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## Evaluation of the use of SIMRAL on ASN Performance at the Bogor City Public Works and Spatial Planning Service

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### Abstract

This study aims to analyze and evaluate the implementation of SIMRAL policies/programs contained in the E-Planning Module of the Bogor City PUPR Office. The research method used is a mixed-method approach with the CIPP (Context, Input, Process, Product/Outcome) program/policy evaluation model. Data is collected through observation, interviews, questionnaires, document research, and literature studies. The object of this study is the Bogor City Public Works and Spatial Planning Office, which uses SIMRAL with a purposive sampling technique. This study focuses on the evaluation of SIMRAL on the performance of ASN of the Bogor City PUPR Office to achieve performance at the individual, unit, and organizational levels. The results of evaluating the use of the SIMRAL application are significant because, in every decision-making activity, program, or policy, SIMRAL becomes the basis and benchmark for success for subsequent activities, programs, and policies to be implemented.

**Keywords** evaluation. SIMRAL, CIPP, Performance, ASN DPURR Bogor City.

### 1. Introduction

Technological advances today play a major role in government development. The government is in great need of an information system to assist in decision making. The importance of a development planning information system means that the government must have an information system as a means of collecting data, managing data, compiling guidelines, making decisions, and evaluating the implementation of government programs.

In the government environment, especially the Bogor city government, an e-planning system has been used since 2017. The system used by the Bogor city government is SIMRAL (Planning, Budgeting, and Reporting Management Information System). SIMRAL covers the entire process of planning, budgeting, and financial management as well as development activities which include the process of recording, processing data from the results of the Development Planning Deliberation (Musrembang), RKPD, Renja, SKPD, PPAS, Preparation of RKA/RAPBD, DPA, Cash Budget, Issuance of SPD, administration of income and expenditure, administration of regional cash, accrual-based accounting, and reports needed to support the accrual-based accounting system (Amanuha et al, 2021). The Bogor City Public Works and Spatial Planning Agency also uses SIMRAL as an application that assists in the development of Bogor City related to the activities of the Bogor City Public Works and Spatial Planning Agency.

This study aims to determine evaluation of the use of the planning, budgeting, and reporting

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management information system (SIMRAL) for state civil servants (ASN) at the Bogor City Public Works and Spatial Planning Service, its influence on the context evaluation that answers the purpose of using the SIMRAL application, input evaluation answers the quality of human resources, process evaluation answers the steps in using SIMRAL, product evaluation answers the achievement of the objectives of the SIMRAL application and the results answer the impact of using the SIMRAL application.

## 2. Literature Review

According to Djaali and Mulyon in Ramly (2019), evaluation can be interpreted as the process of assessing something based on criteria or objectives that have been set, which is then continued with decision-making on the object that has been evaluated. This definition is complemented by Stufflebeam and Coryn in Ramly (2019) by stating "We have characterized evaluation work in four tasks: describing, obtaining, reporting, and implementing".

The CIPP model is a good program evaluation model. The Daniel L. Stufflebeam model is a widely used model for predicting social behaviour. The acronym CIPP stands for "context evaluation, input evaluation, process evaluation, and product evaluation." It is a way to help evaluate the overall effectiveness of a project. Each type of evaluation is closely tied to a series of decisions about the planning and operation of a program.

Due to the importance of a regional development planning information system, the Bogor city government has SIMRAL or what is called e-planning as a means of electronic data processing, carrying out the collection of materials and compiling guidelines and technical instructions as well as evaluating the implementation of regional government affairs (Balgi et al, 2017).

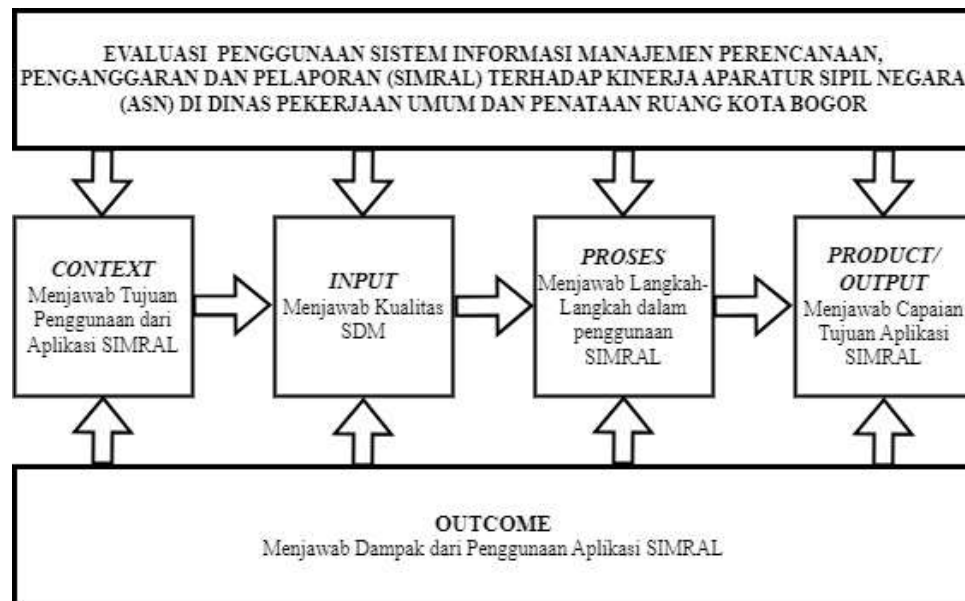
For this reason, the Planning, Budgeting and Reporting Management Information System Application was developed to support regional governments both operationally and managerially in implementing regional financial management, in accordance with the applicable budgeting system.

Organizational performance is very important in realizing the goals of the organization or company. Organizational performance shows the organization's ability to carry out tasks and responsibilities and is a reflection of the success of an organization. Performance in an organization is supported by the performance of the human resources in it. To achieve goals optimally, organizations need to understand the concept of performance needed by the organization by implementing a performance management model to describe the process or work cycle to achieve the expected results. To measure the extent of performance that has been achieved, organizations need to set performance indicators that can be a benchmark for the success of achieving organizational goals (Ramly, 2021).

Context, input, process, product and outcome are a unity that strengthens each other. From the steps taken in the CIPP model evaluation, it can be known whether the implementation SIMRAL evaluation running well as expected. The results are used as consideration in policy making to continue its implementation. but still there are improvements to me improve the SIMRAL application that is already in use. The schematic diagram of the research thinking framework is

as shown in the picture.

Figure 1. Evaluation Research Thinking Framework Chart



### 3. Research Method

The method in this research uses an evaluation research type. The evaluation method used is Daniel Stufflebeam's (1971) CIPP model, known for its four evaluation components: context, input, process, and product/outcome. The object of this research is the employees of the Bogor City Public Works and Spatial Planning Department as SIMRAL users as many as 36 people. purposive sampling technique. Purposive sampling. Data collection through Observation, interviews, Questionnaires, document research and literature studies. Data analysis in this study is qualitative and quantitative or called a combination method (mixed method). In evaluation research to obtain complete, accurate, and up-to-date data, namely quantitative and qualitative data at the same time, researchers use a combination research method. Researchers collect data and analyze it simultaneously to answer the formulation of the problem.

### 4. Finding and Discussion

The discussion on the CIPP model research according to Stufflebeam conducted by researchers in evaluating the use of the SIMRAL application on ASN performance at the PUPR Service is as follows:

**Context Evaluation Analysis (Purpose of Using SIMRAL).** From the questionnaires that have been collected, the evaluation of the purpose of using the SIMRAL application can be analyzed to answer the problem formulation in chapter I. The results of the analysis of the context evaluation according to the questionnaire on the SIMRAL application usage policy indicator in the orderly and compliant instrument can be concluded that according to respondents, recording in the SIMRAL application is orderly and compliant in accordance with

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the Bogor Mayor's Regulation Number 21 of 2020 concerning the system and procedures for managing regional finances in the Bogor City Government environment, but not all respondents understand this because there are respondents with neutral answers of 2.7% of all respondents.

Meanwhile, the results of the analysis of the context evaluation according to the questionnaire on the indicator of the purpose of using the SIMRAL application in the effective and efficient instrument can be concluded that according to respondents, the use of the SIMRAL application is effective and efficient by the Bogor Mayor Regulation Number 21 of 2020 concerning the system and procedures for managing regional finances in the Bogor City Government environment, but not all respondents consider the use of the SIMRAL application to be more effective and efficient because there are respondents with neutral answers of 13.9% of all respondents.

**Input Evaluation Analysis (HR Quality).** From the collected questionnaires, the evaluation of the quality of human resources in the implementation of the SIMRAL application can be analyzed to answer the formulation of the problem in Chapter I. The results of the analysis of the input evaluation according to the questionnaire on the performance improvement indicator in the productivity instrument can be concluded that according to respondents, the BPPT 2008-2017 e-planning Module can facilitate the use of the SIMRAL application to improve performance in terms of productivity, but not all respondents understand whether the implementation of the SIMRAL application can improve productivity because there are still respondents with neutral answers of 5.6% of all respondents. While in the input evaluation according to the questionnaire on the performance improvement indicator in the discipline instrument, it can be concluded that according to respondents, the implementation of the SIMRAL application is disciplined according to what has been facilitated by the BPPT 2008-2017 e-planning Module. However, it seems that some respondents doubt the implementation of the SIMRAL application with neutral answers of 19.4%. The neutral figure on the discipline instrument is greater than productivity, so there needs to be an understanding and improvement in the implementation of the SIMRAL application facilitated by the BPPT 2008-2017 e-planning Module.

Meanwhile, the results of the analysis of the input evaluation according to the questionnaire on the service quality indicator in the inter-sectoral service instrument can be concluded that according to respondents, the BPPT 2008-2017 e-planning Module can facilitate the implementation of the SIMRAL application to improve the quality of inter-sectoral services, but not all respondents feel that the BPPT 2008-2017 e-planning Module can facilitate the implementation of the SIMRAL application to improve the quality of service because there are still respondents with neutral answers of 22.2% of all respondents. Meanwhile, in the input evaluation according to the questionnaire on the service quality indicator in the accountability report instrument, it can be concluded that according to respondents, the implementation of the SIMRAL application can be accounted for according to what has been facilitated by the BPPT 2008-2017 e-planning Module. However, it seems that some respondents doubt the implementation of the SIMRAL application with neutral answers of 11.1%. The neutral figure on the inter-sectoral service instrument is greater than the accountability report, so there needs

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to be an understanding and improvement of the implementation of the SIMRAL application facilitated by the BPPT 2008-2017 e-planning Module.

**Process Evaluation Analysis (SIMRAL Steps).** From the questionnaires that have been collected, the evaluation of the steps in the SIMRAL application can be analyzed to answer the problem formulation in chapter I. The results of the analysis of the process evaluation according to the questionnaire on the planning indicators in the work plan instrument and cash budget details can be concluded that according to respondents, the steps in the SIMRAL application require a work plan according to the activity program prepared by the PPTK and cash budget details are needed so that the activity program is implemented properly to facilitate regional financial management is appropriate according to the Bogor Mayor Regulation Number 21 of 2020 concerning the system and procedures for managing regional finances in the Bogor City Government environment.

Based on the results of the process evaluation analysis according to the questionnaire on the input process indicator on the use of the SIMRAL application in the payment attachment instrument, it can be concluded that according to respondents, the payment attachment submitted by PPTK to implement the activity program is correct, but several respondents do not seem to understand the payment attachment which is very important for submitting payments so that this activity program is carried out properly according to the work plan previously prepared by PPTK because there are respondents with neutral answers of 13.9% of all respondents. The results of the process evaluation analysis according to the questionnaire on the input process indicator on the use of the SIMRAL application in the verification instrument can be concluded that according to respondents, verification is very important to ensure that payments are correct because, without the verification process, payments can be made but often encounter obstacles or payment errors such as budgets that have not been paid or errors in shopping account codes so that the verification process is very important because it has been stated in the Bogor Mayor's Regulation number 21 of 2020 concerning the system and procedures for managing regional finances in the Bogor City Government environment. However, several respondents do not understand the verification process with 2.8% of neutral respondents.

Meanwhile, the results of the analysis of the process evaluation according to the questionnaire on the payment service indicator for the use of the SIMRAL application in the UP/GU/TU/KKPD payment instrument can be concluded that according to respondents, UP/GU/TU/KKPD payments can be carried out after the verification process to avoid payment errors such as errors in shopping account codes or budgets that are not yet available, by the Bogor Mayor's Regulation Number 21 of 2020 concerning the system and procedures for managing regional finances in the Bogor City Government. However, several respondents do not understand that UP/GU/TU/KKPD payments can be carried out after the verification process with 8.3% of respondents neutral answers. The results of the analysis of the process evaluation according to the questionnaire on the payment implementation indicator for the use of the SIMRAL application in the LS payment instrument can be concluded that according to respondents, LS payments are paid from regional finances directly to third parties by the Bogor

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Mayor's Regulation Number 21 of 2020 concerning the system and procedures for managing regional finances in the Bogor City Government. However, several respondents do not understand LS payments because there are 2.8% of neutral respondents and 2.8% disagree.

**Product Evaluation Analysis (Achievement of SIMRAL Application Objectives).** From the questionnaires that have been collected, the evaluation of the output of the achievement of the objectives of using the SIMRAL application can be analyzed to answer the formulation of the problem in chapter I. The results of the analysis of the evaluation of the product/output of the achievement of the objectives of using the SIMRAL application according to the questionnaire on the indicator of the effectiveness of the use of the government budget in the budget monitoring and budget control instruments can be concluded that according to respondents, the BPPT 2008-2017 e-planning module can facilitate the use of the SIMRAL application to increase the effectiveness of the use of the government budget in supporting the function of public services and increasing efficiency in the implementation of programs and activities is appropriate but some respondents feel that it is not optimal in the effectiveness of budget monitoring and budget control because there are still respondents with neutral answers of 11.1% of all respondents.

Meanwhile, the results of the analysis of the evaluation of the product/output of achieving the objectives of using the SIMRAL application are in accordance with the questionnaire on the efficiency indicator in implementing programs and activities in the instrument. increase efficiency in implementing activities decision making easier can be concluded that according to respondents, the BPPT 2008-2017 e-planning Module can facilitate the use of SIMRAL applications to improve the effectiveness of government budget use in supporting public service functions and increasing efficiency in implementing programs and activities is appropriate, but some respondents feel that it is not yet optimal in terms of effectiveness in increasing efficiency in implementing activities and facilitating decision making because there are still respondents with neutral answers of 19.4% of all respondents. Therefore, from the results of the questionnaire, development is needed in the use of the SIMRAL application in order to maximize efficiency in implementing programs and activities.

**Outcome Analysis of SIMRAL Application.** From the questionnaires that have been collected, the evaluation of the outcome of the use of the SIMRAL application on ASN performance can be analyzed to answer the formulation of the problem in Chapter I. The results of the analysis of the evaluation of the impact of the use of the SIMRAL application according to the questionnaire on the indicator of Paradigm change in financial management in the instrument of perspective on work can be concluded that according to respondents, it has an impact that the use of the SIMRAL application makes work easier to do, but some respondents feel that it is not optimal because there are still respondents with neutral answers of 19.4% of all respondents. In the results of the analysis of the indicator of Paradigm change in financial management in the instrument implementation in work It can be concluded that according to respondents, it has an impact that the SIMRAL application makes it easier to submit accountability reports. However, some respondents feel that it is not optimal because there are still respondents with neutral answers 16.7% of all respondents

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The results of the analysis of the product/output evaluation of the achievement of the objectives of using the SIMRAL application are by the questionnaire on the employee behaviour indicator implementing quality management, and continuous improvement in the instrument.increase motivationIt can be concluded that according to respondents, the use of the SIMRAL application can increase motivation to continuously improve one's abilities. However, some respondents felt that it was not optimal because there were still respondents with neutral answers 19.4% of all respondents. Then the results of the analysis of the instrument can be concluded that according to respondents, the use of the SIMRAL application can improve work quality continuously. However, some respondents feel that it is not optimal because there are still respondents with neutral answers of 13.9% of all respondents.

## 5. Conclusion

The results of research that has been carried out on the CIPP model based on evaluation can be concluded as follows:

**Context Evaluation.** The results of the description and analysis of the research found various information, conditions, and various problematic phenomena in the use of the SIMRAL application, research on context evaluation.related to the intent and purpose is as a guideline for officials and implementers of regional financial management so that it is managed in an orderly manner, in accordance with laws and regulations, effectively, efficient, economical, transparent, and responsible by paying attention to the principles of justice, compliance, and benefits for the community by the regulation of the Mayor of Bogor number 21 of 2020 concerning the system and procedures for managing regional finances in the Bogor city government environment is very important because it facilitates program and activity planning, budgeting, administration, and financial reporting and regional information. In this case, it is necessary to develop the SIMRAL application so that it can be accessed more widely so that it can maximize the use of the application as a whole by all stakeholders in order to access accountability reports. The results of the study stated that the use of the SIMRAL application at the Public Works and Spatial Planning Service was quite good, but still needed improvement. The development of the SIMRAL application is very important, because with the development of the application, various things can be accessed properly and according to needs.

**Input Evaluation.** The results of the description and analysis of the research found various information, conditions, and various problematic phenomena in the use of the SIMRAL application, research on input evaluation, on the quality of human resources in the BPPT E-Planning Module, 2008-2017 can facilitate demands for increased performance, service quality, and efficiency of resource utilization as the development of competency and ability to use SIMRAL applications. The benefits of using SIMRAL applications for HR quality can improve performance in terms of productivity and improve quality in terms of discipline. In improving the quality of SIMRAL application services, it is necessary to hold HR training and development for all ASNs of the Bogor City Public Works and Spatial Planning Service, to facilitate the use of SIMRAL applications and the process of regional development planning and budgeting and can be accessed more easily. SIMRAL application competency training and

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development aims to improve employee performance and develop SIMRAL application competency so that the process of implementing, maintaining, and developing SIMRAL applications runs well.

**Process Evaluation Data.** The results of the process evaluation related to the steps of the SIMRAL application are the process of using SIMRAL by Budget Users, PPK-SKPD, Expenditure Treasurers and PPTK for regional spending needs in the context of implementing the APBD in SKPD as stated in Bogor Mayor Regulation number 21 of 2020, in using the SIMRAL application a work plan is needed according to the activity program prepared by PPTK. In the steps for using the SIMRAL application, budget details are also needed so that the activity program is implemented properly and facilitates regional financial management. In the administration procedure in Bogor Mayor Regulation number 21 of 2020, to make payments, PPTK submits a payment attachment and carries out a verification process so that there are no errors in payments such as wrong shopping account codes. In the implementation of UP/GU/TU/KKPD payments, they can be paid directly through the SKPD account to the party that needs to be paid. Meanwhile, LS payments are paid directly by BUD to third parties.

**Product Evaluation.** Result of evaluation of output/achievement of SIMRAL application objectives against the results/benefits achieved from SIMRAL application can increase the effectiveness of government budget usage in supporting public service functions and increase efficiency in implementing programs and activities such as in the BPPT E-Planning Module 2008-2017. In product evaluation in the effectiveness of budget usage with SIMRAL application can maximize budget monitoring, while the results and benefits increase control of regional budget usage. The use of SIMRAL application can increase efficiency in implementing programs and activities, and facilitate decision making to support public service functions.

**Impact Evaluation.** The results of the interpretation of the impact data from the use of the SIMRAL application are expected to anticipate all developments or paradigm changes in regional financial management by continuously making improvements and refinements independently, so that budget management and activities in the regional government environment are always more effective and efficient in accordance with the BPPT E-Planning Module 2008-2017. With the SIMRAL application, the paradigm change in regional financial management, work is easier to do and it is easier to submit accountability reports. To improve the ability of self-behavior, employees implement quality management by continuously increasing motivation.

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