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Research paper

Identifying Elements to Implement E---Governance: Role of Organizational Readiness, Authority Readiness, Customer Readiness, Competency Readiness and Technology Readiness

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Abstract

In this research paper, the main purpose is to investigate the concept of structural display for e-Government Readiness Assessment (ERA). In the paper, six major elements are identified as those that play a crucial role in executing e-Government activities. Before propelling e-activity, it becomes important to consider such fundamental variables that play predictive roles relative to the ability to implement practices while abiding by certain prescribed regulations. In the study, major variables that have been investigated include legal readiness, technology readiness, competency readiness, customer readiness, government and authority readiness, and organizational readiness. From the perspective of organizational statuses, the paper examines an e-Government bureaucratic nature, long process deferrals, and business processes. Regarding the attributes of leadership and governance readiness, it is imperative to note that various parameters have been assessed. These parameters include the responsibility for open occupations, how authorities perform, the benefit of understanding, and the significance of e-activity administration and authority. From the perspective of customer attributes, a major focus involves principles of security, trust, and openness. Regarding the competency status, a major consideration under examination involves a reducing number of qualified workforces, as well as some of the diverse strategies through which this issue could be addressed. Another notable feature involves technology preparation and implementation in which major issues under examination include the establishment of secure trade administration foundations, information and application sharing, inheritance frameworks, current innovation, correspondence, programming, and equipment. Finally, the attribute of legal preparation has been examined relative to the Malaysian Temporary Law No. 85's 2011 appropriation has gained in-depth analysis; especially in relation to the adoption of e-activity and security. Overall, the chief motivation of the paper involves te growing need to gain understanding of the level of readiness towards implementing e-Governance.

Keyword: *E---Governance, Knowledge Management, Readiness*

1. Introduction

In most cases, governments have shared basic qualities through open administration. However, connections between governments and natives continue to be overseen by law. Furthermore, the law calls for government offices to impart information to various firms and, in some cases, the citizenry. In most of the parts of the world, many residents treat governments with suspicion. For e-government implementation, a fundamental pre-condition involves the needs of the public. An example is a case involving specialized foundation whereby e-governance tends to be achieved via expert abilities and lawful structures [1]. A question that arises is how can legislative authorities evaluate the level of e-government preparation in situations involving a shift in prerequisites? [2].

It is also notable that the e-government's status stretches beyond administrative bodies. Instead, it affects the evaluation of platforms such as private area advancement, data approaches, training, financial wellbeing, existing budgetary assets, human assets, government institutional structures, and society. Therefore, e-governments exhibits different measurements, with each requesting cross-coordination, methodology, and initiative; upon which a combination of these forces yields innovations that assure the realization of the perceived vision [3].

In e-government arrangements, four stages have been documented. These stages include e-government planning, plan implementation, readiness assessment, and strategic planning [1]. Given that the Malaysian government has propelled the principal state, the eventuality is that the specified vision and destinations have paved the way for the adoption and implementation of the next stage, which comes in the form of readiness assessment. Indeed, readiness assessment forms the current study's central subject of investigation.

Through the launch of E-Government Malaysia (2000), the Malaysian government can be perceived to have recognized the importance of embracing e-activity. This recognition also calls for the planning of system displays through which different government departments can

achieve their goals and objectives. Some of the building squares that are worth indicating include management, skills development and education reform, regulatory and legal framework development, the development of the technology infrastructure, and e-service applications identification in the form of fast-track projects.

2. E---Governance Practices

2.1 Development and Organizational Structure

The attribute of development and organizational structure reflects the current study's significance in contribute to the concept of e-governance; especially in relation to the aspect of status evaluation. An emerging concept involves hierarchical status appraisal, which involves the organization of departments from top to bottom to ensure that information is gained from clients towards tailoring services in relation to their needs and preferences [4]. Additional factors that are worth considering while serving customers include process and information excesses, copies of reports, copies of work and endeavors, the use of complex techniques, and long process delays [5]. Notably, acquired abhor regarding government management tends to hinder the collaboration between governments and their constituents. This barrier also makes it difficult to computerize all government business forms, despite the criticality of the latter process [1]. Hence, concepts of organizational structure and business process are worth investigating to predict solutions to the aforementioned barrier.

2.2 Business forms

Among space specialists and state boards, the procedure stream forms a central platform and key determinant of system success. Particularly, the procedure stream has been documented to encourage adherence to certain stated or specified procedures; with the law playing a moderating role. Therefore, establishing and implementing a procedure stream adds to process enhancement. However, regular criteria from different viewpoints are worth considering; including those embraced by employees, businesses, governments, and residents. For the proficiency measurement rules applied during process appraisal, major parameters to consider include the average number of stations that an administrative subject visits, the average amount of time consumed towards task completion, the average number of administrative journeys, the aspect of process electronic delivery, and process automation; with all these attributes expressed in percentage [1].

2.3 Association hierarchal structure

When positive enhancements are achieved on a given procedure, there is likely to be a significant change in an organization. For instance, changes might be realized in organizational laws, the representatives' new jobs, the association's new jobs, and the hierarchical structure. Hence, all firms associated with a certain procedure, which might have undergone positive enhancement, are expected to embrace process-technical integration, translating into a specialized form of foundation integration [6].

2.4 Initiative and administration preparation appraisal

Indeed, it is evident that practices of governance and leadership imply that e-governments are likely to evolve. However, concerned authorities ought to ensure that they keep abreast with legal trends to avoid contravening regulations that dictate the establishment of e-governments. Hence, collaboration among the concerned departments remains important and a factor that is worth considering.
From the insights above, effective e-governments do not arise from mere drafting of laws. Instead, there is a need to alter the manner in which the concerned authorities share information among natives, organizations, and divisions, perceive their roles, and how they think and act. The eventuality is that the accomplishment of the e-governance practice calls for the re-building of business forms among administrations; both form the context of the overall government and within individual offices.
From the viewpoint of science and innovation, executives or administrators operate at different levels [7]. For example, some are charged with IT governance in which their main role involves empowering the utilization of technological expertise. However, it is worth indicating that currently, about 75 percent of organizations continue to experience non-existent or ineffective IT administration practices, yet the IT administration practice plays a crucial role on steering responsive approaches in the current business arena. Hence, the need to review the current administrative models to recommend feasible solutions to any perceived challenges cannot be overstated [8]; including the establishment and recognition of the beneficial role of effective administration and initiative[1]. To achieve such improvements, some of the strategies that could be embraced include the definition of business progression and vision, the establishment of new policies governing administrative necessities, the recognition of service-level client benefits and cost and quality assessments, and the identification of service managers characterized by end-to-end obligations for conveying administrative duties.

2.5 Client availability

Electronic Government is coordinated toward all residents and organizations that open organization has a mission to serve, including people that are disabled because of physical, social, monetary, topographical, or social components. Clients can't be treated as a homogeneous gathering and along these lines availability relies upon openness, culture and monetary status of various groups[1]. The principle concerns with respect to client availability are Accessibility Concerns and Trust Concerns.

Openness concerns: The capacity to get to taxpayer driven organizations offered by e-government, that incorporates Social, Cultural, Disability and Economic concerns, the Social concerns where a few people like to direct the most straightforward business exchange face to face contact.

The Cultural concern incorporates dialect and education boundaries. The Disability concern implies individuals with handicaps can be victimized.
The Economic concerns, includes taking in to contemplations the issue of the advanced separation, restricted community to the web, absence of applicable abilities among open and local officials and the destitute individuals who are un ready to purchase gadgets to get to the Internet.

Trust concerns: Trust is a focal characterizing part of numerous monetary and social corporations. The conviction the other party will carry on of course in a socially mindful way; and in doing as such, it will satisfy the confiding in gathering's desires. Henceforth, trust decreases the social multifaceted nature that is the aftereffect of individuals being autonomous operators whose conduct can't generally be controlled or anticipated[9]. There are a ton of worries about the security of data that is gathered and utilized by open associations. These worries are recorded as:

- Confidentiality: to guarantee nobody is prying on my information.
- Privacy: to guarantee my information will be dealt with just for the reason it was requested and nobody else will utilize it other than the beneficiary.
- Authentication: to check the personalities of the two gatherings.

These requests can be accomplished around actualizing the Public Key Infrastructure PKI, which just signifies "Building confided in methods for correspondence over open and private systems", all e--- activities will be reliant on computerized marks and advanced declarations. PKI is tied in with anchoring the entrance to systems and development of information and data of those systems. PKI addresses dangers in the zones of validation, repudiation[10]. privacy, integrity and non---competency status: Competency availability implies the presence of qualified work force in the general population part, those significant assets could be perpetual local official, re---appropriated assets, contract transaction aptitudes, change the board, relationship the executives, contract organization abilities and task the board. For the long run, the administration needs to consider protecting a wide range of required abilities as a local official, or as outer substances from the private segment. Innovation availability: Technology preparation includes every single essential innovation to empower the e---activity that incorporates equipment, programming, correspondence and systems foundation, Internet entrance, programming application, inheritance frameworks and the present association's innovation and electronic frameworks.
The fundamental worry in this piece of preparation is the accessibility of expert government aptitudes. Additionally it is imperative to give an assortment of kinds of innovations to ncourage the execution of e---government. In such manner, we are discussing sites plan and execution, propelled web devices to facilitate the entrance to government entryway, alluring look and feel gateways, bilingual entries, more affordable gadgets to get to the Internet and keeping up client security and protection. The administration interest in current data advances and the heritage frameworks must be the primary focal point of the e---activity. The other piece of innovation availability is Communication Technology Infrastructure (CTI).

The principle correspondence bearer in Malaysia is the Malaysia Telecommunication Company. This organization possesses the correspondence offices of wired associations. The legislature is as of now in a procedure to issue new licenses for different contenders. In the territory of portable administrations two organizations give the administration. Likewise different organizations will share the market extremely soon [1]. The Communication Technology Infrastructure (CTI) needs upgrades in some areas[11], where, the correspondence arrange was intended for voice exchange.

- Low speed computerized country systems don't exist; which implies obstructions in creating information exchange. The present system can't give propelled voice highlights.
- The present system can't give video administrations. Malaysia has been driving the locale in its solid advancement and driving edge benefit capability[1].

Lawful availability: Notably, the e-governance practice stretches beyond attributes of technology, competency, customer services, and organizational initiative and governance. Instead, it incorporates some form of administration execution through which government exercises and new techniques are controlled. The control requires the execution of new administrative channels, hierarchical change, and BPR. Also, it becomes imperative to incorporate laws and other relevant regulations. Hence, the achievement of e-activity demands the consideration of factors such as business electronic exchange legality, confirmation of electronic marks and IDs, the legality of physical administration contracts and conveyance, Internet exchange task liability, electronic installment legality, the legality of information exchange, and electronics trading legality.
To beat the vast majority of these issues, the Government of Malaysia has issued the Electronic Transaction Temporary Law No. 85 of 2001 (ETL) in the year 2001. The primary target of the law is to manage electronic exchanges led by electronic offices. The ETL was propelled about in the meantime of propelling the e---activity. So as to encourage and crossing over any barrier toward online business field, as indicated by Code---3 of the ETL Law it connected on:

- All electronic exchanges, records, marks or any electronic data letter.
- All exchanges with respect to government and formal associations, where it chose to embrace to utilize electronic means.

Code---4 of the ETL Law enabled an extensive variety of exchanges to be directed electronically either totally or in part. Likewise there are some extraordinary situations where the exchange needs to happen in the individual's quality. The definition of these are contracts requires certain customs, for example, offices and intensity of lawyers identified with individual status exchanges like marriage, separate, etc[12]. Code---4 of the law has distinguished those cases as pursues:

- Initiation and change of a will.
- Commencement and adjustment of a religious enrichment (Waqf).
- Direct exchanges settled resources, possession titles, with the exception of agreement of tenures.
- Exchanges and organizations concerning individual affaires.
- Warnings in regards to contract separations of water, power and protection.
- Warnings of decelerations, methodology and pleadings and court decisions.

Clearly these remarkable situations where the law powers the physical archive trade or the individual appearance to lead the exchange, the ETL Law doesn't mull over the presence secure electronic means, as PKI, which gives Authentication, Identification, Privacy and Non-

--Repudiation, for this situation a law revision is required.
Code---11 of the ETL Law has endorsed keeping composed records for motivations behind confirmation, evidence or audit, or for some other reason.
Code---6 of the ETL Law expressed unmistakably that the ETL Law does not repudiat different laws, but rather it gives new administrative guidelines proficient to move the legislature towards the data age and to encourage utilizing electronic means.
Code---7 of the ETL Law forces legitimateness for a wide range of electronic exchanges,as though they were completed in composed records.
If the two gatherings consent to utilize electronic means.
If the beneficiary can spare, recover, or print the substance of the electronic exchange. o If there is a plausibility to keep the got electronic record in a similar type of it is inception.
If the substance of the electronic record can demonstrate the source, time and date of the sent exchange.
Section 2 of the ETL Law incorporates a wide range of business notices and affirmations, for example, internet business, e---exchange, e---checks, e---installments and e---exchanges.
Code---32 of the ETL Law sets the conditions for tolerating the advanced signature and viewed as completely verified if the accompanying conditions fulfilled:

- Uniquely connected with the individual included.
- Can distinguish the individual included.
- It has produced by the included individual or by means identified with him and under his control.
- If the electronic exchange is firmly identified with the mark where it is hard to make any alteration to the electronic exchange without influencing an adjustment in the mark.

Code---10/b of the ETL Law considers the advanced signature as confirmation of the endorser and the genuineness of a verified computerized signature will be accepted except if the opposite is demonstrated.
Code---34---b of the ETL Law puts conditions to acknowledge advanced marks if the computerized authentication issued by a declaration specialist, where the testament will be received if: If issued by an authorized specialist in Malaysia. On the off chance that issued by an authorized specialist outside Malaysia and affirmed in Malaysia. In the event that issued by an approved administrative office. In the event that issued by a specialist which hosts been settled upon by the gatherings.
Code---21 of the ETL Law has its role lying in the enabling of electronic installments, translating into a state of e-installment. Also, this law introduces some conditions through which an electronic exchange's legitimacy could be determined. Therefore, it remains Malaysia's Central Bank's role to ensure that installment procedures are screened and managed before issuing relevant guidelines. This responsibility is specified in Malaysian Banking Law's Code---99---b. Also, the provision of explicit directions provides room for the government divisions' appropriation of electronic exchanges or installments; a role played by the Minister of Finance.

3. Conclusion

In summary, one of the complex phenomena involves e-government status appraisal, especially due to the affirmation that the needs and goals of the legislature revolve around this parameter. Based on the structure presented in this paper, the Malaysian e-government activity could benefit by ensuring that through electronic appropriation, citizens gain opportunities for seeking support or services. However, proximity to the taxpayers is seen to play a crucial role in determining the degree of success of e-activity. Consideration the moderating factors, it is also notable that e-government activity is unlikely to address major and legitimate barriers to its implementation, a trend attracting the implementation of the current investigation's proposed model. However, this change needs to be implemented while ensuring that the law is not contravened.

References

[1] Gartner Group, 2002. Gartner Group Report to The Malaysian Ministry of Information & Communication Technology (MoICT).
[2] Anonymous, 2002. The Working Group on E--- Government in the Developing World, Roadmap for E--- government in the Developing World, Pacific Council on International Policy, www.pacificcouncil.org.
[3] Caldow, J., 1991. The Quest for Electronic Government: A Defining Vision, The Institute for Electronic Government, IBM Corporation. www.ieg.ibm.com.
[4] Barreyre, P.Y., 1988. The concept of 'impartition' policies: A different approach to vertical integration strategies. Strategic Management J., 9: 507---520.
[5] Tambouris, E., S. Gorilas and G. Boukis, 2001. Investigation of Electronic Government.
[6] Tambouris, E., G. Boukis, C. Vassilakis, G. Lepouras, S. Rouvas, R. Caa das, S. Eredia and C. Lp ez Usero, 2001. SmartGov: A Governmental Knowledge---based Platform for Public Sector online Services.
[7] Katib, H., 2001. Science and Technology inMalaysia, Towards Sustainable Policies (Policies, Strategies, Financing and Governance), (research paper presented in The Seventh Malaysian Science Week).
[8] Dallas, S., 2002. IT Governance in the Business--- Driven Environment, Gartner IT EXPo, Orlando Florida.
[9] Gefen, D., 2000. E---Commerce: The Role of Familiarity and Trust, Omega: The Intl. J. Manag. Sci.
[10] Uday O. Ali Pabrai, 2002. PKI and Biometrics Concepts and Planning, Element K Press.
[11] Ahmad Abu El_Haija, 2001. TeleCommunications for Enhancing Competitiveness), (research paper presented in The Seventh Malaysian Science Week).
[12] Deloitte and Touche, 2002. Deloitte and Touche Report to The Malaysian Ministry of Information & Communication Technology (MoICT)