and purchase intentions. One recommendation for future research is the development of scales germane to social media and the capabilities of social media.

3.2.2. Changes in social media

With social media platforms in perpetual beta mode, which is the consistent release of new functions, change is a constant in social media platforms. This makes it challenging to research social media marketing and the metrics associated with social media. While some social media metrics may remain consistent, such as number of followers, likes and shares, other metrics emerge that may be useful. For example, social media influencers, also known as influencers, are individuals with the ability to influence others by promoting and recommending brands and market offerings on social media. The influencer marketing industry is expected to be \$15 billion by 2022 (Schomer, 2019) and metrics such as customer influence effect, stickiness index and customer influence value (Kumar & Mirchandani, 2012) have emerged as key factors in evaluating possible influencers to share information about the brand, increase brand awareness and promote electronic word-of-mouth conversations about the brand. Another concern is the problem of decreasing organic reach, which is the number of people who have viewed the content at no cost to the marketer (Tuten & Solomon, 2018). Between 2013 and 2018, the expected organic reach of a brand's Facebook post dropped from 12 % to 5 % (Tips for Increasing Organic Reach, 2019). With the improving algorithms and surge in number of posts, brands must work harder to gain attention and boost organic reach, which is proving to be more problematic. Beyond the continual changes in existing social media platforms, another concern is the development of new social media platforms.

New social media platforms are introduced and begin to grow in popularity and gain new followers, representing both opportunities and challenges for social media marketing. With the different social media platforms, there may be varying capabilities for brands to interact with individuals, which means social media marketing managers must learn to adapt to effectively use the platform to reach consumers. Furthermore, perhaps new marketing strategies for the new social media platforms must be created to gain customer leads and enhance consumer

engagement. For academics researching social media marketing, the novel social media platforms also present opportunities for additional research, including potentially comparing the different platforms, exploring how and why individuals may use the various social media for distinct purposes and developing or modifying metrics for measuring return on investment.

3.2.3. Social network analysis

Social network analysis involves studying networks of people, where each individual is a node. The social structure of connections and ties between nodes are investigated and characterized in social network analysis (Wasserman & Faust, 1995). Social network analysis has been researched in relation to electronic word-of-mouth (Sohn, 2009), identifying influencers (Zhang & Li, 2014) and investigating how individuals influence others, the relationship between influence and tie strength and the flow of information through social media (Gandomi & Haider, 2015). However, there are still gaps in the social network analysis of social media usage literature.

One possible avenue for research may be to explore how consumers' motivations for sharing information via social media impact others' perceptions of the message, which is particularly interesting given the phenomenal growth of the influencer industry. An extension of this research is to examine if and how influencers' use of paid <u>advertisements</u>, sponsorships and partnerships affects followers in the social network. Experimental or quasi-experimental designs may be employed to determine if nodes pay attention to the paid advertisements on social media, and how this may interact with the nodes' reactions, shares and comments on the influencers' nonorganic posts. Beyond influencers, it would be fruitful to research the potential negative effects of what happens when a node views the same message on social media multiple times. Is there a point where there is a negative effect of exposure to the same information shared by too many nodes? Perhaps the information about the number of shares, comments and reactions on social media may dilute the impact of the relevant information (Nisbett et al., 1981). The potential findings of such research may have both theoretical and managerial implications for understanding consumers.

Often, both academics and practitioners focus on understanding how positive electronic word-of-mouth messages travel through nodes in social networks. However, there is also value in examining negative electronic word-of-mouth in social networks, as recommended by Pfeffer, Zorbach, and Carley (2014). These researchers defined the term online firestorm as the "phenomenon involving waves of negative indignation on social media platforms," which has affected brands, organizations, politicians and celebrities following the release of less than desirable information (Pfeffer et al., 2014, p. 125). Future research may explore how the technical capabilities of specific social networking sites, an individual's social identity, altruistic tendencies and commitment towards the organization impacts the individual's propensity to share negative word-of-mouth messages. In addition, it would be interesting to use social network analysis to investigate how in-group and out-group members are likely to transmit negative word-of-mouth information, as well as the potential influence of negative messages on these nodes (Balaji et al., 2016).

It would be intriguing to compare how negative versus positive electronic word-of-mouth travels through a social network online. The velocity of information flow, volume of information shared, network clusters and cross-posts on different social media may be analyzed and compared for negative and positive electronic word-of-mouth. To conduct this research, a social networking platform that allows all viewers to see the nodes, ties and frequency of reactions and comments may be used. A quasi-experimental design approach may be used to select the nodes; an event or noteworthy news article would be shared to these nodes. Data on the number of times the node viewed, shared and commented on the event and the impact of these numbers may be explored to better understand how viral marketing works. It would be interesting to potentially measure the speed of the information flow, which may be possible with the advanced technical designs of the social media platform. Based on the research limitations and gaps outlined above, the two propositions are formulated hereafter to help guide future research on this topic.

3.2.4. Research propositions

When individuals make judgments, the dilution effect occurs when people fail to use diagnostic information in the presence of nondiagnostic information (Nisbett et al., 1981). For social media marketing, the dilution effect may occur when consumers view the number of reactions and comments about a message, which serve as the nondiagnostic details. The message is the diagnostic information. However, if the number of reactions and comments on the social media platform is too high, perhaps that may serve to dilute the effect of the diagnostic message details and serve to negatively impact the individual's judgment of the information. The following is proposed.

Proposition: On social media platforms, a) the number of reactions and comments positively impacts the individual's perception of the message to a peak point; b) beyond the peak point, the number of reactions and comments negatively impacts the individual's perception of the message.

The immediacy of social media makes it easier for people to act on their altruistic impulse and use it to spread messages and propagate goodness (<u>Tuten & Solomon, 2018</u>). On the other hand, individuals may also decide to use social media for the purpose of altruistic punishment, which is bringing attention to a person or organization whose behavior is socially unacceptable (<u>Rost et al., 2016</u>). The altruistic punishment available through the use of negative messages on social media allows enforcement of the group's social norms. To enforce the social norms on the offending person or organization, the negative word-of-mouth information is spread more quickly through a social network, when compared to positive word-of-mouth information. Thus, the following is postulated.

Proposition: In social networks, negative word-of-mouth information flows faster than positive word-of-mouth information.

3.2.5. Conclusion

With more consumers turning to social media use daily for activities such as reading the news, researching products and enjoying entertainment (GlobalWebIndex Social Flagship Report,

2019), organizations must strategically use social media marketing to appeal to their target audiences. However, challenges in using social media to reach consumers include lack of appropriate scales to measure and investigate constructs of interest, the constant changes in current and emerging social media platforms and the application of social network analysis to research the flow of electronic word-of-mouth messages and the influence on consumers' attitude and behaviors of such information. We encourage researchers to conduct further research in these areas to better understand the phenomena of social media marketing to benefit both academics and practitioners.

3.3. Contribution 3 - understanding and cultivating engaged consumers in digital channels - Jamie Carlson

Over the past 20 years, marketing and IS academics and practitioners have observed the "digital transformation of marketing" where Digital and Social Media Technologies (D&SMT) have become firmly embedded into billions of people's daily lives. D&SMT (e.g. e-commerce, online brand communities, digital advertising tactics, live chat services, mobile services) have since revolutionized the engineering of compelling customer experiences offering new ways to reach, inform, sell to, learn about, and provide service to customers that have an overarching social dimension (Lamberton and Stephen, 2016).

The dynamic, interactive exchanges enabled by D&SMT have led to consumers playing a far greater role in how they shape their own individual *and* communal-based experiences with brands (Carlson et al., 2018). This has strategic consequences on how customers engage with brands beyond transactions alone, a concept labelled as 'customer engagement behaviors' (CEBs) which is vital for contributing greater value for the organisation (van Doorn et al., 2010v). For instance, customers can create (destroy) value for an organisation through purchase related behaviors as well as through influencing others, generating knowledge exchanges and co-creation/developing behaviors with brands (c.f. Jaakkola and Alexander 2014; Kumar et al., 2010).

As the proliferation of new technologies (e.g. artificial intelligence, robotic solutions, wearable technologies, augmented and virtual reality) continue to emerge, greater research focus is now needed to understand how brands can leverage these multitude of technologies to cultivate CEBs. Despite the excitement that such new technological capabilities afford managers in the construction of customer experiences, this often leads to confusion about when and how to deploy what information technology to maximize value creation opportunities during stages of the customer journey (Gartner Research 2019). In parallel, there have been calls for business and technology research to widen its boundaries and be more relevant to business practices that improves the lives of people in our societies, such as alignment to the U.N.'s Sustainability Development Goals (Dwivedi et al., 2019c; RRPM, 2019). Through greater understanding of consumer expectations and preferences for engaging with brands through technology, organisations can then develop truly differentiated customer experiences that cultivate CEBs and greater value and well-being for them. As such, it is therefore necessary for consumer research to continue to examine and understand the mechanisms by which D&SMT can further unlock CEBs and improve consumer well-being.

Against this backdrop, this section outlines key challenges and opportunities around cultivating CEBs and consumer well-being in the D&SMT context and present a research agenda to stimulate further research enquiry.

3.3.1. Challenges and opportunities for research

The first challenge relates to customer experience (CX) design. Research emanating across IS and marketing literatures do indicate that CX-design of D&SMT plays a fundamental role in encouraging favorable customer behaviors towards brands (Carlson et al., 2018; Kamboj et al., 2018). Nevertheless, consumers expect a seamless, integrated and holistic customer experience, regardless of the channel. Offering multi- or omnichannel consumption experiences, whereby interactions with a variety of digital channels and with real people (either phone or in-person) complement rather than compete with each other, enhances the overall customer experience (Bolton et al., 2018). However, despite channel integration efforts by organisations, recent market reports show that 54 % of UK customers are disappointed with their most recent experiences (Temkin Group, 2017). As such, the design and measurement of CX initiatives involving D&SMT and their integration will become paramount in order to unlock the full extent of CEBs and well-being to maximize mutual value fulfilment for the customer and the firm.

The second challenge concerns personalization. D&SMT provides significant opportunities for highly personalized communications. Here, brands can offer content and customized product recommendations resulting in greater customer satisfaction and CEB outcomes. Despite this, several challenges surface for consideration. First, given the growing availability of personalization options through D&SMT, customer brand evaluations are expected to increase. This has important implications for CX management as when customers develop habits to using specific technologies, their initial customer delight is expected to transfer to their realm of expectation (c.f. Rust and Oliver, 2000). A second challenge is managing the personalization/privacy paradox. Numerous corporate data breaches have led to government legislation for increased privacy e.g. The European Union General Data Protection Regulation (GDPR), tighter data security and the consumer right to erase their information which has the degree of difficulty for marketers to build meaningful and authentic relationships with consumers through personalized experiences. Furthermore, when brands leverage collected customer data to provide relevant, personalized content, it might heighten some customers' sense that the brand has some manipulative intent, which could spur privacy concerns (Aguirre et al., 2016). This has negative consequences for cultivating CEBs and their well-being where consumers are less likely to participate, for example, in sharing their motivations, preferences and desires with brands. Despite these challenges, the opportunity therein lies in understanding how to overcome these issues so that consumers are willing to disclose this information for personalization to more readily occur so that satisfied and loyal customers can be achieved.

The third challenge is associated with segmentation. With the increasing rate of media fragmentation and channel multiplicity, segmenting the marketplace has become vital. However, as D&SMT adoption intensifies in the marketplace, careful consideration is needed as to the development of technology-specific user segmentation. While many customers will use familiar technology (e.g. websites, mobile apps), technologies that are new or more peripheral to the market offering (e.g. interactive virtual assistance, social media to register complaints, self-serve

technologies) will likely see varying adoption levels across customer segments, including in terms of demographics, psychographics, or brand- or marketing-related preferences. This will become a critical issue looking forward as by 2050, demographic trends indicate that society will contain growing numbers of aged population and consumers with disabilities, changing family roles and structures, and global migration (Fisk et al., 2018). As such, the opportunity arises for customer experiences through D&SMT to be designed for inclusion to account for the myriad of ways in which different segments of consumers can access and engage with brands.

The fourth challenge relates to innovation and collaboration. The use of D&SMT has enabled customers new opportunities for interacting and collaborating with brands in the innovation process (e.g. Carlson et al., 2018; Kamboj et al., 2018). For instance, the increasing sophistication of online brand communities on social media have enabled opportunities for customers to become active collaborators that generate new ideas within these communities (e.g. My Starbucks Idea). Here, advancements in social media monitoring, text and image analysis techniques that "listen" to, and capture, customer-generated content enable ideation, sharing, product development and brand experience improvements (Humphreys and Wang 2017; Villarroel Ordenes et al., 2018). As such, this requires organisations to prepare for and invest in their own adaptive capability to capture, manage and exploit these opportunities from customers to gain a deeper understanding of customers' available resources and those they are willing to invest in particular brand-related interactions. This understanding can, in turn, be translated into customization tools to optimally cater for specific customer needs, wants or preferences (e.g. Lego Ideas customer co-creation platform).

3.3.2. Agenda for research and practice, and research propositions

The following paragraphs advance a set of research questions relating to the challenges and opportunities outlined above.

3.3.2.1. Customer experience (CX) design

Since consumers now live in a world in which most aspects of their lives can potentially intersect with digital, physical and social realms, it enables them to interact with brands seamlessly from almost any device. As a consequence, a discussion is occurring across industry and academia on how marketers can appropriately integrate and measure online and offline CX efforts (i.e., an omnichannel approach) (Lemon and Verhoef, 2016; McColl-Kennedy et al., 2019). While various CE measurement frameworks exist for a single channel within the literature, what is missing is a measurement framework that shows how customers evaluate CX performance within an omnichannel environment in consideration of relevant cues and encounters across all channels (Ostrom et al., 2015; Lemon and Verhoef, 2016). In this regard, the influence of simultaneously using many channels focused on a customer's cognitive process of quality assessment and the attributes associated with a positive omnichannel experience, remains unclear (Ostrom et al., 2015). To address these issues, researchers need to clarify 1) what CX design attributes across different D&SMT channels are most conducive toward cultivating CEBs and customer well-being? How does this differ across industries, contexts and cultures? 2) How can organisations integrate and deliver superior cross-channel experiences that contribute to the formation of favorable CEBs and customer well-being? 3) How can brands leverage new CX via

emerging technologies (e.g. augmented and virtual reality, voice activated assistants, wearable technologies) to cultivate CEB and well-being outcomes? These questions need to be addressed by further research, so the following proposition is offered:

Proposition: It is necessary to theorize a CX framework for D&SMT and its impact on CEB and well-being, therefore an integrated conceptual framework is needed to provide a systematic understanding of CX design in a D&SMT-driven omnichannel context.

3.3.2.2. Personalization

With the advancement of technologies that support managing customer data across channels, brands are well positioned to analyze customer behaviors and provide personalized offerings that maximize customer satisfaction. However, to overcome the personalization / privacy paradox and customer trust issues with brands, researchers need to consider the following issues that arise. For instance, based on the social exchange theoretical premise that the firm's delivery of valuable, consistent content to (prospective) buyers, will see these rewarding the firm in exchange with their future loyalty (Blau 1964); what strategies can motivate consumers to participate in CEBs, such as provide their preference information across various D&SMT? Are customers motivated differently on different touchpoints? What role does digital literacy regarding privacy play? What strategies are most effective for dealing with consumer privacy concerns that prevent CEB outcomes in digital channels? e.g. Are younger generations really less concerned about privacy, and will that last as they age? What customer traits may influence/block sharing behavior with brands on D&SMT? As such, more research is needed to better understand the combination of factors that affect (and prevent) the enhancement of personalization opportunities for consumers to better satisfy their needs. Considering the importance of customer attitudes towards privacy and its implications for greater personalization in D&SMT's, the following proposition is advanced:

Proposition: There is a necessity to fully understand the facilitators, barriers and individual customer characteristics that will affect the success of personalization to better cultivate CEB and well-being

3.3.2.3. Segmentation

While pure technology driven service delivery may yield efficiency gains for brands, managers may wish to retain a level of human service contact, particularly for those customers exhibiting a preference for these over technology-driven interactions (e.g. vulnerable consumers such as the elderly, low digital literacy skills, sensory deterioration issues) (Fisk et al., 2018). Within this context, rapidly evolving technological and societal developments require brands to constantly consider their customer segments to reflect different channel preference structures for digital interactions to maintain their relevance, accuracy and maximize inclusion. As such, further research opportunities include: which combination of variables are most effective in segmenting customers in D&SMT channels? What role does technology preference play in this mix? What CX design elements need to be tailored to meet different customer D&SMT needs, which may differ across product offerings, industry sectors or over time? What are the technology

preferences for vulnerable customers that enable them to better participate in CEB's with brands? Therefore, the following proposition is offered:

Proposition: In a growing heterogenous marketplace, there is a necessity to fully understand the configuration of segmentation bases in the context of D&SMT for cultivating CEBs and wellbeing.

3.3.2.4. Innovation and collaboration

As previously discussed, the multitude of D&SMT provides significant potentialities for cultivating CEBs for the purpose of innovation capture.

While success factors affecting the use of D&SMT for capturing innovation opportunities have been studied from the customer (e.g. Carlson et al., 2018; Nambisan and Baron 2009) and firm perspectives (e.g. Muninger et al., 2019; Zhang et al., 2019), more needs to be known on identifying the critical success factors affecting the current use of emerging technologies. In light of these opportunities for developing innovation generating capabilities, the following research opportunities emerges from both the customer and firm perspectives: How can brands leverage new technologies (e.g. AI, augmented and virtual reality, voice activated assistants, wearable technologies) with current technologies to cultivate innovation behaviors from individuals, and the broader community of consumers? What D&SMT strategies, activities or initiatives enhance how customers participate in innovation related behaviors (e.g. share new ideas, co-production)? What motivates customers to invest their own resources (i.e. time, skill, knowledge) for participating in CEBs related to innovation with brands through D&SMT? What is the interplay between customer traits (e.g. innovativeness, brand involvement, technology readiness) and attributes of technological platforms in this process? What firm capabilities are required to capture, manage and exploit these innovation opportunities from customers to gain a deeper understanding of them? On this basis, the following proposition is advanced:

Proposition: There are a set of critical factors at the individual and organizational level that will positively affect D&SMT's success for cultivating innovation related CEBs and well-being.

3.3.3. Concluding statement

IS and Marketing scholars have an essential role to play in shaping the agenda of how D&SMT can cultivate CEBs in the future and generate greater value for the profit *and* non-profit organisation. However, to contribute meaningfully, it must be noted that greater interdisciplinary awareness between IS and marketing scholarship is required to unveil novel insights to achieve CEB objectives. It is anticipated that the research agenda will be useful for scholars to stimulate new insights that inform and guide how practitioners may harness technology to deliver greater benefits for the customer, their well-being, and ultimately stronger customer-brand relationships. To date, there has been growing research activity in the literature related to CEB, and many important and noteworthy contributions to knowledge have been made. To advance the knowledge base further forward, particularly given the fast-moving nature of digital settings, research that attempts to broaden our understandings of CEB, and examines new and evolving

technologies that enhance the customer experience that impacts society as a whole will be most valuable.

3.4. Contribution 4 - B2B Digital and social media marketing - Jari Salo 3.4.1. Theoretical advances

Computers and artificial intelligence have been used for decades to help digitalize business processes in and within companies in the buyer-seller relationships as well as to attract and keep customers. Martínez-López and Casillas (2013) provide complete review of industrial marketing deployment of artificial intelligence e.g. in segmenting and pricing from 1970s to 2013. Continuing from that Syam and Sharma (2018) provide a detailed overview impacts of machine learning (ML) and artificial intelligence (AI) on personal sales and sales management. They also detail an overview of worthy research areas that are still relevant. In addition, ML and IoT has been focused from a more systemic perspective i.e. business model innovation (Leminen et al., 2019), where authors found four different types of architypes of business models that are utilized by different B2B companies. Also IoT and ML studies are reviewed in detail by Leminen et al. (2019). Since, the publication of Leminen et al. (2019), Suppatvech, Godsell and Day (2019) provide a literature review on how IoT is linked to industrial services. They provide four architype models with add on, sharing, usage-based and solution oriented where degree and intensity of IoT usage varies. At a more fine grained level, Liu (2019) utilizes big data analysis and ML methods to show that negative user-generated content – customer sentiment has negative impact on stock performance. The ever increasing popularity of big data research and big data skills have spilled over to an industrial context. Sun, Hall and Cegielski (2019) build an integrated view to explain the decision to adopt big data. They show that relative advantage and technology competence are key factors when planning the adoption. B2B companies face challenges in digital marketing technology investment decisions (Sena and Ozdemir, 2019) as well as on deciding how and what skills to develop (Sousa and Rocha 2019). Data, big or small, is analyzed in multiple ways by B2B companies. Different types of analytics are used (big data, web and social media among others) to identify possibilities to increase marketing performance (Järvinen and Karjaluoto, 2015), automate marketing activities (Järvinen and Taiminen 2016) and better social media marketing (SMM) (Sivarajah et al. 2019). Besides big data, IoT and ML also virtual and augmented reality trials have been popular in the industrial field as well which have also resulted in some research. Laurell et al. (2019) study barriers to adopt virtual reality which are - lack of sufficient technological performance and limited amount of applications.

SMM in the context of business markets has witnessed a steady increase in the number of publications as the review of literature indicates (Salo, 2017). Since the publication of Salo (2017) and other related systematic literature reviews on sales (Ancillai et al. 2019) and advertising (Cortez et al., 2019), several scholars have approached industrial SMM. Subsequent to the publication of the aforementioned reviews on SMM, traditional areas of B2B marketing such as advertising, marketing communications, strategic management, sales and NPD have been of interest to those who utilize social media lenses in their research. Within advertising, two recent publications are discussed. First, with help of a hierarchy-of-effects theory Juntunen, Ismagilova, and Oikarinen (2019) study the use of Twitter by world's leading B2B companies. They identify from an advertising perspective that companies use Twitter for creating awareness, knowledge and trust, interest and liking amongst their followers by both strategic and tactical

means. Interestingly, purchase, preference and conviction are much less advertised. Twitter feed scraping is gaining popularity among B2B marketers as a similar study was conducted by McShane, Pancer and Poole (2019) while focusing on a fluency perspective. From a marketing communications point of view, Magno and Cassia (2019) survey 160 companies and find that thought leadership (similar to influencer marketing within a business to consumer context) via SMM, has a positive influence on brand performance and customer performance. Additionally, they highlight that specific thought leadership capabilities could emerge that support social media capabilities. Similarly to Magno and Cassia (2019), Foltean, Trif and Tuleu (2019) are interested in these capabilities and survey 149 companies. It was shown that social media technology improves the CRM capabilities of a B2B company. Besides capabilities, acquiring new customers i.e. sales is pertinent function in the B2B marketing field as indicated by the two reviews. <u>Iankova et al. (2019)</u> identify that SMM is used in all stages of the customer engagement cycle for acquiring new customers. From the new product development point of view, Cheng and Krumwiede (2018) studied supply chains. By surveying 367 Taiwanese companies they found that market and technological-knowledge processing capabilities strengthens the positive effect of using social media in the new product development process with the involved supplier.

3.4.2. Limitations of research and practice

Some limitations of research and practice can be identified from the existing research. First, one can see that previous studies still to some extent, rely on comparison with B2C and B2B which is rather unorthodox method and provides limited information for industrial marketing scholars. Second, several studies still rely on relatively small sample sizes (about 75 companies) in surveys as well as a relatively small amount of key-account interviews (e.g. seven experts) conducted. Third, even though web scraping and utilizing e.g. netnography in qualitative research is gaining popularity, these need to be linked with objective measures. A Limited amount of research in general, exists that utilizes objective measures, which can correspond to a lack of real-world relevance. Fourth, it seems that sales and advertising are still pertinent areas of focus while the scholars could also deepen our understanding in other areas of industrial marketing (e.g. buyer-seller relationships).

3.4.3. Agenda for future research

Based on the meta-analysis of the existing systematic literature reviews and research, one can highlight some future research areas. First, B2B research will see in the future B2B companies using more of their resources to content marketing that is geared toward lead generation e.g. via A/B tested email campaigns. Second, many B2B companies are still lacking skills in SEM especially SEO which links to customer insights creation with 360-degree video as well as immersive (AR-VR) content or any interactive content for that matter. Third, in the realm of website design predictions are that customers are increasingly focused on page speed download times among other factors which leads to website experience optimization unless 5 G will be adopted at faster rates. Fourth, B2B companies have increasingly adopted different types of website and social media analytics tools which desperately needs research especially on effectiveness of current data dashboard and visualizations, are we focusing on the right issues? As is the case with consumer markets, B2B market companies will increasingly use predictive or

behavioral marketing tactics leading to an increased use of learning e.g. with bacterial algorithms. Fifth, some industries such as <u>finance</u> and food are likely to be interested in applying digital technologies such as blockchain, cloud computing, thin clients, remote monitoring and sensors that alter not only the buyer-seller relationship, but also customer behavior. All these technologies can be used in different B2B categories (<u>Salo, 2017</u>). Considering the above discussion and help guidance for future research, the following two propositions are offered.

3.4.4. Research propositions

It can be synthesized, with some hesitation from the previous B2B digital and social media marketing review, and proposed as a core of future research that digital technologies in broad (including AI, platforms, IoT, Machine learning, big data, different digital analytic and visualization tools) are changing in ever increasing pace B2B digital and social media marketing. This poses a challenge to theory testing and building as different types of digital technologies influence marketing sub-domains (Reid and Plank 2000) and empirical contexts (industries) in different ways. Besides, these challenges to theoretical advancements are also an ethical dilemma as part of the general opinion, with some parts of the research community having woken up to the dark side of the ever-increasing volume of data and opaque predictive algorithms.

Proposition: Digital technologies are increasingly changing digital and social media marketing in the context of B2B.

In order to extend the previously mentioned core research focus where theoretical advances are sought for in B2B Digital and social media marketing one has also adapt novel research methodologies. Both case studies and surveys have been traditionally popular method of gaining new insights in the field of B2B marketing and <u>business studies</u> at large. Still, relatively little of the digital research methods, that offer, in many situations objective data are fully utilized. Digital analytics tools (<u>Järvinen 2016</u>), <u>neuroscience</u> (<u>Bear et al. 2020</u>), motion, voice and other sensors (e.g. <u>Nguyen 1997</u>; <u>Heikenfeld 2016</u>), netnography (<u>Kozinets 2010</u>), data scraping and mining (<u>Munzert et al. 2014</u>) provide novel data and data triangulation possibilities (<u>Patton 1987</u>). Hence, it is proposed that in future we embrace the plurality of research methods, be it used for mixed or single method research.

Proposition: Digital research methods with objective data are to be widely employed in understanding digital and social media marketing in the context of B2B.

3.5. Contribution 5 - future direction on developing metrics and scales for digital content marketing which aims to foster consumers' experience and customer journey - Mohammad Rahman

Recent growth in digital content marketing (DCM) due to how consumers search for information, is intensifying the competition within industries. This has led to an intensive focus on scholarships in the areas of marketing metrics, social media, email strategy, consumer experience, consumer engagement, online advertising, search engine optimization (SEO) and overall DCM. Additionally, traditional concepts of advertising, focusing campaigns on Procter & Gamble's "Moments of Truth" concept, disrupted by the search engine giants such as Google

(Moran et al., 2014). According to Google (2019), 88 % of shopper interaction occurs before they interact with a particular brand and 94 % of B2B buyers are performing online research before they engage with that particular enterprise. This scenario creates fierce competition in the DCM area where enterprises from large to small end up vying for ranking on top of Google's organic search results (Howells-Barby, 2019). Thus, we can state that DCM is a really big deal for enterprises and current industry practice, which is constantly changing to suit Google's rank brain algorithm (Moz, 2019) to increase organic traffic to the site. Hence, enhancing DCM strategies to implement increased customer knowledge by listening to the customer and gathering data rather than shouting to the customer, becomes apparent in the realm of DCM. It is also about optimizing customer experiences by reducing barriers for the customer to obtain information and interaction (engagement) with the brand. DCM is about knowing your customers' insight and thinking from the customer's journey regarding why they are on Google to search for an answer for a particular problem/question and providing those answers/solutions. This is where content, user experience and engagement design comes first.

We all know what is happening. Digital media spending is up and traditional media spending is down. Media viewership is a direct relationship with age – the younger the media the younger the audience. In the meantime, Google now processes over 40,000 search queries every second (Statista, 2019). The world's largest search engine is handling an unconceivable number of searches on an hourly basis. Rather difficult statistics to grasp, but, "If like most people, you read at a rate of about three words per second, between the time you started reading this article and finish this sentence there will have been 11.3 million Google searches worldwide" (Rooney, 2017). Although searches on desktop have been gradually falling, it is on mobile devices where Google's continued growth has come from. The search has moved from text to voice where DCM needs to design for the moments (in your car, on the go) and content must be constructed to answer questions vs simply targeting keywords. As more and more people become connected, wherever they are in the world, this figure is likely to continue to rise. Thus, DCM strategy is reaching a wide range of customers, conducting specific placement targeting and increasing engagement with customers. DCM needs to reach prospective customers searching for specific services or products and develop real-time results thus indicating its importance as a relationship marketing tool.

DCM has the ability to grab consumers' shorter attention spans in the environment of multi-screen and multitasking where consumers are exposed to a higher quantity of media in a lower quality of time. In a background of growing digital competition amongst enterprises to earn consumer engagement and trust (Hollebeek & Macky, 2019), DCM is the pathway to nurture credibility, control, and visibility in the continued divergence of media consumption. However, regardless of some scholarly research (Aswani et al., 2018; Carlson et al., 2018; Järvinen & Taiminen, 2016) in the area of DCM and social media marketing metrics providing practitioners with the tools to measures the return on investment (Kakkar, 2017), relevant research is still lacking.

To optimize digital strategy and implement DCM effectiveness, practitioners require an adaptive mindset, a willingness to engage in continuous learning, and the ability to visualize and implement unique, value-creating DCM within a broader marketing background. Thus, digital and social media marketing analytics is of growing importance, facilitated by creating brilliant,

meaningful brand owned experiences for customers to interact with and engage. The solution falls apart without compelling, relevant, content that connects to each customer's needs and preferences to develop a personalized experience. It requires an equal combination of strategy, creativity, and technology to find the quality of customer insights, thereby contributing to consumer and firm-based brand equity development.

It is important to gain control over the entire content life cycle by rank and prioritizing content, develop a content outline and begin information architecture to deliver personalized experiences to customers. Creating personalized content which matters to your customers requires content development teams of front-end developers who are able to build solutions for not only your websites, but mobile apps, social apps, marketing automation integrations, email marketing, interactive infographics, iBooks, eBooks, digital direct mail pieces, and so on. Today, marketers are facing a content crisis: they cannot produce content fast enough because of disjointed systems, inability to collaborate, duplication of work and the sheer volume of needed content.

A marketer cannot solve content crisis simply by working harder: they need a plan, a process, and the right technology. DCM is the hot new thing that is as old as marketing itself. It is about compelling, relevant and timely storytelling that resonates with your prospects. Content is not just "what" but also "how" to disperse through paid, owned and earned media.

Given DCM's relatively short history, little is known regarding its optimal design and implementation. The following sample research questions may assist scholars to develop research topics which will have some practical implication for the marketers. They are:

•

Does DCM affect e-mail open rate, generating leads and loyalty and how to measure those relationships with theoretical underpinnings?

• •

Does DCM affect online reputation, building positive search results via Expertise, Authority, and Trustworthiness?

• •

Does DCM affect the value and perception of the brand, leading to engagement and creating loyalty?

•

How does DCM that is relevant, personalized and speaking to specific goals, needs, pains and desires of customers build trust and engagement?

• •

What emotions do consumers have along the customer's journey/mapping when searching for answers to a problem/question? What are the highs? The lows?

•

How do consumers frame and evaluate their digital content experiences? What do they expect from DCM marketers?

. .

How to distribute relevant, valuable content that is personalized to specific goals, needs, pains, and desires.

.

How important is it for DCM marketers to "Think Human" and relate to three important questions: 1) Know your audience, 2) Know their journey; and 3) Know what matters in developing digital content.

. .

How does the customer's journey and the importance of the advocacy stage towards building trust for your brand in the social media marketing process lead to engagement?

•

How does paid, owned and earned digital media can gain visibility, control and credibility in this digital content marketing environment?

• •

Google has approached SEO in 2019 by focusing on three big areas, a) The shift from answers to journeys, b) The shift from queries to providing a query less way to obtain information, and c) The shift from text to voice and a more visual option of finding information. What strategies can we offer to develop metrics and scales for the DCM managers to implement?

In conclusion, digital content marketing, today, is very important for marketers, and academics alike. At the same time, digital marketing is an innovative way to reach potential customers worldwide. Hence, increasing importance in building trust and engaging customers with relevant, specific and useful content of more volume which resonates with your business and target markets is essential in digital storytelling.

3.5.1. Research propositions

In this section, two propositions are developed to encapsulate the theoretical and practical arguments outlined in the previous section. Their development draws on further elaboration of the concept of Digital Content Marketing (DCM) and how customer experience and customer journey comes into play when it comes to delivering on relevant, specific and targeted DCM from the brand.

For instance, <u>Hollebeek and Macky (2019)</u> suggest that consumer engagement in the DCM context includes elements of multi-tier interaction between the brand and its consumers. These intra-interaction consequences such as consumers' cognitive, emotional, and behavioral engagement with the brand thus trigger extra-interaction consequences of brand trust and attitude thus developing brand equity through the DCM strategy.

Lamberton and Stephen's (2016) comprehensive examination of the literature suggests that a DCM offers several benefits to customers including exploratory and positive behaviors that directly benefit the brand (cf. Appel et al. 2019; Dabbous & Barakat, 2020; Leeflang et al. 2014). Drawing upon and synthesizing the aforementioned works in marketing and information systems literature examining customers' interactions with brand-related stimuli (Digital Content in the paid, owned or earned media) on a digital platform. Customer experience with Digital Content refers to a customer's perception of their interactive and integrative participation with a brand's content in any digital media (Judy & Bather, 2019).

3.5.1.1. Customer experience states and DCM

In the emerging digital marketing literature, scholars in a variety of consumption contexts contend and empirically demonstrate that consumer experience exerts a direct influence on a customer's evaluation of a brand. For example, <u>Järvinen and Taiminen (2016)</u> find support for consumer experience with digital content from the brand has the potential to influence future digital consumption intention in multiple digital media outlets.

Because the psychological states of consumer experiences influence a variety of behaviors including those beyond purchasing, the nature of these relationships in the branded digital content context may be transferable to consumer engagement behaviors of sharing intentions (Carlson et al., 2019). Specifically, future studies can argue conceptually, as to suggest that consumptions experience states relate to the experiences and associated value judgments involving cognitive, emotional and behavioral responses evoked by brand-related stimuli (e.g., Carlson et al. 2018; Vivek et al., 2014). Customers reciprocate when they derive benefits from the experiences relating to their consumer experience states; such that they develop sharing intentions (Carlson et al. 2019; Yasin et al. 2020). Thus, our first proposition is as follows:

Proposition: Digital consumption experience related to branded content positively relate to digital content sharing intentions.

3.5.1.2. Conditional impact of DCM on the customer journey

According to the earlier argument concerning the likely impact of digital content sharing intentions of digital customers with positive consumptions experience, customers possibly demonstrate the same levels of sharing intentions (de Vries and Carlson, 2014). A customer's journey towards finding solutions to their questions by evaluating digital content consistency in terms of authority, trust and reputation (Ray, 2019), plays a critical role in our theorizing and should affect customers' participation with the brand's future digital content evaluations (i.e. digital consumption experience). Drawing from these combined insights, we argue that under conditions of branded digital contents that speak to customers with authority, trust and reputation should then be viewed as helping the consumer in their journey by enabling specific, relevant and timely access to information. This being the case, we propose:

Proposition: Positive customer journey in the digital content consumptions impact on future content consumptions with the same brand.

3.6. Contribution 6 - Electronic Word of Mouth (eWOM) - Raffaele Filieri

eWOM has received huge attention from scholars in tourism, information systems and marketing in the last decade. eWOM refers to any positive or negative statement made by potential, actual or former consumers about a product or company, which is made available to a multitude of people and institutions via the Internet (Hennig-Thurau, Gwinner, Walsh, & Gremler, 2004, p. 39). Scholars have investigated the impact of online reviews on sales (e.g. Chevalier and Mayzlin, 2006), brand awareness and attitudes (e.g. Lee et al., 2008), purchase intention (e.g. Filieri, 2015) and various other important outcomes. A specific manifestation of eWOM is online consumer reviews (OCRs). OCRs can be defined as any positive, negative or neutral feedback on a product, service, brand, or person supposedly made by someone who claim to have purchase the product or experienced the service and that is shared online to be available to read by several other potential buyers.

3.6.1. Fake reviews and trust in eWOM

Many business reports in the last years document that an increasing number of consumers rely on online reviews and ratings to make purchase decisions. Online reviews have become a primary information source in consumer information search and their extraordinary success is due to their reliability and usefulness. Initially, eWOM was perceived as a reliable form of information about a brand and its products, particularly compared to marketing information sources. However, mass media all over the world in the last number of years, has reported several scandals within the online reviews industry. This has been a factor within the tourism sector, revealing the practice of some managers posting promotional reviews about their business and offering discounts or freebies to consumers in exchange for glowing reviews (Filieri, 2016). For instance, an executive at Accor Group hotels in the Asia-Pacific region was caught posting several positive reviews for its hotels acting as a customer and Australian property developer Meriton, has been ordered to pay \$3 m for manipulating TripAdvisor reviews about its serviced apartments (The Guardian, 2018). TripAdvisor, Amazon, Yelp have often made the news for not

being able to prevent fake or promotional reviews to be posted and appear on their website. The surge of fake reviews has stressed the importance of the reliability of OCRs (Filieri, 2016).

Research on eWOM has paid huge attention to the concept of source credibility and on the influence that credible communicators have on consumer behavior such as purchase intention (e.g. Hovland et al., 1953). However, research on trust in eWOM is in its infancy. From a theoretical perspective, source credibility theory (Hovland et al., 1953) is one of the most popular theories that are used to understand what makes a communicator an influential source of communication. The source credibility model established by Hovland et al. (1953) analyze the factors that can affect the receiver's acceptance of a message and rest on two core variables: source expertise and source trustworthiness. A source is considered as expert when he/she is knowledgeable about the subject, while trustworthiness refers to the source honesty, sincerity, and believability (Hovland et al., 1953). Source credibility is important in eWOM as expert sources influence information helpfulness (Filieri, 2015), information adoption (Cheung et al., 2009), and purchase intention (Filieri et al., 2018; Ismagilova et al., 2019).

Some scholars have started to investigate the determinants of OCR trustworthiness (e.g. Qiu, Pang, and Kim, 2012; Hu et al., 2012; Filieri, 2016). Scholars have investigated when and for what type of vendor fake reviews are more likely to appear (e.g. Hu et al., 2012), the role of credible information on consumer perceptions and behavior (e.g. Cheung et al., 2009) while other studies have focused on the impact of various elements (source, message, receiver) on perceived information credibility (e.g. Filieri, 2016). eWOM message credibility is defined as the extent to which one perceives a recommendation/review as believable, true, or factual (Cheung et al., 2009). For instance - Cheung et al. (2009) investigate the determinants of e-WOM perceived credibility in China and found that source credibility, confirmation of prior belief, recommendation consistency, recommendation rating, and argument strength influence perceived e-WOM review credibility. Qiu, Pang, and Kim (2012) used experiments with students and found that a conflicting aggregated rating decreases review credibility and diagnosticity for positive reviews but not for negative reviews via the mediating effect of review attribution. Other studies take a more holistic approach and consider the various elements that can affect trust and mistrust perceptions in eWOM considering the source, the message, the receiver, the format, the pattern, and the valence, of the review (Filieri, 2016). For example, Filieri (2016) use a qualitative approach to analyze consumers' perception of trust and mistrust in online reviews and build a theoretical framework explaining trustworthiness and persuasion in e-WOM communications. They reveal that some consumers – namely the more experienced one in the use of online reviews and those with higher levels of involvement in the purchase; adopt a set of criteria to assess review trustworthiness. The study reveal that factors that affect trust and mistrust in online reviews, which refer, in order of importance, to the content and writing style of a review (degree of detail, type of information, length, writing style, and presence or not of picture), review extremity and valence, the source of communication, the pattern emerging from reading several reviews. Ketron (2017) found that reviews with higher quality of grammar and mechanics (spelling, punctuation, capitalization, and organizational elements of writing such as paragraphs) have higher perceived credibility and exert a stronger influence on consumers' purchase intentions. Drawing upon Filieri (2016)'s framework, Baker and Kim (2019) found that readers of exaggerated fake posts find the utility and trustworthiness of the reviews diminished as a result of exaggerated emotions and language present.

3.6.2. Research gaps

Although valuable studies have been conducted, more research is needed on the topic of consumers' perception of eWOM trust and mistrust. In order to provide some guidelines for future research we have to first distinguish among the three different elements that can affect the persuasion and influence of a communication: the source, the receiver, the message, the medium, and the context (Wathen and Burkell, 2002). As highlighted above, the majority of studies have focused on the textual format of eWOM, specifically focusing on reviews and ratings posted by anonymous reviewers (with no followers) in third-party retailers such as Amazon, TripAdvisor, and Yelp. Research has established that consumers pay more attention to the credibility of the message rather than to the source (Filieri, 2016), which comes into play rarely and only for high involvement decisions. Thus, scholars in the future should consider information quality as a potential mediator or moderator of the effects of source credibility dimensions in eWOM contexts and with high *versus* low involvement decisions to understand when the message and source are more important in the evaluation of review trustworthiness.

Furthermore, few studies have focused on the characteristics of the receiver of eWOM messages, the perceived credibility of the medium where reviews are hosted, and the context in which the information is processed. Accordingly, eWOM can manifest in different formats and channels. For instance, eWOM can manifest though textual, verbal, visual messages or a combination of them (e.g. consumers' photo and comment in Instagram). Moreover, eWOM can appear in different channels such as online consumer communities (i.e. TripAdvisor), social networking websites (i.e. Facebook, WeChat), instant messaging apps (i.e. WeChat, WhatsApp, Snapchat), blogging and microblogging websites (i.e. Twitter, Weibo), photo sharing social networking (i.e. Instagram), and video-sharing platforms (i.e. YouTube).

Future research could assess whether consumers trust some formats when compared to others. For instance, a picture is a thousand words and provides evidence of the purchase and actual use/consumption of products (e.g. photo of a dish in a restaurant) increasing review trustworthiness (Filieri, 2016). Scholars could analyze whether the combination of different formats (e.g. video + text, picture + text, video + picture, picture or text only) can increase review trustworthiness. Experimental methods can be employed for this purpose.

Furthermore, research for instance has not considered if the medium where the review is published affects perceived eWOM trustworthiness. Medium credibility focuses on the perceived credibility of the channel through which content is delivered rather than the sender (or senders) or the content of the message. Consumers may have different perception of credibility of the reviews and ratings published depending on the channel where they are published. For instance, consumers may trust more the reviews and ratings published in Google or Facebook rather than in Tripadvisor.com, because the reviewer can be a person in their social network, it has a public profile, and he/she generally provide more information about himself/herself. Different variables can affect perceived trust and reliability of a medium such as the reputation of the company (i.e. brand reputation) and consumers' attitude towards it, the frequency of use or habit, the quality of the information provided, the ease of accessibility of them, and usefulness of the information provided and so on.

3.7. Contribution 7 - reflections on social media marketing research: present and future perspectives - Jennifer Rowley

In recent years, the use of social media by businesses, non-profit organisations, and consumers has escalated. This growth has been fueled by the increase in the number of social media platforms, the variety of purposes for which they are used, and growing expertise in their use. This level of activity has triggered an increasing interest amongst researchers in a variety of different disciplines, each with their own ideological and theoretical perspectives. This contribution focusses on social media marketing, which is typically concerned with the use of social media by organisations to communicate with, and maybe persuade and engage in two-way dialogue with, their customers and communities. Research in this area has two main strands: the use of social media by organisations to communicate with and/or gather data about the attitudes, opinions and behavior of their customers and other stakeholders; and, customer, consumer or user behavior in organizational social media spaces or communities. Spanning these two areas and receiving increasing attention in both practice and research are social media brand communities. Given the increasing importance of social media as a communications medium, this contribution reflects on the challenges associated with developing a coherent body of theoretically grounded knowledge in social media marketing that can also inform practice and offers proposals for future research.

3.7.1. Challenges

There are four main challenges facing research in social media marketing, each of which also has consequences for practice: (1) the speed of development of both practice and research in social media marketing; (2) the interdisciplinary nature of the field; (3) the diversity of research questions; and, (4) the wide range of theoretical perspectives and research methods.

3.7.1.1. The speed of development of both practice and research

Whilst social media has been available for more than twenty years, there has been a significant escalation in its use and in research on social media in recent years. There has, for example, been growth in the number of social media platforms used by organisations and consumers, the diversity of uses, and in general, the extent to which social media has taken over and shaped the communication space. In addition, both organisations and consumers, together with social media platform providers, are still on a steep learning curve regarding the types of communication that are effective, ethical, and appropriate. Such a rapidly developing environment offers significant scope for practitioners and researchers to work together in proposing and testing theories, and developing evidence-based practice (Rowley, 2012). On the other hand, a fast rate of change is in danger of leading to 'a thousand different blooms' and a fragmented knowledge base (Denyer et al., 2008; Felix et al., 2017).

3.7.1.2 The interdisciplinary nature of the field. The fragmented nature of the social media marketing knowledge base plays a significant role in the inter-disciplinary nature of the SMM field. For example, systematic literature reviews on social media marketing, important in distilling the essence of a field and offering future research agendas, are to be found in journals in a range of disciplines including information management, marketing, industrial marketing,

data systems, psychology, and decision support. Whilst there are some commonalities between these reviews, there is also significant variation in their scope, and in their proposals for future research, although there is some consensus on the need for the inclusion of further research on both (1) social media practice and strategy, and (2) social media consumer behavior (Rowley and Keegan, 2019). This diversity of research topics is consistent with the assertion that 'extant marketing research does not analyze social media marketing from an overarching, holistic perspective (Felix et al., 2017;) in which management, employees and customers have shared notions of their respective roles. Indeed, Quinton (2013, p.913) suggests that with the advent of social media, the linear, relational exchange-based partnership model of business-customer interaction needs to be replaced with a more interactional orientation with a focus on multilayered and multi-facetted interactions that cross venues and media, and emphasizes multifaceted relationships.

3.7.1.2. The diversity of research questions

The inter-disciplinary nature of social media marketing has consequences for the diversity of research questions posed by researchers in the field. A recent systematic overview of research into social media marketing identified the following themes for a research agenda for social media marketing: social media practice and strategy; social media user behavior, social media organizational context, social media privacy and security concerns, and social media research approaches (Rowley and Keegan, 2019). Complementing these themes is Ngai et al.'s (2015) summary of attribute adoption in the body of knowledge associated with social media research. They cluster these into four main groups: antecedents (social factors, user attributes, organizational attributes); mediators (platform attributes, social factors, and user attributes), moderators (user characteristics, social factors), outcomes (personal context, organizational context). Such 'general' typologies are particularly useful in a field in which research that focusses on specific actions, processes or platforms can rapidly become irrelevant. 'General' typologies also provide a more holistic view of the field.

3.7.1.3. The wide range of theoretical perspectives and methods

The final challenge arises from the diversity of the theoretical perspectives and research methodologies that are used in social media research. Ngai, Tao & Moon (2015) review the theoretical frameworks and models adopted in social media research. They cluster these into personal behavior theories (e.g. personality traits, technology acceptance model, and the theory of reasoned action), social behavior theories (e.g. social aspects theory, social loafing theory, and social power) and mass communications theories (e.g. para-social interaction, and uses and gratifications theory). This contrasts with Leung, Sun & Bai (2017)'s assertion that in social media research (not specifically social media marketing research) the main theoretical foundation is word-of mouth. This diverse range of theoretical perspectives is, at least partially, responsible for the wide range of methodological approaches that have been employed in social media marketing research. These include a range of traditional qualitative and quantitative approaches, including questionnaires, interviews, focus groups, diaries, observation, secondary analysis and official statistics, ethnography, participant observation, and mixed methods, as well as more social media-specific approaches such as content analysis applied to social media

platforms, social media-based focus groups, social media netnography and virtual ethnography, and social media analytics.

3.7.2. Proposals and propositions for future research

In developing their proposal for future research, Lamberton and Stephen (2016) coupled social media marketing with digital, and mobile marketing. Although the focus in this short piece is on social media marketing, it is important that future research agendas in social media marketing acknowledge its contextualization relative to the wider digital marketing field, including mobile marketing, and the plethora of other marketing channels. In addition, due to the interfaces between the different marketing and social media channels and the rapid evolution of both research and practice in the field, the boundaries of any agenda for future research are likely to be blurred and dynamic. This offers unique challenges in proposing a comprehensive agenda for future research into social media marketing. Indeed, there is evidence that previous researchers have proposed that, for example, more research be conducted on a specific action on a social media platform, only for the action to be removed from the platform soon after the article was published. Hence, this article offers a selective and personal perspective on the key areas for future research. This agenda covers the following broad themes: Systematic literature reviews; Social media marketing management; Social media consumer behavior; and, Social media context. In all of these areas, there has been some previous research, but there is considerable scope for exploring these topics further.

3.7.2.1. Systematic literature reviews

All research topics benefit from regular reviews of published research, although they are rarely identified as one of the most important contributions to future research. However, in the case of SMM, such reviews are particularly important given the pervasive nature of SMM, and the rapid evolution of its practice, research and theoretical foundations. In addition, as discussed above, the interdisciplinarity of the field also means that it is important to review the extant knowledge base at regular intervals, thereby providing researchers in specific disciplines or niches with an overarching view of the wider context of their research. However, there is not much merit in conducting regular reviews, unless those reviews are conducted effectively. To be effective, it is important that authors of future reviews develop a more unified approach to the review of the subject area, adhere to good practice in the conduct of systematic literature reviews, and ensure that their reviews are timely and targeted (Rowley and Keegan, 2019).

3.7.2.2. Social media marketing management

Social media marketing management is a very broad field, and becomes even more complex when differing contexts are considered, as discussed further below. However, surprisingly, it is one of the fields that has received relatively little attention from researchers, possibly because exploring this area involves access to managers in organisations, which is often more difficult than access to consumers or social media posts and content. Despite having received some limited attention, the research questions below require further investigation:

• •

How can social media be used in such a way as to justify investment in SMM? What is the Return-on-Investment (ROI)?

•

Which <u>data analytics</u> offer the most meaningful insights to support the development of social media campaigns? What is the relationship between the different data analytics that are available from different social media platforms?

•

How do organisations articulate and realize their social media marketing objectives? What are their objectives, e.g. brand building, attracting advocates, increasing sales, enhancing visibility, cultivating community communication? Are objective short-term or long-term?

. .

What is an optimum portfolio of SM channels? How is this affected by marketing objectives, product, SM channel, or consumer demographics? Is it possible to develop a generic typology of objectives?

. .

How can client firms work effectively with their portfolio of marketing agencies to integrate SMM into the wider marketing communications? What are the characteristics of effective SM marketing agency-client relationships in an international marketing space?

• •

How are SMM campaigns planned and managed? What is the role of influencers and celebrities in promoting a campaign? How is campaign success measured?

•

How are organisations ensuring that the content posted by staff and consumers does not compromise the ethical principles of the brand? How are organisations managing their social media presence in line with data protection and privacy regulations (e.g. General Data Protection Regulations)?

3.7.2.3. Social media consumer behavior

Of the themes presented in this review, consumer behavior on social media marketing platforms has attracted the most attention. It would be reasonable to hypothesize that this is because consumers are more accessible as research subjects than managers, and, in addition, there is

much to be learnt from an analysis of the posts on a specific SM site through analysis of these posts and the links between them. The increasing use and development of netnographic approaches for investigating consumer behavior in the social media arena is contributing to more rigorous approaches in the analysis of social media data. On the other hand, there are a number of limitations to this body of research. Too many of the published studies are relatively small-scale studies with limited data sets and theoretical underpinning. In addition, there is a limited consensus regarding the key research questions, and a significant proportion of these studies focus on Twitter or Facebook, with limited attention paid to studies of other platforms. In respect of theory, a diverse range of theories have been employed, including personal behavior theories, social behavior theories, and mass communication theories (Ngai et al., 2015); this diversity has both strengths and weaknesses.

There is a useful and developing body of research on the role of celebrities and other bloggers, crowdfunding, and social media brand communities. Amongst these, the topic of social media brand communities (SMBC) is of particular interest. Increasing numbers of businesses are recognizing the potential of SMBC's in building a loyal and committed group of consumers who exchange ideas and mutually promote the brand and its products. Research on SMBC's leans heavily on the theory associated with consumer engagement (Habibi et al., 2014), but it would also benefit from developing its theoretical base to embrace theories associated with loyalty and communities of practice (Wenger et al., 2002). Alongside, and sometimes integrated with SMBC's, influencers and celebrities are also important in endorsing, and cultivating attachment and commitment to a brand. Research questions that would benefit from further attention include:

•

How does consumer behavior vary between social media channels? Which channels cultivate what responses (e.g. recommendation, purchase, loyalty).

• •

Is it possible to reach a tighter consensus on the dominant theoretical frameworks that should be used to support the development of understanding, and <u>theory building</u> in relation to consumer behavior in SMM?

•

What is the role and impact of influencers and celebrities in SMBC's and other SMM contexts? Can different styles of communication be characterized, and if so, are some more successful for marketing than others? How can celebrities contribute to the authenticity and trust that consumers place in the brand? What factors affect the success and impact of celebrity endorsement?

• •

What attracts consumers to specific SMBC's, and what is likely to sustain their commitment? Why do they switch to another community? What link is there between being a member of an SMBC and loyalty to the brand, and its products? In what sense do consumers regard an SMBC as a Community-of-Practice?

3.7.2.4. Social media context

This section complements the previous two sections by suggesting that many of the research questions listed above need to be visited in a range of contexts. So, for example, exploration of, say, social media marketing objectives, optimal SM channels, and the role of SM brand communities, need to be examined in relation to contexts, such as country, sector, and differing demographics. Such studies not only provide for a wide interpretation of how organisations and consumers are engaging with social media, but also provide an opportunity for the development of a strong theoretical platform for SMM, and a more nuanced knowledge base. This enhanced understanding of context could be achieved through comparative studies that focused on, for example, the SMMM of Twitter for a specific brand across two or more countries, or the consumer response to social media postings for the brand in those countries. Alternatively, a comparative perspective could be achieved through single country studies provided they were underpinned by a strong positioning relative to previous research conducted in other countries. In conducting and reporting on such studies, it would be important to reflect on the cultural differences that might underpin organizational approach or consumer behavior in specific countries. The following research questions capture this stance:

•

What differences exist between countries in their use of social media? In what ways are any of these differences related to culture? Which SM platforms are favored by organisations and consumers, and what consequences does this have for SM behavior?

Understanding the use of SMM in different sectors is also important. Much of the research to date has focused on the use of SMM by B2C organisations, brands and customers/consumers, such as those in the fashion and hospitality sectors. There is limited research on the use of social media in the B2B sector, the non-profit sector, the public sector and tourism. However, to take the voluntary sector as an example, most of the research in this field is restricted to the US and the UK and typically reports on the use of Twitter to: manage stakeholder relationships; strengthen the community; and change people's behavior (e.g. give up smoking). On this basis, it may be debatable whether the use of social media in the non-profit sector and the public sector is SM marketing or SM communications. The tourism sector, however, is different. Despite many destination management organisations and other agencies in this sector being public sector organisations, there is widespread use of social media to market their place, to attract visitors, and to engage other stakeholders. In addition, two other aspects of this sector that are interesting and significant: tourists are active contributors of content, and there is a growing international body of research on the use of social media in tourism. However, on account of the importance of destination marketing to the economies of towns, cities and countries, it is important that such research continues. The following research questions assert the need for more comparative research within and between sectors:

•

What differences exist between sectors in their objectives for and use of social media? In what ways are any of these differences related to the role of the sector? To what extent can the use of social media in different sectors be regarded as marketing, communication, or politics?

Finally, it is important to consider the level and nature of engagement with SMM by different consumer groups. For example, consumers may be clustered by gender, age, nationality, education level, income, occupation, interests, and leisure activities, in alignment with the typical clustering in SMM segmentation, targeting and positioning practices. Many of the existing studies relating to engagement with SMM collect data on demographics, but typically focus only on a limited subset of these demographics. In addition, a significant number of studies focus on students, because this group are often active users of social media, and it is relatively easy to gather data from this group. In general, there is a need for further research that focusses on the use of social media by different groups:

•

What impact do variables such as gender, age, nationality, and interests have on consumers' response to, and engage with, SMM? Which demographic groups are most likely to join a specific social media brand community and why? How does occupation and/or leisure interests' impact on engagement in SMBC's?

3.8. Contribution 8 - augmented reality marketing: introducing a new paradigm - Philipp A. Rauschnabel

3.8.1. Understanding the concepts: defining augmented reality

There is general agreement that Augmented Reality (AR) is a "medium in which digital information is overlaid on the physical world that is in both spatial and temporal registration with the physical world and that is interactive in time" (Craig, 2013, p.20). There is not so much agreement, however, about how it differs from related concepts such as Virtual Reality (VR), Mixed Reality (MR) or Assisted Reality. In the 1990s, Milgram et al. (1995) developed the famous "Reality-Virtuality-Continuum", which means that everything between VR (where people are completely isolated from reality) and the real world is called Mixed Reality, with the two subcategories of Augmented Reality and Augmented Virtuality. When screening academic and industry-driven publications, however, readers may soon find that the terms are not defined uniformly, and that this is a limitation. More specifically, since the announcement of the HoloLens device by Microsoft in 2016, the common understanding of MR has developed into a synonym for "very realistic AR", i.e., content that is not only superimposed, but also realistically integrated into the environment. In contrast, a device that clearly does not deliver realistic content, like Google Glass, is not typically called a Mixed Reality (although it probably would be according to the Milgram Continuum). A common term for this minimalist, typically purely functional/textual, superimposed (mostly 2D) content is "Assisted Reality". Here, users get supporting content, ideally contextual, in their field of vision.

Finally, there is a superordinate term – XR – that represents all of the above concepts. There is no agreement about whether the "X" stands for "extended", "expanded" or only serves as a variable X for "anything" about new and innovative forms of realities. Fig. 2 summarizes this alternative to the Milgram Continuum, a more industry-specific classification of new realities. Accordingly, XR serves as a generic term with two independent subcategories, AR and VR. AR is a generic term for a continuum ranging from Assisted Reality to Mixed Reality. This means that in a perfect Mixed Reality, users cannot distinguish between virtual elements and real objects.

Numerous forecasts from many institutes indicate a future in which consumers will consistently be exposed to Augmented Reality. In particular, specific glasses-like devices, so called "Augmented Reality Smart Glasses" (e.g., Google Glass, Microsoft HoloLens, or MagicLeap One), are expected to soon move from being in a proof-of-concept phase or an enterprise tool to being a mass-market technology. Almost all the companies concerned, including Apple, Samsung, Sony, and many start-ups, are announcing the arrival of such glasses. As Apple CEO Tim Cook has stated, Augmented Reality "will happen in a big way, and we will wonder when it does, how we ever lived without it. Like we wonder how we lived without our phone today" (quoted in Leswing (2016)). Forecasted numbers from BCG (2018) and other companies support this quote.

When Augmented Reality is used in marketing, it is called "Augmented Reality Marketing" (Rauschnabel et al., 2019). Although still at an early stage and potentially futuristic, this strategic concept already raises many fundamental questions to which academics are encouraged to provide answers to.

Before discussing four broad areas of research directions, I will start with a short discussion on how and where Augmented Reality can influence marketing, in particular the marketing mix (product, place, price, and promotion). Fig. 3 shows a very simple representation of a supply chain from suppliers to consumers. Traditional e-commerce (e.g., online shops, branded shopping apps, etc.) have established direct links between many brands and consumers, disrupting established supply chains over the last two decades. Augmented Reality functions can further improve and expand these channels. In B2B marketing, Augmented Reality can be an effective tool for marketing products or services to other companies, usually as an advertising or sales tool (e.g., a tool that visualizes a new robot in a customer's factory). In B2C marketing, Augmented Reality can create direct interactions between manufacturers and consumers and thus offer new opportunities for communication ("promotion") and sales ("place"). Furthermore, Augmented Reality can be used to expand core products and services ("product"). For instance, companies can use it to extend their range of services or physical product with AR components (e.g., manuals in AR or additional features). Brands can expand their product portfolio with virtual holographic products (e.g., a home decor brand could offer additional holographic decoration items that the user can only experience in AR). Third party vendors can also use Augmented Reality to enable their customers to virtually try out the products they offer from multiple vendors (e.g., Amazon's Try at Home feature for selected products), suggesting that these vendors may need new forms of data (e.g., 3D models) from manufacturers. Finally, as indicated by the gray arrow at the bottom of the figure, companies can also obtain information from users – through interaction as well as through context data, as will be explained late

3.8.2. Research direction 1: strategic augmented reality marketing

Augmented Reality Marketing is a strategic concept that requires adequate resources and competencies, including (but not limited to) budget, knowledge of 3D visualization, technologies, or user behavior. This also means that Augmented Reality Marketing is interdisciplinary. For example, marketers must consider collaboration with PR, sales, <u>innovation management</u>, IT, law, etc., to increase the chances of success.

Strategic scholarly projects could build on prior research on strategic marketing, organizational behavior, dynamic capabilities and related theories. Potentially relevant questions include:

•

Which dynamic capabilities drive the success of Augmented Reality Marketing? Which competencies do Augmented Reality marketers need? How should these requirements be integrated into digital marketing curricula?

•

How should Augmented Reality Marketing be organized and implemented? Which departments and functions should be involved?

• •

How can the success of Augmented Reality Marketing be measured? What are relevant KPIs?

3.8.3. Research direction 2: the role of augmented reality in marketing

When people think of Augmented Reality Marketing, many probably immediately associate it with the promotion mix. Certainly, many companies have shown good examples of how AR communications/applications can attract attention (e.g., Burger King's app, which allows users to virtually "burn" competitors' ads to get a free Whopper, or Pepsi, who harassed people in a bus shelter by adding monsters, animals and meteors on a screen that looked like a window). A recent BCG study (2018) reflects this view and shows that most marketers see Augmented Reality in the early stages of the customer journey (e.g., building brand awareness), but expect this to change (e.g., generating revenue).

Augmented Reality can also be used outside the promotion mix, as shown by Lego, for example. The toy brand offers Augmented Reality functions for many of its products. In Lego's case, customers can add virtual fires to castles or play with virtual Lego figures. In the future, companies might also use Augmented Reality to improve the perceived value of their products (e.g., remote maintenance services or additional functions, as Lego is already doing; Hinsch, Felix & Rauschnabel (2020)). In addition to adding Augmented Reality to the product value, it is also imaginable that Augmented Reality can even replace physical products. Only recently, Microsoft has been offering MSOffice applications for its HoloLens device and showing what

future offices can look like without screens and hardware. This could also point to new virtual competitors. With a few exceptions (e.g., Carrozzi et al., 2019), the idea of treating Augmented Reality content as a new product category is new. An industry study by Ericsson (2017) concluded that even Augmented Reality ads could be a threat to products, since these ads "could in essence turn into free versions of the products or services themselves". The impact on marketing, such as 3D-scanned holographic counterfeits of branded products, can be enormous, but these possibilities have been largely overlooked in the literature. Virtual products can also have an impact on pricing decisions (e.g., questions can arise about the willingness to pay for virtual products). Finally, AR apps can serve as a further direct-to-consumer channel.

Some unanswered questions that are both theoretically and managerially relevant are:

•

Product: How do consumers interact with virtual products in their perceived real world, compared to real products? Consumers can become attached to real products, but can they also do so with virtual ones? What advantages and disadvantages do consumers see in virtual versus real products?

•

Price: Are consumers willing to pay for virtual products? Do added services (e.g., specific functions added via Augmented Reality) increase the willingness to pay? Are consumers willing to pay higher prices for products if they can experience them through Augmented Reality before making a purchase decision?

. .

Place: In which situations do which consumers prefer Augmented Reality channels to browse or purchase products? What are the advantages and disadvantages?

. .

Promotion: What drives the effectiveness of promotional messages in Augmented Reality? How does good content marketing or good storytelling in Augmented Reality look like? Does the ability to convince consumers to buy a product after trying it out in real life lead to better decisions and lower return rates?

3.8.4. Research direction 3: understanding the users

To increase the chances of success in Augmented Reality Marketing, managers need to understand how users interact in AR (<u>Han et al., 2018</u>). Research in <u>MIS</u>, marketing, psychology, communication sciences and other disciplines has significantly improved consumer interaction in reality (e.g., supermarkets) and in virtual environments (e.g., social media). Augmented Reality, on the other hand, is different. For instance, <u>Rauschnabel et al. (2019</u>) argue that Augmented Reality content must be integrated into the real world well in order to generate inspirational user

experiences. In another study, I showed that people expect Augmented Reality to be used to change and improve the real world, as it would be with decorative objects, but also with things that people do not own or cannot afford or that just do not exist (e.g., fairies). This construct - Desired Enhancement of Reality - is specific to the Augmented Reality context and does not apply at all to any other technology (Rauschnabel, 2018). Finally, Rauschnabel et al. (2018) discuss that data protection research has typically focused on the protection of a user's privacy. Since AR must by definition track and understand the real world, this also affects the *privacy of other people*.

Fruitful avenues for future research in Augmented Reality lead beyond testing established models such as the Technology Acceptance Model. In contrast, future research should pay particular attention to the unique characteristics of Augmented Reality. That is to say, it should either deepen our understanding of the recently identified AR specific constructs or even identify and study other distinctive characteristics.

There are many theories on media and technology acceptance that scientists can apply to the context of Augmented Reality Marketing. However, I encourage academics to begin with a broader, perhaps even explorative or theory-building approach that always aims to identify and understand more conceptual differences between Augmented Reality and other media formats. This is relevant both at the construct level (i.e., the identification of specific Augmented Reality constructs) and at the process level (i.e., which psychological processes affect users in Augmented Reality compared to other media?). Methodically, qualitative research is an effective way to identify these differences, and experimental designs can compare Augmented Reality with other media formats. Longitudinal studies as well as field-experiments can further deepen and validate these findings.

Some relevant questions include:

•

What drives the adoption of Augmented Reality? Who are the early adopters of Augmented Reality? What are potential moderators or segmentation variables for detecting and understanding consumer heterogeneity in the answers to these questions?

. .

What exactly are the dimensions of consumer experience in Augmented Reality?

• •

What risks and fears do people perceive when interacting with Augmented Reality? How do these factors change over time?

• •

Are people willing to integrate the brands they like or love into their homes, as they would with merchandising? If so, what are the conceptual differences?

•

How can virtual products – including virtual counterfeits – impact marketing? How does it impact consumer-brand relationships, for instance, if consumers 3D-scan branded products and replicate them as <u>holograms</u>?

3.8.5. Research direction 4: the role of data in Augmented Reality Marketing

Many companies today can use a variety of data to automate or at least support marketing decisions. However, this data is typically generated from behavioral data by tracking consumer behavior in digital environments. However, many behaviors happen "offline" and are thus invisible to marketers. For instance, marketers do not typically know too much about a person's lifestyle or products that are bought offline or received as gifts (unless they can make some good predictions based on data).

Augmented Reality must by definition "understand" not only users, but also their environments. Cameras, microphones, depth sensors and other instruments therefore continuously track, map and interpret a user's environment. Augmented Reality technology could, for example, recognize a small 10-year-old television in a user's large living room. It could then recommend a new TV by overlaying the old screen with a new and bigger one. The user could then immediately see how much better a larger screen would be. It is maybe not surprising that threats to both users' and other people's privacy (Rauschnabel et al., 2018) might play a dominant role in these discussions.

Future research will probably overcome the technological hurdles (e.g., the analysis of streaming data, including object recognition) to make use of this new form of data, but many new questions will remain and require interdisciplinary research:

•

What is legally possible?

• •

What are potential ethical concerns?

•

What reaction do consumers show when their environments are continuously streamed, analyzed and complemented by marketing messages?

3.8.6. Research propositions

As discussed, forecasts predict consistently growing markets for Augmented Reality and indicate that it will become a mass medium in a few years. Recent research and case studies show the enormous potential of Augmented Reality Marketing. The possibilities range from communicative gimmicks to strategically developed investments, in almost all industries, including consumer goods, B2B, tourism, services and so on. Today it is almost impossible to market products or services purely offline. In the future we can expect a similar role for Augmented Reality. Consumers will live in a world that is consistently enriched with virtual content by marketers and other players. Companies must adapt to these developments, and Augmented Reality will probably play a similar role in almost all industries as online channels do today.

Proposition: Augmented Reality will be as prevalent in the marketing of the future as the Internet is today.

Since the role of Augmented Reality goes far beyond communicative aspects, dealing with it is very complex. Managers need to better understand the unique aspects of consumer behavior, specific goals, KPIs, technological challenges and so on. Building on this, they need supporting tools to develop Augmented Reality strategies. As scientists and educators it is our duty to support managers with insights and to include relevant topics in our curricula. This includes relevant concepts (e.g. theories and strategies), tools (e.g. 3D modelling), boundary conditions (e.g. legal and ethical aspects) and technological fundamentals (e.g. tracking or mapping).

Proposition: The management of Augmented Reality is highly complex. Therefore, companies must develop specific skills and scholars should support this.

3.8.7. Conclusion

Augmented Reality is still in its infancy, but most probably about to experience a breakthrough. As discussed in this section, Augmented Reality Marketing is much more than just a communicative gimmick, it might become a new paradigm in management research and practice. However, surprisingly little research has been conducted in this field. I hope that this section inspires scholars from a range of disciplines to research Augmented Reality and how it can positively impact marketing, businesses, consumers, and societies as a whole.

3.9. Contribution 9 - responsible artificial intelligence (AI) perspective on social media marketing - Yichuan Wang

Social media marketing is in transition as AI and analytics have the potential to liberate the power of social media data and optimize the customer experience and journey. Widespread access to consumer-generated information on social media, along with appropriate use of AI, have brought positive impacts to individuals, organisations, industries and society (Cohen, 2018). However, the use of AI in social media environments raises ethical concerns and carries the risk of attracting consumers' distrust. A recent finding reported by Luo et al. (2019) indicates that AI chatbot identity disclosed before conversations with consumers significantly reduces the

likelihood of purchase. Therefore, if the ethical dilemmas are not addressed when implementing AI for marketing purposes, the result may be a loss of credibility for products, while the company's reputation in the marketplace may suffer. In the following sections I introduce some responsible AI initiatives for social media marketing, and then suggest future directions by proposing possible research questions.

3.9.1. Responsible AI-driven social media marketing

Responsible AI is defined as the integration of ethical and responsible use of AI into the strategic implementation and business planning process (Wang et al., 2020). It can be viewed as a guardian framework that is used to design ethical, transparent and accountable AI solutions that create better service provision. Such solutions harness, deploy, evaluate and monitor AI machines, thus helping to maintain individual trust and minimize privacy invasion. Responsible AI places humans at the centre and meets stakeholder expectations and applicable regulations and laws. The ultimate goal of responsible AI is to strike a balance between satisfying customer needs with the responsible use of AI and attaining firms' long-term profitability.

Responsible AI can be conceptualized from the perspectives of economic and social sustainability, in which the role of AI is highlighted as an enabler of social responsibility and business long-term success. From the economic sustainability perspective, AI tends to be viewed as a powerful tool not only for maximizing economic value but also for satisfying customer needs with fewer ethical concerns and dilemmas. In the social media context, firms should place AI ethics and standards at the core of their social media marketing strategy by formulating ethics policies on harnessing social media data and by considering socially favorable AI approaches and algorithms to create effective marketing communications for consumers. From the social sustainability perspective, the societal impact of AI on the well-being of humans and environments requires considerable attention. Developing AI solutions by considering human rights, fairness, inclusion, employment and equality can lead to potential gains in credibility for products and brands.

From these two perspectives, three responsible AI initiatives for social media marketing are identified, namely: (1) Ethical AI design and governance; (2) Risk control by human and AI coordination; and (3) Ethical AI mindset and culture.

3.9.1.1. Ethical AI design and governance

Harnessing AI in social media marketing focuses primarily on building data transparency and consumer trust. The use of AI and analytics needs to be transparent to customers and other external constituencies and communities. For example, Capital One has created QuickCheck, a criteria system for credit card applications. This system provides an initial decision with transparent and comprehensive explanation before customers make a formal application for a credit card online. This responsible initiative is featured in their "Check it, don't chance it" social media marketing campaign. More generally, under recently introduced data protection regulations such as the General Data Protection Regulation (GDPR), firms are required to institutionalize the practice of obtaining consent statements or permissions from consumers, and

must ensure that they provide full and comprehensible information that allows customers to fully understand how and when data is processed by analytical applications.

Consumer trust towards AI is influenced by explainability of AI. This is an important component of AI application, intended to provide users with accurate prediction, understandable decisions and traceability of actions. Explainable AI (XAI) is an emerging AI approach that should be integrated into social media marketing to help firms generate accurate and effective marketing appeals (e.g., automatized recommendations and personalized offers) for their target consumers and reach them at the right time and right place. For instance, in order to reduce high online purchase return rates, H&M utilises AI to ensure customer centricity (approaches such as tailoring consumers' physical dimensions with their preferred styles and incorporating multiple data sources for dynamic analysis). As another example, Quantcast, a leading AI company that specializes in AI-driven marketing, optimizes customers' advertising campaigns through using AI-driven real-time insights. They rely on real-time data and machine learning capability to help their customers ensure brand safety and protect consumers from fraud and the dissemination of fake information, thus increasing customer trust towards brands.

3.9.1.2. Risk control by human and AI coordination

AI-driven social media marketing may raise some potential risks for focal companies and consumers. Risks related to security (cyber intrusion and privacy), economic aspects (e.g., job displacement) and performance (e.g., errors and bias, black box and explainability issues) can be minimized by valuing human.intelligence and skills (Yayena et al., 2018). For example, AI solution designers can formulate rules of risk controls and data protocols, with clearly focused goals, execution procedures, metrics and performance measures to harness data effectively from the time it is acquired, through storage, analysis and final use. Organisations should also regularly review the social media data they gather externally and realize their potential risks. AI comes from self-learning through human designed algorithms. It is imperative to ensure the credibility of social media data so that AI can learn from the right patterns and act according to their input.

3.9.1.3. Ethical AI mindset and culture

According to research carried out by PwC, only 25 % of around 250 surveyed companies had considered the ethical implications of AI before investing in it. Consequently, the collection and utilization of consumer data by AI and analytical algorithms via social media give rise to serious issues regarding invasion of consumers' privacy, fraud, offensive or harmful marketing appeals, lack of transparency, information leakage and identity theft (Martin & Murphy, 2017). Developing an ethical organizational mindset and culture is viewed as a prerequisite of successful social media marketing. H&M Group, for instance, has developed a checklist of 30 questions to ensure that the use of AI applications is fair, transparent, reliable, focused and secure, has beneficial results, is subject to proper governance and collaboration, and respects privacy. This code of practice helps H&M to ensure that every AI solution they develop is subject to a comprehensive assessment of the risks involved in its use.

3.9.2. Research questions

The initiatives mentioned above offer substantial potential to extend our understanding of responsible use of AI in social media marketing. They also provide new avenues for research in areas that demand attention from scholars; more specifically, they suggest the need for in-depth studies in the context of social media marketing. Below, I suggest relevant research questions with regard to ethical AI design and governance, risk control by human and AI coordination, and ethical AI mindset and culture.

3.9.2.1. Ethical AI design and governance

•

How can we understand consumers' cognitive appraisal of, and emotional and behavioral response towards, responsible (or irresponsible) use of AI in social media marketing?

•

How can we design AI-generated social media marketing communications through advanced AI algorithms that optimize customer purchasing experience?

•

How can AI tools and applications improve social and economic impacts by reinforcing the regulations designed to tackle irresponsible social media marketing practices?

. .

How can we ensure the quality, reliability and transparency of social media data to support marketing decision-making?

• •

How does AI governance enable firms to recover from privacy failures on social media?

3.9.2.2. Risk control by human and AI coordination

•

How can we fully recognize the potential risks of AI use relevant to social media marketing?

• •

How can human skills and intelligence be integrated with AI to mitigate consumers' risks in the digital world?

•

Under what circumstances and to what extent does AI require human input to tackle ethical and legal challenges in the digital world?

3.9.2.3. Ethical AI mindset and culture

•

What practices, and mechanisms can enable firms to cultivate an ethical culture of AI use?

•

How can digital marketing professionals ensure that they utilize AI to deliver value to the target customers with an ethical mindset?

How can ethical culture be embedded into the fabric of AI in order to facilitate fairness and inclusion in consumption in the digital era?

3.9.3. Research propositions

In order to implement responsible AI it is necessary to develop ethical AI design and governance and to minimize potential risks and biases. First, an ethical AI design should take into account data transparency and privacy protection in order to retain consumer trust. For example, Capital One has created QuickCheck, a criteria system that provides an initial decision with transparent and comprehensive explanation before customers make a formal application for a credit card online. This responsible AI initiative is featured in their "Check it, don't chance it" social media marketing campaign aimed at creating customer awareness.

Second, it is essential to minimize potential biases (e.g., algorithmic, racial, ideological and gender biases) during the ethical AI solution development stage. By doing so, it will be possible to improve the accuracy of product recommendations and targeted promotions and advertisements (Rai, 2020). For instance, to prevent racial and gender biases, L'Oréal uses an AI-powered spot diagnosis algorithm developed by modelling more than 6000 patient photos with consideration of different ethnicities, age, gender, and skin conditions. Another example is Oral B's smart toothbrush, which tracks thousands of brushing styles and behaviors from a range of users so as to provide personalized feedback and advice to its customers.

When AI-enabled products are designed ethically and responsibly, taking into account customer needs and values, consumers will perceive the product as highly trustworthy, and this will increase their engagement levels with marketing campaigns. Meanwhile, AI tools developed by diverse and bias-free data sets can provide a deeper understanding of customers and thus drive

more effective social media marketing spend. In view of this, we suggest the following proposition:

Proposition: The implementation of responsible AI will drive social media marketing performance.

By adopting an effective marketing communication approach, firms should be able to gain high market share and brand reputation with less investment in advertising and promotion (Luo & Donthu, 2006). Particularly in social media environments, where consumers receive large numbers of AI-generated marketing messages from various platforms on a daily basis, effective marketing communication driven by AI can lead to positive word-of-mouth and brand image and the formation of purchase intention. Research by the Direct Marketing Association (2018) found that 57 % of surveyed consumers are comfortable with receiving personalized marketing messages generated by marketing automation tools that may surprise them and help them make purchasing decisions. However, in some cases, the collection and utilization of social media data by AI algorithms can lead to consumers receiving irrelevant or redundant marketing appeals, delivered indiscriminately via social media platforms. In order to avoid this issue, which can cause frustration for customers and the loss of credibility for products and brands, it is essential that firms devise appropriate AI methods (Wang et al., 2020).

Explainable AI has the potential to address this challenge, as it can achieve targeted marketing. Explainable AI provides a precise rationale of the marketing decision-making process and provides marketing managers with a human-understandable explanation (Overgoor et al., 2019; Rai, 2020). For instance, explainable AI could be used to inform marketing managers why a specific discount voucher is sent to a consumer and though which social media channel a specific product is targeted to a prospective consumer. This would increase the accuracy of marketing efforts and reduce the likelihood of relatively undifferentiated advertising executions.

The above discussion suggests that social media marketing communication can be optimized to achieve better market returns for firms that strive to implement explainable AI in their marketing practices. Therefore, we suggest the following proposition:

Proposition: Social media marketing communication has a stronger influence on firm's market returns in firms that highly engage in explainable AI development.

3.10. Contribution 10 - How AI would affect digital marketing? A practitioner view - Vikram Kumar and Ramakrishnan Raman

In recent times the world has progressed significantly as far as technological advancements are concerned and AI now impacts numerous aspects of everyday life. AI is being adopted within many industries, from banking to finance, manufacturing to operations, retail to supply chain, AI is changing the way industries operate. For digital marketers, AI has evolved as a new way to connect and engage with the target audience.

AI powered tools intend to enhance the customer experience and have been trending for some time. In the past few years, AI has attracted marketers to an area once perceived for benefiting

bigger organizations only. However, today considerably smaller organizations can apply openly accessible algorithms and off the shelf machine learning (ML) algorithms to generate insights for data analysis and forecasting.

As digital marketing is advancing with each year, digital marketers, will need to begin thinking beyond traditional strategies. AI is not limited to just gathering and analyzing data but has the potential to disrupt digital marketing practices. One in every five searches undertaken on Google is actioned through voice. This statistic is significant and digital marketers are advised to comprehend its necessity. This raises a question relevant to all digital marketing practitioners - how can AI be leveraged for efficient and effective marketing strategies?

AI has the ability to transform each and every aspect of digital marketing; generating repurposed content, media buying, sentiment analysis, predictive analysis, lead scoring, ad targeting, web and app optimization, chatbots, personalized retargeting, personalized dynamic emails. AI helps in foreseeing customer's behavior in their buying journey and can help digital marketers in predicting the buying pattern of customers. Brands can upsell and strategically pitch the required products to customers based on the extracted data. With the help of AI, marketing automations can be done which can allow marketers to give their audience a personalized experience and develop happy and satisfied customers.

AI can compose articles using <u>natural language generation</u> and through AI powered automated influencer marketing platforms, the repurposed content can reach customers on each point of their buying journey. The advancement of AI will not replace marketers however, it will have a direct impact on customer experience. A high proportion of digital consumption is transacted through mobiles and tablets, more so within developing countries Customers exhibit different behaviors while browsing. AI can empower a marketer to be able to differentiate the consumption patterns of users and serve the customers as they would like to be served. Accelerated mobile pages will help the marketers in earning more traffic for their websites and keeping their customers satisfied. Here are a few ways in which AI is empowering digital marketers.

3.10.1. Innovative advertising

For a digital marketing campaign to be successful, the essential and most important aspect is to connect with the right audience. With AI powered advertising, it can be simple and straight forward for marketers to target the right audience. AI tools can gather information, analyze the data and predict future behaviors. With this data, marketers can target advertisements as per the interest and predicted consumption patterns of the audience. Moreover, advertisements can be enhanced with Augmented Reality (AR) and Virtual Reality (VR) thus collecting more information from the customers and AI can eventually utilize the data for a more engaging and personalized advertisement experience.

3.10.2. AI powered websites

AI powered website builders can now build websites based on user data, thus, reducing the cost and time of creating an interactive website from scratch. Currently, the majority of these AI-

powered builders are still in the early stages of development. However, these AI driven processes are likely to transform digital marketing in the future.

3.10.3. Enhanced shopping experience

AI powered marketing is going to change the traditional way of shopping by improving the online shopping experience. A number of brands are trying different possibilities with various formats of AI to upgrade the shopping experience for customers, allowing them to interact with products via the use of AR before purchase.

3.10.4. Genuine product recommendations

The granularity of the data analysis via AI algorithms are far beyond human imagination. AI based digital marketing strategies are now being used to assist marketers in ascertaining the behavior, interests, needs, habits of customers at every stage of the sales cycle providing product purchase suggestions to customers in real time.

3.10.5. Chatbots

Chatbots are widely being integrated on initial touchpoints with customers and are programmed in such a way so as to answer customer's questions in real time. Chatbots are likely to perform a greater number of marketing related tasks and develop increasing levels of sophistication as well as data analysis capability.

3.10.6. Here are a number of ways in which AI is changing the face of digital world

The ability of AI to analyze, monitor and utilize data, removes the need for humans to be involved in many of the mundane roles within data analysis. Brands and marketers are leveraging AI digital marketing for detailed and improved customer's experiences. AI based digital marketing is helping marketers gain a competitive edge in numerous ways.

3.10.6.1. Improved productivity

AI is empowering marketers to automate advertising, thus saving time and increasing productivity.

3.10.6.2. Increased ROI

The way AI analyzes and utilises data is beyond human capacity in terms of processing speed. This empowers data-based decision making and the targeting of customers can be achieved more accurately thereby, increasing ROI.

Though Artificial Intelligence has been in trend from recent time, AI and digital marketing have been in sync for quite some time now. The advanced algorithms used by Facebook and Google advertisements are all AI powered and advanced versions of AI are now available for the digital marketers. Adnext; an AI powered advanced digital marketing algorithm allows digital platforms

to monitor the campaigns and optimize them in real time based on the behavior of the audience and the performance of the platforms. This was earlier done manually after analyzing all the campaigns separately for each of the platforms. Adnext automatically adjust the budget and allocate the best suited budget for the best performing platforms and campaigns.

The increased use of AI will yield numerous benefits for digital campaigns. AI implementation within digital marketing will benefit customers as well as marketers, helping marketers in unleashing more innovative and efficient strategies.

3.11. Contribution 11 - Dyad mobile advertising framework for the Future Research Agenda: marketers' and consumers' Perspectives - Varsha Jain

According to the Mobile Marketing Association, Mobile advertising is the "form of advertising that transmits advertisement messages to users via mobile phones" (Chen & Hsieh, 2012). Today as mobile phones have become the first screen for the consumers, mobile advertising can play a significant role in influencing consumers' mindset (Kim & Han, 2014). As, mobile phones are sophisticated ubiquitous devices, the strategies of traditional advertising may not be successful with these devices. However, academic research is scarce in this area (Bues et al., 2017). Thus, this section provides a dyad mobile advertising framework with five propositions (see Fig. 4), to explore this important area of marketing, while understanding the various dimensions related to marketers as well as consumers.

Our Dyad mobile advertising model based on the SOR (Stimuli, Organism and Response) framework has four components: types of advertising, content of advertising, processing dimensions, and consumers' response. The type of advertising and content of advertising acts as the marketer driven stimuli for the consumers. Next, we mention the processing dimensions which acts like organism for the consumers. Here we also consider social influences that moderates the relationship of processing dimensions as the consumers are always online. Finally, we cover the consumer responses, which are vital results mobile advertisements.

3.11.1. Type of mobile advertising

We explain the types of mobile advertising through location based, informative, credible, entertaining, incentive based and irritating formats. First, location-based advertising (LBA) helps the consumers to receive the information on the go. LBA facilitates comparison among stores, location, entertainment or shopping and helps the marketers as well as consumers by connecting the "when" and "where" elements. Further, the weather associated with a location also have significant role in determining effectiveness of mobile advertising on consumers (Lin et al., 2016). Second, informative nature of advertising, which conveys the messages about the products and services helps in increasing the effectiveness (Smith, 2019). Third important dimension is credibility, which refers to the truthfulness and believability of the ads. Both advertising credibility and advertiser credibility determines consumer confidence and consumer expectation. (Lin and Bautista, 2018) Credibility influences the advertising value (Ducoffe, 1995) along with consumers' attitude and behavior. Fourth is entertainment, which is the ability of the ad to provide enjoyment and satisfy consumers' diversion and aesthetic needs. These help to develop positive moods, attitudes and attention (Elliott and Speck, 1998). Entertainment leads

to increase in advertising effectiveness and perceived value. Fifth, incentives provided to the consumer via advertising have positive affect on the consumers. Incentives relates to the advertising value, perceived value and perceived usefulness. This is because shoppers always yearn for "a good deal" and "being a smart shopper" (Park et al., 2018). Sixth, irritation, which is that type of advertising where the marketers annoy, insult or offend the consumers leading to negative, impatient and displeasure towards the ads (Smith, 2019). This intrusion interrupts the activities of the consumers, leading to negative associations, which significantly affects the advertising value (Ketelaar et al., 2018).

Proposition: types of advertising primarily, location based, informative, credible, entertaining, incentive based and irritating influences the effectiveness of mobile advertisements.

3.11.2. Content of mobile advertising

The key content related elements of mobile ads include style & personalization, user control, functional, relevance &contextual, short and emotive. First, the content preferred by the consumer especially needs to be stylish and personalized for positive consumer responses. Positive responses lead to perceived value and perceived usefulness (Shareef et al., 2017). Second, consumers also want the content to be functional (Smith, 2019). They avoid useless and intrusive content using "swipe" or "ask me later" options. Further, content has to depict "real life". Third, users should have control over the content and it should be rigorous enough to deliver the message in five seconds (Smith, 2019). Fourth, content of the mobile advertising has to be contextual and relevant as they positively influence the perceived value (Lin et al., 2016). Contextual content is premised on the interests, preferences, and consumption patterns of the consumers, which increases the willingness of the individuals to engage with the ads (Lin et al., 2016). Fifth is relevance, which refers to ad content's congruency (Shareef et al., 2017) with the lifestyle and interest of the consumers, resulting in positive attitude towards ads. Sixth, content of the advertising has to be emotive. Emotional content would generate positive feelings, enhancing the advertising value and perceived value.

Proposition: content of mobile advertising specially style, personalization, user control, functional, relevance, contextual, short and emotive dimensions significantly influence the effectiveness of mobile advertising.

3.11.3. Organism: processing of mobile advertising

Consumers process mobile advertising as the part of internal evaluation represented by Organism in the SOR model. This process focusses on three elements; advertising value and structure, user interface, and perceived value. According to the elaboration likelihood model (ELM), mobile advertising affects the peripheral processing as the emphasis is on the existing needs and creation of new needs for the products and the services (Shankar and Balasubramanian, 2009). The customer interactions in terms of the overall structure and user interface is imperative for processing mobile advertising. ELM also works with hedonic or utilitarian elements of products and emotional involvement of products and services. Thus, cognitive and affective drivers act while consumers process mobile advertising. This leads to interactivity, involvement and repurchase of products and services (Lu et al., 2018). Second, user interface, which primarily

includes visual design where the size, color, music and animations play an important role in affecting consumers' responses. Third, perceived value is the overall benefit that the products and services offer through mobile advertising, when compared to competitors. Simply put, it is the "subjective evaluation of the advertising" (<u>Ducoffe, 1995</u>). This associates with the perception about the company's competitive advantage that forecast purchase intention (<u>Grewal et al., 2016</u>). Thus, perceived value affects consumers' purchase intentions, attitudes (<u>Lin et al., 2016</u>) and behavior.

Proposition: Type of advertising and content of advertising significantly influences the processing of mobile advertisements in terms of advertising value and structure, user interface and perceived value.

3.11.4. Moderator: social influence

Consumers' responses are moderated by social influences (Shareef et al., 2017) as they process mobile advertising. Social impact theory also states that numbers of peers and their proximity increases the social impact on the individuals and thus, the subsequent responses for mobile advertisements are influenced. Social influences also affect the trustworthiness and motivation of consumer responses. Thus, social influences affect consumers' attitudes and responses towards mobile advertisements. Social influences are related to the subjective norms based on the theory of planned behavior, aspirational and associative reference groups that enhance the trust of the consumers and eventually leads to the positive consumer responses.

Proposition: consumers' processing of the mobile advertisements especially with respect to advertising value and structure, user interface and perceived value is moderated by social influences primarily for the consumer response.

3.11.5. Consumer response

Consumer responses to mobile ads are in the form of interactivity, involvement, attitude towards ads and brands, and purchase intention. Interactivity relates to the online navigational mechanism, which provides immediate feedback to consumers, providing better communication. Interactivity has multiple dimensions, as it is two-way communication with advertising context and user control. Interactivity is a favorable consumer behavior in the context of mobile advertising (<u>Lu et al. 2019</u>). Interaction leads to involvement, which is the subjective experience of the consumers, related to <u>affective state</u>. Mobile advertising can extensively involve consumers with contextual messages that can engage and stimulate. The personal involvement, physical involvement and situational involvement, which reflects relevance for the consumers leads to advertising value (<u>Lu et al., 2019</u>). Thus, mobile advertising can involve consumers, develop interactions, provide seamless and pleasing experience, which eventually develops positive attitude towards the ad, brand and develop purchase decisions.

Proposition: Processing dimensions such as advertising value, structure, user interface and perceived value with moderation of social influences significantly include the consumer responses in terms of interactivity, involvement, attitude towards advertisement, attitude towards brand and purchase intention.

LBA is an emerging area of research, which has an attractive marketing platform. This form of advertisements is diverse and ubiquitous as the features of mobile phones, smart phones, tablets and computers are divergent. LBA uses location-tracking technologies, which includes Global Positioning System and Global Navigation Satellite System to understand the real time locations of individuals so that ads can be delivered based on the geographical place or site of mobile phones. Thus, the ads become individualized with the instant, personalized and location specific features that can cater to the specific needs of the ad recipients (Bruner & Kumar, 2007; Dhar & Varshney, 2011). The individualized and personalized advertisements are likely to attract high 'click through' rates. Hence, LBA becomes more appealing and persuasive which can lead to success.

LBA facilitates the delivery of the messages to the specific users where the effects would be high and positive. This from of advertising started for static media platforms such as billboards and websites but has eventually moved to mobile phones. Mobile advertisements provide value for different companies by providing their users with individual, location based, dynamic real time content. To optimize this content, location based technology is used to individualize marketing communication for users. Thus, LBA is an effective channel that helps marketers to reach out to users and engage them through innovative approaches which persuade increased purchase of products and services. The clicks by the users indicate that location based advertising has the potential to illustrate the user interest and can encourage them to consider offers related to the advertised products and services. However, these clicks do not ensure they are interested in the products and services, Thus, future studies have to investigate the decision making process with respect to location based advertising.

Proposition: Location based advertising would significantly affect the buying decisions.

Further, contextual factors (Zhang and Katona 2012) would increase the complexity of optimal advertising behavior, which would elevate issues for the marketers. For instance, Google maps offers location sensitive version of the sponsored search advertising. This helps in ensuring that the relevant ads appear on the headlines in the displayed map. Interestingly, users' willingness to pay reduces with the increase in the distance to the stores. This provokes marketers to develop refined mechanisms, which are related to contextual factors that could help users as well as marketers. Therefore, future studies can investigate moderating effects of contextual factors, which could positively affect the outcomes of mobile advertising with optimum amount and placement of mobile spending within the overall marketing budget.

Proposition: Contextual factors such as location, weather and social interact can affect the intention to buy the products among the users and budget allocation by the marketers for advertising.

3.11.5.1. Attitude towards mobile advertising

Mobile phones are personalized communication tools (<u>Bacile et al., 2014</u>) as the users keep this device within the arm's reach throughout the day and night. Users can access the information anytime and anywhere which facilitates marketers to reach out to these individuals easily via mobile phones. Additionally, as the users do a multitude of activities on their phone besides

talking and texting, marketers have numerous opportunities for the communication. Users also interact with the mobile apps, which also enable the marketers to provide advertising content.

Advertising has to influence the exposure, attention and reaction of the users towards the advertisements. Mobile phones track the users' environment, which affect their attitude and behavior. Hence, the effectiveness is depended on the users' positive attitude towards the advertisements and mobile phones and help in changing the mindset of these individuals. For instance, mobile apps have grown exponentially and in-app advertising have resulted in positive attitude of the users. The success of mobile advertising is driven by context, which associates the users' journey including awareness, positive attitudes, engagement, conversion, repurchase, and advocacy. Mobile advertising is extensively use by the marketers to create presence, develop interactive relationship, enhance mutual values, significantly affect the consumer attitudes, and purchase intention. Thus, in-app advertising needs further research to understand the perception of the users and develop positive attitude.

Proposition: In App, advertising increases the willingness of the users to click, increase attention and develop positive attitude

3.12. Contribution 12 - research on mobile marketing - Heikki Karjaluoto

The term "mobile marketing" entered the academic literature in the early 2000s. Among the first literature reviews was Leppäniemi, Sinisalo, and Karjaluoto (2006), which reviewed the mobile marketing literature between 2000 and 2006. Notably, the first scholarly conference paper (Rettie & Brum, 2001) entitled "M-commerce: The Role of SMS text messages" on mobile marketing dates back to 2001 and the first journal papers appeared in 2002. In the early 2000s, journals such as the *Journal of Advertising Research*, the *Journal of Advertising*, the *International Journal of Advertising*, *Operations Research*, and *MIT Sloan Management Review* were among the first scholarly publications to publish research on mobile marketing. Since then, hundreds of mobile marketing and related papers have been published, and this trend can be expected to continue.

During these early days of mobile marketing research, mobile marketing referred to sending text messages to consumers' mobile phones. Mobile marketing was thus often labelled as SMS advertising. Building on this, and in light of the various conceptualizations of mobile marketing, Leppäniemi et al. (2006) proposed that mobile marketing should be defined as "the use of the mobile medium as a means of marketing communication" (p. 10). In a similar vein, Bauer et al. (2005), in probably the highest-cited paper on mobile marketing (with over 1100 citations by October 2019 according to Google Scholar), described mobile marketing as "using the mobile phone as a means of conveying commercial content to customers" (p. 181).

Research published since 2007 has mostly built on SMS technology when studying mobile marketing. However, given the drastic growth of smart phones since the launch of the first iPhone in 2007, mobile marketing is today a term referring largely to other (non-SMS) forms of communication via mobile phones and devices. In another state-of-the-art paper on mobile marketing, <u>Varnali and Toker (2010)</u>, after reviewing the research on mobile marketing up to 2008, came to the conclusion that "although the literature on mobile marketing is accumulating,

the stream of research is still in the development stage" (p. 144). In their study, they noted that only five journals, of which two are clearly devoted to mobile communications, had published more than five papers on mobile marketing. These journals were the *International Journal of Mobile Communications* (47 papers), the *International Journal of Mobile Marketing** (41 papers), *Communications of the ACM* (Association for Computing Machinery; 9 papers), the *Journal of Electronic Commerce Research* (7 papers), and *Electronic Markets* (6 papers). Similar to Leppäniemi et al. (2006), the two key topics in the research were found to be the consumer acceptance of mobile marketing and mobile marketing strategies and tools. Around the same time, Shankar and Balasubramanian (2009) published a paper entitled "Mobile Marketing: A Synthesis and Prognosis" in the *Journal of Interactive Marketing*. Among other things, they proposed a framework for addressing the effects of mobile marketing on the consumer purchase decision-making process.

More recently, there have been various literature reviews published on mobile technology adoption and use. However, only a few directly deal with mobile marketing. Among these is the paper by Ström, Vendel, and Bredican (2014), which discussed the value that mobile marketing provides to consumers as well as retailers. They noted that the key value that mobile marketing can provide for retailers is the "increased effectiveness of brand communication and improved service interactions in store and post purchase" (p. 1007). A fresh perspective on the mobile marketing literature was provided by Billore and Sadh (2015), who reviewed studies on mobile advertising (i.e., advertising on mobile phones and other devices). Their article made a critical but very relevant remark concerning scholarly research on mobile marketing and advertising: "either it (mobile advertising research) addresses one specific type of advertising medium, or the findings of the studies are specific to a geographical location or country. Another limitation is related to the scales or instruments used in existing literature for measuring various constructs that are not specific to mobile advertising" (p. 161). Thus, they encouraged future studies to look at cross-cultural differences and develop better instruments to measure different mobile advertising effects that are specific to mobile media.

3.12.1. Future steps

The definitions concerning the term mobile marketing have, quite surprisingly, not evolved much. The <u>American Marketing Association (2019)</u> uses the Mobile Marketing Association's definition in its dictionary, which defines mobile marketing as comprising "advertising, apps, messaging, mCommerce and CRM on all mobile devices including smart phones and tablets." As the definition implies, mobile marketing now covers almost all marketing-related communication in different formats (e.g., text and video) accessed via all mobile devices.

Several papers have proposed a research agenda for mobile marketing and advertising. Grewal et al. (2016) provided an overarching framework for future research, addressing and proposing research directions related to environmental context and technological context, consumer-related variables, market factors, advertising (e.g., the goals and elements of advertising elements such as media), and metrics. Their framework offers an in-depth analysis of the central factors related to understanding, in particular, the advertising side of mobile media.

Lamberton and Stephen (2016) discussed the research evolution of mobile marketing from 2000 to 2015 and proposed an agenda for theory development in the field. Their key proposition was that mobile marketing researchers should "focus on understanding the marketing value of aspects of mobile technology that allow marketers and/or consumers to do things that cannot be done with nonmobile technology (e.g., geo-located ad targeting; making use of sensors in mobile devices that measure ambient contextual attributes, or even user biometrics, in the case of wearable devices)" (p. 165).

From a more practical perspective, the paper by <u>Bakopoulos</u>, <u>Baranello</u>, and <u>Briggs (2017)</u> proposed several key future research avenues for mobile marketing researchers. They identified how prior research has not sufficiently addressed the issue of how much of the total advertising budget should be allocated to mobile and which advertising formats, targeting strategies, and tactics brands should use. In addition, their study proposed three key research questions dealing with 1) consumers' path to purchase and the role of mobile advertising in it, 2) how to effectively communicate a message on mobile, and 3) how to target effectively using mobile advertising.

As the world has already turned "mobile" in the sense that mobile internet use has bypassed desktop internet use in many markets, research on understanding the various aspects of marketing and advertising on mobile devices can be expected to continue to flourish in the coming year. Hereafter the following two propositions are formulated in order to help guide future research related to mobile marketing.

3.12.2. Research propositions

The use of mobile marketing can bring many benefits to both retailers and consumers. According to Ström, Vendel, and Bredican (2014), the key value that mobile marketing can provide for retailers is enhanced brand communication and improved service interactions. Mobile marketing can also be very useful in post purchase stage. However, to date there is not much research confirming the various possible positive effects mobile marketing might have on customer relationships. Thus, we propose researchers look at these effects within future studies and propose the following:

Proposition: Mobile marketing communication will have a positive significant effect on brand communication, increasing for example brand awareness, brand attitude, customer satisfaction, customer retention, and positive word-of-mouth.

According to Lamberton and Stephen (2016), one of the key features of mobile marketing is to leverage the specific features mobile that can bring additional value to both consumers and marketers. The mobile specific features such as location-based ad targeting and wearable devices, can bring the time and context variables in advertising targeting to a completely new level. Targeting effectively using mobile advertising is of key interest in this debate (Bakopoulos, Baranello, and Briggs, 2017). Thus, researchers are encouraged to provide information relating to these mobile specific elements and study how they might create additional value to both the seller and the buyer. On this basis, we propose that:

Proposition: The more mobile marketing builds on mobile specific features, such as location-based ad targeting and use of mobile marketing in real-time service interactions and post purchase, the more positive the brand communication effects will be.

3.13. Contribution 13 - crossing to the dark side of social and digital marketing: Insights and research avenues - Hajer Kefi

Over the past decade, brands and consumers have extended their communication through digital channels especially on social media. These platforms are enabling innovative marketing practices due to their huge potential to deploy successful digital and social media marketing campaigns and value co-creation strategies (Felix et al., 2017; Kamboj et al., 2018). Mechanisms of digitized word-of-mouth, virality and social influence contagion are at stake here and have triggered an important research area which is mainly focusing on their positive and beneficial effects (the light side). Whereas research on the negative and harmful effects (the dark side) is still at its nascent stage. We think that it is important for researchers and practitioners to anticipate both sides and aim this synthesis at providing an overview on the undeveloped literature in this area. We also suggest new research avenues that could help extend works addressing it.

Two perspectives will be put forward: the first is technology-oriented and emphasizes issues and biases related to the fact that digital marketing is a digitally-enabled and data-driven domain of research and practice. And the second is user-oriented and focuses on human and psychological aspects related to consumer misbehavior in the digital era. These perspectives are not mutually exclusive, and both call for integrating more ethical and social views to constrain the dark side.

3.13.1. Data and algorithmic issues

Data is one of the largest creations of humankind. Around 2012, this fact has become popular with the advent of the concept of Big Data. Since then, many claim that 'data is the new oil' while others advocate for the absolute necessity to ascertain data validity and veracity before deriving any value from it. Amidst them marketers who succeeded to reshape the digital media environment in order to apply new practices: programmatic advertising, customer retargeting, e-WOM and influencer marketing, to name a few. But at what cost? The overwhelming ocean of data surrounding us is riddled with 'digital pollutants' that deteriorate data quality. Bias in data can appear in different ways, from data leaks and privacy breaches to spam, fraud reviews, fake social media identities and fake news.

As explained by Fulgoni & Lipsman (2017), metrics could be at the same time part of the problem and the solution. The search for higher levels of impressions, reach, frequency and demographics has been exacerbated under the pressure of media planning and campaign efficiency measurements, and helped incentivize the audience and engagement systems. As a result, massive clickbait and inorganic (paid rather than earned) if not fraudulent content creation on digital platforms have become prevalent and could negatively affect customer loyalty and their trust toward brands. In addition, brands could lose visibility on their targeted audiences and have to systematically clean the data used. Research from the computer science and social network analysis fields have recently provided valuable insights on how to navigate through

polluted data streams, especially concerning the effects produced by fraudulent reviews (Ananthakrishnan et al., 2015), fake social network accounts identification (Sarna & Bhatia, 2018) and fake news detection (Zhou, Zafarani, Shu, & Liu, 2019). In marketing and Management Information Systems, research in this area is still scarce, with a few exceptions concerning mainly the side effects of e-WOM. Tuzovic (2010) has used frustration theory to investigate how negative emotions expressed verbally and non-verbally are reflected in negative e-WOM and their dysfunctional impacts on the brands. Liu & Karahanna (2017) have identified the 'swaying' effects of e-WOM and explained how online reviews could be more or less helpful during the consumer preferences construction in a decision-making context. Kim, Naylor, Sivadas, & Sugumaran (2016) have studied incentivized (inorganic) e-WOM recommendations and concluded that manipulating reviews will have impacts not only on the audience but also on the communicator (the producer of the manipulated recommendations) depending on the valence of the recommendation (positive or negative).

Bias in data appears in different forms that needs to be investigated and cured to assure marketers and digital decision-makers a clean and transparent environment. More research is therefore needed concerning: (1) the metrics used to assess digital and social media efficiency actions, especially studies on real and manipulated impressions distinctions; (2) Invalid traffic identification and the measurement of their effects on data quality could also constitute an important research avenue; (3) Strategy-oriented studies that put under scrutiny the roles, power and responsibilities of big tech gatekeepers (Google, Amazon...), regulatory institutions, brands and other human and non-human stakeholders of the digital eco-system will also be highly valued.

When we think about non-human actors in the digital era, algorithms and AI come immediately to mind. An algorithm is defined as a systematic procedure that produces, in a finite number of steps, the answer to a question or the solution of a problem (Britannica Academic, 1999). Algorithms are the building blocks that make up machine learning and artificial intelligence. Omnipresent in the digital marketing systems, they provide search results, content recommendations and targeted advertisements. They also identify patterns and make predictions to improve user experience. Algorithms have also their drawbacks, when they use biased data input and also when they contribute to produce more bias. As they are conceived as 'black boxes' that learn from their own previous processes due to machine learning, algorithmic systems can go beyond the control of those who developed and implemented them. Amazon's AI-based hiring system has been recently shut down because it appeared that it discriminates against women because it did not derive recommendations based on reasoning, but applied a complex statistical model using data from more than 10 years of incoming past applications and hiring decisions. Because men outnumbered women among technical employees during this period, women's applications were automatically underestimated (Maedche, Legner, Benlian, et al., 2019).

This example illustrates how algorithmic systems are likely to reinforce existing structures of control and power/technology regimes of truth as defined by the French philosopher Michel Foucault (Avgerou & McGrath, 2007). New terms such as algorithmic literacy and algorithmic transparency have entered the public discourse and voices are raised in support of informing and

educating public about them. Education here does not only mean to learn how to code but also to be more conscious about the societal impacts of these systems.

A multidisciplinary body of research, including computer science, management science, ethics and philosophy is investigating this topic. Mittelstadt, Allo, Taddeo, Wachter, & Floridi (2016) developed a prescriptive map to organize the debate about the ethical implications of what they call the algorithmic mediation of our society. Bozdag (2013) explored the algorithmic gatekeeping bias that is affecting the filtering protocols of recommendation systems. Baeza-Yates (2016) have stressed the importance of user context to avoid these biases in recommendation and personalization systems. These systems use predictive algorithms to provide consumers with personalized product and information offerings, building on their previous behaviors and actions, with the immediate effect of lowering the decision effort, but with the risk of exposing consumers to narrower content over time. This phenomenon named the 'filter bubble' and also known as the 'echo chamber' has been explored by Nguyen, Hui, Harper, Terveen, & Konstan (2014) in the context of the movie industry. More research on this topic is certainly needed in different consumer contexts and industries.

3.13.2. User misbehavior issues

Research on consumer misbehavior is not new and has focused on a psychological perspective. It has been defined by Fullerton & Punj (2004) as: "behavioral acts by consumers, which violate the generally accepted norms of conduct in consumption situations and thus disrupt the consumption order representing the dark, negative side of the consumer" (p.1239). Consumer misbehavior could appear in different ways in which consumers can cause harm to brands and other consumers, such as destroying and vandalizing brands property; theft, fraud and shoplifting; abuse, intimidation and bullying other consumers and brands' personnel. Whereas these issues can be observed in offline and online settings, most of the studies addressing these are conducted within an offline context.

In the online context, the cyber-psychology discipline has extensively focused on technologyrelated users misbehavior, starting with studies on dependence and addiction (Young, 1998), then on various aspects including cyberbullying, privacy concerns, jealousy, exhibitionism, voyeurism. These studies were conducted especially within social media users' communities (Kefi & Perez, 2018). Researchers and practitioners have started to notice that the use of digital and mobile devices can be a double-edged sword, i.e. it may have positive and negative effects at the same time, or a Janus Face as concluded by Mäntymäki & Islam (2016) in their study of networking on Facebook. Islam, Mäntymäki & Kefi (2019) have studied the undesirable effects of regret experienced by users on social media especially on brand engagement. The idea of an equivocal behavior of consumers online has more generally been illustrated by <u>Jarvenpaa & </u> Lang (2005) who identified 8 paradoxical situations that result from human–technology interaction: (1) Empowerment/Enslavement; (2) Independence/Dependence; (3) Fulfills Needs/Creates Needs; (4) Competence/Incompetence; (5) Planning/Improvisation; (6) Engaging/Disengaging; (7) Public/Private; and (8) Illusion/Disillusion. We argue here that adapting this model to investigate consumer-brand interactions in a multichannel (online and offline) context could be an interesting research avenue. In effect, specific research on the (intended and non-intended) consequences of these behavioral issues within digital and social

marketing is still at its early stage. This has been discussed by <u>Scheinbaum (2017)</u> and <u>Zolfagharian & Yazdanparast (2017)</u> who have used a qualitative approach to identify the facets of technology- related dark-side consumer behavior and their effects at the individual, organizational and societal levels.

We consider in this paper that there are three areas of investigation of user misbehavioral issues implications on digital marketing. The first concerns the user dependence on technology and includes different facets: over-engagement, over-visibility and user presence quality. The second concerns the user-technology-brand triangle and its duos of paradoxical positionings: trust/privacy, authenticity/calculation and destruction/preservation. Finally, the third addresses the cognitive and emotional user limitations and include: information overload, preference construction schemas and out-sourcing decision-making patterns to human and non-human influencers and prescribers.

3.13.3. Conclusion

The two perspectives discussed in this paper related to data/algorithmic and user- misbehavior issues are in fact intimately connected. Both are related to user-technology interactions that may have double-sided effects: positive and negative. We believe that to substantiate the positive side, we have to put within our grasp and constrain the negative one. Research in this area requires large-scale quantitative studies, data-driven and new experimentation protocols. More qualitative oriented studies are also needed to explore newly experienced behaviors and phenomena that emerge from human-digital interactions and their implications for digital marketing decision-makers and consumer wellbeing.

3.14. Contribution 14 - ethical issues in digital and social media marketing - Jenna Jacobson

The Cambridge Analytica scandal broke in 2018 to reveal that the UK-based consulting firm mined data from millions of unsuspecting Facebook users (<u>Cadwalladr & Graham-Harrison</u>, 2018). The company developed psychographic profiles based on users'—and their friends'—social media data to strategically influence behavior using targeted advertisements. This scandal should serve as a sobering wake-up call to every profession that uses social media data. Social media marketers rely on the ability to collect, analyze, use, and actualize the public's social media data to derive a strategic advantage.

The level of information that social media platforms have about individual users enables advertisers to engage in microtargeting. Using this "weaponized ad technology," a user's demographics, interests, likes, or fears can be used to precisely narrow the targeting of advertising messages (Singer, 2018). Early cases of deeply problematic targeting, such as targeting "Jew haters," highlighted the power and responsibility of those behind the platform as well as those harnessing the platform for targeted ads.

Social media platforms have attempted to open some small windows into the platform's practices, but have simultaneously closed other doors. As a response to recent public criticism, Facebook, for example, has restricted some microtargeting practices and implemented several API (application programming interface) restrictions. Subsets of data haves and data have-nots

are emerging. The data have-nots will need to rely on paid access to social media data or special access to the platform's data. These developments are further black-boxing the practices, thus limiting the scope and depth of academic research. Transparent and proactive measures, informed by empirical research, need to be taken at the platform, professional, and policy level to ensure ethical social media marketing practices.

The social media marketing landscape is evolving, but social media is no longer new. When social media platforms were first emerging, the <u>playing field</u> was unknown. New platforms have emerged (i.e., WeChat, Snapchat, Instagram, and Tik Tok), while others have become obsolete (i.e., Friendster, Google+, Vine, and Yik Yak). Much research has been dedicated to understanding how to successfully use and implement social media for marketing purposes (<u>Alalwan et al., 2017</u>). As boundaries have been pushed beyond acceptable social limits, the social media industry has entered the identity formation stage, which is being established against emerging rules. Some social media powerhouses have emerged that wield unprecedented power: prominently Facebook, which also owns Instagram. As new tools, APIs, and approaches have been developed, there are greater opportunities to harness significant amounts of data, including increased amounts of sensitive data, which can be used—and abused—in social media marketing.

Social media marketers not only have access to platforms' in-house advertising tools, but also public data on social media. The divide between public data, otherwise referred to as publicly available social media data, and private data can be somewhat of a misnomer. Research evidences that an individual's expectation of privacy may change over time and may differ based on who is using the data and for what purpose (Gruzd et al., 2018). Attempting to use simplistic privacy settings on individuals' social media accounts as a blunt instrument does not suffice in assessing what data marketers should ethically access.

Built on the scholarly tradition of university ethics boards, researchers' extensive research training, and the goal of promoting social good, academic research has been leading the charge in deeply considering ethical social media data practices. Researchers are grappling with and analyzing ethical challenges as the landscape changes, yet there are still many unexplored, or underexplored, areas. This is particularly important as existing and newly developed industries are thriving on using the public's social media data for profit. Social media marketers are data consumers. Data consumers—those who are scraping, analyzing, and using the public's data—need a higher level of literacy in understanding the ethics and practices of social media.

Regardless of the quantity of data, the ethical implications of social media marketing need to be critically and repeatedly considered. The discussions of social media data in both industry and academia should be inextricably linked to discussions of data ethics. Professionals can no longer rely on the "spray and pray" approach of social media marketing; methods are becoming more sophisticated, data-driven, and linked to tangible results. This power of using social media data comes with a sense of responsibility, and it is time that this responsibility is met, embraced, and actualized in industry practices.

The scholarly and professional community lack the precise lexicon to discuss the ethics and implications of social media marketing—as well as other issues related to social media. This

difficulty is exacerbated by the ever-evolving nature of the industry and the multiple disciplines addressing this issue. Current research and popular discourse have focused on conceptions of "privacy," which is critically important, but has led to questions as to whether privacy in a social media age exists or is of any importance. How can someone profess to be concerned with privacy when they freely elect to share so much of their personal lives on social media—baby announcements, marriage photos, day-to-day happenings, simple selfies, and so forth? The question of "does privacy matter?" distracts from the more important questions of social media data rights, governance, and policies.

The word "privacy" is a fiercely debated and loaded term. Scholarly definitions vary vastly, and privacy means different things to different people (Marwick & boyd, 2014). The situation is further complicated and compounded when considering social media privacy. Importantly, Raynes-Goldie (2010) refers to the distinction between social privacy and institutional privacy: social privacy refers to instances when known individuals are involved, whereas institutional privacy refers to how institutions manage personal data. Other research refers to the distinction between horizontal privacy (such as a user not wanting a person—e.g., a boss, friend, or family member—accessing their information) versus vertical privacy (such as third-parties analyzing publicly available data or owned platforms analyzing their users' data) (Quinn & Epstein, 2019). Horizontal privacy can partially be addressed by changing the default settings on social media platforms, improving social media data literacy, and affording more granular and personalized privacy settings. Public data literacy continues to be an area of critical importance: understanding how to navigate ad preferences and privacy settings on the various platforms and learning how information can be collated. Vertical privacy, however, is much more difficult to address, especially as so much of the information is black-boxed and needs to be further researched.

Further work is required to analyze and bolster social media data literacy across demographics. In fact, it is increasingly difficult to truly understand how social media data can be used. While the overwhelming sentiment puts pressure on individuals to understand the privacy policies and terms of service, research also indicates that individuals do not read, nor understand, the verbose legalese (Obar & Oeldorf-Hirsch, 2018), which points to the importance, and also limits, of data literacy. The purported decision to "electively" opt-in is influenced by the current landscape, which largely dictates that individuals have a presence on social media in order to build an identity, community, and professional reputation. At the same time, it is important to recognize that research repeatedly indicates that people derive tremendous benefits from being on social media (Quan-Haase & Young, 2010; Hemsley, Jacobson, Gruzd, & Mai, 2018). The fear of missing out may mean missing out on social connections or information that can be used to better one's career, self, or life. As such, the decision to consent to the ever-evolving terms may be a necessary part of operating and living in a social media saturated landscape. However, that consent may not extend to social media marketing.

The ethics of marketing practices have been shaped by government policies and industry-governed practices; future research needs to play a role in laying the groundwork for these interventions. The marketing industry has seen new policies aimed to protect children, prevent misleading advertisements, restrict types of advertising in specific industries (such as cannabis, alcohol, or tobacco), as well as dictate disclosure requirements for influencer marketing. The regulation of social media marketing will come from both inside and outside the industry, yet

often lags behind technological advancement, which points to the need for continued scholarly research.

Looking forward, research needs to continue to seek to understand what influences people's perceptions, as well as corresponding behavior, surrounding the use of their social media data. <u>Jacobson, Gruzd, and Hernandez-Garcia (2020)</u> introduce a new construct "marketing comfort," which refers to an individual's comfort with the use of information posted publicly on social media for targeted advertising, customer relations, and opinion mining. As evolutions in social media marketing occur, this construct can be fruitfully employed by future research.

Individuals do not fully understand how their data is currently used and, perhaps more problematically, they do not know how that data will be used in the future. Predictive analytics in the social media context refers to the collection and analysis of social media data to predict or anticipate a particular outcome; for example, a marketer determining specialized pricing or promotions for insurance rates based on a prediction of risk. The algorithms are only as good (or bad) as the code and training data. The systemic problems of bias are already well recognized; the algorithms discriminate against certain already marginalized populations of people. Future research will also need to deeply understand not only people's perceptions of these social media marketing practices, but the implications of predictive analytics and algorithmic bias in social media marketing.

3.14.1. Research propositions

There continues to be a critical need for data literacy. As of 2019, Facebook's ad disclaimer dictates that the sponsoring entity needs to be disclosed on all ads regarding social issues, politics, or elections. A positive step forward would be to expand the scope of the ad disclosures to all advertisements and to all platforms; the expansion would mean that advertisers are not only responsible for declaring *who* is sponsoring the ad, but also for providing a description of the microtargeting practices in order to help the public understand *why* they are seeing the particular ads.

Future research should endeavor to understand what influences individuals' "marketing comfort" (Jacobson et al., 2020). There is a critical need for scholarly intervention to understand what impacts individuals' attitudes and perspectives towards the use of their social media data. We need interdisciplinary and intersectional perspectives to develop best practices that afford every person the ability to develop the skills to successfully navigate the digital world. Rather than delegate this important task to grade school education, data literacy needs to be a life-long commitment that is not only taught, but reinforced, by various stakeholders, such as higher education, workplaces, and government. Considering that this area is in need of further research and investigation, this paper makes the following research proposition:

Proposition: The public's comfort with social media marketing may be affected by data literacy.

As the public—and governments—gain data literacy, there may be increasing pressure on organisations to engage in more transparent and ethical data practices. Across various industries, third parties would approach this task in different ways. For example, researchers may make a

statement in their publications about the ethics of their data collection and use; social media marketers may disclose how they obtained and used the public's social media data.

Ethical data practices need to be taken seriously by third parties. In Europe, the GDPR dictates how businesses can collect and use the public's personal data; companies in countries outside Europe may elect to become GDPR compliant in an effort to boost their ethical organizational practices. As third parties increasingly gain access to more data and more sensitive data from unknowing individuals, third parties may develop self-regulation social media practices in an attempt to sidestep government regulations. As such, the following proposition is offered:

Proposition: Social media data transparency will play an increasingly important role in ethical organizational practices.

4. Concluding discussion

In line with the approach adopted in Dwivedi et al. (2015b; 2019c), this current research presents multiple views on digital and social media marketing from invited experts. The experts' perspective encompasses general accounts on this domain as well as perspectives on more specific issues including Artificial Intelligence, augmented reality marketing, digital content management, mobile marketing and advertising, B2B marketing, e-WOM, and aspects relating to the ethics and the dark side of digital and social media marketing. Each of the individual perspectives discuss the many challenges, opportunities and future research agenda, relevant to the many themes and core topics. The expert perspectives within the overall selected themes of: Environment, Marketing strategies, Company and Outcomes, elaborate on many of the key aspects and current debates within the wider digital and social media marketing literature. Each perspective presents individual insight and knowledge on specific topics that represent many of the current debates within the academic and practitioner focused research.

A number of perspectives discuss the many underlying environment related complexities surrounding eWOM, and its positive as well as negative implications for social media marketers. The perspective from Anjala S. Krishen discussed a number of the humanity focused issues as well as cultural aspects of digital marketing, referencing eWOM in the context of our ability to understand and interact with multiple cultures and societies. This viewpoint posited the importance of tackling the issue of information overload and that tools and new mechanisms can build credible knowledge and in turn facilitate informed data-driven decisions. The perspectives from Raffaele Filieri and Gina A. Tran highlight the complexities and many behavioral factors relating to consumer attitude and trust in the eWOM context. The separate but equally important constructs of both negative and positive eWOM are discussed, as is the intriguing prospective of further research that develops a deeper knowledge of how each are communicated through social networks. The perspective from Hajer Kefi also discusses eWOM positing the need for a rebalancing of research emphasis on aspects of digital and social media marketing, asserting that studies have omitted developing a deeper level of quantitative and qualitative focused research on the negative aspects of social media. The social media marketing research aspect is examined by Jenny Rowley, where the perspective outlines the key factors relating to research on the behavioral implications of consumers as well as user behavior characteristics within organisations. This contribution highlights some of the limitations of existing research where

studies have tended to offer a narrow segmentation focus and a propensity to rely on students due to the ease of data collection, omitting key social media consumer segments.

A number of strategic marketing aspects have been examined by a range of contributors where the key topics of customer engagement behaviors, technological impacts on B2B marketing, criticality of positive customer journeys, AI driven social media performance and ethical dimensions relating to digital and social media marketing are discussed. The separate perspectives from Jamie Carlson and also from Mohammad Rahman articulate how digital and social media marketing can develop greater value for organisations via the broader understanding and cultivation of customer engagement behaviors and positive customer journeys. These aspects are critical to social media marketers as the negative effects of poor customer journeys can severely brand credibility and trust. The impacts of greater use of technological developments such as AI, AR, big data analytics and blockchain have gained significant traction within the marketing focused literature. The perspectives from Jari Salo, Philipp A. Rauschnabel outline many of the digital and social media implications of adoption and use of technology. The transformational potential of AI as outlined by Vikram Kumar & Ramakrishnan Raman outlines the huge significance for marketers and organisations that implement ML technologies within their marketing strategies, where digital platforms can monitor marketing campaigns and perform real time optimization based on customer behavior and platform performance.

The ethical dimensions and explainability complexities of adopting AI related technologies are debated by Yichuan Wang, where this perspective posits the potential for optimized social media marketing communication to develop greater achieve market returns for firms that strive to implement explainable AI within their marketing strategies. The perspective from Jenna Jacobson also approaches the ethical dimensions of social media data for microtargeting purposes, highlighting the importance of data transparency and how this could play an increasingly important role within ethical organizational practice.

The mobile aspects of interacting with digital and social media marketing are discussed within a number of contributions. The perspective from Heikki Karjaluoto articulates the role of integrated mobile technologies, utilizing wearable sensor devices and location-based ad targeting within real-time service interactions, asserting the potential for more positive brand communication. The impact of the mobile advertisement model is assessed within the perspective from Varsha Jain, where the perception of users is explored in the context of purchase intention, highlighting the need for additional research to understand the in-app influence on the development of positive attitudes.

Significant challenges exist for organisations and marketers alike as they develop their digital strategies and brand awareness within the modern era of information overload and social media communication. The inherent complexities and tremendous opportunities of the multi-platform social media age, present a dichotomy to marketers, where direct access to a wide and diverse customer base has never been easier; whilst the threats from negative eWOM can magnify in real time with huge consequences for the organisation. Marketers developing brand awareness through digital and social media need to be ever cognizant of the criticality in promptly engaging directly with consumers in response to negative postings (Lappeman et al. 2018), thereby, preserving trust and reputation of the organisation. Marketers that develop their digital and social

media strategies alongside the deeper analysis of human behavioral insight and communicated interaction through social networks, are increasing their chances of success.

The recalibration of marketing perspective toward the more holistic customer experience and overall personalized customer journey (Gartner Research 2019), is a significant change that posits the benefits of positivity leading to greater brand engagement and ROI in the form of increased sales and brand loyalty. The removal of human interaction at the initial stages of the customer journey is somewhat normalized with the ubiquitous use of chatbots and associated tools for a number of key tasks. However, the increased use of AI and ML driven interaction, whilst offering significant advantages for marketers and increased scope for customer engagement, could detract from the overall customer journey if not designed carefully. The ethical dimensions and subsequent trust from consumers are key considerations for the wider use of AI whilst navigating a path through the key aspects of privacy and security, will be key for organisations in the development of their digital strategies (Mandal, 2019).

outlines the limitations, stated research gaps and future research directions identified by the invited experts as well as from the relevant literature. It can be seen that key aspects of the current literature relating to digital and social media marketing are recommending future research to investigate different platforms, various types of users, their personal characteristics and analysis of cultural implications. These identified gaps could potentially form the basis for numerous strands of future research within this genre of study.