Do Social Network Sites Enhance or Undermine Subjective Well-Being? A Critical Review

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Social network sites are ubiquitous and now constitute a common tool people use to interact with one another in daily life. Here we review the consequences of interacting with social network sites for subjective well-being—that is, how people feel moment-to-moment and how satisfied they are with their lives. We begin by clarifying the constructs that we focus on in this review: social network sites and subjective well-being. Next, we review the literature that explains how these constructs are related. This research reveals: (a) negative relationships between passively using social network sites and subjective well-being, and (b) positive relationships between actively using social network sites and subjective well-being, with the former relationship being more robust than the latter. Specifically, passively using social network sites provokes social comparisons and envy, which have negative downstream consequences for subjective well-being. In contrast, when active usage of social network sites predicts subjective well-being, it seems to do so by creating social capital and stimulating feelings of social connectedness. We conclude by discussing the policy implications of this work.

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Introduction

Social media are rapidly changing the way people interact. A defining feature of these internet-based applications is that they allow for the creation and exchange of user-generated content (Kaplan & Haenlein, 2010). Typical examples of such content are blog posts, Wikipedia entries, Facebook messages and YouTube videos. These illustrations also reflect the fact that “social media” is a broad term that encompasses a range of communication channels.

Among the most widespread social media sites are so-called social network sites. These sites enable users to connect with others by creating personal information profiles and inviting others to have access to their profiles and messages. Examples of popular social network sites are Facebook, Twitter, Instagram, and LinkedIn. Social network sites differ in the purposes they serve (e.g., LinkedIn and Facebook are mainly used for professional and leisure purposes, respectively) and their dominant mode of communication (e.g., Twitter and Instagram are centered around text-based and image-based messages, respectively). People spend a significant amount of time on these platforms. Mark Zuckerberg, Facebook’s chief executive, recently revealed that users around the world spend on average 50 minutes using Facebook and Instagram combined each day (Stewart, 2016).

The enormous amount of time that people invest in using these sites raises the question: What are the consequences of interacting with social network sites for people’s subjective well-being—that is, how people feel moment to moment and how satisfied they are with their lives? Many people around the world pursue happiness as a basic life goal (Tay, Kuykendall, & Diener, 2015), and subjective well-being predicts a range of consequential benefits, including enhanced health and longevity (Boehm, Peterson, & Kubzansky, 2011; Diener & Chan, 2011; Steptoe & Wardle, 2011). As such, identifying how frequent usage of social network sites impact subjective well-being represents a basic question for social scientists to address, the answer to which has potentially important policy implications.

Here we address this issue by reviewing the current state of the literature surrounding how usage of social network sites influences subjective well-being. Our review is organized into five sections. First, we clarify the scope of our review, identifying the criteria we used to include and exclude studies. Next, we clarify the two concepts that constitute the focus of this article—social network sites and subjective well-being. We then review research examining how social network sites affect subjective well-being and discuss the mechanisms underlying their influence. Finally, we end by discussing the policy implication of this work.
Clarifying Scope

Over the past decade a substantial amount of research has examined the role that Internet activity in general, and usage of social network sites in particular, plays in influencing a wide array of socioemotional outcome variables. Thus, before proceeding we clarify the scope of our review by identifying the variables of interest.

Social Network Sites

Studies examining the impact of overall internet usage on subjective well-being are not included here, as categorizing all internet activities (including social network usage) into one overarching category is considered suboptimal (Bessière, Kiesler, Kraut, & Boneva, 2008; Burke, Kraut, & Marlow, 2011). Studies assessing the impact of specific social network site behaviors such as cyberbullying (e.g., Kwan & Skoric, 2013) or sexual solicitation and harassment (e.g., Ybarra & Mitchell, 2008) are likewise not included as each of these behaviors are governed by specific mechanisms and, hence, require separate treatments. As such, rather than adopting a macro (internet usage) or micro (very specific social network site behaviors) approach, we adopt a meso approach in this article, focusing on studies that assess the impact of overall social network site usage and broad categories of social network usage patterns (e.g., passive and active ways of using social network sites).

Subjective Well-Being

Studies are included if the dependent variable can be directly subsumed under the construct of subjective well-being (Diener, 1984, 2009; Myers & Diener, 1995). Thus, our review will focus on studies assessing the impact of usage of social network sites on life satisfaction (i.e., the “cognitive” component of subjective well-being) or how good or bad people feel (i.e., the “affective” component of subjective well-being) including symptoms of affective disorders in the subclinical domain.

Healthy Participants

In this article, we will review studies assessing the relationship between social network site usage and subjective well-being in healthy participants. As such, the present review does not directly speak to the relationship between social network usage and the development or recovery from psychopathologies such as depression or other mental disorders (see e.g., Brusilovsky, Townley, Sneath, & Salzer, 2016; Park et al., 2016). Neither will we review studies on pathological usage of
social network sites such as social network site addiction (see e.g., Andreassen & Pallesen, 2014).

**Features of the Constructs**

**Social Network Sites**

Social network sites are generally defined by three elements. First, users have a personal profile. On most contemporary social network sites, these profiles do not merely contain static self-descriptive information but are continuously changing as a result of updated content provided by the user (e.g., status updates describing what one is currently doing or thinking about), by others (e.g., pictures of the user attending an event of another user), or by the system (e.g., activities on third-party sites). A second key feature is that publicly visible lists of connections are shown. These lists represent users’ online social network, which refers to the collection of social relations of varying strengths and importance that a person maintains. Finally, rather than surfing from profile to profile to discover updated content, most social network sites are organized around a stream of frequently updated content (e.g., Facebook’s News Feed), which is primarily populated by posts from one’s connections (Ellison & Boyd, 2013).

Use of social network sites has boomed during the last decade. According to the Pew Internet and American Life Project, which tracks Internet use trends over time, 65% of all American adults use social network sites as of 2015. This is nearly a 10-fold jump compared to 10 years ago (Perrin, 2015). These numbers do not only represent young adults. Posting messages on Facebook or Twitter has become part of everyday life for older adults as well. Indeed, whereas 90% of people between the ages of 18 and 29 currently use social network sites, those aged between 30 and 49 (77%) and 50 and 64 (51%) are rapidly catching up. People aged 65 and older also are increasingly attracted to social network sites: In 2005, 2% of seniors used social network sites, compared with 35% today (Perrin, 2015).

The social network landscape is inhabited by many different sites (e.g., Facebook, Instagram, Twitter, and LinkedIn), and each tries to attract as many users as possible. With 1.65 billion active monthly users, Facebook is currently the most popular social network site (Facebook, 2016b). However, several other social network sites have a large number of members as well. For example, 400 million people log in at least once a month to their Instagram accounts (Instagram, 2016), and Twitter and LinkedIn have 310 million (Twitter, 2016) and 106 million (LinkedIn, 2016) monthly active users, respectively.

Users spend on average 50 minutes each day interacting on Facebook and Instagram combined (Stewart, 2016). This is more than the amount of time people spend engaging in sports (17 minutes) or even socializing directly with others.
(e.g., visiting friends, attending or hosting events—43 minutes). It is only somewhat less compared to the amount of time people spend eating (64 minutes) (Bureau of Labor Statistics, 2014).

What motivates people to spend so much time interacting on Facebook and similar platforms? Most people report that they do so in order to stay in touch with family and friends (Joinson, 2008). Other reasons people report include (a) connecting with old friends with whom one has lost contact, (b) connecting with others with shared hobbies or interests, (c) making new friends, (d) following celebrities, and (e) finding romantic partners (Smith, 2011). Clearly, people have many reasons for using social network sites. However, does time spent interacting with these social network sites influence subjective well-being? Before addressing this question, it is important to clarify what we mean when we use this term.

**Subjective Well-Being**

Subjective well-being as a concept refers to how people evaluate their life (Diener, 2009). It entails both cognitive judgments of satisfaction (i.e., cognitive subjective well-being) and affective evaluations of ones’ mood and emotions (i.e., affective subjective well-being) (Diener, 1984) with high levels of subjective well-being being characterized by frequent positive affect, infrequent negative affect, and a global sense of satisfaction with life (Myers & Diener, 1995). When reviewing studies on subjective well-being in this article, we use the prefix “affective” or “cognitive” depending on how subjective well-being was measured.

Subjective well-being is generally considered to be an important, if not the most important, goal that individuals seek throughout their lives (Tay et al., 2015). For example, in a large study across 41 countries participants reported that subjective well-being is “extraordinarily important and valuable” to them (Diener, Sapyta, & Suh, 1998). Consistent with these findings, results from other studies indicate that people view subjective well-being as more important in judging quality of life than either wealth or moral goodness (Diener, 2000; King & Napa, 1998). Overall, these studies demonstrate that experiencing high levels of subjective well-being is, for most people, an end in itself. It thus represents a potentially important policy issue given the goal of policy makers to create circumstances that allow people to fulfill their aims (Bartolini, Bilancini, Bruni, & Porta, 2016; Layard, 2006).

In addition to having intrinsic value, subjective well-being is also beneficial to a wide range of valued outcomes including objective indicators of well-being (Tay et al., 2015). In particular, there is a large amount of evidence showing that subjective well-being leads to enhanced health and longevity (Boehm et al., 2011; Diener & Chan, 2011; Steptoe & Wardle, 2011). Moreover, subjective well-being improves social relationships; it promotes marital satisfaction, sociability, and prosocial behaviors, among others (Lyubomirsky, King, & Diener, 2005).
Subjective well-being also has consequences for productivity and success, including future income levels (Diener, Nickerson, Lucas, & Sandvik, 2002). Thus, policy measures that target subjective well-being may have additional downstream implications for these other policy-relevant variables as well.

Importantly, despite studies indicating that subjective well-being has a genetic basis, we now also know that it can be modified. In particular, whereas genetics account for 50% of variation among people in subjective well-being, life circumstances (10%), and intentional activities (40%) are responsible for the other half (Lyubomirsky, Sheldon, & Schkade, 2005). This suggests that there is ample room for policy makers to enhance people’s subjective well-being.

A growing number of people spend an increasing amount of time on social network sites. Therefore, policy makers have a unique opportunity to enhance subjective well-being by encouraging people towards adaptively interacting with these sites. In the next section we review what is currently known about the relationship between use of social network sites and subjective well-being to inform potential policy.

**Social Network Sites and Subjective Well-Being: Charting the Relationship**

This section is divided into two parts. First, we discuss early empirical studies on overall social network usage and subjective well-being. This encompasses studies that assess time spent on social network sites without specifying how people interact with such sites when they are on them, as well as studies that calculate an overall social network usage index by aggregating across several ways that people use such sites (e.g., visiting profiles, posting messages or pictures). Second, we review more recent studies that examine the relationship between different forms of social network usage (i.e., active usage vs. passive usage) and subjective well-being, which presents a more granular approach.

The predictor or independent variable in most of the reviewed studies is Facebook usage. This is due to Facebook being the most popular social network site worldwide. Whenever findings pertain to another social network site, this will be explicitly noted. The outcome or dependent variable of interest is subjective well-being (see Table 1 for an overview of the reviewed studies).

**Overall Usage of Social Network Sites and Subjective Well-Being**

In this section, we organize our discussion of these findings around the designs used to collect them—that is, cross-sectional, longitudinal, or experimental designs. We describe work employing experimental and longitudinal frameworks in the most detail because they provide stronger designs than cross-sectional studies, which do not permit one to separate cause from effect (in contrast to experimental
studies), or draw inferences about the short- and long-term consequences of social network usage (in contrast to longitudinal studies).

**Cross-sectional designs.** Several cross-sectional studies have revealed a positive relationship between subjective well-being and overall usage of Facebook (Valenzuela, Park, & Kee, 2009), Instagram (Pittman & Reich, 2016), and Tuenti, which is a Spanish social network site (Apaolaza, Hartmann, Medina, Barrutia, & Echebarria, 2013). However, a number of other cross-sectional studies show an opposite pattern of results (Farahani, Kazemi, Aghamohamadi, Bakhtiarvand, & Ansari, 2011; Labrague, 2014; Lin et al., 2016; Pantic et al., 2012; Sampasakanyinga & Lewis, 2015). Other authors argue that the relationship between social network site usage and subjective well-being is more nuanced. For example, Rae and Lonborg (2015) found that Facebook usage was associated with high levels of subjective well-being among users who accessed Facebook to maintain existing relationship (e.g., keeping in touch with current friends) but was negatively associated with subjective well-being among those who accessed Facebook to create new relationships (e.g., making new friends). Valkenburg, Peter, and Schouten (2006) found in a study on CU2, a Dutch social network site, that the feedback one receives from their social connections moderates the relationship between these variables—adolescents who received predominantly positive (negative) feedback reported increases (decreases) in subjective well-being when using the social network site.

**Longitudinal designs.** To better understand cause and effect in these patterns of results, Kross et al. (2013) asked people to report several times a day (for a 2-week period) how much they used Facebook and how they felt. They found that Facebook usage predicted decreases in affective subjective well-being over time such that participants felt 8% worse when they engaged Facebook usage “a lot” during the time period between any two affect assessments compared to when they did not use Facebook at all. In contrast, affective subjective well-being did not predict subsequent changes in Facebook usage. This implies that usage of Facebook was more likely to influence subjective well-being rather than the other way around. Moreover, mean levels of Facebook usage during the 2-week study period also predicted declines in cognitive subjective well-being across the study period. These relationships were not moderated by size of people’s Facebook networks, their perceived supportiveness, motivation for using Facebook, gender, loneliness, self-esteem, or depression. Compared to the cross-sectional studies reviewed above, this longitudinal study constituted a major step forward as it provided evidence on the likely causal sequence underlying the relationship between social network sites and subjective well-being.

**Experimental designs.** Sagioglou and Greitemeyer (2014) assigned participants to either a Facebook use condition (i.e., spending 20 minutes on Facebook),
an Internet use condition (i.e., spending 20 minutes browsing the internet without using social network sites), or a control condition (i.e., immediately completing the postmanipulation questionnaires). Participants in the Facebook use condition reported lower levels of affective subjective well-being compared to the other two conditions.

Recently, in a large scale study ($n = 1,095$), researchers of the Happiness Research Institute in Denmark further tested whether Facebook use influences subjective well-being (Tromholt, Marie, Andsbjerg, & Wiking, 2015). After evaluating their lives on several dimensions, half of the participants were allocated to a treatment condition (i.e., do not use Facebook for an entire week), whereas the other half were allocated to a control condition (i.e., continue to use Facebook as usual). One week later participants evaluated their lives again. After 1 week without Facebook, the treatment group reported significantly higher levels of affective and cognitive subjective well-being.

**Conclusions.** Initial cross-sectional studies on the relationship between overall usage of social network sites and subjective well-being resulted in a mixed pattern of findings. The pattern has become clearer, however, when stronger research designs started to be used. In particular, Kross et al. (2013) were the first to study changes in both Facebook usage and subjective well-being over time and found that Facebook usage predicted declines in both affective and cognitive subjective well-being. Subsequent experimental studies confirmed that overall usage of social network sites negatively impacts subjective well-being. In the next section, we add nuance to this conclusion, however, by making a distinction between different types of social network site usage.

**Specific Types of Usage of Social Network Sites and Subjective Well-Being**

Most social network sites allow for a range of activities. These activities can be broadly classified into two categories: active and passive usage (Burke, Marlow, & Lento, 2010; Deters & Mehl, 2013; Krasnova, Wenninger, Widjaja, & Buxmann, 2013; Verduyn et al., 2015).

Active usage refers to activities that facilitate direct exchanges with other(s). It encompasses both targeted one-on-one exchanges (i.e., directed communication, Burke et al., 2011) as well as nontargeted exchanges (i.e., broadcasting, Burke et al., 2011). During active usage of social network sites information is often produced, as when posting a status update, sharing links, or sending private messages on Facebook. The term can also be applied to other social network sites. For example, Tweeting (i.e., posting a short message) or uploading a picture could be considered active ways of using Twitter and Instagram, respectively.

Passive usage refers to the monitoring of other people’s lives without engaging in direct exchanges with others. During passive usage of social network sites,
information is typically consumed without communicating with the owner of the content. Typical examples of passive usage on Facebook are scrolling through news feeds or looking at other users’ profiles, pictures, and status updates. Again, the term can also be applied to other social network sites. For example, reading Tweets or looking at Instagram pictures represent passive ways of interacting on those platforms.

Importantly, active and passive usage of social network sites are associated with different subjective well-being outcomes. Below we review relevant empirical studies, again making a distinction between cross-sectional, longitudinal and experimental studies.

Cross-sectional designs. Several cross-sectional studies have linked the passive usage of social network sites with reduced levels of subjective well-being (Krasnova et al., 2015, 2013; Shaw, Timpano, Tran, & Joormann, 2015; Tandoc, Ferrucci, & Duffy, 2015). In contrast, self-disclosure on Facebook (i.e., active Facebook usage) has been found to correlate positively with subjective well-being (Kim & Lee, 2011; Kim, Chung, & Ahn, 2013; Lee, Lee, & Kwon, 2011; Wang, 2013). Two recent studies provided evidence for moderation by gender, with female Facebook users especially benefiting from active Facebook use possibly due to female users being more socially skilled and less involved in negative online interactions than their male counterparts (Frison & Eggermont, 2015a; Simoncic, Kuhlman, Vargas, Houchins, & Lopez-duran, 2014).

Longitudinal studies. More recently, researchers have begun to use longitudinal designs to examine the impact of active and passive usage of social network sites on subjective well-being. In one diary study, active Facebook use was found to be positively related to life satisfaction, whereas the opposite was observed for passive Facebook use (Wenninger, Krasnova, & Buxmann, 2014). However, it should be noted that in this study only Facebook usage was repeatedly assessed. Thus these findings do not speak to whether different types of social network usage predicted changes in subjective well-being over time. In an experience sampling study (Verduyn et al., 2015), active Facebook usage was not found to be related to changes in affective or cognitive subjective well-being. In contrast, passive Facebook usage predicted declines in affective subjective well-being over time. As in prior work, this relationship was not moderated by participants’ number of Facebook friends, their perceptions of Facebook network support, depressive symptoms, loneliness, gender, self-esteem, or their motivations for using Facebook. Specifically, participants felt 5% worse when they engaged in passive Facebook usage “a lot” during the time period separating any two affect assessments compared to when they did not use Facebook passively at all. The reverse relationship (i.e., affective subjective well-being predicting changes in passive Facebook use over time) was not significant. Passive Facebook usage was not, however, related
to changes in cognitive subjective well-being. Finally, in a two-wave panel study (Frison & Eggermont, 2015b), it was found that active (passive) Facebook usage was related to increases (decreases) in affective subjective well-being.

*Experimental designs.* Verduyn et al. (2015) used an experimental design to contrast the effects of active and passive Facebook usage on subjective well-being. Half of the participants were instructed to use Facebook actively in the lab for 10 minutes. The other half were told to use Facebook passively for 10 minutes. Immediately after the manipulation, no difference in affective subjective well-being between the two conditions was observed. However, at the end of the day, participants in the passive Facebook condition reported lower levels of affective subjective well-being compared to how they felt immediately before and after the manipulation as well as compared to the active Facebook condition. The manipulation was not found to impact cognitive subjective well-being. In another experimental study, passive Facebook usage was contrasted with visiting a control website (Fardouly, Diedrichs, Vartanian, & Halliwell, 2015). Participants who were instructed to spend time on Facebook reported being in a more negative mood than those who spent time on the control website.

*Conclusion.* Compared to research assessing overall levels of social network usage, studies on the relationship between types of social network usage and subjective well-being provide a clearer picture. One can conclude that passive usage is associated with low levels of subjective well-being even though more longitudinal and experimental studies are needed to determine the size of this effect. The relationship between active usage of social network sites and subjective well-being is more tenuous, with most but not all studies reporting a positive relationship. In this vein, it is important to note that passive usage of social network sites is more frequent than active usage, at least on Facebook (Constine, 2012; Pempek, Yermolayeva, & Calvert, 2009; Verduyn et al., 2015). For example, one study (Verduyn et al., 2015) found that participants used Facebook passively about 50% more than they used it actively. As such, passive Facebook usage may underlie the observed negative association between overall measures of time spent on Facebook and subjective well-being (Krasnova et al., 2015; Verduyn et al., 2015).

**Social Network Sites and Subjective Well-Being: Explaining the Relationship**

In this section, we review what is currently known about the mechanisms underlying the effects of social network site usage on subjective well-being focusing specifically on the role that social capital and social comparisons play in mediating the above described effects. This does not imply that these are the
Fig. 1. The relation between social network sites and subjective well-being. Active usage of social network sites increases social capital and feelings of connectedness (path A1), which, in turn, positively impact subjective well-being (path B1). Passive usage of social network sites stimulates upward social comparisons and envy (path A2), which, in turn, negatively impact subjective well-being (path B2).

only mechanisms that account for the relationship between social network sites and subjective well-being. Other mechanisms that have been proposed include the perception of having wasted time (Sagioglou & Greitemeyer, 2014), brooding or worrying (Shaw et al., 2015), and information overload (Koroleva, Krasnova, & Günther, 2010). However, in contrast to social capital and social comparisons, these other mechanisms have not been frequently studied and, consequently, their possible mediating role in the relationship between social network sites and subjective well-being is not yet equally well established.

For each of the proposed mediators we first briefly describe the wide range of studies that confirm their significant effects on people’s subjective well-being (see Figure 1, path B1 and B2 of the mediation model). Next, we discuss at a theoretical and empirical level how different ways of using social network sites influence these proposed mediators (see Figure 1, path A1 and A2 of the mediation model). Finally, we review empirical studies that directly test the full mediation model.

Positive Consequences of Active Usage of Social Network Sites: Social Capital and Connectedness

Social capital and connectedness impact subjective well-being. Humans have a fundamental need to create and maintain interpersonal relationships (Baumeister & Leary, 1995). Therefore, it should come as no surprise that research reveals a robust reciprocal link between subjective well-being and positive social relationships (Myers, 2000). On the one hand, subjective well-being promotes marital satisfaction, sociability, and prosocial behaviors (Lyubomirsky, King, & Diener, 2005). On the other hand, having close friends and a network of social support has positive effects on subjective well-being too, and to such a degree that it has
Table 1. Overview of Reviewed Studies on the Relationship between Social Network Sites and Subjective Well-Being

<table>
<thead>
<tr>
<th>Authors</th>
<th>Year</th>
<th>Design</th>
<th>IV</th>
<th>DV</th>
<th>Relation</th>
<th>IV-measure</th>
<th>DV-measure</th>
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<td>2009</td>
<td>CS</td>
<td>OU</td>
<td>cSWB</td>
<td>+</td>
<td>intensity of FB use</td>
<td>SWL</td>
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<td>Pittmann and Reich</td>
<td>2016</td>
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<td>OU</td>
<td>aSWB</td>
<td>+</td>
<td>time spent on Instagram</td>
<td>happiness</td>
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<td>aSWB</td>
<td>+</td>
<td>time spent on Tuenti</td>
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<td>CS</td>
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<td>aSWB</td>
<td>−</td>
<td>amount of FB use</td>
<td>depression, anxiety and stress (r)</td>
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<td>Labrague</td>
<td>2014</td>
<td>CS</td>
<td>OU</td>
<td>aSWB</td>
<td>−</td>
<td>time spent on FB</td>
<td>depression, anxiety and stress (r)</td>
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<td>Lin et al.</td>
<td>2016</td>
<td>CS</td>
<td>OU</td>
<td>aSWB</td>
<td>−</td>
<td>frequency and time spent on SNS</td>
<td>symptoms of depression (r)</td>
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<tr>
<td>Pantic et al.</td>
<td>2012</td>
<td>CS</td>
<td>OU</td>
<td>aSWB</td>
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<td>time spent on SNS</td>
<td>symptoms of depression (r)</td>
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<td>OU</td>
<td>aSWB</td>
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<td>time spent on SNS</td>
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<td>OU</td>
<td>SWB</td>
<td>mod</td>
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<td>LT</td>
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<td>symptoms of depression (r)</td>
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<th>Authors</th>
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<td>AU</td>
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<td>+</td>
<td>multi-item measure of AU on FB happiness</td>
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<td>Kim, Chung, and Ahn</td>
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<td>CS</td>
<td>AU</td>
<td>aSWB</td>
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<td>multi-item measure of AU on SNS happiness</td>
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<td>aSWB</td>
<td>+</td>
<td>multi-item measure of AU on SNS positive and negative affect</td>
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<td>Wang</td>
<td>2013</td>
<td>CS</td>
<td>AU</td>
<td>cSWB</td>
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<td>multi-item measure of AU on FB SWL</td>
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<tr>
<td>Frison and Eggermont</td>
<td>2015a</td>
<td>CS</td>
<td>AU</td>
<td>aSWB</td>
<td>mod</td>
<td>multi-item measure of AU on FB symptoms of depression (r)</td>
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<td>Simoncic et al</td>
<td>2014</td>
<td>CS</td>
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<td>aSWB</td>
<td>mod</td>
<td>multi-item measure of AU on FB symptoms of depression (r)</td>
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<tr>
<td>Wenninger, Krasnova, and Buxmann</td>
<td>2014</td>
<td>LT</td>
<td>AU</td>
<td>cSWB</td>
<td>+</td>
<td>chatting and posting on FB</td>
<td>SWL</td>
</tr>
<tr>
<td>Verduyn et al. (study 2)</td>
<td>2015</td>
<td>LT</td>
<td>AU</td>
<td>aSWB</td>
<td>n.s.</td>
<td>single-item measure of PU on FB bipolar emotional valence scale</td>
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<tr>
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<td>AU</td>
<td>aSWB</td>
<td>+</td>
<td>multi-item measure of AU on FB symptoms of depression (r)</td>
<td></td>
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<tr>
<td>Verduyn et al. (study 1)</td>
<td>2015</td>
<td>EXP</td>
<td>PU</td>
<td>aSWB</td>
<td>−</td>
<td>passive use vs. active use</td>
<td>bipolar emotional valence scale</td>
</tr>
<tr>
<td>Fardouly et al.</td>
<td>2015</td>
<td>EXP</td>
<td>PU</td>
<td>aSWB</td>
<td>−</td>
<td>browse FB vs. control website</td>
<td>positive and negative affect</td>
</tr>
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</table>

CS = cross-sectional, LT = longitudinal, EXP = experimental, IV = independent variable, OU = overall usage, AU = active usage, PU = passive usage, DV = dependent variable, cSWB = cognitive Subjective Well-Being, aSWB = affective Subjective Well-Being, mod = moderated, n.s. = not significant, FB = Facebook, SNS = Social Network Sites, SWL = satisfaction with life, (r) = reversely related to subjective well-being.
been suggested that social relationships could be the single most important source of subjective well-being (Reis & Gable, 2003). In this vein, a now classic study on happiness demonstrated that every participant who scored high on subjective well-being had excellent social relationships (Diener & Seligman, 2002).

The benefits obtained from one’s social relationships or social network are often referred to by the term “social capital.” Formally, Bourdieu (1985) defined social capital as “the aggregate of the actual or potential resources which are linked to possession of a durable network of more or less institutionalized relationships of mutual acquaintance and recognition” (p. 51). The term social capital tends to be used primarily by sociologists and political scientists, whereas psychologists often refer to a related concept using the term “social support” (Burke et al., 2011).

Two types of social capital have been distinguished: bridging and bonding (Putnam, 2000). Bridging social capital refers to having access to new information, being exposed to diverse perspectives and feeling part of a broader community. This type of social capital is mainly provided by acquaintances or weak-ties. Bonding social capital refers to receiving emotional support, instrumental support and companionship. This type of social capital is largely derived from one’s inner circle of connections (i.e., strong ties) such as close friends and family members. Both bridging and bonding social capital have been found to be positively related to subjective well-being (Ferlander, 2007; Helliwell & Putnam, 2004; Steinfield, Ellison, & Lampe, 2008).

Active usage of social network sites affects social capital and connectedness. Social network sites are aimed at satisfying people’s need to create and establish social relationships. For example, Facebook’s mission is “to give people the power to share and make the world more open and connected. People use Facebook to stay connected with friends and family, to discover what’s going on in the world, and to share and express what matters to them” (Facebook, 2016a).

Compared to offline settings (e.g., face-to-face conversations), social network sites provide unique opportunities for users to increase their social capital (Ellison & Vitak, 2015). In particular, in offline settings people often do not have the time or energy to maintain a large number of weak ties. However, the cost of maintaining relationships on social network sites is comparatively low, and these sites may allow for a strong expansion of one’s social network. This, in turn, may increase access to various resources including novel information and diverse perspectives (Donath & Boyd, 2004; Donath, 2008). Moreover, social network sites have the capacity to change latent ties (i.e., ties that are technically possible but are not yet activated; Haythornthwaite, 2005) into weak or even strong ties. Further, social network sites might help individuals maintain weak or strong ties that would otherwise become extinguished due to an absence of offline interactions (e.g., high school friends who stay in touch on Facebook despite living in different countries). In sum, social network sites seem to be well suited for increasing bridging social
capital by allowing users to maintain large networks of connections and even possibly bonding social capital by allowing users to stay in touch with friends and providing a medium through which support can be sought and provided.

Researchers have examined whether usage of these social network sites indeed increases levels of social capital. In initial studies using cross-sectional designs, positive associations were observed between overall usage of social network sites and social capital (e.g., Ellison, Steinfield, & Lampe, 2007; Steinfield et al., 2008). However, recent studies have revealed that the way people use online social networks matters, not unlike the case for the relationship between usage of social network sites and subjective well-being. These more recent studies are discussed below.

Cross-sectional designs. Active engagement on Facebook has been shown to be negatively related to loneliness (i.e., active usage promotes feeling connected), whereas the opposite holds for passive engagement (Matook, Cummings, & Bala, 2015; Ryan & Xenos, 2011). Similarly, when examining server logs of participants’ activity on Facebook (Burke et al., 2010), active Facebook usage was found to be associated with greater feelings of bonding social capital and lower levels of loneliness. The opposite pattern of results was found for passive Facebook usage. Koroleva, Krasnova, Veltri, and Günther (2011) examined a range of social capital benefits. Both active and passive Facebook usage increased levels of social capital, but the former was related to more social capital outcomes compared to the latter.

Longitudinal designs. Burke et al. (2011) showed that directed communication (i.e., active Facebook usage) predicted increases in bridging social capital. However, neither active nor passive Facebook usage was found to predict changes in bonding social capital. In contrast, in a more recent longitudinal study (Burke & Kraut, 2014), relationship closeness between friends (i.e., bonding social capital) was found to increase with one-on-one communication (i.e., active Facebook usage) as well as through reading friends’ broadcasted content (i.e., passive Facebook usage).

Experimental designs. Deters and Mehl (2013) tested the psychological effects of posting status updates on Facebook. For 1 week, participants in the experimental condition were asked to post more than they usually do. Participants in the control condition received no instructions. Results indicated that the experimentally induced increase in status updating activity increased feelings of social connectedness and reduced loneliness. In another experiment, participants were either instructed to use Facebook as they normally do (post-as-usual condition) or to refrain from using Facebook actively for 2 days (do-not-post condition). Participants in the do-not-post condition were found to report lower levels of belonging (Tobin, Vanman, Verreynne, & Saeri, 2014).
In sum, whereas evidence for passive usage is mixed, studies reveal a positive relationship between active usage of social network sites and social capital. Given the effects that social relationships have on subjective well-being, the positive effect of active usage of social network sites on subjective well-being may be partially due to an increase in social capital and associated feelings of social connectedness.

**Direct tests of the mediation model.** Recently, a number of studies have begun to provide direct evidence for the proposed mediating role of social capital and social connectedness. In a cross-sectional study (Frison & Eggermont, 2015a) data were collected from a large sample of adolescents to explore the relationship between different types of Facebook use, perceived online social support and depressive symptoms. Using structural equation modeling, evidence was obtained that active Facebook use increases perceived online social support, which in turn predicted a decrease in depressive symptoms. It should be noted, however, that this relationship was only found for female participants.

Similarly, Kim and Lee (2011) also conducted a cross-sectional study among college students to explore the relationship between self-presentation (i.e., active usage of social network sites), perceived online support and subjective well-being. Self-presentation was found to have a positive effect on subjective well-being mediated by perceived social support but only when self-presentation was honest. A study by Frison and Eggermont (2015b) established that active Facebook usage positively predicts perceived Facebook support, which in turn predicts a decrease in depressed symptoms at the next assessment.

In sum, the available evidence suggests that the positive impact of active usage of social network sites on subjective well-being is due to an increase in social capital. However, future longitudinal and experimental research is needed to confirm the temporal location of each of the constructs in the proposed mediation model and the causal nature of the proposed relationships.

**The Negative Consequences of Passive Usage of Social Network Sites: Social Comparison and Envy**

**Social comparisons and envy impact subjective well-being.** Aside from a fundamental need for relatedness, people also have a drive to evaluate their opinions and abilities (Festinger, 1954). This drive encompasses a desire to reduce uncertainty (Gibbons & Buunk, 1999) and establish one’s standing (Brown, Ferris, Heller, & Keeping, 2007). In many circumstances objective bases for self-evaluation are not present: For example, is running 100 m in 14 seconds fast? In such cases self-evaluation depends upon how one compares oneself with other people, a process called “social comparison” (Festinger, 1954). Formally, social comparisons are defined as “comparative judgments of social stimuli
on particular content dimensions” (Kruglanski & Mayseless, 1990, p. 196). A
distinction is made between upward and downward comparisons (Buunk &
Gibbons, 1997; Wills, 1981). In upward comparisons one perceives the other
as better on a particular dimension whereas the opposite holds for downward
comparisons.

In the case of upward comparisons envy is frequently experienced. Envy
is defined as “an unpleasant and often painful blend of feelings characterized
by inferiority, hostility, and resentment caused by a comparison with a person
or group of persons who possess something we desire” (Smith & Kim, 2007,
p. 49). Envy is not only an unpleasant experience in itself: a wide range of
studies indicate that envy has negative consequences for subjective well-being
(Cohen-Charash, 2009; Smith, Parrott, Diener, Hoyle, & Kim, 1999; Vecchio,
2000)

**Passive usage of social network sites elicits social comparison and feelings
of envy.** To make social comparisons, information about others is needed. On
social network sites, only a mouse click stands between the user and an enormous
amount of information about others. Thus, social comparison can be carried out
on an unprecedented scale. Moreover, compared to offline settings, most social
network sites have a number of features that make the occurrence of upwards
social comparisons and the feeling of envy especially likely. First, social net-
work sites typically allow for asynchronous communication such that there is
ample time to post a witty comment or a nice picture. This further allows peo-
ple to portray themselves in overly flattering ways (Barash, Ducheneaut, Isaacs,
& Bellotti, 2010; Kross et al., 2013; Mehdizadeh, 2010; Newman, Lauterbach,
Munson, Resnick, & Morris, 2011) and may elicit upward social comparisons
in the receiver of this information. Second, several social network sites provide
functionalities to easily connect with and become informed of similar
others who post information that is relevant for the perceiver—features that tend to in-
crease the probability of experiencing envy (Hill & Buss, 2006; Salovey & Rodin,

Researchers have examined whether usage of social network sites indeed
stimulates upward social comparison and envy. Initial studies found evidence
for this relationship (Chou & Edge, 2012; Jang, Park, & Song, 2016; Lee,
2014; Muise, Christofides, & Desmarais, 2009; Steers & Wickham, 2014).
However, similar to research on the effect of social network sites on sub-
jective well-being and social capital, it has become clear that only particular
ways of using social network sites will lead to upward social comparisons and
envy.

**Cross-sectional designs.** In several cross-sectional studies a positive relation-
ship was found between passive usage of Facebook and envy, but no significant
relationship was observed for active Facebook usage (Krasnova et al., 2015, 2013; Tandoc et al., 2015). It is notable that in a recent study, participants reported experiencing positive emotions more often than envy upon reading positive Facebook posts (Lin & Utz, 2015). However, this comparison between positive emotion and envy is not informative because people do not readily admit feeling envy. Using indirect assessments of envy frequency, Krasnova et al. (2013, 2015) concluded that envy is a common consequence of following information about others on Facebook, and even more common than the experience of positive emotions.

**Longitudinal designs.** Only one study that we are aware of has examined the longitudinal relationship between social network usage and envy. Specifically, in an experience sampling study on Facebook usage in young adults Verduyn et al. (2015) found that passive Facebook usage increases feelings of envy over time.

**Experimental designs.** Several experiments indicate that passively browsing Facebook has negative consequences for people who naturally tend to engage in social comparisons. This provides indirect evidence that passive usage of social network sites is a fertile ground for envy to occur. For example, compared to visiting a control website, female participants with a strong tendency to compare their attractiveness to others were less satisfied with their physical appearance upon browsing Facebook for 10 minutes (Fardouly et al., 2015). Similarly, compared to looking at one’s own Facebook profile or visiting a control website, participants who tend to engage in social comparisons had poorer self-perceptions after looking at a friend’s Facebook profile (Vogel, Rose, Okdie, Eckles, & Franz, 2015).

In other experiments, the nature of the content that participants were exposed to on social network sites was manipulated. Participants either passively browsed Facebook pages of high (e.g., users who are attractive or have a successful career) or low comparison standards. Overall, participants reported lower levels of subjective well-being and higher levels of envy upon exposure to attractive or successful profiles (Appel, Crusius, & Gerlach, 2015; Haferkamp & Krämer, 2011; Vogel, Rose, Roberts, & Eckles, 2014). Finally, Verduyn et al. examined whether passive Facebook usage resulted in higher levels of social comparisons compared to active Facebook usage. Contrary to their hypothesis, the groups did not differ in the degree to which they perceived their own life as worse compared to that of others (Verduyn et al., 2015). However, Verduyn et al. speculated that the reason for the null effect in this study may have been a result of how they asked participants to rate their envy (for complete discussion see Verduyn et al., 2015), and follow-up data that they provided in a second longitudinal study was consistent with their argument.
Direct evidence for the proposed mediation model. A number of recent studies provide direct evidence for the role that upward social comparisons and envy play in mediating the links between passive usage of social network sites and declines in subjective well-being. Specifically, several cross-sectional studies have found that envy mediates the relationship between passive usage of social network sites and subjective well-being (Krasnova et al., 2015, 2013; Tandoc et al., 2015). Experimental and longitudinal work testing the full mediation pathway is scarce. An exception, however, is a recent longitudinal study, which demonstrated that the negative effect of passive Facebook usage on subjective well-being is mediated by envy (Verduyn et al., 2015). In particular, using an experience sampling design, passive Facebook usage predicted increases in envy, which, in turn, predicted decreases in affective subjective well-being at the next assessment.

Finally, it is notable that beyond having an impact on subjective well-being, envy also triggers a number of potentially ineffective coping styles. One such style is engaging in self-enhancement strategies (i.e., stressing one’s strengths) to diminish the sense of inferiority triggered by envy (Brown & Gallagher, 1992; Salovey & Rodin, 1988). Even though this may be a suitable strategy to deal with envy, this behavior may ironically elicit envy in others resulting in a “self-enhancement envy spiral” (Krasnova et al., 2015). For example, being exposed to beautiful holiday pictures may lead one to upload similar pictures, which, in turn, causes others to experience envy and initiate similar self-enhancing behavior.

From Data to Policy: Some Suggestions

The popularity of social media has influenced policy at different levels. At the governmental level, guidelines have been formulated to limit recreational screen time to two hours per day for children, even though these guidelines are not specific to use of social network sites (Tremblay et al., 2011). Moreover, recommendations have been offered to the general population on how to protect their privacy when using social network sites (Federal Trade Commission, 2016; Information Commissioner’s Office, 2016) and to social network site providers on how to enhance the safety of young people and children using their services (UK Council for Child Internet Safety, 2016). However, guidelines aimed at using social network sites to specifically foster subjective well-being at a societal level are, on the whole, lacking.

At the organizational level many companies have implemented social media policies (e.g., adidas, 2011; Los Angeles Times, 2009). These policies typically include employee guidelines on how to interact on social network sites without damaging the interests of their employer. These policies usually instruct employees to (a) not use social network sites excessively while working, (b) be respectful when communicating on social network sites, (c) not discuss confidential information,
and (d) clearly mention when expressed views are one’s own rather than their employer’s. However, such guidelines are primarily formulated with the interests of the company in mind rather than the subjective well-being of the broader population.

At the level of households, many parents have installed rules for their children regarding usage of social network sites. For example, 55% of parents limit the amount of time that their children can go online, 60% of parents check their children’s social media profile and 78% of parents talk occasionally or even frequently about what constitutes appropriate online behavior (Anderson, 2016). The high levels of parental oversight that these percentages capture suggest that parents would likely welcome evidence-based recommendations for usage of social network sites that they could transfer to their children.

Below, we formulate empirically-based recommendations for policy makers on how to (a) educate the general population about the most productive ways of using social network sites to improve subjective well-being, (b) support researchers to deepen our understanding of adaptive usage of social network sites, and (c) stimulate social network site providers to adjust their platforms in order to nudge users to ways of using their sites that enhance subjective well-being. Note that the recommendations that follow are aimed primarily at policy makers at the governmental level, but we expect that their implementation could eventually impact lower levels as well (e.g., educating the population on proper usage of social networks can be expected to lead to changes in parental rules regarding social media usage). The material below is organized around the potential targets of the policy recommendations.

**General population.** Policy makers should educate the public on how to use social networks to enhance subjective well-being. For this purpose, one could inform the larger public (e.g., through informational campaigns) or specific subgroups (e.g., through courses on social media literacy as part of school curricula) on what constitutes adaptive social network usage. Until recently this was an impossible task for policy makers simply because of a lack of empirical evidence indicating how people can use social network sites in ways that specifically enhance subjective well-being. Indeed, in a 2008 article on policy recommendations regarding usage of social network sites, the authors concluded by stating: “In writing this article, we have struggled to find sufficient empirical research on which to ground our claims” (Livingstone & Brake, 2010, p. 9).

As we show in this article, the literature on this issue has since increased dramatically, providing the potential for evidence-based guidelines on what constitutes adaptive usage of social network sites. Below, we describe three key messages that should be stressed in any educational campaign on adaptive usage of social network sites:
(1) Excessive passive usage of social network sites should be avoided, as this type of usage is found to be negatively related to subjective well-being. The fact that social network sites are used passively, rather than actively, most of the time only underscores the importance of communicating this finding to the population (Constine, 2012; Pempek et al., 2009; Verduyn et al., 2015) in a way that is accessible and understandable.

(2) Positive news is more often shared on social network sites than negative news (Kross et al., 2013; Verduyn et al., 2015) and people tend to portray themselves in overly flattering ways (Mehdizadeh, 2010; Newman et al., 2011). Informing people about this may lower the impact of being exposed to information about others when passively browsing social network sites as damaging social comparisons are less likely to take place.

(3) Active usage of social network sites has no negative consequences for subjective well-being and likely has positive consequences. To stimulate active usage of social network sites, one could stress that these sites provide a unique opportunity to connect to others, increase one's social capital and feelings of social connection. However, in order for these positive consequences to occur, social network sites have to be used actively rather than passively.

Researchers. During the last decade social network sites partially moved the interactions people have with one another from offline (i.e., “face-to-face”) to online contexts. This shift is likely to continue creating novel challenges for researchers to address. New social network sites enter the market at a fast pace and existing social network sites are continuously changing. As such, researchers need to continuously test the validity of their theories on social network sites; this includes researchers examining the consequences of usage of social network sites for subjective well-being. Thus, policymakers should consider expanding the scope of funding available to conduct this type of research. Such funding should be aimed at extending our current knowledge on the topic and avoiding the pitfalls of the past. Below, we suggest three elements for funding agencies to take into account:

(1) Most studies on the relationship between social network sites and subjective well-being make use of cross-sectional designs. As we have attempted to clarify in this review, these studies sometimes create more confusion than clarity, further amplified by the media coverage that they have received. Currently, there is a need for more longitudinal and experimental research as these stronger research designs position researchers to more confidently draw inferences about cause and effect, as well as short- and long-term consequences.
(2) Research on the relation between social network sites and subjective well-being has mainly relied on samples consisting of adolescents and young adults. Although young people represent a significant user base of social network sites, older adults are increasingly attracted to social network sites as well (Perrin, 2015). Moreover, a recent study (Hayes, van Stolk-cooke, & Muench, 2015), demonstrated that older adults use Facebook less actively than young adults. As such, more research using older participant samples should be supported.

(3) Most studies on social network sites focus on Facebook. Arguably, this is due to Facebook still being the most often used social network site. However, many other social network sites boast a high number of users. As each social network site constitutes a partially unique context for interaction, research should be supported that focuses on identifying the contextual features that impact subjective well-being (which are possibly shared by several social network sites) rather than merely replicating findings across different social network sites (Mcfarland & Ployhart, 2015).

Providers of social network sites. Providers of social network sites would only gain from having their technologies contribute to the subjective well-being of their users. Based on the current review, we offer two recommendations for policy makers on how to reach out to providers of social network site:

(1) Encourage providers of social network sites to collaborate with researchers to identify the features of their social network sites that enhance rather than undermine subjective well-being. One way to do so is to convince providers to share anonymized data such that researchers can rely on objective assessments of social network usage. Currently, most researchers have to rely on self-report or time-consuming coding procedures (e.g., copying and manually coding Facebook wall data) to attain objective measures (Deters & Mehl, 2013; Park et al., 2016).

(2) Encourage providers of social network sites to consider ways of integrating insights from basic research to enhance the benefits that their products provide to their users in terms of subjective well-being. For this purpose, providers could, for example, use these insights to develop interfaces that nudge users towards adaptive usage patterns.

Concluding Thoughts

Does usage of social network sites increase or decrease subjective well-being? Based on the literature available at this time, the answer is: It depends on how one uses them. Social network sites have the potential to increase our subjective
well-being by allowing us to increase our social capital and feeling of connectedness due to active usage of these sites. However, they can also be a significant cause of distress, especially when they elicit social comparisons and envy due to passive usage of these sites.

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Do Social Network Sites Enhance or Undermine Subjective Well-Being?


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