Information about Electronic Governance: A Tool to Curb Corruption in Nigeria

Informasi tentang Tata Kelola Elektronik: Alat untuk Mengatasi Korupsi di Nigeria

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Abstract

Corruption has been declared to be the cause of poverty and poor standard of living in the Nigeria. This is caused by lack of accountability and transparency in the Government sector, mostly aided by manual accounting system and ordinary paper document in the operation of the sector. Sequel to the evolution of Information and Communication Technology, electronics governance was implemented in Nigeria. Therefore, this study examines the role of electronic governance as a tool for curbing corruption in Nigeria. As such, a survey instrument were administered to 240 civil servants from different public sectors in Nigeria. The findings revealed that, implementation of e-governance has helped to curb corruption in Nigeria and also played a great role in improving efficiency of Nigeria economy. Also this study found that, the need to embrace electronics governance given the phobia exhibited by many Nigerian populace and workforce as to the use of electronics governance.

Keywords: Corruption, E-Governance, Implementation, Information and Communication Technology.

Abstrak


Kata Kunci: Korupsi, E-Governance, Implementasi, Teknologi Informasi dan Komunikasi.

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Article History: Received April 1, 2018; Revised May 27, 2018; Accepted July 17, 2018; Published July 31, 2018
Introduction

Corruption has eaten so deep into Nigeria that its practice is seen more like a societal norm than an exception. Corruption not only distorts competition but it hinders economic growth and endangers the stability of democratic institutions (Editorial, 2007). The World Bank has specified corruption as among the greatest obstacles to economic and social development. Undermines development by distorting the rule of law and weakening the institutional foundation on which economic growth depends. The negative effects of corruption are quite severe on the poor, who are the hardest hit by economic decline, are most reliant on the provision of public goods and services, often unable to pay the extra costs associated with bribery, fraud, and the misappropriation of economic privileges (World Bank, 1997).

Before the advent of e-governance in Nigeria, understanding the real workforce in the three tiers of authorities (Federal, State, and Local Governments) was a mystery and hard like rocket science (Augustine, Sebastine, & Oliver, 2015). Personnel in Administration in league with their colleagues in Finance inflate the workforce with ghost workers running into hundreds of thousands. And perpetrators of such crime created a system where most staffs are not paid in the banks using workers functioning accounts, they pay cash using their ministries cashiers (Dahida & Akangbe, 2013). The amount oozing through this channel into the pockets of these fraudsters surpasses the real salary bills government pay to workers. Successive governments battled with this menace through setting up special staff audit committees and what they called “TABLE PAYMENT” and physical appearance of staff without getting to the root of the matter (Adeyemo, 2013).

Electronic governance (e-governance) in terms of Integrated Payroll and Personnel Information System (IPPIS), Prepaid Meter, Biometric Time and Attendance, Treasury Single Account (TSA), Electronic Registration, Electronics Payment are ways to restrict corruption, as most of the public sectors do not engage in the practice of e-governance yet. For the purpose of this paper, the definition of e-governance provided in the European Commission (2003) will be adopted: “[e-governance is] the use of information and communication technologies in public administrations combined with organizational change and new skills in order to improve public services and democratic processes and strengthen support to public policies.”

The aim of e-governance is to allow the public to initiate a request for a particular government service without going to a government office or having direct contact with a government employee. The service is delivered through government websites (Rotimi, Obasaju, Lawal, & Olorunkanmi, 2013). E-governance comprises of an alignment of ICT infrastructures, institutional reform, business processes and service content towards provision of high-quality and value added services to the citizens and businesses (Oye, 2013). The benefits of e-governance come in different forms. Some relate to the provision of fast, inexpensive services to the population (Heeks, 2004) and for socioeconomic development and political reformations for developing countries (Ifinedo & Uwadia, 2005).

The potential benefits of e-governance that accrue from the use of IT according to Shatne (Shatne, 2001) and Symonds (Symonds, 2000) include: reduced government spending and increased interest earning. Costs incurred by a government in providing services can be reduced by the use of the Internet, reduction in the number of persons in government contacts. Governments are under pressure to meet rising expectations for their service. With the use of the Internet more individuals are able to access the
government’s services without necessarily going to the government office or contacting by telephone. The use of the Internet will reduce the negative attitude individuals have toward government agencies because not many people enjoy interacting with their government. Delivery of government services from any place to citizens 24 hours a day, 7 days a week (Ogunro & Tolu, 2012). Websites serve as convenient and cost effective platforms for centralized service provision. Businesses, residents, visitors, and intergovernmental agencies can easily access public information related to their specific needs by simply checking on different web links. They can also contact government officers directly through email or online request forms (Nageri, Gunu, & Abdul, 2013).

However, e-governance has the potential to alter the traditional relationship between government and citizens by creating a new virtual government-and-citizen interface (Nwankwo, 2014). Information Communication and Technology is often one of the most important components in minimizing corruption in service delivery and enhancing transparency (Bhatnagar, 2003). Given the fact that a large number of countries have ambition for using ICT in service delivery under the title ‘e-governance,’ there is a significant opportunity to impact corruption by designing these systems in a manner that can take away the basic reason that enables corruption to take place and for transparency (Davies & Fumega, 2014). Therefore, this paper examines the role of Electronic Governance as a tool for curbing corruption. The followings are the specifics objectives of the study were to:

1. determine the implementation status of electronic governance in Nigeria.
2. determine people’s awareness of its implementation in Nigeria.
3. determine the effect of its implementation in curbing corruption in Nigeria.

**Methodology**

The instrument used for data collection for this study was the questionnaire method. This was because of the nature of information required and the form of analysis to be conducted. A 16-question structured questionnaire was designed and administered to Civil servants from different public sectors. The questionnaires were designed in anonymity to enable the civil servants fill them with greater degree of honesty without fear of intrusion of privacy. Of the 350 questionnaires administered, 240 were returned adequately filled.

Data collected were statistically analyzed using descriptive statistics like response, percentages, and graphs. The null hypothesis involved in the study was tested using chi-square. Among the 240 questionnaires filled, 153 respondents (64%) were male while 87 (36%) were females. Of the respondents, the majorities; 67%, were between 25 and 45 years old, while 33% were 46 to 65 years old. Out of the 240 respondents, 216 (90%) respondents are aware of the implementation of e-government in Nigeria while 16 (10%) are not aware. Below are the analyses.

**Result and Discussion**

Research question 1. Is there corruption in Nigeria?

From table 1 and figure 1, the result of the investigation showed that 240 civil servants responded, of this total, 216 respondents representing 93% indicated that there is corruption in Nigeria, while, 24 respondents representing 7% indicated that there is no corruption in Nigeria.
Is there corruption in Nigeria? | Response | Percentage (%) 
--- | --- | --- 
Yes | 223 | 93 
No | 17 | 7 
Total | 240 | 100 

Table 1. Response to if there is Corruption in Nigeria

Figure 1. Column chart Showing the Response if there is Corruption in Nigeria

Research question 2. What are the different forms of corruptions that are common in public sectors?

Figure 2 shows that 12% of the respondents said Extortion of money from motorists on the road by police men is a common form of corruptions in public sectors, 10% of the respondents said Power Holding Company of Nigeria (PHCN) gives bills that are not in line with meter readings, 24% of the respondents said during Independent National Electoral Commission (INEC) elections there was alteration of voters results in favour of a candidate of their choice, 40% of the respondents stated that in Civil service cases of ghost workers deliberately introduced by top government officials are dominant, 14% of the respondents said in the Education sectors Falsification of result and other data is common.

Figure 2. Pie Chart Representation of Different Forms of Corruptions that are Common in Public Sectors
Research question 3. Are you aware of the implementation of e-governance in Nigeria? Table 2 shows that 216 respondents representing 90% are aware of implementation of the e-governance in Nigeria, while 24 respondents representing 10% are not aware of e-governance. This shows that most civil servants are aware of the implementation of e-governance in Nigeria.

<table>
<thead>
<tr>
<th>Are you aware of the Implementation of E-Governance in Nigeria?</th>
<th>Response</th>
<th>Percentage (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>216</td>
<td>90</td>
</tr>
<tr>
<td>No</td>
<td>24</td>
<td>10</td>
</tr>
<tr>
<td>Total</td>
<td>240</td>
<td>100</td>
</tr>
</tbody>
</table>

Table 2. Response to if they are aware of the Implementation of e-governance in Nigeria

Research question 4. Can e-governance be used to control corruption?

Table 3 and figure 4 show that 192 respondents representing 89% agreed it can be used to control corruption, while 24 respondent representing 11% disagreed. This shows that e-governance can be used to control corruption in Nigeria.

<table>
<thead>
<tr>
<th>Can e-governance be used to Control Corruption?</th>
<th>Response</th>
<th>Percentage (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>192</td>
<td>89</td>
</tr>
<tr>
<td>No</td>
<td>24</td>
<td>11</td>
</tr>
<tr>
<td>Total</td>
<td>216</td>
<td>100</td>
</tr>
</tbody>
</table>

Table 3. Response to if e-governance can be used to Control Corruption

Research hypothesis

H0: The Implementation of e-governance has not helped to curb corruption in Nigeria and does not play a great role in improving efficiency of Nigeria economy.

H1: The Implementation of e-governance has helped to curb corruption in Nigeria and also play a great role in improving efficiency of Nigeria economy.

Test of Hypothesis

$X^2_{cal} = 15.84 > X^2_{tab}$ that is $H_0 > H_1$, we reject $H_0$ and accept $H_1$. Therefore, we accept the Alternative hypothesis and reject the Null hypothesis. This means that the implementation of e-governance has helped to curb corruption and improved the economy of Nigeria.

<table>
<thead>
<tr>
<th>OBSERVED (O)</th>
<th>EXPECTED (E)</th>
<th>[O-E]</th>
<th>(O – E)$^2$</th>
<th>(O – E)$^2$/E</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>216</td>
<td>206.78</td>
<td>9.22</td>
<td>85.01</td>
</tr>
<tr>
<td>2</td>
<td>24</td>
<td>33.22</td>
<td>-9.22</td>
<td>85.01</td>
</tr>
<tr>
<td>3</td>
<td>199</td>
<td>186.10</td>
<td>-12.9</td>
<td>166.41</td>
</tr>
<tr>
<td>4</td>
<td>17</td>
<td>29.90</td>
<td>-12.9</td>
<td>166.41</td>
</tr>
<tr>
<td>5</td>
<td>204</td>
<td>206.78</td>
<td>-2.78</td>
<td>7.73</td>
</tr>
<tr>
<td>6</td>
<td>36</td>
<td>33.22</td>
<td>2.78</td>
<td>7.73</td>
</tr>
<tr>
<td>7</td>
<td>201</td>
<td>206.78</td>
<td>-5.78</td>
<td>33.41</td>
</tr>
</tbody>
</table>

Table 4. Variables of Response of the Hypothesis Test
Table 5. Chi-square Distribution

<p>| | | | | |</p>
<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td>8</td>
<td>39</td>
<td>33.22</td>
<td>5.78</td>
<td>33.41</td>
</tr>
<tr>
<td>9</td>
<td>195</td>
<td>206.78</td>
<td>-11.78</td>
<td>138.77</td>
</tr>
<tr>
<td>10</td>
<td>45</td>
<td>33.22</td>
<td>11.78</td>
<td>138.77</td>
</tr>
<tr>
<td>11</td>
<td>205</td>
<td>206.78</td>
<td>-1.78</td>
<td>3.17</td>
</tr>
<tr>
<td>12</td>
<td>35</td>
<td>33.22</td>
<td>1.78</td>
<td>3.17</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td></td>
<td></td>
<td>15.84</td>
</tr>
</tbody>
</table>

\( \chi^2 = \text{chi-square value, } O = \text{observed value, } E = \text{expected value} \)

\( \chi^2 = 15.84 \)

Degree of freedom (df) = (R-1)(C-1), Df = (6-1)(2-1) = 5,

Using 5% level of significant

\( X^2_{\text{tab}} = 11.070 \)

\( X^2_{\text{cal}} = 15.84 \)

The findings of the study tested a hypothesis that the implementation of e-governance has helped to curb corruption in Nigeria and improved the economy of Nigeria. The result obtained in this study supports the deductions of Adeyemo (Adeyemo, 2013) and Danfulani (Danfulani, 2013). Which reveal that e-governance has helped to reduce corruption and improve the economy Nigeria. Therefore, it is clear that implementation of e-government not only saves resources, effort and money but it can also extensively increase service quality levels, minimize financial misappropriation, falsification of records, non-remittance of tax or money collected (Bhatnagar, 2003).

E-governance have helped to improves efficiency of government agencies in processing of data and build trust between governments and citizens, an Essential factor in good governance by using internet-based strategies to involve citizens by ensuring that the public has effective access to information and contribute to decision making processes (Ndou, 2004). The introduction of the ‘Biometric Time and Attendance’ has helped to regularize the civil service or public sector as this has greatly reduce if not put to an end the falsification of attendance and time of arrival to work, help the government take note of the actual number of staff it has thereby eliminating ghost workers and helping government saves huge sums of money that is being paid ghost workers (Ekomwenrenren & Ekuobase, 2015).

The e-government applications and electronic payments can help to eliminate the need for participation of government officials, which thus results in a reduction in the need to pay bribes in order to speed up transactions and access to services. The Joint Admission Matriculation Board (JAMB) has equally been using e-Registration process and in administering examination using Computer Based Test (CBT). This can help considerably in the reduction of malpractices such as impersonation during registration and the examination proper. The Independent National Electoral Commission (INEC) also uses the biometric technology in the voters’ registration and accreditation processes. This is believed to have helped to minimize electoral malpractices such as multiple voting and impersonation. The Independent Revenue e-Collection Scheme implemented under Treasury Single Account (TSA) initiative requires that government revenue collection is put into a single account for proper cash management. Treasury Single Account enables governments to establish centralized control over its revenue through effective cash management. It also enhances accountability and how much is accruing to the government is on a daily basis. TSA has helped to tide corruption as the leakages that used to be there in the system where people used money as they want and decide what to return to the government will no more be there (Heeks, 2004).
introduction of Integrated Payroll and Personnel Information System (IPPIS) have helped to checkmate the activities of ghost workers in Nigeria therefore saving billions of Naira for the government and it has made the government to ascertain the real work force in the various tiers of government which was not the case prior to the introduction of IPPIS. Also the adoption of e-governance enhances probity, responsibility and stewardship.

**Conclusion**

In conclusion, this study has analyzed how electronic governance as a tool curbs corruption and found some elements of how e-governance has helped to minimize corrupt actions. This study has shown that the role of E-Governance as a tool for reducing corruption cannot be underestimated. Consequent upon several revelation from the research conducted, therefore this research recommends that, government should enlighten citizens and its workforce on the need to embrace E-Governance. Additionally, government should strive to ensure that access to its portal should be highly protected via the use of passwords and other ICT measures to checkmate the activities of hackers.

**Acknowledgement**

The authors would like to thank to our respondents (240 civil servants from different public sectors in Nigeria).

**References**


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