Technology acceptance in public organization: failure to launch
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ABSTRACT
This paper aims to look at the issue of motivation, attitudes and behaviour as well as organization culture role in technology acceptance within the public sector organizations. Studies of technology acceptance and resistance have hinted at the importance of organization culture and the cognitive and physiological states of employees to the performance of organizations. It is argued that the public organizations today face the dilemma of managing technology acceptance. Resistance to technology was an essential factor to be considered in any changes process, since a proper management of resistance is the key for change success or failure. This provide a review and discussion on the relationship between the obstacles exist towards technology acceptance that has been neglected by the management. The proposed idea would practically improve the implementation of technology acceptance in public sector organizations and reveal the obstacles exist in implementing organizational change through technology acceptance.

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Akmar, 2008). Even though it is difficult to compare the practices of e-government between countries, however, their sheer heterogeneity in terms of economic development, regime type, cultural patterns, telecommunications, infrastructure, and internet usage could be the factors of the level of technology savvy among public sector employees (Piderit, 2000). However, the weakness in service-delivery stage of e-government has lead to low performance of public sector employees.

**Literature Review**

**The role of motivation in determining technology resistance**

Davis et al. (2007) noted that an individual’s motivation in using new technology affects their reaction to the implementation of new technology. A strong motivation in using new technology can overcome many difficulties, whereas a strong motivation in using the technology can cause an individual to erect additional barriers as protection (Bovey & Hede, 2001). According to Cheng and Petrovic-Lazarevic (2004) motivation to change is regarded as one of the practical strategies to be implemented in group settings. Collective and individual personalities have a tremendous impact in the success of organizational change (Long & Spurlock, 2008). Fear and anxiety are strong forces behind resistance, and in this case, resistance to technology (Fairbank & Williams, 2001). The starting point for skill assessment required to utilize technologies varies greatly among civil service employees. The motivation to overcome that fear and learn is linked to the personality type. Individuals in non-technology oriented departments could find technical knowledge intimidating, if not completely useless. In these cases, interventions are necessary to help individuals overcome their fear and sense of personal inadequacies (Benson & Dundis, 2003). According to Ampofo-Boateng et al. (1997) each individual brought their own characteristics as well as their attitude which influence their behaviour towards technology change. Motivation brought the people attitude and behaviour when employees have motivation and high confident level to use technology, people will have belief that they can learn and understand technology. Then, people will behave their behaviour as well as their motivation and attitudes. For this reason, attitudes and behaviour are linked to openness to technology changes (Reshef, 1993). Thus, we propose that:

**H1:** Employees' motivation plays an important role in determining the success implementation of technology acceptance.

**The role of attitudes in determining behavioural intention on technology resistance**

In contrast, motivation needs to be transformed into attitudes and then attitudes will be demonstrated into behaviour to explain the technology resistance among employees (Adams et al., 1992). Ajzen and Fishbein (1980) discovered that changing organization is as messy as it is exhilarating, as frustrating as it is satisfying, as muddling-through and creative a process as it is a rational one. When change introduced to others, the method and speed of the introduction affect its success. Individual and organizations express behaviours indicating acceptance or rejection of the change. Attitudes towards using technology is defined as the user’s evaluation of the desirability of his or her using the system; a function of the subjective probability that the usage behaviour will lead to a particular outcome and a rating of the desirability of the outcome (Eagly & Chaiken, 1998). Each individual brought their own characteristics as well as their attitude which influence their behaviour towards technology change (Bentler & Speckart, 1979). Employees represent their behaviour from their own feeling and belief or known as attitude (Schneider, 1994). Thus we argued that if employees have feeling or belief that they can learn and use technology, the acceptance of the new technology is much easier and they would willingly try to overcome the resistance to change. Albert ad Whetten (1985) supported that a positive attitude towards computers is an indication of lower resistance towards technological change and negative attitude represent the higher resistance toward technology change. Conner and Sparks (2002) and DeSteno et al. (2004) concluded that positive attitudes that demonstrated into behaviour are fundamental in implementing new technologies. Thus, we propose that:

**H2:** The role of attitudes in determining behavioural intention on technology resistance could facilitate change acceptance among employees.

**The role of organization culture in technology acceptance adaption**

According to Crano and Hannula-Bral (1994) motivation can be subsided; attitudes and behavior can be altered if organization culture does not play their own role in technology acceptance to eliminate resistance to organizational change may result from one or a combination of factors such as substantive change in job, reduction in economic security, psychological threats, disruption of social arrangements, and lowering of status or status quo. Gargiulo and Benassi (2000) further explained that employees resisted to change caused by status quo that need to be protected or keep at their comfort zone. Some researchers believed that the introduction of technologies will trigger behaviour changes and attitudes in organizations (DeLong & Fahey, 2000). Similarly, Piderit (2000) suggested that resistance may often involve a sense of ambivalence whereby employees’ feelings, behaviours, and thoughts about the change may not necessarily coincide. Accordingly, Bovey and Hede (2001) proposed that resistance can be viewed as a multidimensional attitude towards change, comprising affective, cognitive, and behavioural components. Attitude is very difficult to change once they had been learned and became norms and resistance to technology change will remain useless. Therefore, management needs to embed the culture of readiness technology change into the organization culture to inculcate norms into practice. Cohen et al. (2005) concluded that organization culture would pushes technology away and would create more resistance if the obstacle to effective organizational changes are not accounted for. Thus, we proposed that:

**H3:** Organization culture role in injecting employees’ confident to accept technology.

**Conclusions**

In this paper, it is argues that technology acceptance is crucial in public sector as it is transparently crucial in private sector to liquidate the speed and efficient. However, employees’ motivation may create a glass wall that either impede or eliminate the potential for successful technology acceptance. Thus, the quality of relationships between motivation, attitudes and behaviour as well as organization culture has major implications for technology acceptance. This is the case irrespective of which factors is under consideration.

Engaging in technology acceptance is a risky venture yet profitable in long run and some degree of confidence must exist between the parties involved to do the right thing.
If relationships are perceived to be poor, then significant resistance technology will occur; even the organization realized that she can benefit from digitalization information system. It is important to note that although the construct have been treated independently, this is no suggestion that there cannot be interaction effects. Since, all of these factors are operating simultaneously within organizations, it is likely that these factors will be interacting and will have an impact on technology acceptance.

This paper is significant because it addresses an issue of practically important to public sector. That is, how to better manage the challenges posed by motivation, attitudes and behaviour to technology acceptance, particularly without directives from the surrounding culture upheld by organization. The reinforcement of the idea of technology acceptance is generally a complex issue, is further complicated when involving cognitive and psychological states of employees. Technology acceptance not for itself but for the competencies is provides; yet what work in one public organization is not necessarily appropriate for another.

References