

## Efficiency of Village Government Administration Information System Applications in realizing Public Information Openness

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**Abstract.** The Bojonegoro Regency Government, which is overseen by the Bojonegoro Regency Community and Village Empowerment Service, initiated the creation of the Village Government Administration Information System Application (SIAP DESA). This application can be freely accessed by the public, however, it was discovered that in its implementation the village SIAP application was not completely efficient. Based on initial observations, it was found that many villages had not completed the information in the village SIAP Application. The aim of this research is to determine the efficiency of the Village SIAP Application in realizing public information transparency. The method used is a descriptive qualitative approach with data collection through interviews, observation and documentation. The research results show that the village SIAP application is not completely efficient. Several factors that underlie this include the Village SIAP Application, there is a menu that has no time limit for uploading files, namely the data menu for the Village Head, Village Apparatus, PAW Members and Legal Products. Furthermore, there is also no time limit for completing data updating, making each village feel more relaxed in updating data in the application. The government's digital update in building the village SIAP application is the right step for efficiency, especially in terms of materials and costs. However, the SIAP Village Application can be said to be fully efficient if the menus are complete, accurate and updated. Therefore, it is important to create a timeline for updating the Village SIAP Application menus to show openness of public information to the community and related stakeholders.

**Keywords:** Village; Application; SIAP; Public; Information

**Received:**21-11-2023 **Revised:**15-12-2023 **Accepted:**29-12-2023

### INTRODUCTION

Entering the modern era is marked by the use of technology in various lines of human life, making humans in every daily activity ultimately utilize the use of technology for the sake of efficiency. Many governments use technology to increase the effectiveness and efficiency of governance administration. Increasing the efficiency of application technology does not only mean reduced costs and increased profits for governments. However, improving the efficiency of application technology may include improving working conditions. The use of application technology aims to ensure that the government makes decisions quickly, according to its needs.

Concept of Efficiency According to Sedarmayanti (2014), is a measure of the level of use of resources in a process, there are indicators measuring efficiency, namely work results according to demands, completion of work on time, relatively small use of materials, efficient management,

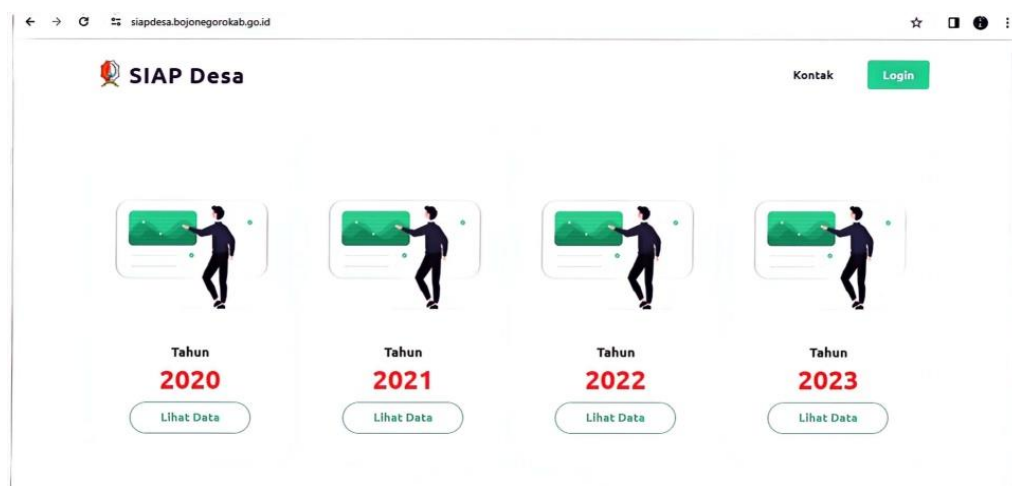
costs incurred. The principles of efficiency are measurable, rational, paying attention to quality, considering procedures, which means ensuring that implementation is in accordance with applicable regulations, implementing efficiency, measuring the level of efficiency. From a government background that is full of aspects of secrecy and tends to be closed, efforts are continuously being made to improve and transform towards a more effective and quality government. One of the efforts made is to encourage public openness which is embodied in Law no. 14 of 2008. The right to obtain information is a human right and openness of public information is one of the key characteristics of a good state. It is stated that public information disclosure functions as a tool to increase the effectiveness of public supervision and regulate all matters that may affect the public interest. According to Syamsuddin Haris (2004), One of the characteristics of Good Governance is openness. This characteristic is in line with the spirit of an open information era due to the information revolution. This openness covers all aspects of activities related to the public interest.

Use of application technology in the field of public service administration, in the form of administrative information system applications. Administrative information system applications can help in various ways, such as financial management and more effective and efficient administrative management in order to realize public information transparency. Referring to article 23 paragraph (1) of Law Number 25 of 2009 concerning Public Services, it is stated "In order to provide information support for the implementation of public services it is necessary to organize a National Information System" while in article 23 paragraph (4) of Law Number 25 2009 concerning Public Services Organizers are obliged to manage Information Systems consisting of Electronic or Non-Electronic Information Systems which at least include; Organizer Profile, Implementer Profile, Service Standards, Service Information, Complaint Management, and Performance Assessment.

The East Java Provincial Government is working to digitize all aspects of services that have a direct impact on society. This effort reflects the East Java Provincial Government's commitment to implementing an electronic-based government system to achieve bureaucratic reform that has a positive impact on society. The government has the potential to utilize digital technology to increase the efficiency of public services, expand citizen participation in the decision-making process, and increase transparency and accountability, all of which can be made easier by using applications. The advantages of using the application include ease of access, time efficiency, a higher level of operational security, and reducing the risk of extortion or illegal payments. Apart

from that, using applications can also optimize costs (Chiu et al., 2009; Kim & Lennon, 2013; Sawitri & Febrian, 2018)

In order to support the Bojonegoro Regency Regional Medium Term Development Plan (RPJMD). The Bojonegoro Regency Government, which is overseen by the Bojonegoro Regency Community and Village Empowerment Service, initiated the creation of the Village Government Administration Information System Application (SIAP DESA). The SIAP Desa application is a web-based application that has many menus, namely; Stunting Prevention Convergence Budget Menu, Budget Menu and Realization of PPKM Implementation, Budget Menu and Realization of Village Fund BLT, Village Development Index Data Menu, Village Planning Menu, APBDes Realization Menu, APBDes Publication Menu, Top 10 Village Budget Realization Menu, Transfer Fund Proposal Menu, Village Government Apparatus Menu, and Legal Product Menu in 419 Villages in Bojonegoro Regency.



**Figure 1. SIAP Village Website**

Source: <https://cepatdesa.bojonegorokab.go.id/web>

Based on initial observations made by researchers, it is clear that the Village SIAP Application updates data that is managed from 2020 - 2023, can be reached or accessed by the general public and is able to provide facilities for inputting public information from various regional apparatuses without requiring direct visits to agencies. related. However, in this case, if you pay attention, it is found that many villages have not completed the administration of the menus in the Village SIAP, so they cannot provide clear and accurate information to the public and prove the efficiency of the Village SIAP Application, which cannot be said to be completely efficient. According to the results of monitoring and evaluation number 140/176/412.211/2023 regarding

"Optimizing and Updating Village Government Administration Data Input in the Village SIAP Application" there are several things that need attention as follows: On the Village Election Menu, Village Government Apparatus Menu and Product Menu The law is that not all villages have updated their data so that people in general still visit the relevant agencies directly to obtain complete and accurate data.

The research conducted by Erliana et al. (2019), "Bandung Regency Public Information Openness Application" states that the application is optimal and running well, this is based on the Bandung Regency Public Information Openness Application (KIP) being able to provide facilities for inputting public information from various regional apparatuses without requiring a direct visit to the Bandung Regency Diskominfo . Users can access public information based on categories, facilitating the process of submitting requests for public information to the public without having to come directly to the Main Bandung Regency Information and Documentation Management Officer (PPID) to fill out the form, as well as provide information regarding the progress of processing their application based on the disposition of the application made. by the Information and Documentation Management Officer (PPID). Apart from that, not much research has been found so researchers are interested in conducting this research. So this shows that the fundamental problem that arises is that the efforts made by stakeholders regarding data updating are not efficient. Based on this, there is a need for an in-depth study regarding the efficiency of the Village SIAP Application in realizing public information transparency.

The research conducted by Achmad Qushain et al. (2024), "Implementation of the Village Information System (SID) as an Effort to Improve the Quality of Public Services. Study of the Gapura Tengah Village Office, Gapura District, Sumenep Regency" explains that the application has been running smoothly, but if you look at the implementation there are several obstacles, namely the lack of in-depth socialization to residents so that some residents do not understand and run the application. So, in implementing the DIGDAYA Village Information System, researchers collaborated with the Sumenep Regency Community and Village Empowerment Service (DPMD). Support and commitment from the village head is realized by setting aside a portion of the village budget for implementing the application system and providing supporting facilities and infrastructure such as computers and wifi networks.

From previous research, the researcher aims to determine the efficiency of the Village SIAP application in realizing public information openness. Several factors that underlie this include the Village SIAP application, there is a menu that has no time limit for uploading files, namely the data menu for the Village Head, Village Apparatus, PAW Members and Legal Products.

Furthermore, there is also no time limit for completing data updating, making each village feel more relaxed in updating data in the application. The government's digital update in building the village SIAP application is the right step for efficiency, especially in terms of materials and costs. With the aim of providing the resulting information more quickly and accurately, using this application can streamline government activities in the current digital era more efficiently.

## **METHODS**

This research will determine the concept of efficiency of the Village SIAP application in realizing public information openness by using a case study research type, namely qualitative research with a descriptive research type. The reason the researcher chose qualitative research with a descriptive research type was because the researcher wanted to describe the conditions that would be observed in the field more specifically, transparently and in depth. The focus of this research is approached using efficiency theory according to Sedarmayanti (2014) which has 5 indicators, namely work results according to demands, completion of work on time, relatively small use of materials, efficient management and costs incurred.

In this research, researchers used a purposive sampling technique involving informants, namely employees of the Bojonegoro Regency PMD Service and the Village SIAP application access manager at each Village Government. In this research, data sources were obtained from primary data and secondary data through observation, interviews and documentation techniques. Then with qualitative data analysis according to Miles and Huberman in Sugiyono (2017) namely data collection, data editing, data presentation, and drawing conclusions.

## **RESULTS AND DISCUSSION**

### **Village Ready App**

The Village SIAP application is an application or website that contains village administration information, for example open access starting from 2020 - 2023 which is used for the Stunting Prevention Convergence Budget, Budget and Realization of PPKM Implementation, Budget and Realization of Village Fund BLT, Village Development Index Data , Village Planning, APBDes Realization, APBDes Publication, Transfer Fund Proposals, Village Government Apparatus, and Legal Products from 419 villages in Bojonegoro Regency. This application can be accessed by the public directly without having to request public information by visiting the relevant public body. This application began to be used by villages at the end of 2021. Before using the SIAP Village

application or website, the system used used the village website which was managed by each village.

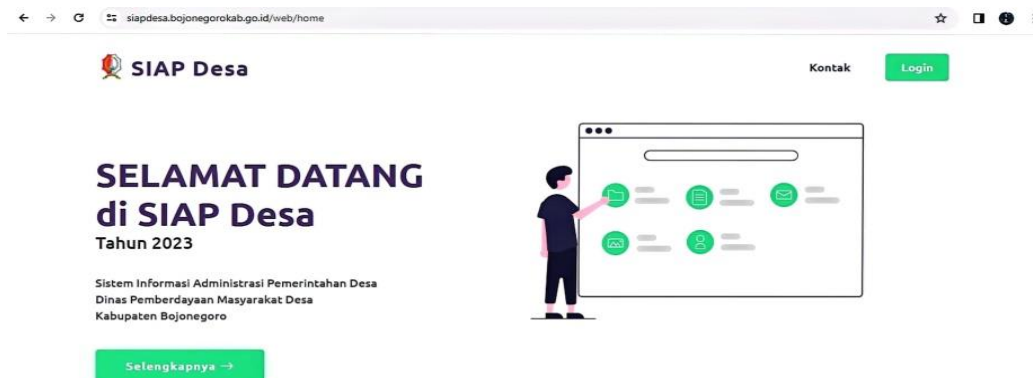


Figure 2. Main website Page

Source: <https://cepatdesa.bojonegorokab.go.id/web/home>



Figure 3. Bojonegoro Regency Stunting Prevention Convergence Budget Menu

Source: <https://cepatdesa.bojonegorokab.go.id/web/stunting>

The stunting prevention convergence budget menu displays the budget amount for each village for stunting prevention efforts. The total budget for stunting prevention in Bojonegoro Regency in 2020 is IDR 10,958,584,376, in 2021 it is IDR. 93,544,779,008, in 2022 amounting to Rp. 164,192,612,248, in 2023 amounting to Rp. 122,396,691,467. With the SIAP Village



application website, information applicants can find out about the openness of information about the convergence budget for stunting prevention in each village government.

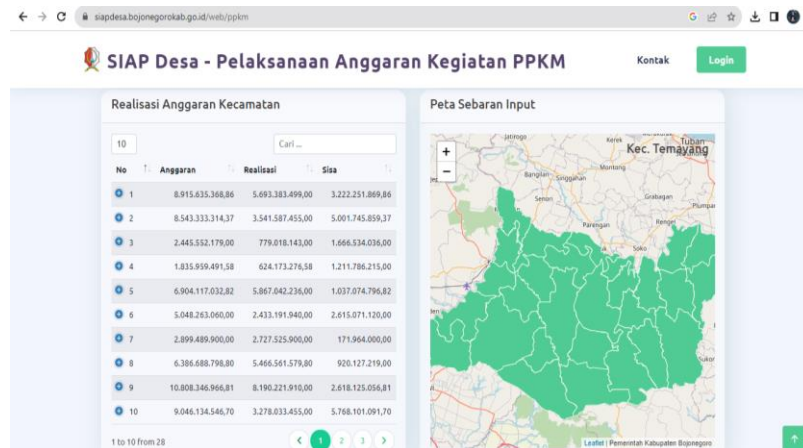


Figure 4. Budget Menu and Realization of PPKM Implementation in Bojonegoro Regency

Source: <https://cepatdesa.bojonegorokab.go.id/web/ppkm>

PPKM (Implementation of Restrictions on Community Activities) is a regulation established in 2019 which was implemented with the aim of controlling the increase in positive cases of the Covid-19 virus. There are many details or points in the PPKM rules, one of which is limiting community activities outside the home. In this menu, you can see open budget information for PPKM activities starting from 2020.

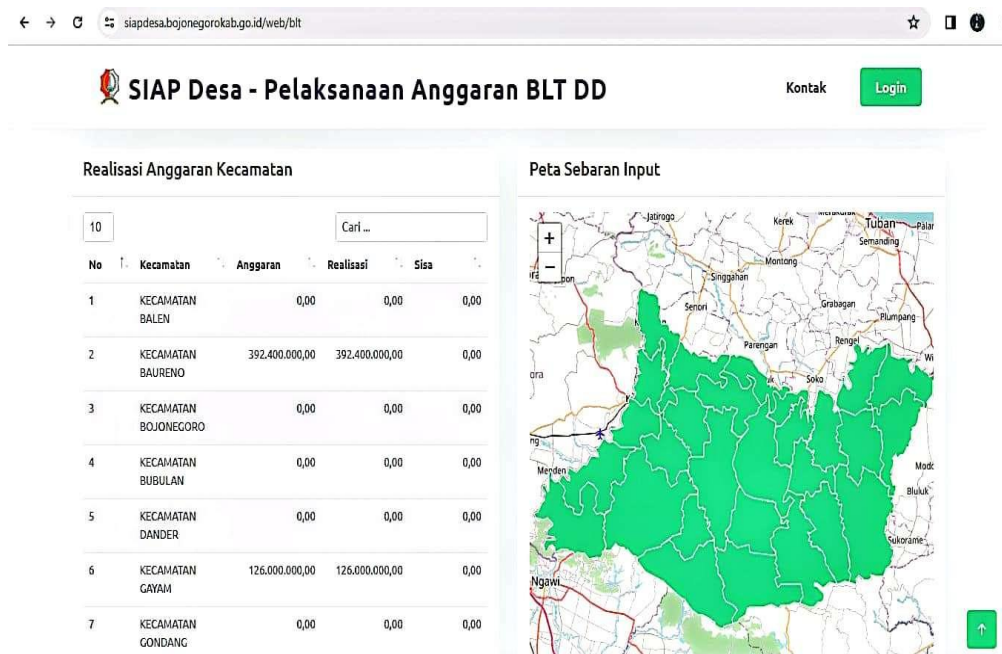


Figure 5. Budget Menu and Realization of Bojonegoro Regency Village Fund BLT

Source: <https://cepatdesa.bojonegorokab.go.id/web/blt>

The Village Fund Direct Cash Assistance (BLT) Program is an initiative targeted at providing financial assistance to families who are underprivileged in rural areas. The funding source for this program comes from village fund allocations with the aim of supporting the acceleration of extreme poverty alleviation. In 2023, the Village Fund BLT Budget and Realization Percentage will be 74.41%, meaning the largest budget in previous years. With a budget of IDR 2,838,218,600. Public Information Disclosure from the Budget and Realization of Village Fund BLT menu can be said to be efficient and accurate data from 419 villages in Bojonegoro Regency.

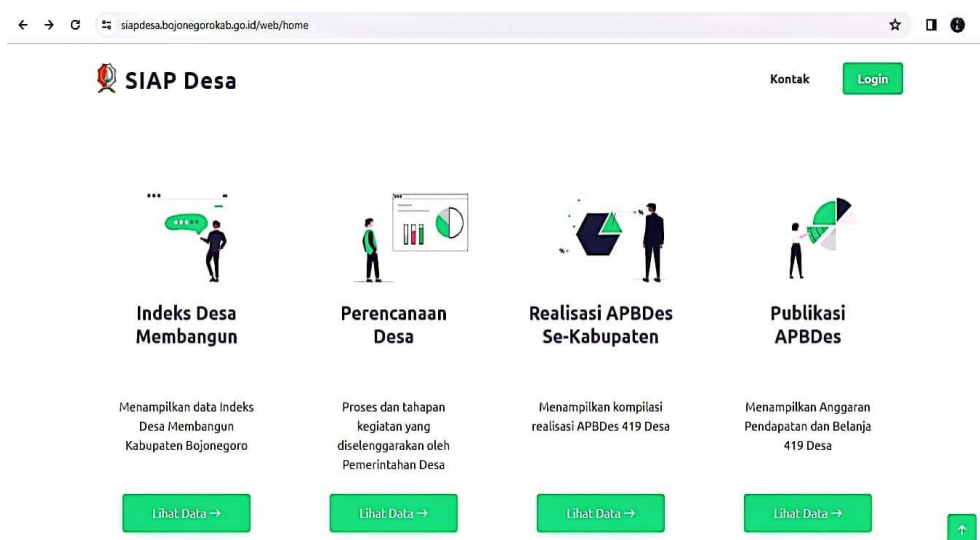


Figure 6. Village Government Data Displayed

Source: <https://cepatdesa.bojonegorokab.go.id/web/home>

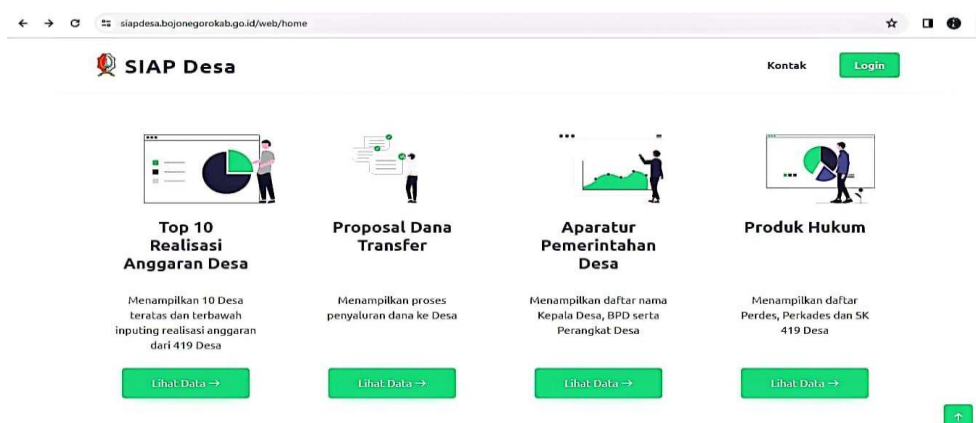


Figure 7. Village Government Data Displayed

Source: <https://cepatdesa.bojonegorokab.go.id/web/home>

In the SIAP Village Application there is village Government data, namely the Village Development Index, Village Planning, Realization of District-wide APBDes, Publication of



APBDes, Top 10 Village Budget Realizations, Transfer Fund Proposals, Village Government Apparatus, Legal Products. Of the 8 menus above, there are no restrictions on uploading data changes and uploading data according to data changes. Based on this, there are still many villages that have not completed it. Based on the information obtained by researchers, the efforts of the Bojonegoro Regency Community and Village Empowerment Service to overcome the incompleteness of administrative data in the Village SIAP application are by providing technical guidance and a data input procedures desk to the Village SIAP operator.

### **Village Ready Application Efficiency**

#### **1. Work Results According to Demands**

The context of efficiency of work results according to demands has an influence based on the target achievement of previously set goals. According to Prosperous (2011), The efficiency of work results according to demands is a measurement of the achievement of targets or objectives that have been previously set using measures of accuracy of efficiency where targets or goals can be achieved in accordance with the plans that have been made. Based on interviews with Bojonegoro Regency PMD Service Employees, it was found that in its implementation the Village SIAP Application could be said to have not met the achievement targets. Some of the data on the Village READY menu is incomplete because Village Operators have not been optimal in inputting data according to real conditions in the Village. In response to this, the Community and Village Empowerment Service always provides encouragement to District Supervisors and Village Operators to be active in inputting data and changes, and providing guidance. technical and Desk procedures for inputting data to the Village SIAP operator. So that the work results can meet the demands or work targets that have been previously planned.

#### **2. Timely Work Completion**

Completion of work on time refers to carrying out work correctly, appropriately, and not wasting time so that the work can be completed before the specified deadline or time limit (Sedarmayanti, 2014). From the data previously obtained by researchers, the Ready Village application has a final upload deadline or file upload limit. With file upload limits, all application access holders can update data within a predetermined time period and this will make the information on the Ready Village application accurate. The better the timeliness of updating, the better the work productivity will be Mahardita (2017). Based on information that researchers obtained from the Community and Village Empowerment Service of Bojonegoro Regency, the Village SIAP Application has a menu that has no limits on uploading and a menu that has limits on uploading files or data, namely in the Village Government Administration data menu such as

data from the Village Head, Village Apparatus. , PAW members and village legal products have no restrictions on uploading data changes and data uploads are adjusted to the occurrence of data changes. Meanwhile, in the Village Fund distribution and reporting menu there are limits on uploading files or data according to the stages of Village Fund distribution, namely in Non-Independent Villages there are 3 stages of uploading requests for Village Fund distribution and reporting, namely stage 1: January to June, stage 2: month March to August, stage 3: June to December. In Mandiri Village there are 2 stages of uploading requests for distribution and reporting of Village Funds, namely stage 1: January to June, stage 2 March to December.

### **3. Relatively Small Material Use**

Before the Ready Village application, the use of materials for distributing transfer funds was manual, meaning that they still used paper materials for the process of distributing transfer funds. Starting from the initial process stages to the end. With the Ready Village application, you can manage administration by reducing or eliminating the use of paper and switching to digital documents or what is called Paperless. Switching to paperless can reduce operational costs associated with paper use, such as purchasing costs. This is in line with research from Saifudin (2019) that sending data with digital documents uses less material than sending manual documents in the form of paper. The development of administrative management technology with digital documents can make work more efficient.

### **4. Efficient Management**

The Government needs to have good administration so that monitoring of all activities can be carried out optimally. With the Ready Village application which is based on digital technology, government management can be made more efficient. According to Desiani et al. (2021), The transition of the administration management system to digital makes it more efficient in terms of time, cost and energy. Regarding the update of inputting data on the Village SIAP Application, the Bojonegoro Regency Community and Village Empowerment Service, at every Coordination Meeting with Districts and Villages, conveyed an appeal for villages to always optimize and update village administration data input if there are changes, most recently through a letter from the Head of the PMD Service dated 21 September 2023 Number: 140/1716/412.211/2023 regarding Optimization and Update of village government administrative data input in the Village SIAP application. This is consistent with the results of research conducted Sihombing (2018), which states that the Public Information System must always be updated in order to provide information disclosure to the public. Due to the use of technology, updating data is easier

compared to manual methods, so it is hoped that villages will be able to update data when there are changes.

## 5. Efficiency of Costs Incurred

By switching to paperless, the costs incurred are relatively small because there is no need for physical documents, thereby reducing operational costs related to the use of paper. In the Distribution of Transfer Funds, namely sending proposal files manually from the village to the sub-district, after receiving a cover letter from the sub-district, it is continued to the Community and Village Empowerment Service of Bojonegoro Regency for further verification and continues to the Regional Financial and Asset Management Agency of Bojonegoro Regency. The Ready Village application can streamline this process so that it can cut peak service costs. This is in accordance with the study conducted by Hisbani et al. (2015), which explains the importance of innovation in services to reduce complexity, high costs in terms of financing, and long times in terms of service duration.

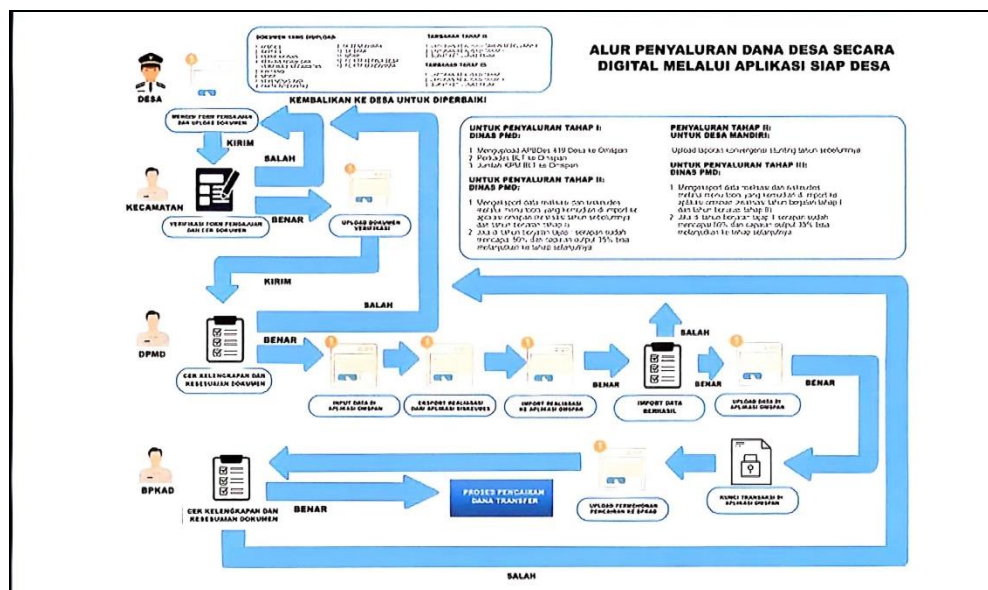


Figure 8. Flow of Transfer Funds in the Ready Village Application

Other factors that hinder submitting requests for disbursement of transfer funds that are not fast enough include the long distance between locations, a shortage of files, a manual typing system and the need for revisions. With the SIAP Village application, the step is to change the manual system to digital or paperless so that there is a change from face-to-face submissions to a remote submission system or via SIAP Village application technology. This is in line with research Ritonga et al. (2023), which stated that 82.08% agreed that the use of digital in government makes it easier for people to carry out administration remotely. The Community and

Village Empowerment Service hopes to provide benefits with the Village SIAP application, namely eliminating distance gaps, reducing administrative errors that require file corrections, and speeding up the application for transfer funds to villages.

## CONCLUSION

This research aims to determine the efficiency of the Village SIAP Application in realizing public information transparency. Based on the data presentation and analysis, this research concludes that the Village SIAP Application is not completely efficient. Several factors that underlie this include the Village SIAP Application, there is a menu that has no time limit for uploading files, namely the data menu for the Village Head, Village Apparatus, PAW Members and Legal Products. Furthermore, there is also no time limit for completing data updating, making each village feel more relaxed in updating data in the application. The government's digital update in building the village SIAP application is the right step for efficiency, especially in terms of materials and costs. However, the SIAP Village Application can be said to be fully efficient if the menus are complete, accurate and updated. Therefore, it is a necessity to prepare a detailed timeline for updating the Village SIAP Application menus to show openness of public information to the community and related stakeholders. With the aim of providing the resulting information more quickly and accurately, using this application can streamline government activities in the current digital era more efficiently.

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