Should E-government Be Transformational and Participatory? An Essay on E-government in the Utilitarian Mode of Information Technology Use

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Abstract
This paper asserts that e-government works, in principle, in the utilitarian mode of information technology use rather than solitary and participatory modes. Each e-government stakeholder actually uses government Web sites to pursue his/her own material incentives and rarely expects government reform and e-democracy. Senior and executive managers tout transformational and participatory e-government symbolically and ostensibly for their managerial and/or political gain. The notion of transformational e-government is almost rhetoric since e-government simply reflects real government and transformation in government often involves complicate business process reengineering. Technological transformation is neither efficient nor desirable. Given utilitarian stakeholders who are less engaged, e-democracy is almost an illusion. E-participation in the policy processes is limited largely due to the lack of qualified stakeholders who have proper ability, willingness, and resources to use the application effectively. E-government is not transformational, revolutionary, and participatory, but rather instrumental and evolutionary to deliver government information and services online in the utilitarian mode or stakeholders’ focal point.

1. Introduction
Baum and Di Maio [1] propose the first e-government model that has served as a prototype of other e-government stage models. The Web presence phase is the simplest level, where basic information is provided on government Web sites. Citizens in the interaction phase are able to search information, download documents, and email to government officials. Transaction moves forward to make entire transactions available online. The most advanced transformation phase redefines service delivery and reshapes the relationship between governments and citizens. As a phase goes up from presence to transformation, complexity, time, cost, and legal protection requirement also increase.

The United Nations Public Administration Network and American Society for Public Administration [27] suggest five stages of e-government development on the basis of content and specific features available. In the emerging presence, a formal but limited Web provides static information, contact information, and FAQs, while enhanced presence makes available dynamic information, publications, newsletters, search, and e-mail addresses. Emerging and enhanced presences are similar to Baum and Di Maio’s presence phrase. Interactive presence supports formal interactions through e-mail and comment posting, database search, and downloading forms and application, whereas transactional stage provides complete and secure online payment. The final seamless and fully integrated presence provides all online information and services through a single entry point (portal) as a “unified package” (pp. 14 and 20). United Nations [30, 31] later replaces this last stage with networked (consultation and collective decision making) or connected presence that includes horizontal and vertical connections, infrastructure connection, connections between governments and citizens, and connections among stakeholders. Similarly, Hiller and Bélanger [12] suggest five stages of information (dissemination), two-way communication, transaction, integration (portal), and (political) participation. In West [35] begins with the (highway) billboard stage, moves to partial service-delivery, and (one-stop) portal stage with fully executable and integrated service delivery, and then eventually reaches interactive democracy with public outreach and accountability measures (p.8-9).

These existing e-government models predict linear, stepwise, and progressive development of e-government so that e-government begins with a basic stage (e.g., Web presence and cataloguing) and moves stepwise through each higher stage one by one [8]. These models implicitly suggests that a higher stage is better than its lower one with a motto of “more
technology is better” until reaching the transformational “e-government nirvana” (pp. 523 & 525). Coursey and Norris [8] conclude that existing e-government models are just normative and speculative “guesswork” that was created in a vacuum.

Norris and Reddick [19] analyze survey data of American local e-government in 2004 and 2011 and conclude that e-government has developed slowly and incrementally rather than has led to government transformation. They argue that the discrepancy between cyber-optimists’ prediction and empirical evidence results from (1) e-government models were not grounded on relevant prior studies on information technology and government, but were developed in a vacuum; (2) cyber-utopianism itself is technological determinism; and (3) public administration by its nature is incremental. Therefore, “e-government remains almost primarily about delivering services and information along with some transactions and interactions. E-government remains also a mostly one-way activity from governments outward” [19].

Then why hasn’t e-government been transformational? Why has e-government been less likely to transform or reform government? Is e-government’s destiny really incremental and evolutionary service delivery rather than revolutionary transformation and participatory democracy? Why? In order to answer these questions, this paper challenges both cyber-utopian and cyber-dystopian views and suggests three modes of information technology use: utilitarian mode, solitary mode, and participatory mode. The next section summarizes e-government information and services in each development stage.

2. Diversity of E-government Services

Electronic government (e-government) refers to “the use by governments of Web-based Internet applications and other information technologies, combined with processes that implement these technologies, to enhance the access to and delivery of government information and services to the public, other agencies, and other government entities or bring about improvements in government operations that may include effectiveness, efficiency, service quality, or transformation” (U.S. E-government Act of 2002). The core technological building block of e-government is Web-based information technology and its primary goal is to improve delivery of public information and services. E-government provides online information and services to the general public or citizens (G2C or C2B), business sector (G2B or B2G), and government itself including employees of departments and agencies (G2G). Some e-government applications (e.g., tax filing) require membership or registration that is limited to qualified users for the sake of security and privacy. Others are widely open to the general public without requiring membership at the expense of collective action problems like “flaming” among users.

Existing e-government models, despite some variation and inconsistency across models, are recapitulated in information, interaction, transaction, integration, and transformation (participation) although the final stage is dropped in Table 1.1 The first information (Web presence, catalogue, billboard, or publishing) stage provides static information of events, agendas, codes, ordinances, regulations, and FAQs, or allows citizens to download various forms, documents, video/audio clips. Citizens visit government Web sites to get contact information of civil servants in charge and search contents inside. This one-way communication needs basic Web technologies and browsing and has no substantial difference among G2C, G2B, and G2G in this stage.

The interaction (two-way communication) stage allows visitors to submit applications, search databases, and get other dynamic information like GIS maps. Citizens can communicate with civil servants in charge through email, chat, forum, bulletin board (message board), whereas they acquire information from Web (machine rather than human being) in the information stage. This two-way communication is either synchronous (online chat and forum) or asynchronous (email and bulletin board). There is no big difference among G2C, G2B, and G2G in this interaction stage.

The third transaction stage often involves financial transaction as in filing various taxes and paying utility, fee, and fine. Citizens can register and renew licenses and properties (e.g., auto vehicle registration) and cast a ballot online (i.e., e-voting). E-procurement is an exemplary G2B application. Government employees may purchase items and arrange travel (reservation) through G2G (intranet in government), which is evolved from traditional government information systems before Web becomes pervasive. Government manages paychecks and other financial transactions. However, paychecks provided in PDF and financial records extracted from databases are provided in information and interaction stages respectively. This stage needs more sophisticated technologies (e.g., public key infrastructure) than information and interaction stages to ensure security and privacy.

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1 See Hiller and Bélanger [12], Coursey and Norris [8], and Lee [17]. Lee [17] examines 12 e-government stage models and identifies a common frame with 10 stages including transformation and e-democracy (political participation) as highest two stages.
The next integration stage is an interoperable government portal that integrates online services across department and agencies of all levels of government and thus provides seamless one-stop services for citizens [12, 16, 27, 35]. Also an integrated intranet is used within government (G2G). This stage does not say particular online information and services.

The final stage, which is omitted in Table 1, is of transformation including participation and e-democracy [1, 12, 27, 35]. But the term “transformation” is not always clearly defined. In general, transformation means a fundamental, dramatic, and wide-ranging change. Kraemer and King [15] review so called reform propositions that information technology is a powerful instrument to change organizational structures and thus reform public administrations. Norris and Reddick [19] describe that e-government “would transform governments themselves, would fundamentally transform relations between governments and the governed, and ultimately, would produce electronic democracy” (p.165). A transformational e-government appears to involve change in the way of providing government information and services (i.e., business process reengineering, if not government reform) and in the relationship between government and its constituents (i.e., participatory democracy).

However, this transformation stage cannot be conceptually juxtaposed with information, interaction, transaction, and integration stages on the same continuum or dimension. This final stage of e-government does not measure the progress of e-government services and the degree of integration or technical sophistication, but is rather used to indicate desirability in most e-government stage models. A transformational e-government is perceived as just new and better one in practice. However, this construct is at best a virtual image or mirage that has misled scholars and practitioners significantly. For instance, e-mail and online forum are not only interactive but also participatory. Online voting and surveys, although transactional by its nature, are representative services in this transformation (e-democracy) stage. And transformation or revolution is relative to its baseline. An online service might be revolutionary in a society but not in others. Hence, transformation and e-democracy appear to be just cyber-utopian hypes and were mistakenly added to e-government stage models.

These e-government models are criticized for being linear, stepwise, progressive, and normative [8]. They put, “[T]hey are clearly at odds with the model's predictions that governments will move stepwise toward the adoption of more sophisticated e-government offerings, moving from information to transactions to integration and ultimately to transformation” (p. 532). However, this critiques is too much and harsh. Ronaghan [27] forewarns, “This is not to suggest, however, that in order to achieve immediate success, a country must follow this linear path, …” (p.11) and West [35] also echoes, “This categorization does not mean all government websites go through these exact steps or that they undertake them in a linear order” (p. 9).

### 3. Transformation, Reinforcement, and Normalization Theories

There are three schools of thought in the roles of information technology [21, 22]. Internet enthusiasts or cyber-optimists tout such positive effects of information technology such as transformation in government and society and participatory/deliberative democracy. Cyber-pessimists argue that information technology reinforces current states and deepens the digital inequality between information haves and have-nots [9, 20]. Similarly, Kraemer and King [14] conclude that information technology has been used to reinforce existing administrative and political arrangements rather than reform government administration. Both cyber-utopian and cyber-dystopian views are based on technological determinism that information technology influence society significantly, but posit positive and negative effects respectively.

The skeptics deem that information technology does not necessarily change society significantly in either positive or negative way. Information technology instead reflects or is shaped by society. Margolis and Resnick [18] claim “politics as usual”
and Uslaner [32] conclude that information technology is “not a threat to our society or its moral fiber” (p. 240). DiMaggio, Hargittai, Neuman, and Robinson [11] review Internet’s social effects in five research domains such as digital inequality, social capital, and political participation, and argue that the Internet’s impact depends on “how economic actors, government regulation, and users collectively organize the evolving Internet technology” (p. 310). These optimism, pessimism, and skepticism are respectively recapitulated in transformation, reinforcement, and normalization theories. Why can we reconcile these contradictory theories?

Verba, Schlozman, and Brady [33] differentiate political activities along three dimensions of capacity for conveying information, the volume of an activity (exerting pressure), and required resources such as money, time, and skills (pp. 43-48). Weissberg [34] argues that existing research on political participation focuses largely on electoral and familiar activities and thus fails to capture the variety of political participation and activism. Park [22] acknowledges the diversity of civic engagement and argues that e-government and campaign Web sites operate respectively in the economy and solidarity models with different effects depending on the type of engagement. Similarly, Park and Perry [23] illustrate that the impact of political campaign Web sites varies according to the type of engagement. These studies suggest that information technology use needs to be distinguished somehow in order to investigate its impact on society effectively.


We may ask such basic questions as “Who uses information technology services?” “Why do they use these services?” and “How do they use them?” to characterize the use of information technology services. Let us begin with purposes of and incentives to use information technology services.

4.1. Why? Purposes and Incentives

What are the purposes of information technology services and what are driving forces (incentives) to use? Clark and Wilson [7] distinguish three incentive categories in an organization (pp. 134-137). Material incentives are tangible rewards that have monetary values. Both solidarity and purposive incentives are intangible rewards without monetary values. Solidary incentives such as socializing, congeniality, sense of membership, maintenance of social distinctions are independent of or loosely coupled with the stated goals of organizations (pp. 134-135). Despite their material incentives, even commercial companies rarely have a stated goal of earning money. Purposive incentives are inseparable from the stated ends of an organization (purposes) that tend to be superpersonal, normative, or socially desirable goals such as eradication of corruption and government reform (pp. 135-136). While utilitarian and solidarity incentives benefit members directly, purposive incentives do not since members participate to pursue public values or public goods, which outweigh low prestige, penalty and threat, cost and time, and other material and solidarity disadvantages (p.136). However, the “purposive incentive” is not always positive but can be malevolent and antisocial no matter whether the stated ostensible goal is socially desirable [25].

This study employs Clark and Wilson [7] to modify Park [22] and thus suggest utilitarian or material, solidarity, and participatory modes of information technology use. The utilitarian mode is based on efficiency, while solidarity and participatory modes on volunteerism. Material rewards are driving forces of economic transaction and service delivery. The solidarity mode pursues mutual benefit of members and mobilization of members and/or supporters. Finally, participatory mode is grounded on the purposive incentive that is tightly coupled with participation itself and self-fulfillment of participants.

4.2. Who Uses Information Technology?

Three groups of information technology users are considered. The first group embraces consumers or clients, employees in firms and governments, and the general public. These users are inclusive (unrestrictive) but less committed to information technology services. Of course, customers, citizens, public servants, and executive and elected managers have their own interests in transaction. The second type consists of supporters, major parties, associations, and like-minded groups (e.g., races, hobbies, and diseases) who tend to pursue mutual benefit and mobilization. The final type of users includes activists, minor parties, issue-based groups, and advocacy who tend to have purposive incentive and be highly committed to their purposes.

4.3. How? Activity and Interaction

The use of information technology services is either an individual activity or collective action. Purchasing goods and filing income tax online are undertaken by an individual alone, whereas online forum and social network media are jointly used. Rheingold [26] illustrates how “smart mobs” utilizes the information that they use
technology and overcomes the collective action problem to cooperate effectively with each other (pp. 56-61).

E-government applications may be grouped into information provision, interactions, and transaction depending on information flow [22]. Information provision is a one-way information flow from the service provider to customers, while information in transaction flows in the opposite direction (e.g., submission of a civil application). Interactive services such as online forums and live chat provide a two-way communication channel. As technology progresses, however, various online information and services tend to be provided as an integrated package like social network media (e.g., facebook), blurring the lines between one technology and the others.

Stromer-Galley [29] distinguishes computer-mediated human interaction from media interaction. The former is the “prolonged interaction between two or more people through the channel of a computer network,” while the latter occurs between users and the medium itself (pp. 117-118). Computer mediated human interaction occurs in two-way communication channels such as online forums, chat rooms, and e-mail. Online radios and chat rooms are real-time two-way human interaction tools that are constrained by time. Two-way human interactions often depend upon the attitudes of the two parties involved. If one party (e.g., government) “narrowcast” and other parties (e.g., general public) remain passive, this interaction is virtually one-way. By contrast, media interaction includes surfing the Web through hyperlinks, downloading various files, filing taxes, placing orders online, listening to music, watching video clips, and playing games. Online fundraising and poll are media interaction as well as one-way transaction.

5. Modes of Information Technology Use

This study elaborates Park’s [22] economy, solidarity, and action models of information and communication technology use and suggests three modes of information technology use on the basis of discussions in section 4 (Table 2). These ideal modes are theoretically distinct but not always clear in practice. Also the utilitarian model is not necessarily worse than solidarity and participatory counterparts. Success or failure of an information technology application does not depend on mode of information technology use itself, but on whether it provides right information and services in the right format to the right person in the right time at the right time.

5.1. Utilitarian mode: Normalization

The utilitarian mode of information technology services is based on material incentives to maximize benefits of and minimize costs of transaction (service delivery). Users include customers, employees in the public and private sectors, and the general public (citizens) and are marginally committed. Cost savings in information dissemination and transactions are the driving forces of information technology adoption in firms and governments. E-government portals provide online forums to discuss policy issues, but this public outreach is not a primary concern. The transaction is undertaken individually and involves primarily one-way and media interaction. This utilitarian mode of information technology use reflects the skepticism with the normalization hypothesis.

5.2. Solidary mode: Reinforcement

Solidary mode pursues mutual benefits (including feelings of belonging) of members and mobilization of supporters. Major parties and like-minded groups

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Brainard and Siplon [6] identify two models of nonprofit organization roles: economic model and voluntary spirit model. Nonprofit organizations in the economic model relies on material incentive and pursues efficiency, whereas the voluntary spirit model is based on solidarity and volunteerism to pursue mutual support and community-based mobilization (pp. 437-442).
utilize information technology in this manner. Voluntary users tend to participate individually or collectively in closed or semi-closed homogeneous groups. Campaign Web sites of major parties target primarily party members and supporters rather than adversaries and independent voters in order for reinforcement, fundraising, and volunteering [5]. Users in this solidarity mode are committed to some extent but tend to leave easily since they are less empowered and purposive. Like the utilitarian mode, solidarity mode relies more on one-way and media interactions rather than two-way and human interactions.

5.3. Participatory mode: Transformation

The final participatory mode is best used by activists, minor parties, issue-based groups, and advocacy, who are enthusiastically committed to archiving their purposes. Self-empowerment incentive is not flexible but tightly coupled with purposive and normative goals of participation and self-fulfillment, which drive empowered members to eagerly take part. Users in the participatory mode are not just customers or passive members, but rather service providers and managers. Self-sustaining and self-governing distinguish active participants from simple volunteers and supporters. The participatory model is transformational (getting citizens engaged) while the solidarity mode is reinforcing. Even if discouraged, tightly committed activists are less likely to give up and leave easily. Monetary incentives also appeal to even to self-empowered activists, but its impact is not as substantial as in the utilitarian and solidarity modes.

This mode of information technology use appears especially promising for disenfranchised activists and issue-based interest groups in the information era [4, 5, 24, 25, 33]. Pickerill [24] argues that small interest groups use information technology more effectively than well-established organizations. In particular, narrowing facilitates the fragmentation of interest-based group politics and a shift toward a more fluid, issue-based interest group politics [4, 33].

6. Who Uses E-government and Why?

The key question here is who gains and who loses from e-government (Kraemer and King, 1986, p.492). Individual citizens (G2C) and companies (G2B), as customers, pursue primarily an efficient way to obtain information and services from e-government. It is almost obvious that saving money and time (effort) are the strong driving forces of these customers who want to renew their auto vehicle registration, file their income tax, or bid in an e-procurement system. If these e-government applications are difficult to use, time-consuming, and costly, then customers with economic and utilitarian incentives will not use them and visit a department or agency instead no matter what purpose or goals (e.g., openness, transparency, and anti-corruption) such e-government applications have. This is a typical one-way and/or media interaction. Customers don’t want to e-mail civil servants or leave questions in a message board to complete transaction; such e-mail and posting themselves imply some problems (e.g., inconvenience and higher effort) to be resolved in these online services. It is just a myth to portray a citizen as an intelligent, omni-rational, empowered, and participatory customer who knows his preferences, has knowledge and skills to use information technology, and has ability and willingness to engage [2].

Ordinary civil servants differ from senior/executive managers and politicians (elected officials) in their incentive structure. Like customers and employees in companies, most civil servants tend to have material incentives when serving clients (citizens) and performing their tasks within government (e.g., paycheck services, benefits services, and financial systems). If G2C and G2G applications are not easy to use and come with additional burdensome workload, they are not willing to use them even if required. Civil servants do care if e-government can save time and effort of doing their jobs, if it imposes additional burdens and increases labor intensity, and/or if e-government helps strengthen monitoring and infringes their privacy especially in G2G. Accordingly, two-way and human mediated interactions are hardly favored by general civil servants because they are burdensome in terms of workload and unexpected, uncontrollable troubles (e.g., “flaming” starting from simple complaints). Government employees do not appear to care much about purposes of online public services (e.g., transparent and responsiveness) although they unwillingly pretend to care.

Senior/executive managers and politicians (elected officials) have an incentive scheme that is different from what ordinary civil servants and citizens have. Managers’ incentive is also utilitarian incentive to pursue their managerial or political gains (e.g., control and justification) rather than tangible material rewards. They often emphasize transformation, government reform, e-democracy, and e-participation that cyber-optimists tout, but such noble purposes tend to be just rhetoric. They are willing to initiate and use e-government applications so that and only when these applications work for their welfare as opposed to citizens’ [15]. Stromer-Galley [29] argues that candidates avoid online interaction because (1) it is burdensome to busy candidates, (2) they don’t want to
lose control over contents and messages in chatting rooms (forums) and bulletin boards, (3) and they don’t want to lose ambiguity of their vision and motto (pp. 122-127). Like political candidates, senior/executive managers simply pretend to favor two-way and computer-human mediated interaction but rarely involve such deliberative interaction. They urge citizens to make policy suggestions and comments, but a few of them actually take citizens’ feedback into account seriously in practice.

Therefore, the equilibrium in e-government is the utilitarian mode of information technology use. Not only citizens and companies, but most civil servants also do not want two-way and computer-human mediated interactions from which they cannot actually benefit. Most citizens and civil servants appear to ostensibly expect solidarity, transformation, and/or participation from e-government. They would rather want efficient service delivery and other material incentives. Despite their rhetoric for political gain, senior/executive managers, in fact, cannot benefit directly much from two-way deliberative interactions and thus want to avoid or minimize them.

7. Why Transformational E-government?

Existing e-government models do not describe the ultimate stage clearly, but instead, simply list such fancy words as transformation, participatory or interactive democracy, e-participation, e-democracy, digital democracy, and so on. A transformational e-government is expected to “cause or permit the relationship between citizens and governments to fundamentally change in positive ways, generally producing much more citizen-centric and responsive government and thereby increasing citizen trust in government dramatically” [8]. Is this “e-government nirvana” [8] distinct from previous stages? Can’t any e-government application in the information, interaction, or transaction stage be transformational and participatory? Why not?

Most e-government enthusiasts appear to believe consciously and unconsciously that transformational e-government is achievable and desirable. In general, transformation involves business process reengineering that results in fundamental, radical, and revolutionary change in the way of doing business. Bellamy and Taylor [3] argue, “[The rhetoric of business process reengineering is] suffused with the conviction that ICTs must be introduced so as to drive radical, institutional change” (p. 76). West [35] puts, “[G]overnment officials emphasize a model of e-government based on service delivery as opposed to system transformation. The public sector is less apt to think of the Internet as a tool for fundamental institutional change than for the delivery of particular services to business and the middle class” (p.10). What is wrong with this service delivery e-government? Should e-government be really transformational?

If transformational e-government means actual government reform and reinvention, the causal direction is reversed. E-government itself is a tool that government uses for doing its business (delivering public information and services). A government is mirrored by its e-government. An e-government does not transform structures, processes, and relationships within and among governments per se but reflects existing structures, processes, and relationships. A good e-government mirrors a “reformed,” “transformed,” and/or “participatory” government. Bellamy & Taylor [3] state, “If changes occur in the information itself, … then that is because of shifts within institutional structures” (p. vii) and conclude, “[H]eroic scenarios for reinventing government through the application of ICTs are fundamentally misleading. The institutions of governance will mould and fashion revolutionary potential of ICTs into an evolutionary reality” (p. 170). Transformation is an “input” of e-government rather than its “output.”

E-government is not an all-round “transformer” that automatically ensures reinvention, transparency, openness, accountability, responsiveness, and so on. Transformation in structure and system (as opposed to simple automatization or computerization) requires BPR during analysis and design stages, which is oftentimes a complicated and tough process due to its social and political natures. An innovative e-government is not likely without proper reengineering of business processes of all levels of governments and their cooperation (e.g., amending related laws and sharing information). It is not likely that senior/executive manages are always willing to use e-government to transform government and power structure even if a reengineered and well developed information system is ready [15]. West [35] puts, “institutional arrangements, budget scarcity, group conflict, cultural norms, and prevailing patterns of social and political behavior, … restricts the ability of technology to transform society and politics” (p. 6). Kraemer and King [15] conclude that information technology has never transformed government administration (p.11).

If transformation means modernization of online information and services by applying sophisticated or cutting-edge technologies, this is “technological transformation” rather than “systemic and structural transformation.” E-government in this fashionable and technology driven approach, as opposed to functional and content driven one, is often endorsed especially by tech-savvies and technocrats who have plunged into
such e-government benchmark races. A proper technology is determined by task and technology fit, not by technical sophistication. For example, mobile payment application like M-PESA in Kenya is built on a basic mobile service (short message service) but successfully serves “unbanked” communities where bank services are rarely available and mobile penetration is high [13]. Simply cataloging static information about incoming election may be as valuable as renewing auto vehicle registration and paying taxes online as long as these applications provide public services appropriately.

Sophisticated or cutting edge technologies are oftentimes cost-ineffective and less stable. They also require higher computing resources and limit access to information and services. E-government is not free but funded by tax, user fee, and/or other sources. It is reasonable to put more emphasis on widely used services than on ones that only a few want (e.g., instance messaging and video on demand). More important is stable and functional service delivery rather than trendy and stylish online services. Given various demographic profiles of citizens, public organizations have to minimize use of cutting edge technologies to make e-government more accessible to those who are old, have disabilities, and/or do not have high computing resources.

The fundamental question here is not how to develop a technologically sophisticated e-government (application), but how e-government can satisfy clients (i.e., government employees and citizens) by assisting them to do their jobs efficiently and effectively. E-government needs to ask such questions as, “Are online information and services what citizens want to get (necessity)?” “Are we delivering right information and services (relevancy, completeness, accuracy, and reliability) to the right audience (target) at the right time (timeliness) and in the right format (simplicity and easiness)?” “Can citizens access and use the information and services in a reasonable manner (availability, accessibility, and usability)?” and “Are the technologies used in an online application cost-effective (e.g., security and efficiency)?”

Proponents tout e-government’s potential for openness, transparency, accountability, responsiveness, and anti-corruption. However, these social values are, in fact, by-products or indirect consequences of use of information technology in the utilitarian mode. If an online public service is developed for the sake of accountability and anti-corruption but is difficult to use and impose unnecessary burden for users, the application will remain almost obsolete right after its spotlighted debut for senior/executive managers. All stakeholders have their own utilitarian incentives and do not care much for purposes except the initial period. Hence, there is nothing wrong in service delivery oriented e-government. This argument does not, however, necessarily overlook the importance of such social values as transparency and accountability.

8. Myths of Participatory E-government

E-government models explicitly take it for granted that e-government, although not likely now, will reach e-participation and e-democracy eventually [12, 35]. The most common example of e-democracy is e-voting that enables citizens to register and cast a ballot online. E-voting itself is a transaction application, however. Does this transaction service have potential to get apolitical citizens engaged? Most constituents will to expect saving time and money to vote from e-voting rather than participatory and direct democracy. If e-voting is difficult to use and time consuming for some reasons, engaged constituents will visit a polling booth but apolitical citizens are not willing to cast their ballots at the expense of time and effort. Notification of the election day and related information is one-way communication in the information stage and simply solicits votes in an efficient way without influencing constituents significantly. These applications are examples of the final transformation or participation stage but just illustrate the utilitarian mode of e-government use. It is notable that the utilitarian mode is neither necessarily unsuccessful per se, nor inferior to solidary and participatory modes.

What if an online service (e.g., bulletin board, chat room, or facebook) in a government Web site allows citizens to post their political views or a message to support a candidate and blame his/her rival? What if an issue develops to destructive, hostile, and uncontrollable debate so called “flaming?” Is it plausible or acceptable that government or civil servants provide such service? And what if an incumbent president and mayor tend to post, if not paint, their promotional materials (e.g., event photos and video streams) heavily on the government as if e-government is his/her own campaign Web site? Is this e-democracy likely and/or desirable? Probably not. An e-government is inevitably political during its design and development stages [10], but it should ensure administrative neutrality although it is difficult to draw a clear line of acceptability.

If e-participation means citizens’ participation in policy process and or “public outreach,” then it makes more sense than e-democracy. However, only a few citizens have proper ability (knowledge and skills),
willingness, resources (time an money), and efficacy for deliberative activities. Forty four percent of American Internet users visit e-government to get data about government, while only 13 percent of them read the blog of a government agency or official and 2 percent follow government agency or official on Twitter with big educational gap [28]. Senior managers in general pretend to favor two-way communication and tell citizens to make policy suggestions but do not have strong incentives to take individual comments into account carefully in policy processes. Downloading video clips, reading blogs, receiving text messages, or following on social networking media does not appear to make significant difference in political participation. Nevertheless, it is likely to develop a successful e-participation service like “Wiki government” where qualified and motivated participants and public managers are willing to introduce and use such application [21].

9. Conclusion: “Government as Usual”

This paper suggests three modes of information technology use and then asserts that citizens, firms, and public servants use e-government basically in the utilitarian mode where these stakeholders find their equilibrium or focal point. Despite rosy rhetoric of transformational and participatory e-government, e-government is used largely by citizens and public servants who are willing to take advantages of efficiency and material incentives. Information search, service delivery (transaction), one-way interaction, media interaction are commonly preferred. Major political parties and like-minded groups will use information technology in the solitary mode. They are targeting at their supporters and members regardless of their ambitious slogans and mottos. Finally, minor parties and issue-based activity groups with self-empowered incentives utilize information technology in the participatory mode. This argument does not, however, mean that e-government shouldn’t be transformational and/or participatory in a general sense.

A transformational or revolutionary e-government, if any, requires systemic and structural transformation of government in advance. Rather than e-government reforms government, government and stakeholders determines e-government. E-government simply reflects current level of government and users; good government, public servants, and citizens will have good e-government. “Government as usual” is neither necessarily transformational (utopian), nor reinforcing (dystopian). It is very difficult and time consuming, if not impossible, to reform the way of doing business in government where many technical, managerial, and political issues are intricately intertwined. Hence, it is not surprising that Norris and Reddick [19] fail to find empirical evidence for revolutionary change and transformation in e-government.

A transformational or participatory e-government appears to be unlikely and just a misleading mirage. The “transformation” in existing e-government models appears to mean “technological transformation,” which is neither efficient, nor desirable. E-government is not “transformer” but an administrative tool to provide public information and services online. We need to ask how to develop and use e-government applications properly rather than look for “e-government nirvana” that is transformational only in a technological sense. The fundamental question we have to ask is “not what the Internet will do to us, but what we will do with it” [25].

10. References


[10] de Vries, W.T., “A Review of the Political Nature of ICT in G2G Integration Based on 3 Cases from the geoICT


