What’s in it for me? Enlightening motivation within a  
social network decision-making

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Abstract — This paper addresses the motivations by which  
people engage in social networking, according to the existing  
literature. Understanding these motivations allows firms to set  
processes to explore them, in order to establish and develop a  
decision support social network, supported by social network  
sites. Participating in social networks draws upon the  
interaction of intrinsic and extrinsic factors. On one hand,  
intrinsic factors refer to motivation embedded in the action  
itself (comes within the individual), rather than from external  
rewards such as money or recognition. On the other hand,  
extrinsic factors refer to the motivation coming outside the  
individual. Considering that solutions to problems are expected  
within a decision support social network, some potential  
problems are identified and addressed.

Decision-making; online social network; motivation;  
participation.

I. INTRODUCTION

Online social networks have become extremely popular.  
More than two-thirds of the global online population visit  
and participate in social networks and blogs. In fact, social  
networking and blogging account for nearly 10% of all time  
spent on the Internet, suggesting that online social networks  
have become a fundamental part of the global online  
experience [6] and has introduced a vibrant new research context [9].

Using such online networks, people share photos of  
birthdays, holidays and other experiences ranging from the  
mere everyday happening to the most complex piece of  
mind. These “diaries” reach out for the public interest (or  
maybe just the sole curiosity on other people’s lives). Such  
an interest might just be the trigger to the next evolution of  
decision support systems (a new paradigm, maybe [4]?).

It is common knowledge that family and friends assume,  
and not in rare occasions, a decisive role in individual  
decision-making (choosing a color for a new car, the next  
holiday destination, a gift for the spouse/husband, etc.). The  
weight of such opinions may well match or overcome other  
criteria thought to be more rational or rigorous. This  
situation is not awkward or inexistent in firm management,  
as polls and market studies on costumer habits or opinion-  
based preferences are often incorporated into corporative  
decisions. Therefore, it is easy to assess the existence of  
social networks bounded to firms, bearing potential to  
support decision-making. This perspective grounds in the  
so-called “wisdom of the crowds” [24], supported by social  
network sites.

The decision support social network [3, 5] is an  
information model where people use social network sites  
functionalities, in order to develop decision-making  
processes. It allows different working modes and different  
number of decision agents, ranging from very small to very  
large groups, without any constraint neither on how the  
decision group will organize itself nor on how it will be  
constituted. The idea behind the decision support social  
network is that it remains an ad hoc self-organized structure,  
formed by people who do not have to belong to a specific  
firm, motivated to contribute to problem-solving (whether  
by firm mechanisms or by an independent self-motivation).

This paper reviews the motivations by which people  
engage in social network sites and the ways in which firms  
can make use of such motivations, in order to establish and  
develop a decision support social network, supported by  
social network sites. Some potential problems of decision  
support social networks are identified and suggestions to  
overcome them are put forward. In section 2, a definition of  
social network sites is elaborated, while in section 3 the  
motivations for participation in social networks are exposed.  
In section 4, the constraints of the participation within  
decision support social networks and ways to overcome  
them are presented. In the final section, some conclusions  
are also drawn.

II. SNS DEFINITION

There is not a unique definition for social network sites  
(SNSs). While the term “social software” became a name to  
denote contemporary technology that supports social  
interaction [8], there are many concurrent names for what it  
stands, namely groupware, computer-mediated  
communication software, social computing, just to mention  
a few.

Social software can be loosely defined as software  
which supports, extends, or derives added value from,  
human social behavior – message-boards, musical taste
sharing, photo-sharing, instant messaging, mailing lists, social networking [11]. Due to the panoply of terms is fair to say that social network sites are web-based services, whose nature and nomenclature may vary from site to site. They allow individuals to construct a public or semi-public profile within a bounded system, articulate a list of other users with whom they share a connection, view and traverse their list of connections and those made by others within the system [9] and interact with people in their networks [26].

While boundaries are blurred, most social network sites share a core feature: an individual offers a representation of their selves (a “profile”) to others to peruse, with the intention of contacting or being contacted by others, to share opinions and facts, to meet new friends or dates, find new jobs, receive or provide recommendations, and much more [13]. They are also being used to support the creation of brand communities or for marketing research [21].

According to [17], social network sites can be classified by the cross-over of social presence/media richness and self-presentation/self-disclosure (see Table 1).

Table 1: social presence/media richness and self-presentation/self-disclosure; Source: [17].

<table>
<thead>
<tr>
<th>Self-presentation/Self-disclosure</th>
<th>Social presence/Media richness</th>
<th>High</th>
<th>Medium</th>
<th>Low</th>
</tr>
</thead>
<tbody>
<tr>
<td>High</td>
<td>Blogs</td>
<td></td>
<td>Social networking sites (e.g., Facebook)</td>
<td>Virtual social worlds (e.g., Second Life)</td>
</tr>
<tr>
<td>Low</td>
<td>Collaborative projects (e.g., Wikipedia)</td>
<td>Content communities (e.g., YouTube)</td>
<td>Virtual game worlds (e.g., World of Warcraft)</td>
<td></td>
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</tbody>
</table>

[18] stand that SNSs are built on seven functional blocks (see Figure 1), namely: identity, conversations, sharing, presence, relationships, reputation and groups. The authors, however, do not stand that the building blocks are mutually exclusive, nor do they all have to be present in a social media activity.

The identity represents the extent to which users reveal their identities in a social media setting (name, age, gender, profession, location, and information that portray users in certain ways), bearing privacy concerns as well.

Conversations represent the extent to which users communicate with other users in a social media setting. These postings can be rich and useful, but not necessarily connected to a greater social media exchange on the same subject. Firms often need tools and capabilities that allow them to combine the information in order to produce an overall image or message.

Sharing represents the extent to which users exchange, distribute, and receive content as well as the implied reasons why they meet online and associate with each other and the mapping of users’ connectivity, across their entire social network.

Presence represents the extent to which users can know if other users are accessible. The implication of 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. Another direct implication of presence is that it is linked to the traits of other functional blocks, including conversations and relationships.

Figure 1: The honeycomb of Social Media; Source: [18]

Relationships represent the extent to which users can be related to other users, by some form of association that leads them to converse, share objects of sociality, meet up, or simply just list each other as a friend or fan. Research shows that the denser and larger a user’s portfolio of relationships is, and the more central his or her position in the portfolio, the more likely that user is to be an influential member in their network. Firms seeking to engage with their users must understand how they can maintain or build relationships, or both.

Reputation is the extent to which users can identify the standing of others, including themselves, in a social media setting. In most cases, reputation is a matter of trust and has significant implications for how firms should effectively engage social media. If firms and users value their reputations and those of other users, then a metric must be chosen to provide this information. For a firm, this means that the engagement needs of its community should inform the choice of the reputation system. Once a firm has identified appropriate metrics for the reputation of its community’s social media engagement, the appropriate evaluation tool must be chosen. This could be based on either objective data (e.g., the number of views or followers) or collective intelligence of the crowd (e.g., a rating system).

Groups represent the extent to which users can form communities and sub communities. Two major types of groups exist. Firstly, individuals can sort through their contacts and place their “buddies”, friends, followers, or fans into different self-created groups. Secondly, groups
online can be analogous to clubs in the offline world: open to anyone, closed (approval required), or secret (by invitation only).

A firm would benefit from studying the groups within the community and their engagement with the other building blocks.

III. PARTICIPATING IN SOCIAL NETWORKS

According to [29], three intertwined levels influence the type of interactions and motivation of people when engaged in social network participation: communities of practice; networks of practice and electronic networks of practice.

A community of practice consists of a group (usually small) engaged in joint sense-making and problem solving, where people know each other and work together, communicate, and coordinate with each other directly. In contrast, networks of practice consist of a larger, geographically distributed group of individuals engaged in a shared practice, whose members may not know each other nor necessarily expect to meet face-to-face, though being able to share a great deal of knowledge. Networks of practice often coordinate through third parties such as professional associations, or exchange knowledge through conferences and publications such as specialized newsletters. Electronic networks are self-organizing, an open activity system focused on a shared practice that exists primarily through computer-mediated communication. The term open activity denotes that participation is open to individuals interested in the shared practice, and mutually willing to engage mutually with others in order to solve problems common to the practice.

[29] also state that in electronic networks, because participation is open and voluntary, participants are typically strangers. Knowledge seekers have no control over who responds to their questions or the quality of the responses. Knowledge contributors have no assurances that those they are helping will ever return the favor, and lurkers may draw upon the knowledge of others without contributing anything in return. This sharply contrasts with traditional communities of practice and face-to-face knowledge exchanges where people typically know one another and interacts over time, creating expectations of obligation and reciprocity that are enforceable through social sanctions.

[19] suggests that a person is motivated to contribute valuable information to the group in the expectation that one will receive useful help and information in return. Indeed, there is evidence that active participants in online communities get more responses faster to questions than unknown participants. He identifies three major reasons for why people actively participate in online communities. The first one, anticipated reciprocity, happens when a user is motivated to contribute to the community in the expectation that he will receive useful help and information in return. The second, increased recognition state that individuals want recognition for their contributions, knowing that the desire for prestige is one of the key motivations for individuals’ contributions in an online community. Finally, the sense of efficacy stands that individuals may contribute because the act results in a sense that they have had some effect on the community.

In “The Social Mind” research project at the Society of New Communications Research (SNCR http://sncr.org/) the questions “what drives people to participate in social networks and online communities?” and “what do they hope to get out of the experience?” were analyzed. This was done by means of a survey of more than 400 persons, mostly professional and highly educated people in North America, who actively participate in social media networks. The project results evidence that social media networks have evolved into trusted expert communities that are testing the trust that people have in more traditional news and information sources and nearly 65% of the sample base indicated that social and professional networks are more trustworthy than traditional news and information aggregators are. Additionally, the study shows that nearly 80% of the respondents participate in online groups to help others, by sharing information and experiences, and that 66% participate in a professional community to belong to a group of colleagues and peers, though other motivations were also expressed (see Figure 3).
However, why individuals help strangers in these electronic networks is not well understood. In a previous study, however, [29] demonstrated a weak evidence that online social network users enjoy helping other users as a motivation for participating in online groups. Other factors (social rewards) such as centrality and tenure within the network and especially reputation were deemed more important. This suggests that one potential way an individual can benefit from active participation, even in the absence of personal acquaintance, is the perception that participation enhances his or her personal reputation (status) within the network. This is consonant with the case of other online environments, as it has been shown that reputation is a common motivation for participation [10].

Theories about participation can be grouped into three high level categories: what a user sees other users doing (social learning), effects that other users have on the newcomer (feedback), and the general structure of content and exposure achieved through participation (distribution) [10]. For open-source software, competitive motivations in the form of reputation and status attainment have been cited as a primary incentive for continued participation [15] and bloggers cite the intent to affect their professional reputation as being among their top motivations for blogging [22]. In both of these cases, the distribution of attention received by the author is important. This suggests that one potential way an individual can benefit from active participation, even in the absence of personal acquaintance, is the perception that participation enhances his or her personal reputation (status) within the network. This is consonant with the case of other online environments, as it has been shown that reputation is a common motivation for participation [10].

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### IV. WHAT’S IN IT FOR ME? MOTIVATING PARTICIPATION.

Knowledge contribution in an electronic network of practice primarily occurs when individuals are motivated to access the network, review the questions posted, choose those they are able and willing to answer, and take the time and effort to formulate and post a response [29]. Nevertheless, as a solution to a certain problem is expected within a decision support social network, some potential problems need to be dealt with.

| Help others by sharing information, ideas & experiences | 78% |
| Participate in a professional community of colleagues & peers | 66% |
| Belong to an active community of friends & family | 41% |
| I want to be seen as someone knowledgeable | 39% |
| I am a passive participant & prefer to observe others dialog | 31% |
| Persuade others adopt my POL buy product/service | 19% |
| Enjoy interacting using social games | 3% |

**Question:** Why do you participate in groups and communities online? Select the top three responses.

**A. The “kindness” of strangers**

Within a decision support social network, the referred willingness to contribute should not be left astray or, otherwise, decision processes might be scattered in focus, hindering decision-making opportunity. In order to be useful to organizations, by taking advantage of the “wisdom of the crowds”, the decision support social network needs to encompass enough people (see [10] for a discussion on this issue concerning generic social networks). However, most organizations do not possess all required knowledge within their formal boundaries and might benefit from external network connections because they gain access to new information, expertise, and ideas not available locally, while interacting informally, free from the constraints of hierarchy and local rules. Even though the employing organizations may be direct competitors, informal and reciprocal knowledge exchanges between individuals are valued and sustained over time, because the sharing of knowledge is an important aspect of being a member of a technological community [7, 27]. The problem here is that the availability of electronic communication technologies is no guarantee that knowledge sharing will actually take place [1, 25] and, therefore, the decision support social network could be dependent of the mere willingness or “kindness” of users to participate.

Creating and maintaining a core of centralized individuals is of adamant importance to overcome the problem. These individuals, should possess experience in the practice by using extrinsic motivators such as enhanced reputation to actively promote contributions and sustaining the network [29]. This core of individuals primarily built upon internal human resources, can be engaged in different types of incentives to participation, besides social rewards (personal satisfaction, reputation, feeling of belonging, tenure within the network, etc.), namely through economic incentives or career enhancements [23].

To help generating a critical mass, managers should target individuals with longer tenure and more experience in the practice. Another method to promote individual participation in the critical mass is to develop techniques that help to build an individual’s reputation in the profession. For example, it could be helpful to assign status to individuals and make this status visible. Individual reputations may become more salient when managers build bridges between physical and virtual networks, finding ways to spread reputations developed online to the profession as a whole and motivating individuals, by gaining status and recognition in this way, to participate more in electronic networks of practice [16, 29].

**B. Time is of the essence**

A decision made out of time is generally a bad decision. When it comes to decision-making, timely decisions are of the essence. As in any problem within a decision support social network, management should set a foreseeable time for solving a problem, i.e., disseminating the problem in hand throughout the network, gathering enough people around it and performing the decision process until a solution is attained. Within a decision support social
network, management opportunities for decision are, therefore, closely tied to the speed of the process, meaning that problems (or types of problems), people and decision processes need an adequate time framework to unveil.

To address this problem it is necessary; an information cascade, where messages spread throughout the network; that the information spreads quickly, aided by the affordances of social network platforms; and that the process enables a broad reach by bridging multiple networks. The sum of these characteristics provides us nonetheless than the definition of viral information.

A viral information event creates a temporally bound, self-organized, interest network in which membership is based on an interest in the information content or in belonging to the interest network of others [14]. In the case of decision support social networks, management should focus on spreading the information about the decision problem quickly and widely, making it a viral event.

However, how exactly is this done? Once again, managers should target individuals with longer tenure and more experience in the practice to generate a critical mass of people, responsible for pushing the information, at least in the early stage of its propagation. It is known that if individuals are scattered throughout the network, then the information is unlikely to diffuse. If, on the other hand, they are close together, then information has an increased chance for propagation [20]. Therefore, the critical mass plays an important role in gathering and bringing closer external individuals.

According to [14], to go viral, events are subject to two decisions by individuals in a social media network. The first is whether to watch/read the message and the second is whether to forward a viewed message. Each person who participates in a viral event has effectively voted on the content twice through his or her duel decisions, so that the resulting event has been deemed relevant and worth spreading in some way. Repeated viral events filtered in this way may result in the formation of interest networks that will grow or decay based on the accumulated social capital within the interest network. Over time, the interest networks initiated (or reinforced) by the viral event may evolve into more stable communities of practice.

C. Language and electronic literacy

As a major new means of global communication, the Internet is bound to have a great impact on language use. When discussing a problem within a large or expanding online network of people, there is the need to ensure that a common language is used or, otherwise, linguistic barriers may occur. Participation will be likely hindered if people are not comfortable in expressing themselves using a certain language. In the extreme case, participation will not even take place if people do not know the used language.

If the idea is to promote participation and information propagation, then language selection should not be a trivial issue.

The use of a specific language can inhibit or promote participation and, consequently, the network expansion might be tied to this matter. To broad the network, the use of English language (even if it is bad English) seems proper for developing the network to its full extent, as English remains a dominant force within certain Internet realms. A study conducted by the Organization for Economic Cooperation and Development found that while some 78% of Web sites in OECD countries were in English, 91% of Web sites on “secure-servers” were in English, and a fully 96% of Web sites on secure servers in the .com domain were in English [28].

The solution for this problem is twofold. Firstly, it relies outside management boundaries. The use of automated translation mechanisms (some browsers already integrate such features) might ease the problem, although users need to be informed that automatic translation is not perfect and translation mistakes are often made. Secondly, if management knows the knowledge sources that it is trying to reach, the discussion language should be the one of such knowledge sources. If management is not aware of the whereabouts of the knowledge resources, the language selection should be the one with a broader scope, namely English.

D. Confidentiality boundaries

On one hand, when a decision support social network is only built upon internal human resources, the confidentiality expectation around problem solving is naturally bounded by corporate confidentiality agreements (implicit or explicit). On the other hand, if external human resources are implied in the process of problem solving or idea discussion, the ability for controlling the level of confidentiality is likely to be diluted.

As internal and external human resources do not share the same set of motivation factors, it is not likely that they abide to confidentiality concerns in same way. Therefore, firms should be aware that open forums, are able to gather a larger amount of knowledge on a specific problem, but this is done at the expense of confidentiality loss. As a result, management should weight, beforehand, the importance of expanding the network outside the boundaries of the firm with the loss of control over confidentiality, thus expanding or restricting the network (using adequate profiles, for instance) accordingly to its needs.

V. CONCLUSION

The motivations for people to engage in social network sites were reviewed. There are extrinsic and intrinsic factors. People contribute to social networks when they understand that it enhances their reputation and recognition and to some extent because they feel it is enjoyable to help others.

The participation or contribution of people engaged in social networking is not without problems. Considering that a solution to a certain problem is expected within a decision support social network, some potential problems may arise: the network can be dependent of the mere willingness or “kindness” of users to participate; decisions can emerge out
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