Active Citizen E-Participation in Local Governance:
Do Individual Social Capital and E-Participation Management Matter?

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Abstract

While a growing body of literature has touted e-participation as a means of facilitating greater citizen participation in policy decision-making processes, little is known about the driving forces of active citizen e-participation. Active e-participation is defined as the extent to which citizens make inputs via e-participation programs. Based on a literature review of social capital and citizen participation, the study develops a model of active e-participation and tests it in the context of local governance. Three dimensions of social capital – trust in government, strength of social ties, and volunteering activities – are classified to explore the association of individual social capital and active e-participation. The model addresses that three dimensions of citizen participation management – fairness, access to information, and government responsiveness – are positively associated with active e-participation. To test several hypotheses, the study uses the 2009 E-Participation Survey data collected from 1,076 participants of the Cheon Man Sang Sang Oasis, which is an e-participation program administered by the Seoul Metropolitan Government in South Korea since 2006. Using ordered logistic regression analysis, the study found that citizens’ trust in government and their volunteer experiences are positively related to active e-participation. The results demonstrate that citizens embedded in weak offline social ties are likely to use e-participation actively. The study also found that citizens’ perception of quality responsiveness during the e-participation process is positively related to active e-participation. Based on the study’s findings, the paper discusses the managerial and policy implications for fostering citizens’ e-participation through effective e-participation programs in the context of local governance.

Keywords: active e-participation, trust in government, social capital, and e-participation management
Introduction

Over the last decades, government has widely adopted electronic government (e-government) to provide information and services online (Coursey and Norris 2008; Moon 2002). Also, a growing body of literature has paid attention to e-government as a means of fostering citizen participation in the policy decision-making processes of the government agency (King, Feltey and Susel 1998; Thomas and Streib 2003). All levels of government agencies have widely adopted various Web technologies offering various forms of electronic participation (e-participation) applications ranging from simple online voting, to in-house online policy forums at the federal (e.g. regulation.gov) and local (e.g. engageomaha.org) levels, and social networking sites (e.g. Facebook) in government.

Although e-participation has received considerable attention by public administration practitioners and scholars in public administration (Kim and Holzer 2008), little is known about the driving forces of citizens’ use of e-participation. Why do some citizens more actively use e-participation than others? This is a crucial question because the potential of e-participation is problematic when it is not actively used by citizens. As discussed later, for the analytical purpose, this research scopes the e-participation domain as citizen-initiated participation in the phase of policy agenda setting where citizens post their inputs and views as well as comment on the inputs of others and the responses of government.

Some prior empirical studies focused mainly on the effects demographics and psychological factors on citizen participation (Thomas and Melkers 1999) while other studies examined the relationship between management of citizen participation and citizens’ satisfaction (Gramberger, 2001). Although some studies have developed normative arguments on the importance of citizen participation design principles such as fairness in the participation process (Weblar and Tuler 2000; Nabatchi 2012), a few have systematically and empirically examined the role of design principles in affecting citizen
participation. Moreover, as discussed later, given the fact that one feature of citizen-initiated e-participation is online community, this research argues that social capital literature can provide a useful theoretical framework to better understand e-participant’s behavior.

To answer the research questions, this study develops a model of active e-participation by focusing on the role of individual social capital and e-participation management. To test the research hypotheses, the study uses the 2009 E-Participation Survey data collected from 1,076 e-participants of an e-participation program called Cheon Man Sang Sang Oasis (hereafter Oasis) run by the Seoul Metropolitan Government (SMG) in South Korea since 2006. The Oasis provides various e-participation services including online polling, online surveying, and online policy forums. This research focuses on one particular type of e-participation service, the online policy forum, which has served as an online community for citizens to participate in policy decision-making processes, especially policy agenda setting processes. The Oasis online policy forum offers well-organized and systematic opportunities for citizens to post their inputs and to make suggestions on proposed SMG policies that may contribute to enhancing government effectiveness and resolving community issues related to any public policy and program in the SMG or any governance issue in the city of Seoul.

**E-Participation: Definition and Scope**

Scholars in public administration have attempted to define citizen participation and classify it in order to systematically understand its characteristics (Arnstein 1969; King, Feltey and Susel 1998; Macintosh 2008). First, this research views e-participation as a special type of e-government service in that e-participation is available at government websites or as part of e-government services run by government agencies. In this regard, e-participation is distinct from social media services owned and run by non-government entities (e.g., Facebook and Twitter) and other online town-hall meetings funded by government, but operated by non-government agencies (e.g. engageomaha.org). As a technological
platform, Oasis is one of the e-government services provided by SMG for the purpose of promoting citizen participation.

Second, Macintosh (2008) refers to e-participation as the use of web technologies to provide information and to support “top-down” engagement, or to foster “ground-up” efforts to empower citizens to gain their support. This definition divides two different approaches of top-down and ground-up to the understanding of e-participation. In this research, we focus on “ground-up” e-participation, which emphasizes participation initiated by citizens, as opposed to participation initiated by government (e.g. online polls and surveys). The nature of citizen participation varies depending on who takes the initiative of selecting and suggesting a policy agenda discussed during citizen participation processes. In this regard, citizen participation can be classified as government-initiated or citizen-initiated participation (Zuckerman and West, 1985; Thomas and Streib 2003). Oasis provides both government-initiated and citizen-initiated e-participation services. Government initiated e-participation includes, but is not limited to, online polls, online surveys, and agenda-specific online discussion boards (e.g. regulation.gov). Meanwhile, citizen-initiated e-participation services range from email contact (Thomas and Streib 2003) to online policy forums. This research focuses on citizen-initiated e-participation, specifically online policy forums designed to provide citizens with an opportunity to initiate inputs about SMG’s public policy and day-to-day operations.

Third, public policy and administration literature has characterized citizen participation as part of policy decision-making processes, which includes various phases including policy agenda setting, policy formation, policy implementation, and policy evaluation (Arnstein 1969; King, Feltey and Susel 1998). This research focuses on citizen participation in the policy agenda setting phase. Citizen participation in the agenda setting stage is important because it reflects one of the key components of authentic participation, which argues that participation should be sought, at least in the early stage of the decision-
making process, before any decisions are finalized (King, Feltey and Susel 1998). One criticism of unauthentic (King, Feltey and Susel 1998) participation is that participation is sought after the agenda is set and decisions are made.

Lastly, White (2007) refers to e-participation as “the use of information technologies to engage in discourse among citizens and between citizens and elected or appointed officials over public policy issues (p. 110).” This definition broadens our understanding about e-participation by incorporating discourse among citizens. That is, e-participation serves not only as a communication channel which e-participants express themselves, but also plays as an online community providing e-participants with an opportunity to build online networks. Citizen-initiated e-participation often involves a deliberative communication mode in which citizens enjoy many-to-many communications. This implies that e-participants not only communicate with public administrators, but that they also observe, make comments on the inputs of others as well as respond to the comments of others. If e-participation is equipped with many-to-many interaction capabilities, it can serve as an online community providing e-participants with an opportunity to express and share their thoughts with others. Through ongoing and repeated interactions, e-participants, as members of an online community, can build online networks which serve as an opportunity or a constraint for e-participants to create social ties with others online.

For analytical purpose, this study defines e-participation as e-government applications designed to promote citizen-initiated participation in policy agenda setting and to build online community providing citizens with an opportunity to discuss policy agendas with others and with government agencies. The scope of this research is limited to the online policy forums of Oasis as e-participation run by SMG in South Korea where citizens are allowed to initiate discussion about SMG policy agenda by posting their ideas and making comments to the ideas of others.
Theoretical Framework and Hypotheses

Citizen participation has been considered as mechanisms for creating democratic values and instrument values (Moynihan 2003; Nabatchi 2012). Considering the working definition of e-participation discussed above, this research reviews and discusses core components of citizen participation in order to develop a model of active e-participation. The literature review includes citizen-initiated participation, individual behaviors related to use of new information technologies, administrative participation (as opposed to political participation) in policy agenda setting, and online community. One stream of citizen participation studies concerns itself with the relationship between citizens’ socio-economic background (e.g. race, gender, age, income, education) and their participation in public administration (Thomas & Melkers 1999; Bradbury & Williams Forthcoming). The importance of individual demographics has received attention by early studies on citizen participation in urban planning and government budgeting process. Some scholars have paid more attention to the role of socio-economic status in citizen-initiated contact (Thomas and Melkers 1999). Recently, this stream of research has stretched its focus to understand how socio-economic variables affect e-government visiting as a form of citizen-initiated contact (Thomas & Streib 2003).

Another stream of research has focused on individual citizens’ psychological factors. For example, Edelmann and Cruickshank (2012) reviewed citizen participation literature by focusing on psychological factors and suggested a psychological model of citizen participation as a complimentary approach to social-economic model. The psychological factors include different types of self-efficacy (e.g. political efficacy, internet efficacy), prosocial behavior, needs, and personality. For example, early research on citizen-initiated contact found perceived citizen needs, political efficacy, and social involvement influence citizens’ contact of government bureaucrats (Thomas and Melkers 1999). In a similar vein, the Technology Acceptance Model (TAM) (Davis 1989) has been widely applied to
understand individual’s use of new technologies such as e-participation (Kim and Holzer 2008). Since e-participation relies on web-based applications as the participation channel, the use of e-participation can be understood as a technology adoption by citizens. Based on the psychological literature, the essence of TAM is that individual adoption of IT application depends of his or her intention to use that application, their perceived usefulness, and the ease of use of that IT application (Davis 1989).

The social capital stream of studies was also reviewed. Scholars in social science have mainly studied social capital in the context of local and urban community (Putnam, Leonardi, Nanetti, 1993). Given the fact that e-participation is viewed as online community, social capital literature helps us better understand what factors influence citizens to engage in e-participation. Social capital studies argue that the success of community often depends on the degree of community’s social capital (e.g. trust, social networks, and civic norms). Empirical studies have found that social capital is a crucial asset for all levels of government to implement policies effectively, to provide high quality services, and to make government’s innovation efforts more feasible and legitimate (Knack 2002; Putnam, Leonardi & Nanetti, 1993). This line of thought implies that certain characteristics of social capital are related to active e-participation. However, little is known about the role of individual social capital built in an offline community in promoting citizens’ e-participation as a means of shaping online community.

The other stream of research has suggested the principles of designing and managing citizen participation process and programs (Webler and Tuler 2000; Nabatchi 2012). The design and management of citizen participation programs has long been discussed among scholars in public administration (Webler and Tuler 2000). Several principles have been identified as critical factors facilitating citizen participation and managing programs. For example, Webler and Tuler (2000) applied Habermas’s theory of discourse to understand two broader principles of citizen participation process -
fairness and competence – in the context of citizen participation in public policy decisions on forest use in northeastern states.

By focusing on the role of social capital and citizen participation design, this research suggests a model of citizens’ active e-participation. In Figure 1, our study asserts that three dimensions of individual social capital (i.e. trust in government, strength of offline social ties, civic norms) are associated with their active use of e-participation. Also, we argue that three components of e-participation management (i.e. perceived fairness of the participation process, access to information, responsiveness) are related to active e-participation. For the analytical purposes, this model includes the control variables identified by literature.

Figure 1. Conceptual Model of Active E-participation
Individual Social Capital

Although there is no clear agreement on the definition of social capital in the literature, many scholars (e.g. Coleman 1990; Putnam, Leonardi, Nanetti, 1993) agree that social capital consists of at least three key dimensions: trust, social networks, and civic norms. Although the notion of social capital has often been considered a collective concept (e.g. social capital at community), this research discusses social capital at the individual level because it ultimately belongs to individuals (Brehm and Rahn 1997) and because it views social capital as an antecedent of individual behaviors such as citizen participation (Gil de Zuniga, Jung and Valenzuela 2012).

Trust in Government

The definition of trust in government varies depending on scholars. In this research, trust in government is broadly defined as the extent to which citizens believe that government works for their best interest (Cleary and Stokes 2006; Inoguchi, Basáñez, Tanaka, and Dadabaev 2005). When citizens distrust in government, they are likely to perceive that government policies would be harmful, to distance themselves from government, to resist government policies and programs, and lower their expectations of how government will treat them in the future (Kim 2005). Such cynicism toward government tends to decrease citizens’ interests in participation in public administration (Berman 1997; Kim 2005).

Meanwhile, citizen’s trust in government signals that government will be responsive to their needs and care for their best interests. Also, trust in government reflects citizens’ willingness to comply, cooperate, adopt, and support government policies and innovative programs (Cooper et al., 2008; Belanger and Carter 2008). For example, research found that citizens’ trust in government increases the possibility of adopting innovative e-government services (Belanger and Carter 2008). Moreover, when citizens trust government, they are likely to show greater interest in government. Thus, given the fact
that citizen-initiated e-participation often requires citizens’ commitment to participation in public affairs, their willingness and interest can be expressed as a form of active participation in policy decision-making processes.

Competing arguments are possible. That is, it is likely that trust in government reduces the citizens’ demands for monitoring government, which in turn, weakens the strong incentives of citizen participation. This perspective, however, may underestimate various motivations driving citizen participation. As discussed later, citizens are motivated by not only a sense of ownership, but also by social norms of cooperation and prosocial behavior. One may argue that there may be a reverse relationship between trust and participation. That is, it is likely that citizens who actively participate in government put greater trust in government (Pytlikzillig et al, 2012). However, citizen participation may not directly increase trust in government because active participation does not necessarily represent that citizens are supportive toward government. Rather, it is reported that citizen participation negatively affects trust in government (Kweit and Kweit 2007). Also, a recent empirical study on the relationship between e-government use and trust in government reveals that there is no direct relationship between the two, which implies that citizen participation affects trust through the management of citizen participation process (Kim and Lee 2012). This research claims that trust in government is positively related to active e-participation.

**H1: The degree of e-participants’ trust in government is positively related to their active e-participation.**

**Strength of Social Ties**

Social network literature considers social networks as resources in that people can access information, gain social support, and receive recognition through their social networks (Granovetter 1973; Krackhard 1992). In particular, the strength of ties has been discussed to understand the characteristics of social ties (Granovetter 1973; Krackhard 1992). Strength of ties is a multidimensional

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concept (Granovetter 1973). This study defines tie strength as the extent to which individuals frequently interact with other social groups (Granovetter 1973). The strength of strong and weak ties has been debated among network scholars. Advocates of strong social ties argue that people embedded in strong social networks enjoy benefits in terms of accessing information, exchanging social support, and receiving recognition easily and promptly (Krackhard 1992). However, people connected through strong ties tend to share similar information, face higher dependency, and spend more resources to maintain strong ties (Burt 1992). Proponents of strength of weak ties emphasize that people embedded in weak social networks can be provided a better opportunity to access diverse groups of people thereby gaining nonredundant and new information, to enjoy autonomy, and to manage them with a lower cost (Granovetter 1973; Burt 1992).

Considering that e-participation serves as online community, this research asserts that e-participants’ offline social ties affect their e-participation because offline social ties act as incentives to build online social ties. E-participants is limited to developing and sustaining strong online ties with others unless they actively engage in online community. For example, e-participants can be consider as less active when they use e-participation to simply view the postings of others or marginally post policy ideas. Meanwhile, active e-participation offers citizens the opportunity and channel to increase the visibility of their contributions, recognition, reputation, and status (Preece and Shneiderman 2009). That is, e-participants are seen as active when they post more ideas and comments to others. E-participants receive different forms of social rewards including attention, recognition, and support from peer e-participants, but only when they are actively engage in e-participation. Frequent exchange of ideas, comments, and responses with other e-participants and government officials helps e-participants build strong online ties.
How does the strength of offline ties affect citizens’ use of e-participation? This study argues that strong offline social ties are negatively related to active e-participation. In other words, weak offline ties are positively associated with active e-participation. First, when people are connected through strong ties in an offline setting, it is likely that they have a limited opportunity to actively use e-participation applications. Early studies on the relationship between online and offline activities found that people tend to spend less time socializing face-to-face when they spend more time online (Kraut et al., 1998; Nie 2001). This finding implies that people who frequently meet in social groups face-to-face may not allocate extra time and energy to commit to e-participation. This means that the more time spent in face-to-face socializing leads to less time spent engaging in e-participation. Meanwhile, when people are connected through weak ties in an offline setting, weak social ties serve as an opportunity to use e-participation actively because weak ties increase the possibility that people will spend less time socializing face-to-face, but more time socializing online. But, spending more time online does not necessarily motivate people to use e-participation actively. It is likely that weak ties offer an incentive to actively use e-participation because active e-participation enables e-participants to build strong online ties. Second, e-participants who enjoy the benefits derived from strong offline ties may consider e-participation as a complementary means of gaining the different benefits by building weak online ties. When people are weakly tied with social groups in an offline setting they are likely to reap benefits such as access to new and nonredundant information and lower maintenance cost (Granovetter 1973; Burt 1992). Active e-participation, however, provides an opportunity to build strong online ties, which enables e-participants to gain complementary resources (e.g. prompt access to information and social support). That is, strong online ties created by active e-participation serve the interests of e-participants by reinforcing their resources available at weak offline ties.
H2: E-participants’ strong offline ties are negatively related to their active e-participation.

Civic norms of volunteering

Civic norms can be broadly defined as group-held beliefs about how members in civic society should behave in public affairs. This research considers civic norms as socially cooperative behavior (e.g. volunteerism) associated with a more general interest rather than a specific interest associated with a partisan group of people (Knack 1992). They can be characterized by a willingness or desire to help others and can be captured by the degree which individuals have affective motives such as volunteerism (Edelmann and Cruickshank 2012). As a specific form of civic norms, this research focuses on citizens’ volunteering experience. The literature on volunteering and citizen participation suggests that there is a positive relationship between citizens’ volunteer experience and political participation (Billig, 2002; Wilson, 2000; Youniss et al, 1997). Defining volunteering as any activity in which time is given freely to benefit another person, group, or organization, Wilson (2000) addresses positive impacts of volunteering on community participation, civic engagement, and opportunities for professional development. Several scholars have found a positive association between service experience of both youth and adults to their active citizenship behavior (Billig, 2002; Smith, 1999; Youniss et al, 1997). For example, Billig (2002) argues that volunteer experience affects citizens’ learning of community issues and that citizens with volunteering experience become more likely to take leadership roles in finding solutions to community concerns.

Youniss et al (1997) also found a positive relation between youth participation in service programs in high school and their engagement in community organizations as adults. Flanagan et al (1999) found that high school students who volunteer are more likely to be engaged in a political campaign. Furthermore, Smith (1999) finds that participation in extracurricular activities in one’s youth
is one of significant predictors of greater political and civic involvement in young adulthood. Scholars address several factors that may facilitate this relationship including the sharing of information (Knoke, 1990), the opportunity to develop “civic skills” such as the ability to organize a meeting (Verba et al, 1995) and the fostering of generalized trust (Stolle, 1998). Moreover, this study argues that citizens’ volunteer experience often represents their trait of extraversion, which is a person’s tendency to be social (Edelmann and Cruickshank 2012), which affects their engagement in online community including e-participation. Based on the literature review above, the study tests the following hypothesis:

*Hypothesis 3: E-participants’ volunteering experiences are positively associated with their active e-participation.*

**Management of the E-participation Process**

Scholars in public administration have long emphasized the importance of design and management of citizen participation process (Halvorse 2003; King, Feltey and Susel 1998; Webler and Tuler 2000). For example, Halvorsen (2003) found that participants who perceive high quality participation program management assess that the agency in charge of managing the participation program was responsive to public concerns. Along this line of thought, this research asserts that poor design and management of e-participation processes obstructs citizen participation.

**Fairness in E-participation Process**

While there are few empirical studies addressing how citizens’ perceptions of the fairness of e-participation process affect their active e-participation, scholars address fairness as one of design criteria measuring the quality and effectiveness of citizen participation programs (Coenen, Huitema, and O’Toole, 1998; Hansen, 1998; Webler and Tuler, 2000; Nabatchi 2012). For example, based on Habermas’s theory of communicative action (Habermas, 1979), Webler and Tuler (2000) propose
fairness and competence as core dimensions of developing criteria of desirable process of public participation. They identified three dimensions of fairness that comprise a public participation discourse including fair attendance, fair participation in agenda setting and rule making, and fairness in discussion and debate (Webler and Tuler, 2000).

Scholars have also analyzed a positive relationship between process fairness and outcome satisfaction and acceptance (Baird, 2000; Herian et al, 2012; Rottman 1998). Research findings show the positive impacts of procedural fairness on the institutional legitimacy of governmental authorities (Baird 2000) as well as increased levels of trust in political systems (Rottman 1998). Other scholars analyzed the impact of fairness of the citizen participation process on citizen support for government decisions (Herian et al, 2012) and the impact of the use of fair processes on public trust in public officials (Van Ryzin, 2011). Herian et al (2012) find that the inclusion of public input by local governments can increase perceptions of fairness and that the perceptions of fairness have stronger relationships with overall governmental assessments for those who are relatively uncertain about a governmental institution. Van Ryzin (2011) found that the use of fair processes by public servants increased the public’s trust in those officials.

This study adopts the definition fairness proposed by Webler and Tuler (2000): “Fairness refers to the opportunity for all interested or affected parties to assume any legitimate role in decision-making process” (p.568). The study proposes a positive relation between perceived fairness of e-participation process and citizens’ active e-participation. In order to explore the relationship between perceived fairness of e-participation management and citizens’ active e-participation, three aspects of fairness in e-participation process are developed in this study—including availability of diverse participation programs, the equal opportunity for stakeholders and citizens to e-participation, the fair process of e-participation decision making. This study tests the following hypothesis:
Hypothesis 4: The level of perceived fairness in e-participation process is positively associated with e-participants’ active e-participation.

Access to information

One normative argument about the design of the citizen participation process highlights that limited access to government information and its interpretation prohibits citizens from understanding existing government activities such as public policies and day-to-day operations and thus, citizen participation should be designed to grant citizens access to relevant information and its interpretations about government activities in participation process (Webler and Tuler 2000; Garson 2006; Nabatchi 2012). In a similar vein, advocates of TAM and other scholars imply that the design of e-participation applications must be effective and easy-to-use because the design affects citizens’ access to information about the participation procedure as well as government responsiveness (Parasuraman et al. 2005, Kim and Lee 2012), which motivates citizens’ active engagement in e-participation.

According to the principal-agent model, the relationship between citizens and government is one of information asymmetry (Yang and Holtzer 2006). As the principal, ordinary citizens are often less knowledgeable with regard to government activities than government employees as the citizens’ agent. When an e-participation process is designed and managed to enhance citizens’ ability to access information of government activities, it is likely that citizens are better informed of what and how government agencies perform. Thus, increased access to information minimizes information asymmetry, which reduces uncertainty and ambiguity about government policy and programs. The decreased information asymmetry can strengthen citizens’ capability of understanding government agencies. Knowledgeable citizens are likely to offer useful and helpful suggestions for government agencies to make better informed policy decisions. Thus, it is likely that they make meaningful contributions including posting policy inputs and suggesting ideas about problem identification and solving, and/or
innovative proposals. Also, informed citizens are better able to monitor government agencies increasing both the government’s commitment to openness and honesty as well as the likelihood that any government deception will be uncovered (Yang 2009).

Hypothesis 5: E-participants who perceive easier access to policy information via e-participation programs are likely to use e-participation actively.

Responsiveness

During the public participation process, government responsiveness has played a crucial role in shaping citizens’ perception and behavior toward participation (Kweit and Kweit 2004; King, Feltey and Susel 1998). For example, research found that citizens’ satisfaction with participation programs is determined by government employees’ responsiveness to their needs and the quality of feedback for their inputs (Halvorse 2003; Kweit and Kweit 2004). As part of management quality, public officials’ interpersonal, discourse and facilitation skills have been emphasized as a means of implementing authentic participation programs (King, Feltey and Susel 1998), which require citizens’ active participation.

Although e-participation is promising, in some ways, it limits the ability of both government and e-participants to interact with each other interpersonally, to engage in verbal communication, and to facilitate discussion in the e-participation process, compared to conventional citizen participation setting. In this regard, management of e-participation processes plays a crucial role in shaping active e-participation. In the context of e-participation, government responsiveness can be captured by the extent to which public officials provide quality feedback to e-participants’ inputs (e.g. idea submissions) and inquiries. As the nature of citizen participation does not bind government decisions, government bureaucrats have no strong incentives to respond to citizens’ inputs and inquiries in a sincere manner. Insincere responses or no responses from government concerning e-participants’ inputs is likely to
decrease their interest in e-participation and their willingness to commit to the community through e-participation. As a result, this lack of interest and willingness to participate discourages e-participants from e-participation actively.

Meanwhile, it is likely that sincere responses from e-participation management reinforces e-participants’ interests in e-participation and their willingness to engage in e-participation by facilitating their commitment. That is, e-participation management’s quality responses promote e-participants’ self-esteem by enhancing the sense of being an important part of community and identification with the community (Tajfel and Turner 1986). Increased identification often creates a sense of civic duty by motivating the participant to take more interest in community issues. Also, e-participants who receive quality feedback from government officials are likely to perceive that they gain useful policy information that helps them better understand community issues and in turn, contribute to community building. Moreover, online community literature found that quality responsiveness often motivates e-participants to stay longer and to participate in the online community frequently (Moon and Sproull 2008).

**Hypothesis 6: The level of perceived government responsiveness via e-participation programs is positively associated with e-participants’ active e-participation.**
Data and Measurement

To test research hypotheses, this study used the 2009 E-participation Survey data collected from the citizen members of the Oasis. As discussed earlier, Oasis has served as an electronic channel of citizen participation in the policy making – especially policy agenda setting - process of the SMG. Using online policy forums at Oasis, citizens post their inputs on SMG policies and programs associated with their community and related governance issues as well as view, and make comments on the inputs of others. As of June 2009, 34,792 citizens had joined Oasis. From this population a sample frame of 10,136 citizen members of Oasis who have posted at least one suggestion over the last three years was created. A web-based survey was administered for four weeks in May and June in 2009. To encourage response, a survey notification was emailed to the members of sample frame as well as posted on Oasis websites before the survey instrument was posted. Two reminder and follow-up emails were also sent to the members.

Of 10,136 members, 1,076 participants responded to the survey (response rate of 10.6 percent). Because of low response rate, non-response bias test was performed to see if there is difference in demographics between respondents and non-respondents (Moon 1999). The results show that the respondents and non-respondents were not significantly different in terms of age, gender, and education. Table 1 shows the demographics of study samples and population. It should be noted that female and “high school diploma or less” samples are underrepresented.
Table 1 Demographics of Survey Sample (N=1,076) and Population

<table>
<thead>
<tr>
<th>Variables</th>
<th>Characteristics</th>
<th>Sample (%)</th>
<th>Population in Seoul (%)</th>
</tr>
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<tbody>
<tr>
<td>Gender</td>
<td>Male</td>
<td>73.9</td>
<td>50.1</td>
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<tr>
<td></td>
<td>Female</td>
<td>26.1</td>
<td>49.9</td>
</tr>
<tr>
<td>Age</td>
<td>20s or below</td>
<td>22.1</td>
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<td></td>
<td>30s</td>
<td>29.3</td>
<td>16.2</td>
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<td></td>
<td>40s</td>
<td>27.8</td>
<td>17.1</td>
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<td></td>
<td>50s</td>
<td>15.2</td>
<td>13.7</td>
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<td></td>
<td>Over 60s</td>
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<td>Education</td>
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<tr>
<td></td>
<td>Bachelor’s degree or higher</td>
<td>73.3</td>
<td>39</td>
</tr>
</tbody>
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a. The population of city of Seoul is 10,464,051 as of December 31, 2009 (www.seoul.go.kr). The population data of Seoul are drawn from the 2010 National Population and Housing Census Survey of South Korea.

**Dependent variable**

*Active e-participation.* As a measure of active e-participation, this research employed the number of suggestions posted on the Oasis as a measure of active e-participation. The survey participants were asked to indicate the extent to which they posted their suggestions on Oasis using five ordered categories ranging from “1-2 suggestions” (1) to “More than 10 suggestions” (5) (See survey items in Appendix).

**Independent variables**

*Trust in government.* The measure of citizen trust in government was derived from prior research (Inoguchi, Basáñez, Tanaka, and Dadabaev 2005; Kim and Lee 2012). Trust in government is measured by a single survey item rated on a 5-point Likert scale ranging from strongly disagree (1) to strongly agree (5); “To what extent do you trust that SMG works in your best interests?” Although the single item is limited to capturing various dimensions of citizen trust in government, it allows us to broadly understand the respondents’ level of trust in government.

*Tie strength.* To capture e-participants’ strength of social ties, this study used respondents’ self-reporting on the frequency of going out with people for socialization. Respondents were asked to
indicate how often they go out with five different groups of people (family members, neighbors, friends, co-workers, and members of social groups) for socialization (e.g. having lunch). Five items were designed with a 7-point Likert-type scale ranging from “Every Day” (1) to “Once a Year” (7). Correlation among the items was slightly lower than threshold (Cronbach’s α=.67). The average scores of the five items were used in the analysis.

Social norms. To measure social norms, we used a single item to capture the respondents’ volunteer experience (Brewer 2003). The respondents were requested to indicate how often, on average, they have been involved in volunteer work for the past three years. This item was rated on a 7-point Likert-type scale ranging from “Never” (1) to “Every Day” (7).

Fairness in e-participation process. This research used four survey items to measure respondents’ perception of fairness in e-participation process that the citizen participation literature emphasized (Webler and Tuler 2000; Herian et al., 2012). The participants were asked to indicate the extent to which they agree with the four survey items using a 5-point Likert scale ranging from strongly disagree (1) to strongly agree (5). High correlation among the items (Cronbach’s α =.76) allows us to aggregate those items and to create a new composite variable.

Access to information: The measure of access to information was adapted from citizen participation literature (Webler and Tuler 2000; Herian et al., 2101). To measure e-participants’ perception of access to information, this study used four survey items with 5-point Likert scale (Cronbach’s α =.83). These items were summed and averaged into an index.

Responsiveness. Responsiveness is measured using the three items representing the respondents’ perception of quality feedback offered by SMG. The mean scores of the aggregated items were used (Cronbach’s α =.82) in the analysis.

Control variables
**TAM variables.** Two TAM related variables - intention to use and perceived usefulness - were included as control variables (Davis 1989). The intention to use and perceived usefulness are found to be associated with acceptance of new IT applications (e.g., Venkatesh et al., 2003). We used one item to measure citizens’ intention to use e-participation and seven items to capture respondents’ perceived usefulness. The items were modified by Davis’s (1989) TAM scale. The seven items for perceived usefulness were summed and averaged into an index (Cronbach’s α = .89).

**Psychological factors.** To control the effect of e-participants’ psychological factors, three variables were included: political efficacy, Internet self-efficacy, and needs of e-participation. Political efficacy refers to e-participants’ perceptions of influence on governmental decision making. As a political reward, political efficacy serves as incentives for active participation in public affairs (King, Feltey and Susel 1998). Thus, it is likely that the e-participants who perceive greater influence on administrative process and outcome actively use e-participation. To measure political efficacy, we used the four items using a 5-point Likert scale ranging from strongly disagree (1) to strongly agree (5). The average scores were used in the analysis (Cronbach’s α = .83). Since the questionnaire was not developed for the purpose of this particular research, there is no direct measure for Internet self-efficacy. Thus, this research used the length of Oasis membership as a proxy for capturing Internet self-efficacy. It is assumed that e-participants who joined the Oasis since 2006 might be equipped with greater Internet skills necessary to use the Oasis. Also, it is likely to capture the extent to which e-participants’ prior use of the Oasis affects the degree of participation in the same e-participation. The respondents were asked to indicate the length of membership in Oasis. This question was scaled from 4 years (1) to less than 1 year (4). To capture respondents’ needs of e-participation, this study used a frequency of visiting Oasis sites as a proxy. This item was scaled from less than every six month (1) to more than five times per week (7).
Political Participation. Citizen-initiated contact literature has suggested political participation as one key factor (Thomas and Julia 1999; Zukerman and West 1985). This research used two types of political participation: Voting participation and Involvement in interest groups. Respondents were asked to indicate whether or not they voted on four most recent elections. For the purpose of analysis, this research combined their responses to four elections and created an index. Also, to control the effects of respondents’ involvement in interest group on e-participation, three proxies were added to political participation category. As proxies, respondents’ volunteer activities sponsored by civic organizations, unions, and political parties were included to measure the extent to which citizens as volunteers were indirectly involved in interest groups.

Socio-economic variables. Respondents’ socio-economic status has been identified as a barrier for to citizen participation (King, Feltey and Susel 1998). To control for the effects of social-economic status on e-participation, we included gender as a dummy variable, which was set to one if a respondent was male. Age was measured on a continuous scale. As a dummy variable, education was coded as one if respondents report their highest education level as college graduation or higher. Income was measured by households’ monthly income with six categories ranging from 1 (less than $1,667 monthly income) to 6 (more than $5,000 monthly income). For the purpose of analysis, six income categories were coded as a series of dummy variable where the lowest income level is used as the base dummy.

Analysis and Findings

In Table 2, descriptive statistics and the correlation matrix show that five independent variables are significantly correlated with active e-participation. However, strength of social ties is not significantly correlated to active e-participation. Multicollinearity tests were performed to ensure the extent to which independent variables are correlated. It is argued that the threshold of multicollinearity
problem ranges from Variation Inflation Factor (VIF) of 5 to 10 and above (O’Brien 2007). The results show the VIF did not exceed 3.0 in this model, which implies that multicollinearity is not serious issue.

Table 2. Descriptive Statistics and Correlation Matrix of Dependent and Independent Variables

<table>
<thead>
<tr>
<th></th>
<th>Mean</th>
<th>S.D</th>
<th>Min.</th>
<th>Max</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Active e-participation</td>
<td>2.06</td>
<td>1.40</td>
<td>1</td>
<td>5</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2. Trust in government</td>
<td>3.30</td>
<td>.93</td>
<td>1</td>
<td>5</td>
<td>.22**</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3. Tie strength</td>
<td>3.89</td>
<td>1.10</td>
<td>1</td>
<td>7</td>
<td>.01</td>
<td>.15**</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4. Civic norms</td>
<td>2.68</td>
<td>1.48</td>
<td>1</td>
<td>7</td>
<td>.15**</td>
<td>.13**</td>
<td>.18**</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5. Fairness</td>
<td>3.41</td>
<td>.66</td>
<td>1</td>
<td>5</td>
<td>.13**</td>
<td>.59**</td>
<td>.14**</td>
<td>.10**</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6. Information Access</td>
<td>3.48</td>
<td>.07</td>
<td>1</td>
<td>5</td>
<td>.15**</td>
<td>.42**</td>
<td>.08*</td>
<td>.07*</td>
<td>.55**</td>
<td></td>
</tr>
<tr>
<td>7. Responsiveness</td>
<td>3.16</td>
<td>.85</td>
<td>1</td>
<td>5</td>
<td>.13**</td>
<td>.39**</td>
<td>.10**</td>
<td>.07*</td>
<td>.59*</td>
<td>.52**</td>
</tr>
</tbody>
</table>

** p < .01; * p < .05

Because the scale of a survey item for measuring dependent variable (i.e. active e-participation) consists of five ordered categories, an ordered logistic regression model is employed to estimate the effects of independent variables. Table 3 shows the results of the regression analysis.
Table 3 Ordered Logistic Regression Results

<table>
<thead>
<tr>
<th>Independent Variables</th>
<th>Coefficient</th>
<th>S.E</th>
</tr>
</thead>
<tbody>
<tr>
<td>Individual Social Capital</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Trust in government</td>
<td>.24**</td>
<td>.11</td>
</tr>
<tr>
<td>Strength of social ties</td>
<td>-.17**</td>
<td>.08</td>
</tr>
<tr>
<td>Social norms</td>
<td>.08**</td>
<td>.05</td>
</tr>
<tr>
<td>E-participation Management</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Perceived Fairness</td>
<td>-.24</td>
<td>.18</td>
</tr>
<tr>
<td>Information Access</td>
<td>-.12</td>
<td>.14</td>
</tr>
<tr>
<td>Perceived Responsiveness</td>
<td>.28**</td>
<td>.14</td>
</tr>
<tr>
<td>Control Variables</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TAM Factors</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Perceived Usefulness</td>
<td>.04</td>
<td>.17</td>
</tr>
<tr>
<td>Intention to Use</td>
<td>.93***</td>
<td>.16</td>
</tr>
<tr>
<td>Psychological Factors</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Political Efficacy</td>
<td>.08</td>
<td>.17</td>
</tr>
<tr>
<td>Internet Self-Efficacy</td>
<td>.44***</td>
<td>.07</td>
</tr>
<tr>
<td>E-participation Needs</td>
<td>.83***</td>
<td>.06</td>
</tr>
<tr>
<td>Political Participation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Voting Participation</td>
<td>.14**</td>
<td>.05</td>
</tr>
<tr>
<td>Involvement in Interest Groups</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(nongovernmental organizations=1)</td>
<td>.08</td>
<td>.22</td>
</tr>
<tr>
<td>(labor unions=1)</td>
<td>.06</td>
<td>.53</td>
</tr>
<tr>
<td>(political parties=1)</td>
<td>-1.04</td>
<td>.88</td>
</tr>
<tr>
<td>Gender (Male=1)</td>
<td>.28</td>
<td>.19</td>
</tr>
<tr>
<td>Age</td>
<td>.03***</td>
<td>.01</td>
</tr>
<tr>
<td>Education level (College graduation or higher=1)</td>
<td>.57**</td>
<td>.23</td>
</tr>
<tr>
<td>Income level 6</td>
<td>1.00***</td>
<td>.31</td>
</tr>
<tr>
<td>Income level 5</td>
<td>.52</td>
<td>.33</td>
</tr>
<tr>
<td>Income level 4</td>
<td>.56**</td>
<td>.28</td>
</tr>
<tr>
<td>Income level 3</td>
<td>.63**</td>
<td>.26</td>
</tr>
<tr>
<td>Income level 2</td>
<td>.67***</td>
<td>.26</td>
</tr>
<tr>
<td>R²</td>
<td>.41</td>
<td></td>
</tr>
<tr>
<td>Max-rescaled R²</td>
<td>.44</td>
<td></td>
</tr>
<tr>
<td>Score test for the proportional Odds assumption</td>
<td>$\chi^2= 67.89; d.f=69; p=.51$</td>
<td></td>
</tr>
</tbody>
</table>

Note: For two-tail tests; ** p < .05; *** p < .01
As to the role of individual social capital in active e-participation, three social capital hypotheses are supported by the data. In H1, this research expects that trust in government is positively related to active e-participation. Consistent with H1, the results demonstrate a positive and significant association between trust in government and active e-participation ($\beta = .24, p < .05$). That is, e-participants with greater trust in government tend to post a greater number of suggestions on Oasis. In H2, we also expect that strong social ties are negatively related to active e-participation. As expected, H2 is supported by the data ($\beta = -.17, p < .05$). That is, e-participants who maintain strong offline social ties tend to post a smaller number of suggestions on Oasis. In other words, the results show that weak offline social ties are positively associated with active e-participation. The third hypothesis argues that civic norms are likely to be positively related to active e-participation. The data support H3 as well ($\beta = .08, p < .05$). Citizens are likely to post more suggestions when they have been frequently involved in volunteer activities.

Unlike the significant effects of individual social capital, three hypotheses related to e-participation management factors are partially supported by the data. Although citizen participation management literature emphasizes the importance of fairness in the participation process and information access, the data does not support H4 and H5. The findings may imply that fairness in the participation process and information access do not facilitate e-participants’ motivation to actively engage in e-participation. However, as expected, H6 is supported by the data ($\beta = .28, p < .05$). That is, e-participants tend to post a greater number of policy and management suggestions on Oasis when they receive sincere and useful feedback or they observe other participants receiving quality feedback from SMG employees.

Several control variables reveal significant relationships with active e-participation. Of the two TAM variables, the findings show that intention to use is positively associated with active e-
participation ($\beta=.93, p < .01$) while perceive usefulness is not. Among the three psychological variables, Internet self-efficacy ($\beta=.44, p < .01$) and need of e-participation ($\beta=.83, p < .01$) are statistically significant and positive, but political efficacy is not significant. Of the two political participation variables, voting participation is significant ($\beta=.14, p < .05$), but the three dummy variables related to involvement in interest groups are not significant. Age ($\beta=.03, p < .05$), education ($\beta=.57, p < .05$), and most income variables are significant while gender is not significant.

**Discussion and Implications**

The study results suggest that all three dimensions of individual social capital play crucial roles in shaping active e-participation. As discussed earlier, the role of trust in government in citizen participation has been debated. However, these findings imply that trust in government encourages citizens to actively engage in citizen-initiated e-participation (e.g. online policy forums on Oasis) because trust in government leads citizens to have a sense of cooperation with government and in turn, take appropriate actions. Meanwhile, one could argue that when citizens have greater trust in government, they are less likely to engage in government-initiated citizen participation (e.g., citizen participation in planning and budgeting process) because trust in government decreases their motivation to monitor government actively. The findings suggest that government leaders pay more attention to restore citizen trust in government in order to gain their cooperation and active e-participation.

Another important finding from the data implies that weak offline social ties, rather than strong ones, promote active e-participation. This finding implies that weak offline social networks can serve as an incentive because active e-participation provides an opportunity to build online social networks as a complementary means for mobilizing resources. Thus, when e-participants embedded in weak offline social networks actively engage in e-participation, they are likely to gain the complementary benefits
from online social networks (e.g. no redundant and new information, autonomy, lower maintenance cost), which serves their interests by reinforcing their resources.

Results of the study also found that there is a positive relation between volunteering and citizens’ active e-participation. The finding supports other scholars’ research findings on a positive relationship between citizens’ volunteer experience and political participation (Billig, 2002; Wilson, 2000; Youniss et al, 1997). The result implies that citizens’ volunteering experience matter for their active citizenship behavior of participation in local community concerns. Accordingly, creating more opportunities for youth and adults to volunteer in their local communities may be a wise approach to enhance active citizenship behavior in an era of collaborative governance.

Concerning the design and management of e-participation programs, this study’s findings show that fairness and access to information in participation process are not related to active e-participation, which is not consistent with citizen participation literature emphasizing the design principles of citizen participation. The inconsistency between the findings and literature might be related to the nature of the citizen participation channel. Citizen participation literature has mainly been constructed on the basis of government-initiated citizen participation in an offline setting, which creates, by its nature, some barriers to citizen participation. When citizen participation is initiated by government, it is likely that citizens face information asymmetric circumstances because the government, as an agent, has more information than the citizens who lack information related to key issues of the purpose of participation (e.g. participation in budgeting and planning process).

E-participation has been touted as a means of lowering the physical and psychological barriers of conventional citizen participation (Thomas & Streib 2003). Because of much lower cost for both entering and leaving e-participation sites, there is no strong economic incentive for e-participants to remain with the site. It is much easier for e-participants leave e-participation. For example, consider a
town hall meeting as a type of offline citizen participation. When citizens participate in the town hall meeting, it is not cheap for them to attend, continually pay attention, and commit to the meeting. Because of high opportunity and transaction cost, they might be more concerned about how government fairly treats them and provide the necessary information. However, e-participants may not as concerned about fairness in the participation process and information access because of the lower opportunity and transaction cost for them to engage in e-participation.

Lastly, the findings imply that government responsiveness – quality feedback – matters for facilitating active e-participation. The importance of quality feedback as a facilitator of e-participation is consistent with both conventional citizen participation literature (Kweit and Kweit 2004; King et al., 1998) and online community studies (Moon and Sproull 2008). Also, this finding supports a normative argument of the role of “listening bureaucrat” in enhancing responsiveness in public administration (Stivers 1994).

In summary, the study findings suggest that local governments pay more attention to the role of government in facilitating individual social capital as a facilitator of active e-participation and in building effective design and management systems of e-participation enhancing government responsiveness to citizens’ inputs.

**Conclusion**

While web-based e-participation programs have been championed as a crucial tool for e-government to facilitate citizen participation, there have been limited efforts to analyze the driving forces of active e-participation from e-participants’ perspectives. Active e-participation in local governance could matter for effective and transparent decision making and problem solving in local governance. This study proposed a model of active e-participation and tested the model using the survey data collected from the residents of Seoul who have hands-on experience with the e-participation
run by SMG. This exploratory study contributes to e-participation literature by uncovering both social capital and e-participation management factors affecting citizens’ active e-participation.

At least, three limitations should be noted: external validity, cross-sectional research design and online social networks. The results of this study could be outcomes of unique citizen engagement evolution that are affected by South Korea’s historical, political, and cultural contexts. Accordingly, more in-depth case studies in various regions and countries are needed to advance active e-participation models in local governance. Also, we suggest longitudinal research in order to better understand the factors affecting the sustainability of active e-participation. Since this study analyzed the role of offline tie strength on active e-participation, it is limited to understanding how online social networks affect e-participation behavior. Therefore, future studies are needed to extend the study model by incorporating the role of online tie strength.
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APPENDIX Survey Items used in the Study

Active e-participation (1 item)
How many suggestions you have posted on Oasis for the past three years?
1. 1 – 2 suggestions
2. 3 – 4 suggestions
3. 5 – 6 suggestions
4. 7 – 10 suggestions
5. More than 10 suggestions

Trust in government (1 item, 5-point Likert-type scale; 1: don’t trust)
To what extent do you trust that SMG operates in the best interests of society?

Civic norms of volunteering (1 item, 7-point Likert scale)
How often, on average, have you involved in volunteer works for the past three years?

Strength of social ties (5 items, 7-point Likert-type scale)
How often do you go out with the following groups of people for socialization (e.g. having lunch, watching movie)?
Family members
Neighbors
Friends
Co-workers
Members of social groups

Fairness in e-participation process (4 items, 5-point Likert scale)
(1) SMG has provided key stakeholders with an equal opportunity to participate in the Oasis program
(2) The proposal is selected fairly through Oasis process
(3) SMG has provided the citizens of Seoul with diverse opportunities to participate in policy making process
(4) SMG has provided the citizens of Seoul with an equal opportunity to participate in policy making process

Access to Information (4 items, 5-point Likert scale)
(1) It is easy to search for contents and proposals available on Oasis
(2) Oasis provides effective functions that deal with my questions (Help desk, Q&A, contact information)
(3) It is easy to submit ideas, receive feedback, and make comments on others on Oasis
(4) Oasis provides well-designed content structure

Perceived responsiveness (3 items, 5-point Likert scale)
(1) SMG has provided answers and feedback for my proposal in a sincere manner
(2) SMG has provided answers and feedback for others’ proposals in a sincere manner
(3) SMG has provided useful feedback for my proposal

Perceived usefulness (7 items, 5-point Likert scale)

Voting participation (4 items)
Have you voted in prior elections as follows?
2008 Presidential Election  Yes  No
2008 National General Election  Yes  No
2006 Seoul City Mayor Election  Yes  No
2006 Seoul Council Member Election  Yes  No
Political efficacy (3 items, 5 point Likert type scale)
(1) SMG actually uses my proposal(s) for making and implementing policies and programs
(2) My proposal is helpful for SMG to make and implement policies and programs even though they don’t use it actually
(3) My participation in Oasis helps SMG make a useful decision making and policy implementation

Internet self-efficacy (1 item, 4 point Liker-type scale)
How long have you had a membership of Oasis?