

How to increase engagement on social media using the honeycomb model

A case study in a Portuguese HR company

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Abstract

Purpose – The purpose of this paper is to understand how a company could improve public engagement on social media (SM) analysing the case of Alento, which is a human resources and consulting company located in Portugal. The company's presence on Facebook was analysed by using the honeycomb model for SM functionality, by Kietzmann *et al.* (2011), as a theoretical framework.

Design/methodology/approach – The authors implemented some actions to change procedures on SM management. Monitoring five months of data, the authors could compare the SM engagement before and after changes on SM management. Then, a convenience sample of 205 useable questionnaires was collected. The population of the study comprised Portuguese Facebook users who liked the Alento Facebook Fan Page. An analysis of honeycomb dimensions was performed.

Findings – The engagement level on Alento's SM was increased by changing procedures identified on survey. In five months, Alento's number of followers was increased by just 4.5 per cent, interactions were increased by 35 per cent, views were more than twice (+122 per cent) and fans who clicked on Alento's Facebook page's links were increased by 146 per cent.

Research limitations/implications – There were also some limitations related to the sample, since the authors only obtained 205 responses. Therefore, the second suggestion for future investigations would be to conduct the survey on a larger number of people. This study just considers five months after changing procedures. A longer range of time could produce different results.

Practical implications – The most relevant contribution of the current study is the offer of some insights into the use of a simple tool such as the honeycomb model of Kietzmann *et al.* (2011) for the analysis of the social engagement from a firm's perspective, regardless of their nature.

Social implications – The importance of SM to spread good content and to reduce media costs is reinforced in this study.

Originality/value – This study is innovative, as it identifies a need of change on SM management, proposes and implements new procedures, checking its results. SM marketing is a new wagon of study, and the problem of how to increase engagement on professional SM is on top priorities of the field.

Keywords Engagement, Digital marketing, Social media management

Paper type Technical paper

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Introduction

Digitalisation has become a part of our daily life. As a result, digitalisation and particularly social media (SM) have been claimed to transform consumer behaviour (Kaplan & Haenlein, 2010), with important consequences for companies, products and brands (Mutinga, Moorman, & Smit, 2011). Nowadays, consumers spend much of their time on the internet. They are much more proactive in establishing channels with companies. However, companies use these channels more and more to promote their brands and to engage customers, especially by sharing informational brand content with links for information searches (Swani, Milne, Brown, Assaf, & Donthu, 2017). Social networks are used by people of different ages, education levels, genders, social statuses, people who speak different languages and who come from different cultures, all of whom participate and incorporate social networks into their daily lives (Mazman & Usluel, 2010). Previous studies have shown the differences between adolescents and older adults (over 60s) in the use of different SNS features and content (Pfeil, Arjan, & Zaphiris, 2009). Muscanell and Guadagno (2012) found that young SNS users are much more active, have a larger number of Facebook friends, spend more time online and participate in the different activities available on Facebook. However, in comparison, older users prefer to engage in family activities on Facebook (Dhir & Torsheim, 2016). Users can spend their time on Facebook, doing many different activities such as playing video games, joining groups, getting up-to-date information from friends and family or having fun (Sánchez, Cortijo, & Javed, 2014). Previous literature has observed gender differences in SNS use. Gender differences were observed in the use of different SNS features, for example females tend to comment on friends' posts (Yuan, 2011) and they also post more photos and videos (Hargittai, 2007; Madden, Lenhart, & Duggan, 2013; Muscanell & Guadagno, 2012). In comparison, males tend to play games on SNS (Joiner *et al.*, 2012; Muscanell & Guadagno, 2012) and seek entertainment related to social networking activities (Joiner *et al.*, 2012; Weiser, 2000). The profile differences are relevant, and this way it is important to understand well who the company's clients are, in order to better adapt the page contents to their preferences and chances of engagement. Although this is severely eroded (Mangold & Faulds, 2009), marketing managers would still desire to control over the content, timing and frequency of information provided within the page. "In the new communications paradigm, marketing managers should recognize the power and critical nature of the discussions being carried on by consumers using social media" (Mangold & Faulds, 2009, p. 360). Therefore, it is very important for firms to understand how to provide and organise the information they want their customers to consume through the SNS provided.

However, with the evolution of communication, it is gradually becoming more and more difficult to build customer loyalty (Buhalis & Law, 2008), which means that having a marketing strategy for the effective use of SM is crucial for companies to stay competitive and grow (Parsons, 2013). Understanding SM users' habits is therefore crucial for marketers who need to discover how to attract customers and maintain customer relationships through SM platforms (Cheung & Leung, 2016). According to Erragcha and Romdhane (2014), there is no global definition of Digital Social Networks. However, in marketing literature, the most suitable definition is that they are web services that "allow individuals to construct a public or semi-public profile within a system, to maintain a list of users with whom they share a bond, to view and navigate their list of connections and those established by others within the system" (Boyd & Ellison, 2007, p. 2). Social networking sites allow for interaction between consumers and the community and facilitate the "asynchronous, immediate, interactive, low-cost communications" (Miller, Fabian, & Lin, 2009). "Social network sites can be seen as alternative communication tools which support existing relationships and activities in a fun and colourful way that can enrich the users' experiences" (Ofcom, 2008).

This paper aims to investigate the applicability of SNS in a service company. Our goal is to understand how digital marketing strategies can be used in order to improve firm's

digital marketing plan. We will focus on Facebook, as it is the largest social networking website in the world and, as a consequence, the most representative.

Engagement
on social media

Literature review

Digital marketing, social media and customer engagement

Digital marketing can be seen as a tool to promote the company more efficiently, and it should be understood effectively by companies so that they are better able to select efficient marketing tactics and strategies (Taiminen & Karjaluo, 2015). Within digital marketing, we can isolate SM as “a group of internet-based applications that build on the ideological and technological foundations of Web 2.0 and that allow the creation and exchange of user generated content” (Kaplan & Haenlein, 2010, p. 61). Social networking tools (e.g. Twitter and Facebook), professional networking sites (e.g. LinkedIn), media sharing sites (e.g. Instagram and YouTube), commerce communities (e.g. Amazon and eBay), blogs (e.g. Blogger and Bloglines) and discussion forums are examples of SM platforms. SM has changed the way companies have done business over the years (Ramsaran-Fowdar & Fowdar, 2013), and as a result, in recent years, SM sites have become essential for users and companies (Maecker, Barrot, & Becker, 2016). Although the internet has created huge new opportunities for companies over the years, it has also generated new challenges (Strand, 2011). However, there is a lack of understanding of how and why organisations are actually using these platforms (Tsimonis & Dimitriadis, 2014).

SM is a way to generate companies and brands engagement in several actors and stakeholders, such as customers, suppliers and employees (Hollebeek *et al.*, 2018). Customer engagement is a concept in evolution (Hollebeek, 2011) about how an actor can be profoundly interested and bounded in a company, in terms of trust, loyalty, commitment and confidence (Moriuchi, 2019), which include the B2B (Silva, Bradley, & Sousa, 2012; Diba, Vella, & Abratt, 2019) and the B2C contexts (Kesgin & Murthy, 2019). Online engagement can include how someone sees, follows and resends content on SM for his/her audience, helping a company to earn media, instead of buying it. Based on how trustable someone is (Oeldorf-Hirsch & DeVoss, 2019) and the content, for instance, positive or negative (Spottswood & Wohn, 2019) and based on technology issues (Zhu, 2019), it can be moderated.

Facebook as a digital marketing tool

Social networking sites allow for interaction between consumers and the community and facilitate the “asynchronous, immediate, interactive, low-cost communications” (Miller *et al.*, 2009). According to Kaplan and Haenlein (2010), SM, Facebook in particular, represent a vast area of opportunities for firms. Facebook has many types of pages and other ways that allow people to connect, but there are, according to Strand (2011), four main types of Facebook pages: personal pages, fan pages, official pages and community pages.

Facebook has become a significant tool in engaging with consumers and creating brand awareness (Malhotra, Kubowicz Malhotra, & See, 2013). Approximately 2.2bn people currently have a Facebook profile according to data from 2017. According to a study conducted by Nielsen in 2012, around 53 per cent of Facebook members follow brands at least once per month, learn more about brands (65 per cent) or hear of others' experiences with brands (70 per cent) (The Nielsen Company, 2012).

Facebook (2019), with more than 2.2bn users, is the largest form of SM worldwide. It generated more than \$55bn of revenue in 2018, it is the sixth company in the world in market value, with \$22bn net income, it is a huge company and an important media to worldwide advertisement, and around 50 per cent of its revenue comes outside USA. Companies need to have a Facebook fan page, which must be well configured and customised (Valos, Habibi, Casidy, Driesener, & Maplestone, 2006; Mangold & Faulds, 2009). In 2019, in Portugal, Facebook's relevance has been seen to be high: about 6.5m of people are its users (65 per cent of the total population) and 90 per cent of all internet users

are on Facebook, the first website in the country. Portuguese people, in an international ranking, have taken the first place in looking for information online and 15 per cent have the habit of checking Facebook as long as they are awake (Hootsuite, 2019).

Consequently, companies invest a lot in SM platforms by creating brand fan pages on which companies publish brand posts that users can like, comment on or share, and where the company can reply to comments (De Vries, Gensler, & Leeflang, 2012; Labrecque, 2004).

Through Facebook, companies can connect with many more people, more than through phone calls, e-mails or meetings (Luke, 2009). Moreover, costs of communication have fallen drastically with this SM, generating opportunities for companies to communicate quickly, directly and consistently with millions of customers (Mize, 2009; Palmer & Koenig-Lewis, 2009).

For several applications, Facebook has contributed to generate more sales and opportunities, for instance on destination tourism marketing (Villamediana, Küster, & Vila, 2019), B2B context (Zhang & Li, 2019) and cultural experiences (Vredeveld & Coulter, 2019).

However, researchers have highlighted risks of overuse of SM, including anxiety and FOMO (Larkin & Fink, 2016), and even risk of socialisation and formation of social bubbles (Cardenal, Aguilar-Paredes, Galais, & Pérez-Montoro, 2019). People are deciding to give up SM (Burtäverde, Avram, & Vlăsceanu, 2019), and what motivates someone to engage on Facebook (Machado, Azar, Vacas de Carvalho, & Mender, 2016) and even socialising negative content have become a topic of discussion. These criticisms include privacy issues about consumers and companies' data.

The seven functional blocks of social media

Kietzmann, Hermkens, McCarthy, and Silvestre (2011) developed a honeycomb framework that identifies seven functional building blocks of SM: identity, conversations, sharing, presence, relationships, reputation and groups. According to them, each block allows us to unpack and examine a specific facet of SM user experience and its consequences for companies. It is not necessary to include all of the building blocks in any given SM action. They are constructs that allow us to understand the different levels of SM functionality.

Identity. For Kietzmann *et al.* (2011), identity represents the extent to which users reveal their identities in an SM setting. On Facebook, users can define the information they share and with whom they share that information. For example, information such as name, age, gender, profession, location and also information that exposes Facebook users in certain ways. For instance, the authors explain that thoughts, feelings, likes and dislikes of users can also be shared, both consciously and unconsciously. One major implication of "identity" is privacy. Users share their identities on SM sites; however, this does not mean they do not care what happens to this information (Kietzmann *et al.*, 2011).

Moreover, Machado *et al.* (2016) stated that on Facebook, trust in brands and in other users who like the same brand can influence consumers' decisions to engage online with brands. They also mentioned that according to Swani, Milne, and Brown (2013), positive word of mouth (WOM) can be comparable to "liking". When a user likes certain content, it appears on their Facebook news feed as well as on their friends' newsfeeds.

Conversations. The "conversations" block of the framework represents a level of communication on an SM platform with other users, which could be the number of regularity of postings (Kietzmann *et al.*, 2011). According to Machado *et al.* (2016), on SM platforms, consumers can find out more about a certain company through the knowledge and know-how of other users. Through comments, consumers can also contribute to brand-related content (Shu & Chuang, 2011). One major implication of the "conversations" block is "conversation velocity and the risks of starting and joining" (Kietzmann *et al.*, 2011, p. 243).

Sharing. "Sharing" refers to the sending and receiving of content between users on the same SM platform, such as photos, comments and videos (Kietzmann *et al.*, 2011). Machado *et al.* (2016)

mentioned that besides “likes” and “comments”, SM metrics should comprise the number of “shares” (Hoffman & Fodor, 2010). By interacting with a brand on SM, consumers can feel an interpersonal social interaction (Hudson, Huang, Roth, & Madden, 2016).

According to Kietzmann *et al.* (2011), the “sharing” block of the honeycomb has two implications for companies with ambition to engage in SM. First, companies need to understand “what objects of sociality their users have in common, or to identify new objects that can mediate their shared interests”. Second, companies need to evaluate “the degree to which the object can or should be shared” (p. 245).

Presence. Presence refers to the ability of one user to know if other users are available. This includes knowing where other SM users are in virtual and in real life. In the virtual world, we can control this “through status lines like available or hidden” (p. 245). For example, on Facebook, users can click on a chat button to indicate if they are online and available, or do not wish to connect with other users (Kietzmann *et al.*, 2011).

Kietzmann *et al.* (2011) stated that an implication of the framework building block “presence” is that “firms need to pay attention to the relative importance of user availability and user location. A firm might also want to investigate if users have a desire for selective presences, where one can be visible to some people while staying hidden to others” (p. 246). Another implication of “presence” is that it is related to other functional blocks in the honeycomb framework, such as “conversations” and “relationships”. For instance, companies should recognise that “social media presence is influenced by the intimacy and immediacy of the relationship medium, and that higher levels of social presence are likely to make conversations more influential” (p. 246).

Relationships. “Relationships” refer to how people are connected on an SM platform. Machado *et al.* (2016) stated that in social networking sites, consumers use brands in order to create a self-identity (Schau & Gilly, 2003), and when they “like” a brand via Facebook, they create an impression on others (Hollenbeck & Kaikati, 2012; Wallace, Buil, & Chernatony, 2012) and increment their social involvement (Shu & Chuang, 2011). Facebook users can identify family members and make notes of mutual friends between users. When users are “relating” to each other on SM platforms, it means that they have a form of connection that leads them to “converse, share objects of sociality, meet up, or simply just list each other as a friend or fan”. When a certain SM site or company desires to engage with its fans, it should find out how it can maintain and/or build relationships (Kietzmann *et al.*, 2011, p. 246).

According to Hudson *et al.* (2016), when a company interacts with its fans by replying to comments, solving problems and inviting them to participate, fans feel a higher level of relationship quality and create a feeling of connection.

Reputation. “Reputation” refers to the ability of users to identify the standing of others (including themselves) within an SM platform. For example, Facebook users can “like” certain content and comment on it. According to Kudeshia, Sikdar and Mittal (2015), online reputation is an important element for the success of a company. An online presence allows companies to understand their customer’s feelings about the brand and it could also be an opportunity to avoid any negative thoughts.

Online reputation management is very important for online community marketers (Kietzmann *et al.*, 2011). According to Baxi, Panda, and Karani (2016), one negative comment on company SM platforms can create a negative impact on the minds of other community members. To restrict the negative impact, quick responses to every negative comment are required. Negative WOM publicity has a higher impact than positive WOM publicity.

According to Kudeshia *et al.* (2015), online reputation is an important element for the success of a company. An online presence allows companies to understand their customer’s feelings about the brand and it could also be an opportunity to avoid any negative thoughts.

Groups. “Groups” refer to the capacity of users to “form communities and sub-communities”. When SM users “like” the same brand, they form a community (Kietzmann *et al.*, 2011, p. 247). On Facebook, users can also form communities by organising their friends into different groups (Parsons, 2013). According to Machado *et al.* (2016) and Daugherty, Eastin, and Bright (2008), social interaction is very important for the creation of user-generated content, “as by creating content consumers can connect with others, experience a sense of community and feel important” (p. 171). Moreover, by interacting with a brand through SM platforms, consumers can feel an interpersonal interaction and an intimacy feeling (Hudson *et al.*, 2016).

A fan page’s success on any SM depends on consumer engagement with the brand or company. To achieve this, it is important to have good planning in the networks and the web as a whole, which should be carried out proficiently (Trainini & Torres, 2015).

Methodology

This study is based on a qualitative and interpretative method – action research (Taba & Noel, 1957; Thiollent, 1997; Tripp, 2005; Machin-Mastromatteo & Tarango, 2019). This method proposes an analysis based on a cycle in which “one improves practice by systematically oscillating between taking action in the field of practice, and inquiring into it” (Tripp, 2005).

We consider the action inquiry cycle (Machin-Mastromatteo & Tarango, 2019) in five phases. The first phase is the diagnostic phase, when the phenomena are described in the field. The second phase is the planning phase, when an intervention is created and planned. The third one is the intervention phase, when actions are made. The fourth is the observation phase, where data are collected to analyse actions’ effects. The fifth is the evaluation and reflection phase, when, based on data analysis, best practices are elected.

Phase 1 – diagnosis

Alento is a Portuguese human resources (HR) services provider company. Created in 2012, it is based on the cities of Braga and Porto. Its focus relies on consulting services to companies (recruiting, selecting, training and planning services) and people looking for a job (coaching, outplacement and training services). Among its clients, youngsters and people looking for their first jobs form important segments, and B2B and B2C services are among its services (Alento, 2019).

HR companies have important relationships with both companies and candidates, in B2B and B2C contexts. Therefore, engagement can vary depending on the kind of public considered. Considering the aim of this study, we analyse the company’s presence on Facebook and its publications.

Phase 2 – planning

Based on Alento’s publications and their results on Facebook between January and September 2017, the changes that Alento’s SM management could implement were identified. Facebook’s profile was focussed on identity and profile blocks of honeycomb. To have a deeper engagement, all the seven blocks must be reflected in this activity.

So, we have come up with a list of practices to complete what is needed. Thus, this first action plan aims to define strategies that allow for correcting, improving and implementing other aspects that can help the organisation to fulfil the objectives of this study. In Table I, we can see the strategies that were implemented before and during the intervention (between September 2016 and January 2017), allocated to each building block.

Then, we proposed to create a survey to be taken by Alento Facebook fans to determine the extent to which a company should focus on some or all of the building blocks of Facebook engagement with fans previously described. At last, considering the results

	Before	After
Identity	<p>Tabs for homepage, publications, videos, photos, information about Alento (where Alento is, general information, history), likes, online store, contact us</p> <p>Few posts about product information, acknowledgements, events, information about changes to website, photos and videos</p>	<p>Exclude online store tab, maintain the others and add tabs for events, careers and job offers</p> <p>Posts containing announcements about special offers, news, daily tips and fun facts</p>
Conversations		<p>Tabs for discussions, quizzes and FAQs</p> <p>Promote calls for involvement, customer comments, polls/poll questions, and product reviews/tips/uses/recipes</p>
Sharing		<p>Tabs for discussions and reviews</p> <p>Posts about job offers, links, photos, product reviews/tips/uses/recipes, promotions, and Video/You Tube links</p>
Presence	Tabs for contact us	<p>Create tabs for FAQs</p> <p>Dedication to posting frequently</p>
Relationships		<p>Tabs for discussions and reviews</p> <p>Post sharing Holiday greetings, polls/poll questions, and calls for involvement</p>
Reputation		<p>Tabs for photos, videos, events, information about Alento (where Alento is, general information, history)</p>
Groups		Analyse the number of likes

Table I.
Strategies
implemented before
and during the period
of our study

obtained in the quantitative study and strategies developed during this period, we will propose some strategies that the company must implement on its Facebook page.

Phase 3 – intervention

Alento started and followed the new protocol of SM management during the given period. We proposed a greater incidence in strategies allocated to the “presence”, “identity” and “reputation” building blocks to Alento. Therefore, it is recommended that a company should dedicate its time to post frequently, analysing the number of likes (to see if likes have increased or decreased) and the reviews of fans. It is also necessary to create posts containing announcements about special offers, product information, news, daily tips and fun facts.

Phase 4 – observation

To analyse the impact of actions proposed in Phase 2 and implemented in Phase 3, it was needed to consider the “statistics” available on Facebook, such as the number of “followers”, “interactions”, “reach of publications” and “clicks on publications by type”. Results can be found in Table II. By analysing these data, it is observed that Alento has increased its number of followers, interactions, views and fans who clicked on Alento’s Facebook page’s content. Clicks and number of fans have increased by more than 100 per cent.

Then, a survey was conducted to analyse the profile of followers and their perception about those implemented actions. Data were collected during February 2017, by accessing directly consumers on the Facebook page.

Sample. A convenience sample of 205 usable questionnaires was collected. The population of the study comprised Portuguese Facebook users who liked the Alento’s Facebook Fan Page. In all, 119 of the respondents were female (58 per cent) and 86 were male (42 per cent). Characterising the respondents by age group, the majority of participants were concentrated in the age group “15 to 24 years” (72.7 per cent). The 25–34-age group also stood out,

representing 17.1 per cent of the respondents. Regarding residence, the majority of respondents were from Porto, Braga and Lisboa, representing 47.3, 33.7 and 9.8 per cent, respectively. The majority of the respondents had a university degree (51.7 per cent), 29.3 per cent had a postgraduate or master's degree and 17.1 per cent had completed secondary education. Regarding the professions of the respondents, there was a predominance of students (57.1 per cent), followed by managers/businessman (8.8 per cent) and marketing, communication and sales professionals (6.8 per cent). Concerning the time spent on Facebook, 31.7 per cent of the respondents spent between 1 h and 2 h per day on Facebook, 30.7 per cent of them spent between 30 min and 1 h, 22 per cent spent more than 2 h on it and only 15.6 per cent used it for less than 30 min per day.

Variables and measures. The seven independent constructs (identity, conversations, sharing, presence, relationships, reputation and groups) and the dependent variable (Facebook engagement) were all measured by multiple item scales using a five-point Likert scale, with “strongly disagree” to “strongly agree” being the endpoints. The control variables (age group, residence, time spent on Facebook per day and gender) were all measured by multiple choice.

To study the “identity” building block, we adapted the scales used by Cheung and Leung (2016) and Machado *et al.* (2016). Regarding the “conversations” building block, we adjusted the scales used by Machado *et al.* (2016). To study the “sharing” building block, we adjusted the scales used by Machado *et al.* (2016) and Hudson *et al.* (2016) in their study. To analyse the “presence” building block, we created a scale on the basis of the “presence” functional building block of SM of Kietzmann *et al.* (2011). To investigate the “relationships” building block, we adapted the scales used by Machado *et al.* (2016) and Hudson *et al.* (2016). For the “reputation” building block, we created a scale on the basis of the “reputation” functional building block of SM of Kietzmann *et al.* (2011). Finally, to study the “groups” building block, we adapted the scales used by Machado *et al.* (2016) and Hudson *et al.* (2016) in their research.

Statistical procedures. One-way analysis of variance (ANOVA). We wished to discover if the age group of participants affected the seven different building blocks of SM (identity, conversations, sharing, presence, relationships, reputation and groups). One-way ANOVA can be used when there is a quantitative outcome with a categorical explanatory variable that has two or more levels.

In analysing the results, we verified that there is a statistically significant effect of the participants' age on the level of perception of importance of the block $F(4, 200) = 0.614, p > 0.05$, and there is a statistically significant effect of the participants' age on the conversations block $(F(4, 200) = 3.28, p < 0.05)$, the block “sharing” $(F(4, 200) = 3.17, p < 0.05)$ and the “presence” block $(F(4, 200) = 3.75, p < 0.05)$. However, there is no statistically significant effect of age on identity, relationships, reputation or the “groups” block. The Bonferroni correction *post hoc* tests revealed that participants aged 25–34 have a higher perception of the importance of the conversations and sharing blocks compared to participants aged 15–24 ($p < 0.05$).

Table II.
Evolution on
engagement after
five months

	Total followers of Alento's Facebook Fan Page	Total number of fans who interacted with Alento's Facebook Fan Page	Total number of fans who saw any of Alento's Facebook Page's content	Link clicks
September	3,616	596	21,869	138
October	3,630	696	32,959	285
November	3,720	911	44,704	263
December	3,728	785	45,714	313
January	3,781	805	48,526	340
Evolution (%)	4.56	35.07	121.89	146.38

We wished to analyse whether the place of residence of the participants has an effect on the seven different building blocks of SM (identity, conversations, sharing, presence, relationships, reputation and groups). The exploratory data analysis (AED) revealed that the assumption of normality (Kolmogorov–Smirnov and Shapiro–Wilk), as well as homogeneity (Levene Statistic), is guaranteed. The results of ANOVA confirm that there is a statistically significant effect of the residence of participants on the perceptions of importance of the relationships block ($F(8, 196) = 2.09, p < 0.05$) and of the reputation block ($F(8, 196) = 3.11, p < 0.05$). However, there is no statistically significant effect on the identity, conversations, sharing, presence and groups blocks. *Post hoc* tests with Bonferroni correction reveal that participants from Braga have a greater perception of the importance of the “relationships” block compared to participants living in Lisboa, and participants from Porto also have a higher perception of the importance of the “reputation” block compared to participants living in Lisboa.

We analysed whether the time participants spent on Facebook per day had an effect on the seven different building blocks of SM (identity, conversations, sharing, presence, relationships, reputation and groups). The exploratory data analysis (AED) revealed that the assumption of normality (Kolmogorov–Smirnov and Shapiro–Wilk), as well as homogeneity (Levene Statistic), is guaranteed. The ANOVA results confirm that there is a statistically significant effect of the time participants spend per day on Facebook on their perceptions of the importance of the “presence” block ($F(3, 201) = 139.29, p < 0.05$). *Post hoc* tests with Bonferroni revealed that participants who spend more than 2 h a day on Facebook have a greater perception of the importance of the “presence” block compared to those who spend between 1 h and 2 h and between 30 min and 1 h. However, there is no statistically significant effect of the identity, conversations, sharing, relationships, reputation and groups blocks.

We analysed whether the participants’ gender has an effect on the seven different building blocks of SM (identity, conversations, sharing, presence, relationships, reputation and groups). The exploratory data analysis (AED) revealed that the assumption of normality (Kolmogorov–Smirnov and Shapiro–Wilk), as well as homogeneity (Levene Statistic), is guaranteed. The ANOVA results indicate that there is a statistically significant effect of the gender of the participants on the level of perception for “conversations” ($F(1, 203) = 5.64, p < 0.05$) and “relationships” ($F(1, 203) = 7.87, p < 0.05$), and men have a higher average than women. However, there is no statistically significant effect on identity, sharing, presence, reputation and groups.

We summarised these results in Table III.

Phase 5 – reflections

Through our empirical study, we emphasise the importance of some demographic and social aspects. For example, regarding age groups, we concluded that participants aged between 25 and 34 years have a greater perception of the importance of the “conversations” block

	Age	City	Gender	Users that spent more than 2 h on SM per day
Identity				
Conversations	25–34 > 15–24		Men > Women	
Sharing	25–34 > 15–24			
Presence				Heavy users > Others
Relationships		Braga > Lisboa	Men > Women	
Reputation		Porto > Lisboa		
Groups				

Table III.
Summary of user’s
importance results

compared to participants aged between 15 and 24, and in perceptions regarding the “sharing” block, participants who are 25–34-year old give more importance to this component compared to those who are 15–24-year old. Thus, when developing Facebook strategies, Alento must consider these age groups. Place of residence is another demographic factor that Alento should contemplate. Participants from Braga have a greater perception of the importance of the “relationships” block when compared to participants living in Lisboa. Also, participants from Porto have a higher perception of the importance of the “reputation” block compared to participants who live in Lisboa.

Furthermore, participants who spend more than 2 h a day on Facebook have a higher perception of the importance of the “presence” block compared to those who spend less time per day on Facebook. Therefore, Alento should consider this when managing its Facebook page. Finally, the company should also consider the gender of respondents when developing Facebook strategies for the “relationships” and “conversations” blocks.

Final thoughts

The main objective of this research was to provide a solution for a problem raised by Alento, which was to understand how the company should engage with its official Facebook page.

This investigation explored the seven functional building blocks of SM engagement proposed by Kietzmann *et al.* (2011): identity, conversations, sharing, presence, relationships, reputation and groups. We tried to find out which of the functional blocks of SM engagement were more important for Alento’s Facebook Fan Page to understand how the company should engage with it. Other variables were also studied, such as age, residence, time spent on Facebook per day and gender of Alento Facebook fans, to understand their perception of the importance of functional building blocks of Alento’s Facebook engagement.

Consequently, we surveyed among 205 Alento Facebook fans, to explore Alento’s Facebook fans’ habits when using Facebook, to understand the extent to which Alento should focus on some or all of the functional building blocks of Facebook engagement. Results indicated that, contrary to what was expected, the most important functional building blocks for Alento’s Facebook Fan Page’s engagement were “presence”, “identity” and “reputation”. Furthermore, there are some factors that Alento should consider when engaging with its Facebook page, such as the 25–34-age group when developing strategies to increase conversations and sharing. Regarding place of residence, Alento must consider participants from Braga and Porto when developing strategies for relationships and reputation, respectively. Concerning time spent on Facebook per day, participants who spent more than 2 h a day on Facebook had a greater perception of the importance of the presence block compared to those who spent less time on Facebook. Finally, the company should also consider gender when developing strategies for the relationships and conversations functional building blocks of Alento’s Facebook engagement.

In parallel, we analysed some Alento Facebook strategies developed during the period of five months, through statistics available on Facebook. Our results indicated that there was an increase in Alento’s number of followers, interactions, views and fans who clicked on Alento’s Facebook page’s content. Considering the results obtained in our empirical study, we concluded that Alento should focus on the presence, identity and reputation functional building blocks of Facebook engagement. Additionally, Alento must implement Facebook strategies developed between September and January that focussed on these blocks, considering some demographic and social factors.

This study is based on a case study, and its relevance consists of a special case of different kinds of engagement (B2B and B2C, simultaneous), a longer observation based on real data gathered by different means and the direct intervention on the field. This can be relevant to other service companies to get similar results on their own SM.

Facebook is a huge media company and can bring opportunities in terms of earned media and engagement to companies, including the small ones. In Portugal, there is still a total dominance of Facebook, but in the future, other SM, such as Instagram, can capture the audience and be a threat to Facebook or an opportunity to earn more media.

Limitations and suggestions for further research

There were also some limitations related to the sample, since we only obtained 205 responses. Therefore, the second suggestion for future investigations would be to conduct survey among a larger number of people. This study just considered five months after changing procedures. A longer range of time could produce different results. Other studies can focus on other SM, such as Instagram or LinkedIn, including how integrated these platforms are to companies' website. Moreover, criticisms about SM such as privacy and data security issues could be studied as moderators of engagement.

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