Influence of Computer Based Management Information System to Improve Performance of Tambusai Tengah Sub-District Office Rokan Hulu Riau Province

Seprini

Program Studi Managemen, University of Pasir Pengaraian, Rokan Hulu, Riau Province, Indonesia

seprinibintimahyuddin@gmail.com

*Corresponding Author
Received: 8 October 2016, Accepted: 4 November 2016
Published online: 14 February 2017

Abstract: This study aims to determine whether or not Computer-Based Management Information System influences Employee Performance at Tambusai Tengah Village Office, Tambusai, Rokan Hulu. The sample in this study are 30 employees of the Tambusai Tengah village office, Tambusai District of Rokan Hulu. The results of this study indicate that there is no significant effect between computer-based management information system to employee performance at Tambusai Tengah village office (Score \( t < t_{table} = -0.649 < 2.04227 \)). The initial hypothesis stating that there is significant influence between systems computer-based management information on the performance of employees at the village office of Tambusai Tengah is rejected and not true. The conclusion is that there is no significant difference between computer-based management information system and the current work behavior to employee performance of District Office of Tambusai Tengah, Rokan Hulu.

Keywords: Management Information Systems; Employee Performance.

1. Introduction

Technological growth presenting information expands very fast and quickly. This matter is shown by digital electronic media. Information sector play a part the necessary for common public society in everyday life. Computer technology can be used in so many area, one of them at information system area (Information System) representing laboring computerization because interaction for the purpose of certain among between human being and computer. So that with existence of computer technology expected will water down a work and can present information swiftly and more accurate.

Usage of peripheral information system being based on computer it is of course will be more facilitate officer in have interaction to between various system so that form one unity in collecting, menyimpan and also process data by using computer so that to be data earn quickly, complete and natty and also become worthwhile information to side requiring.

Usage of computer claimed to progressively improved in finishing work of public administration. usage of Peripheral computer in Tengah Tambusai chief of village office, newly start in emboldening in the year 2010. Computer peripheral used to be more facilitate correspondence administration, problem of officer, proposing of officer promotion and proffering of office operating expenses.

Relate to usage of computer peripheral, equipments had by Tenga Tambahasi chief of village office in operation of management information system based on computer can be seen in Tables 1.1.
Table 1.1. List Equipments of Peripheral Supporter Information System Management In Office Chief of village Tambusai Tengah

<table>
<thead>
<tr>
<th>No</th>
<th>Jenis perangkat</th>
<th>Tahun Pengadaan</th>
<th>Merk/Type</th>
<th>Software yang digunakan</th>
<th>Kondisi</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Komputer</td>
<td>2006</td>
<td>MAG</td>
<td>Windows 97</td>
<td>Baik</td>
</tr>
<tr>
<td>2.</td>
<td>Laptop</td>
<td>2008</td>
<td>HP</td>
<td>Windows 7</td>
<td>Baik</td>
</tr>
<tr>
<td>3.</td>
<td>Laptop</td>
<td>2010</td>
<td>Acer</td>
<td>Windows 7</td>
<td>Baik</td>
</tr>
<tr>
<td>4.</td>
<td>Laptop</td>
<td>2012</td>
<td>Acer</td>
<td>Vista</td>
<td>Baik</td>
</tr>
<tr>
<td>5.</td>
<td>Laptop</td>
<td>2014</td>
<td>Lenovo</td>
<td>Windows 8</td>
<td>Baik</td>
</tr>
</tbody>
</table>

Table 1.1 shows that computer peripheral and existing laptop is only five units with good condition. Meanwhile, the amount of active officer working in Tambusai Tengah village office is 30 people. With condition of the limited computer peripheral cause constraint from facet of existing peripheral have to be used by bergiatan and or have innings.

Perceiving situation of very limited computer peripheral hence relating to or usage domination of computer peripheral which also still limited remember related relevant domination of computer restrictively of existing computer. Pursuant to information which is writer get to ability of officer in using computer/laptop in the reality only 25% just capable to master or can use computer better. Data at tables 1.2 following can be seen its picture:

**Tables 1.2. Officer capability to Operate Computer In Tambusai Tengah**

<table>
<thead>
<tr>
<th>No.</th>
<th>Capability Category in using computer</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Expert</td>
<td>9</td>
</tr>
<tr>
<td>2.</td>
<td>Medium</td>
<td>10</td>
</tr>
<tr>
<td>3.</td>
<td>Poor</td>
<td>11</td>
</tr>
</tbody>
</table>

Pursuant to data at tables 1.1 and 1.2 seen that phenomenon which emerge with in applying of management information system base on computer in the effort improving officer performance in Tambusai Tengah chief of village office, that is:

1) Facilities and basic facilities related to management of good management information system of existing software and also hardware only about/around 50% from totalizing which its his there is to a office (minimum 10 setting computer peripheral/laptop) and do not every year its levying.

2) Human Resource (SDM) mastering computer/laptop better only counted 9 people or about only 30% is just the than totalizeing the overall of officer exist in Tengah Tambusai chief of village office.

3) Part of finance and officer oftentimes feel difficulty in making officer data report for example (PNS data report to badan area officer) that is with admission filling of form/blangko which must be sent to pass just softcopy. So also for example part of finance which is his monetary SPJ report reported only with report in form of CD (Compact Disc). Its his must part of monetary shares and officer must each owning this peripheral and existing SDM really is comprehending is way of its use.

From the phenomenon hence can be formulated by especial problems as follows: “How applying of Information System Management Base on Computer in the effort Improving Performance Officer Office Sub District of Tengah Tambusai of Sub Province Rokan Hulu?”.

While target of which wish to be reached in this research is: “To know applying of Information System Management Base on Computer in the effort Improving Performance Officer Office Sub District of Tambusai Tengah of Sub Province Rokan Hulu”.
This research uses quantitative method and descriptive analysis, that is depiction by using tables, picture etcetera to give clarification which is complete to be, expected can give clear picture regarding applying of management information system base on computer that is a group of element which interact so that form one unity in collecting, menyimpan and also process data by using computer and how its bearing with officer performance at office Sub District of Tambusai Tengah of District of Tambusai Sub Province Rokan Hulu.

This research in doing/conducting in Office Sub District of Tambusai Tengah of District of Tambusai Sub Province Rokan Hulu. Where, population in this research is entire/all Chief Of Village Tambusai Tengah office officer of District of Tambusai Sub Province Rokan Hulu. In this research all population made as sampel.

Sugiono (2013:80) telling population is generalizing region consist of; obyek/subyek having certain characteristic and quality which specified by researcher to be studied and is later then pulled by its conclusion.

Population is the overall of research subyek. If someone wish to check all existing element in research region, hence its research represent population. (Arikunto, 2010:115). Equally, sampel in this research is entire/all Office Chief Of Village Tambusai Tengah officer of District of Tambusai Sub Province Rokan Hulu by using census method that is counted 30 (thirtieth) officer people.

If seen from source of its data, hence data collecting can use the source of primary, and sekunder source. Source of primary is the source of direct data give data to data compiler and sekunder data source represent the source of indirect give data to data compiler for example through people or pass document. Hereinafter if seen from facet of data collecting technique, hence technique intake of data can be done/conducted with observation (perception), interview and kuesioner. Spreading of kuisioner pass/through letter. interview can pass/through telephone, confence video and also is direct.

2. Literature Review

2.1. Management Information System

Management information system is information system used to support operation, decision making and management in a organization. (Abdul Kadir, 2009:84). Moekijat (2005:69) Information System Management is something that concerning planning, development, and management usage of information technology appliance to assist human being in finishing entire/all its work related to and processing management of information which in its implementation ever relate to three organizational resource that is information, information technology and human being.

Agus Mulyanto (2009:3) concludes that management information system definition represent a component which consist of: human being, information technology, and working procedure which processing, menyimpan, analysing, and propagating information to reach target. From defenisi told by all expert, can be concluded that management information system represent information system being based on computer yield output (output) by using input (input) and various needed to process provide information to all consumer owning is same requirement.

2.2. Management Information System Indicator

According to Agus Mulyanto (2009:3) management information system represents a component which consist of:

1) Human being. Human being take role which necessary for information system. Human being required to operate information system. Human resource can be differentiated to become two that is expert and final consumer of information system. Final consumer is people who use yielded information from information system, for example student, pemasok, and others is. Expert of information system is people who develop and operate information system for example analyst system, developer, and others.
Influence of Computer Based Management Information System to Improve Performance of Tambusai Tengah Sub-District Office, Rokan Hulu, Riau Province

2) Hardware. All used equipment in course of information in the form of data media and computer like CD, disk, data paper sheet, and others.

3) Software. All command network (instruction) which is used in information process, do not only in the form of program but earning also in the form of procedure. Program represent a group of instruction/govern from consumer of is source of data while procedure is a group of order used to realize process processing of information and operate command to information consumer.

4) Data. Data can in the form of text, picture, video and also audio. Data resource not merely simply raw material for the input of a management information system but as base form organizational resource.

5) Network. Connective Communications media of computer, information pemroses, and other equipments is and also controlled to pass/through communications software, network resource can in the form of cable, nirkabel, satellite, seluler, modem, prosesor, and others.

2.3. Performance

Anwar Prabu Mangkunegara (2007:9), performance that is: “Result of job/activity quality ofly and reached amount by officer someone in executing its duty as according to passed to responsibility him”.

Wibowo (2007:7) having a notion that performance is about doing/conducting work. Performance is whereof which is done and how to doing him. Performance represent result of work having strategic strong relation/link with a purpose to organization, satisfaction of consumer and give economic contribution.

Rivai (2009:307) please explain that its it him officer performance earn seen from technical ability of officer, conceptual ability of officer, and also ability of officer in braiding interpersonal relation/link.

Technical ability which must have by officer cover ability in using knowledge, method, technique, and equipments utilized to execute duty and also obtained training and experience. Whereas, conceptual ability relate to ability of officer in comprehending organizational complexity, which is its nucleus; core individually comprehend duty, function and also its responsibility as officer. Then, ability in braiding interpersonal relation/link relate to ability of officer in cooperating with others, and assist and also motivate other officer so that/ to be can work better.

2.4. Performance Indicator

Bernadin (2006:58) submitting there is 6 elementary criterion or dimension to measure performance that is:

1. Quality, related to labour capacity and process / result come near perfection / ideal in fulfilling target or intention.
2. Quantity, set of yielded work amount or amount, related to work load.
3. Timeliness, related to time which is needed in finishing and activity accuracy of time/discipline in undertaking.
4. Cost-Effectiveness, related to usage off is source of organization ( people, money, material, technological [of] information system) in getting or obtaining extravagance reduction or result in usage off is source of organization.
5. Need for supervision, related to individual ability can finish work functions or work without head asistensi or intervention observation of head.
6. Interpersonal impact, (Individual behavior) related to individual ability and interest in improving feeling of selfregard, good desire, cooperation and motivation among job/activity friend.

2.5. Relation Management Information System to Performance Officer

Pursuant to research done/conducted by Hidayat Koniyo Information System Management have an effect on positip to Performance akademik administration service. From result of calculation of spearman rank, obtained by correlation koeisien value equal to 0,56. This show there is relation/link slivering among/between X variable (Information System Management) and Y variable (Performance Service akademik administration). Pursuant to correlation koeisien interpretation, hence
Influence of Computer Based Management Information System to Improve Performance of Tambusai Tengah Sub-District Office, Rokan Hulu, Riau Province

can be concluded that level of relation/link both of the variable is. From result of calculation of Coefficient Determinasi, that level of Information System Management influence to Performance akademik administration service equal to 31.4 %. While the rest 68.6 % determined by other factors like ability, motivation, salary, psychological factor and policy-policy of institute. From calculation assess, obtained by thitung value = 4,779 and tabel= 2,390. This means that thitung > tabel. Thereby ho refused and hi accepted. Its meaning, Information System Management have an effect on positip to Performance akademik administration service.

Then, from result of research of S Mia Lasmaya find that there are influence which is signifikan from SDM information system, interest, discipline work to employees performance either through simultan and also parzial. From result of penelitian known, that influence by simultan SDM information system, interest, discipline work to employees performance at category very signifikan equal to 82.5%. The result indicate that third influence of the variable is including category very signifikan while the rest equal to 17.5% representing other variable which do not diteiti like compensation, cultural of organization, job communications.

3. Results and Discussion

After entire/all data which is obtained in research elaborated, hence at phase hereinafter will be done/conducted by solution of data which have been elaborated is mentioned. Data interpretation as a whole to the each variable can be done/conducted by after is beforehand classified pursuant to obtained values from responder. Pursuant to classification which have been determined, hence overall of obtained data from responder to the each research variable can be formulated as follows.

3.1. Analysis Applying of Information System Management Base on Computer at Office Sub District of Tambusai Tengah of District of Tambusai

In this sub section, the results of this work are presented.

Tabel 2.1. Retardation Responder Concerning Management Information System Based on Computer (X)

<table>
<thead>
<tr>
<th>No.</th>
<th>Item Pertanyaan</th>
<th>Tanggapan Responden</th>
<th>F</th>
<th>N</th>
<th>Skor</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Item 1</td>
<td>Baik</td>
<td>F</td>
<td>%</td>
<td>30</td>
</tr>
<tr>
<td>2</td>
<td>Item 2</td>
<td>82.33</td>
<td>30</td>
<td>36.67</td>
<td>0</td>
</tr>
<tr>
<td>3</td>
<td>Item 3</td>
<td>20.00</td>
<td>24</td>
<td>30.00</td>
<td>0</td>
</tr>
<tr>
<td>4</td>
<td>Item 4</td>
<td>16.67</td>
<td>25</td>
<td>33.33</td>
<td>0</td>
</tr>
<tr>
<td>5</td>
<td>Item 5</td>
<td>66.67</td>
<td>30</td>
<td>33.33</td>
<td>0</td>
</tr>
<tr>
<td>6</td>
<td>Item 6</td>
<td>56.67</td>
<td>25</td>
<td>33.33</td>
<td>0</td>
</tr>
<tr>
<td>7</td>
<td>Item 7</td>
<td>13.33</td>
<td>25</td>
<td>33.33</td>
<td>0</td>
</tr>
<tr>
<td>8</td>
<td>Item 8</td>
<td>66.67</td>
<td>30</td>
<td>33.33</td>
<td>0</td>
</tr>
<tr>
<td>9</td>
<td>Item 9</td>
<td>3.33</td>
<td>29</td>
<td>96.67</td>
<td>0</td>
</tr>
<tr>
<td>10</td>
<td>Item 10</td>
<td>0</td>
<td>1</td>
<td>3.33</td>
<td>29</td>
</tr>
</tbody>
</table>

Pursuant to data at tables 2.1 representing result of responder comments concerning management information system base on computer that is ability of officer at sub-district office in developing and operating computer system still reside in at good category, meanwhile to connect connective communications media of computer in management of information system still in unfavourable category, supporter resource covering less adequate SDM to run proven existing computer program of SDM less is comprehending of picture code, video and audio which is used in management of information system base on this computer. Meanwhile resource in the form of network (cable, nircaabel), modem and satellite and also bad used Wifi.
Influence of Computer Based Management Information System to Improve Performance of Tambusai Tengah Sub-District Office, Rokan Hulu, Riau Province

3.2. Analysis Performance Officer at Office Sub-District of Tambusai Tengah District of Tambusai

Tabel 2.2. Retardation Responder about Performance (Y)

<table>
<thead>
<tr>
<th>No.</th>
<th>Item Pertanyaan a)</th>
<th>Tunggape Responen</th>
<th>N</th>
<th>Skor</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Bulat</td>
<td>Kurang Bulat</td>
<td>Tidak Bulat</td>
</tr>
<tr>
<td>1</td>
<td>1\text{st} Item 1</td>
<td>24</td>
<td>86.67</td>
<td>4</td>
</tr>
<tr>
<td>2</td>
<td>2\text{nd} Item 2</td>
<td>24</td>
<td>89.00</td>
<td>6</td>
</tr>
<tr>
<td>3</td>
<td>3\text{rd} Item 3</td>
<td>24</td>
<td>86.67</td>
<td>10</td>
</tr>
<tr>
<td>4</td>
<td>4\text{th} Item 4</td>
<td>11</td>
<td>85.00</td>
<td>12</td>
</tr>
<tr>
<td>5</td>
<td>5\text{th} Item 5</td>
<td>11</td>
<td>87.50</td>
<td>11</td>
</tr>
<tr>
<td>6</td>
<td>6\text{th} Item 6</td>
<td>24</td>
<td>80.00</td>
<td>6</td>
</tr>
<tr>
<td>7</td>
<td>7\text{th} Item 7</td>
<td>23</td>
<td>76.67</td>
<td>7</td>
</tr>
<tr>
<td>8</td>
<td>8\text{th} Item 8</td>
<td>7</td>
<td>21.33</td>
<td>23</td>
</tr>
<tr>
<td>9</td>
<td>9\text{th} Item 9</td>
<td>1</td>
<td>56.67</td>
<td>11</td>
</tr>
<tr>
<td>10</td>
<td>10\text{th} Item 10</td>
<td>1</td>
<td>53.33</td>
<td>14</td>
</tr>
<tr>
<td>11</td>
<td>11\text{th} Item 11</td>
<td>1</td>
<td>49.67</td>
<td>15</td>
</tr>
<tr>
<td>12</td>
<td>12\text{nd} Item 12</td>
<td>21</td>
<td>80.67</td>
<td>5</td>
</tr>
</tbody>
</table>

Pursuant to data at tables 2.2 representing result of responder comments concerning officer performance at office sub district of Tambusai Tengah District of Tambusai Sub Province Rokan Hulu that is labour capacity or officer performance according to responder alone have earned to be told goodness, this matter is marked also with cooperation and motivation between itself officer have goodness. But in the case of extravagance in time facet and also the expense of in work execution also a little a few/little degradation of performance seen from interest had by very low officer also, hence this matter cause officer performance still reside in at unfavourable category.

3.3. Regression Analysis

Simple regresi liner analysis is relied on analysis is functional relation/link and or independent variable kausal with dependen variable, this analyzer is used to know there is do not it independent variable relation/link (management information system) with dependen variable (performance).

Tabel 2.3. Coefficient

<table>
<thead>
<tr>
<th>Model</th>
<th>Unstandardized Coefficients</th>
<th>Standardized Coefficients</th>
<th>t</th>
<th>Sig</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>B</td>
<td>Std. Error</td>
<td>Beta</td>
<td></td>
</tr>
<tr>
<td>Y</td>
<td>34.099</td>
<td>4.303</td>
<td>.650</td>
<td></td>
</tr>
<tr>
<td>X</td>
<td>-0.135</td>
<td>.307</td>
<td>-.220</td>
<td>.839</td>
</tr>
</tbody>
</table>

Pursuant to data result of research hence obtained by equation of regresi shall be as follows:

\[ Y = 34.099 - 0.135X + e \]

Data significant result of research that is X (management information system base on computer) with signifikansi 0.522 hence having an effect on signifikant to officer performance (Y). While to see how applying of x variable in the effort improving y variable seen its correlation coefficient that is:

Tabel 2.4. Coefficient Determinasi

<table>
<thead>
<tr>
<th>Model</th>
<th>R</th>
<th>R Square</th>
<th>Adjusted R Square</th>
<th>Std. Error of Estimate</th>
<th>Error of Forecast</th>
<th>R Square Change</th>
<th>F Change</th>
<th>Change Statistics</th>
<th>Sig. F Change</th>
<th>Durbin-Watson</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1</td>
<td>.122</td>
<td>.015</td>
<td>1.725</td>
<td>15.23</td>
<td>14.27</td>
<td>1</td>
<td>24</td>
<td>.522</td>
<td>2.137</td>
<td></td>
</tr>
</tbody>
</table>

Value R Square at tables 2.4 is 0.122 indicating that high lower nya or fluctuate performance him (variable Y) influenced by management information system base on computer (variable X) equal to 1.5% the rest 98.5% influenced by other factor which do not be packed into this research.
Influence of Computer Based Management Information System to Improve Performance of Tambusai Tengah Sub-District Office, Rokan Hulu, Riau Province

3.4. Test Hypothesis (Uji t)

T value count/calculate < t of is tables of = - 0.649<2.04227 hence Ho accepted, its meaning that do not there are influence which is signifikan among/between management information system base on computer to office officer performance Sub District of Tambusai Tengah of Sub Province Rokan Hulu, so that hypothesis early expressing that there is influence which is signifikan among/between management information system base on computer to office performance at office sub-district of unacceptable Middle Tambusai or refused.

4. Conclusion

We may conclude the research as follows:

1. There is no influence between management information system based on computer to officer performance at sub district of Tambusai Tengah office (Value T count/calculate < t of is tables of = - 0.649<2.04227) with hypothesis early expressing that there is influence which is signifikan among/between management information system based on computer have an effect on to officer performance at office sub district of unacceptable Tambusai Tengah or refused, equally Information system Management base on computer have an effect on negativity to its meaning officer performance of management information system don't have influence which is signifikan to officer performance and hypothesis which is writer tell unprovable is its truth.

2. There no influence meaning between management information system base on computer to officer performance at office sub district of Tambusai Tengah which got from result of propagated questionnaire to respondent which have been showed (30 respondents). Seen from unfavourable respondent comments in connecting communications media with computer in management of information system based on computer strengthened by to the number of respondent answer expressing that there no network (cable, wireless), satellite, Wifi, other supporter peripheral and modem in usage of computer base on good management information system.

From result of research which have been done/conducted, hence told by the following suggestion :

1. To increase officer performance, head in this case Chief Of Village of Tambusai Tengah of District of Tambusai so that/ to be more focussed at make-up of management information system service based on computer with emphasis at conservancy of good computer appliance of hardware and also software.

2. As Sub Province Rokan Hulu mission and vision as Best Sub Province in Province Riau and taft central in management of governmental administration in service to society, officer more meaning business in working him/ it.

3. In next research which study about officer performance specially to officer performance at office sub district of Tambusai Tengah of District of Tambusai Sub Province Rokan Hulu so that/to be enhancing training and education variable, Discipline and even Kompensi in influencing officer performance storey level at office sub district of Tambusai Tengah to result of more gratifying research.

References


Influence of Computer Based Management Information System to Improve Performance of Tambusai Tengah Sub-District Office, Rokan Hulu, Riau Province


