

## Training on Optimizing Sirekap Technology in Vote Counting and Recapitulation KPPS TPS 04 Urban Village Panancangan

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### ABSTRACT

One of the innovations implemented by the Indonesian General Election Commission (KPU) is the Recapitulation Information System (SIREKAP), a digital application designed to support the vote counting and recapitulation process directly from polling stations. This training aims to analyze the impacts and benefits of using SIREKAP technology in elections, as well as the challenges faced in its implementation. Training results show that SIREKAP increases the speed of the recapitulation process, reduces the potential for human error, and strengthens the accountability of election results. The method of implementing community service activities is carried out in five ways, Socialization of KPU About SIREKAP Application, Demonstration Stage of SIREKAP KPU Application to KPPS Officers, Implementation Stage of SIREKAP KPU Application to KPPS Officers, Implementation of KPPS Members of TPS 04 Vote Calculation and Recapitulation Results, Evaluation of KPPS TPS 04 Vote Calculation and Recapitulation Results.

## **INTRODUCTION**

Technology optimization training in elections has become a primary need to improve efficiency, accuracy, and transparency in the vote recapitulation process. One of the innovations implemented by the Indonesian General Election Commission (KPU) is the Recapitulation Information System (SIREKAP), a digital application designed to support the vote counting and recapitulation process directly from Polling Stations (TPS). SIREKAP allows the results of the vote count at the TPS to be uploaded and sent directly to the KPU's central system digitally, so that they can be accessed by the public and all interested parties. (Nurkamiden, 2024). The main problem related to the implementation of elections has evolved from technical problems of implementation to demands about the level of accuracy of election results as an important part of the implementation of significant democracy. The proposed election system becomes important in this context and must describe the election aspect as a unity that cannot be separated from each other. (Suryasuciramdhan, 2024).

Along with the development of information technology, election practices that only focus on two ceremonial components, namely vote counting and the election process, are no longer relevant. However, in this situation, although changes or improvements to the election system are very important, without being accompanied by measurable results, this will endanger public trust (Wahyudiansyah, 2024). The level of transparency, accuracy, and public accessibility to election results are indicators that are often mentioned and can affect this public trust. According to the regulations contained in Law Number 7 of 2017 (Republican State Gazette, 2017) about the Election, getting information about the election results takes quite a long time. This is due to the fact that the vote counting and recapitulation system still uses conventional methods. The process used in the vote counting and recapitulation system can be described as follows.

After the voting is complete, the vote counting is carried out at the TPS level in Panancangan Village, Serang City by the Voting Organizer Group (KPPS) and the vote counting is filled in manually with a large number of copies. Then, the recapitulation is sent manually to the sub-district level to be recapitulated and filled in with a large number of copies. The recapitulation is carried out at the Regency/City, Province, and National levels, as was done in Panancangan Village, P&K Complex Block. B, TPS 04. In addition to the possibility of errors caused by human error, a process like this can also lead to fraud. The implementation of the Recapitulation Information System (SIREKAP) is one of the KPU's very important tools and innovations for recapitulating the voting results in the 2024 Election using information technology media devices. (Suryasuciramdhan, Putra, et al., 2024). SIREKAP is an additional tool for publication and recapitulation used to find out the results of the vote acquisition through the KPU website. The plenary decision of the recapitulation at each level determines the final result. The public can find out the continuous progress in the progress and synchronization of the votes of each candidate pair and political party at each National, Provincial and Regency/City level. A number of problems were found in the KPU's SIREKAP.

Although SIREKAP offers many advantages, there are some things to consider when using the SIREKAP application in the 2024 election. One of them is the issue of system and data security. Because SIREKAP is an internet-based system, there is a possibility of cyber attacks that can threaten the validity and integrity of the election results. The security of voting data is very important and must be considered. To ensure a transparent vote recapitulation process that can be accounted for by all parties involved, including election organizers, election participants, and the general public, a clear and easily accessible system is needed.(Zuhri, 2019). Since the 2024 election will be very important and challenging, it is very important to conduct a thorough analysis of the use of SIREKAP and related issues. This analysis is expected to find the right way to reduce risks and ensure the implementation of a successful election that is democratic, fair, and transparent.

A national survey was conducted by Polling Indonesia and the Indonesian Internet Service Providers Association (APJII) a year before the election to measure internet usage in Indonesia. The results showed that the number of internet user penetration in 2024 will reach 79.5%, or 221 million people, up from 14.7% the previous year. In addition, only about 4.8 percent of the 64.8% of new internet users have been using the internet for less than a year. In addition, about 93.9 of the respondents access the internet every day via smartphones or cellphones for a period of one to five hours, with the largest contribution to social media (19.06 percent)(APJII (Association of Indonesian Internet Service Providers), 2024). When the organizers downloaded the vote counting results from the KPU Website, the vote counting tool often displayed incomplete and inaccurate data. In addition, due to frequent technical disruptions to the server (maintenance), access to the vote counting tool took too long. The use of technology in elections reduces its credibility(Wahyudinsyah, 2024). Due to the delay in loading the C-Results KWK data into SIREKAP, the calculation results cannot be known in their entirety. Sometimes, weaknesses affect voter confidence. However, confidence is very important for elections.

This study aims to analyze the impact and benefits of using KPU's SIREKAP technology in elections, as well as the challenges faced in its implementation, especially in areas with limited infrastructure and internet access. The results of the study indicate that KPU's SIREKAP increases the speed of the recapitulation process, reduces the potential for human error, and strengthens the accountability of election results. In addition, SIREKAP optimization training also facilitates public supervision, thereby increasing public trust in election results.(Central KPU, 2024).

## IMPLEMENTATION AND METHODS

From January to February 2024, the Central KPU, Banten Provincial KPU, Serang City KPU and KPPS Officers of TPS 04 Panancangan Village carried out community service through the 2024 election. KPU Socialization of the SIREKAP Application, Demonstration Stage of the KPU SIREKAP Application to KPPS Officers, Implementation Stage of the KPU SIREKAP Application to KPPS Officers, Implementation of KPPS Members of TPS 04 Vote Counting and Recapitulation Results, Evaluation of KPPS TPS 04 Vote Counting and Recapitulation Results (kpu.go.id, 2020) are five methods used to carry out community service activities. Community service activities last for one month. The following are the steps used to carry out community service as follows:

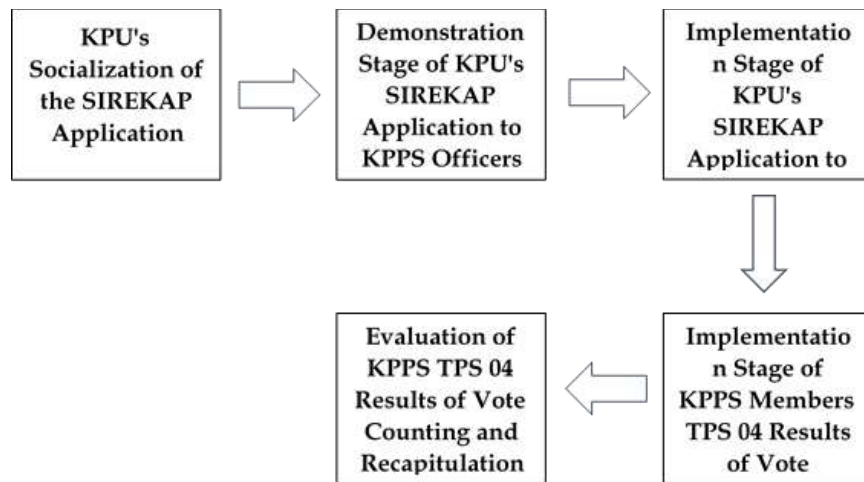


Figure 1. Community Service Flow

### KPU's Socialization of the SIREKAP Application

The KPU has made various socialization efforts to introduce and explain the use of the Recapitulation Information System (SIREKAP) application as part of the modernization of the election process in Indonesia. This socialization is important because SIREKAP is a technological innovation used to digitally recapitulate voting results directly from Polling Stations (TPS) to the KPU data center, which helps accelerate and increase transparency in the election process. The socialization activity was attended by all KPPS members in Indonesia and was carried out for 1 day via Zoom. The focus of the socialization activity was to increase understanding and introduction of the SIREKAP application. They also function as a tool to increase understanding of vote counting and recapitulation. Before the SIREKAP application socialization activity was carried out, the Central KPU provided direction to all KPPS members on how far they knew about the SIREKAP application.

### **Demonstration Stage of KPU's SIREKAP Application to KPPS Officers**

The demonstration activity was carried out by the Serang City KPU directly to all KPPS members in Serang City. The demonstration activity was carried out at the Sagara Lugina Function Hall, Ciracas, Serang City. The demonstration of the SIREKAP application to KPPS officers is an important step to ensure that officers in the field understand and are able to use the application correctly during the election. This demonstration was designed to provide a practical understanding to KPPS officers about the digitalization process of vote recapitulation, starting from how to enter data to sending the recapitulation results to the KPU server. At the demonstration stage, the main objective was to provide an understanding to KPPS members on how to use the SIREKAP application, which will later be used by the Central KPU and Regional KPU for vote counting and recapitulation at the national level. (Saepudin et al., 2023).

### **Implementation Stage of KPU's SIREKAP Application to KPPS Officers**

The activity was accompanied by the District Election Committee (PPK), the Voting Committee (PPS) and the Serang City KPU to members of the KPPS TPS 04 Panancangan Village and continuously directly at the GSG Hall location of the P&K Complex Block. B. The mentoring stage was carried out to find out whether KPPS members had truly mastered and understood the SIREKAP application as stated in the socialization and demonstration stages of the SIREKAP application. At the end of the SIREKAP application implementation stage, KPPS members, especially TPS 04, were asked to report all calculations and recapitulation of C-KWK votes into the SIREKAP application in the form of a Scan PDF.

### **Implementation of KPPS Members TPS 04 Results of Vote Counting and Recapitulation**

The implementation stage was carried out by members of the KPPS TPS 04 Panancangan Village, Serang City who carried out the calculation and recapitulation of the C-Result KWK votes for the President and Vice President, the Indonesian House of Representatives, the Indonesian Regional Representative Council, the Provincial DPRD and the Regency/City DPRD. The implementation of the SIREKAP application by the KPPS involved various important stages, from infrastructure preparation to post-election evaluation. These stages aim to ensure that the KPPS can use the application effectively, so that the vote recapitulation process becomes faster, more transparent, and more accurate. With these stages, the KPU can continue to strengthen the quality of elections in Indonesia through reliable and sustainable technological support.

### **Evaluation of KPPS TPS 04 Results of Vote Counting and Recapitulation**

The final stage of the activity is the evaluation stage, where the activity is evaluated. has been done. The evaluation of the KPPS must comply with the procedures set by the KPU, including procedures in using the SIREKAP application, filling out the C1 form, and other steps in the recapitulation process. This compliance helps maintain consistency across all TPS and reduces the possibility of errors or violations. The KPPS must be able to carry out its duties transparently, where the results of the calculation can be seen and verified by witnesses, election supervisors, and authorized parties. This accountability includes reports of results and adequate documentation of evidence. As stated by (Suryasuciramdhan, Zulfikar, et al., 2024) This evaluation can be used to measure how well the targeted activities are achieved. One way to conduct an evaluation is to see whether the KPPS members' understanding of the SIREKAP technology used for vote counting and recapitulation has been received and implemented correctly. (Pradesa, 2024).

Evaluation of the results of vote counting and recapitulation through the SIREKAP application in the context of elections aims to ensure that the process runs accurately, transparently and accountably. Evaluation of SIREKAP (Electronic Recapitulation Information System) is important to ensure that the system is running effectively, accurately, and reliably in supporting the election results recapitulation process. A comprehensive evaluation of SIREKAP can provide a strong basis for improving the democratic process in Indonesia, especially in ensuring fair, fast, and transparent election results. Thus, the KPU as a partner provides intensive training for KPPS, PPK, and supervisors regarding counting and recapitulation procedures, improving electronic recapitulation technology to be safer and more efficient, clarifying the rules for handling objections or disputes over election results, ensuring that the entire process can be monitored openly by the public and stakeholders so that this evaluation is very important for improving the election process in the future and is trusted by the public.

### **RESULTS AND DISCUSSION**

Community service activities are carried out in stages with a focus on five stages: socialization of the SIREKAP stage, demonstration stage of the SIREKAP application, implementation stage of the SIREKAP application, implementation stage of the KPPS TPS 04 members of the vote counting and recapitulation results and evaluation of the KPPS TPS 04 vote counting and recapitulation results. The results of the activities in each stage are explained as follows:

### KPU's Socialization of the SIREKAP Application

Socialization carried out by the KPU to KPPS officers who will be directly involved at the TPS (Ramadhani et al., 2024). KPPS officers were given an introduction to the SIREKAP application by the Central KPU and the Serang City KPU so that the recapitulation process runs efficiently and accurately. This socialization aims to increase public trust in the election. With effective socialization, the public can understand that the election results are recapitulated digitally and in real time. This reduces concerns about data manipulation, because the public can verify the results directly, so that the level of public trust in the integrity of the election process, strengthens the legitimacy of the election results and can be known more quickly and accurately by KPPS officers at TPS 04 Panancangan Village, Serang City, Banten.

From the side (Central KPU, 2024) provide answers to the impact of SIREKAP KPU on increasing public understanding and public participation. The socialization of the SIREKAP application helps the public understand the technology used in elections and encourages them to be involved in the process of monitoring election results directly in increasing public involvement and awareness of the importance of transparency in elections, which can contribute to public trust in election results. With this socialization, it is hoped that KPPS officers can better understand how to operate the SIREKAP application correctly, thereby reducing the risk of errors during the recapitulation process and reducing the potential for errors when using the application, technical errors, accelerating the vote recapitulation process, and ensuring more accurate results.



**Figure 2. Head of KPPS and Members of KPPS TPS 04 Panancangan Village Participate in the Socialization Stages of the SIREKAP Application with the Central KPU and Regional KPU**

As seen in Figure 2 The Head of KPPS TPS 04 Panancangan Village watched and listened to the socialization related to the SIREKAP application via zoom. The SIREKAP socialization was organized by the KPU. The SIREKAP socialization was an effort by the KPU to improve the competence and readiness of KPPS TPS 04 officers. The SIREKAP socialization targeted training for TPS 04 officers and other election committees so that they were better prepared to use the SIREKAP application, especially in areas that were not yet familiar with

technology, so that KPPS officers in all regions could improve digital skills that could reduce the potential for errors when using the application, while preparing a more advanced election infrastructure in the future.

### **Demonstration Stage of KPU's SIREKAP Application to KPPS Officers**

The demonstration stage of the SIREKAP application was carried out in the second week after the socialization stage from the Central KPU and was carried out for 1 day of implementation. The demonstration activity was carried out directly by the IT Team from the KPU KPU Serang City located at the Sagara Lugina Function Hall. At this stage all members of the KPPS Se-The city of Serang attended the event to conduct a continuous demonstration starting from the initial steps on how to use the SIREKAP application to a simulation of uploading the C-Results of the KWK vote recapitulation. (Laksitowening et al., 2024). KPPS members directly filled in the data for the login system trial by the KPU on the SIREKAP application. A comprehensive system trial was carried out to ensure that the SIREKAP application could run as expected. At this stage, SIREKAP was tested with a real election scenario to measure the stability, speed, and accuracy of the results produced by the application.



**Figure 3. Head of KPPS and Members of KPPS TPS 04 Panancangan Village Participating in the SIREKAP Application Demonstration Stages with the Serang City KPU at the Sagara Lugina Function Hall**

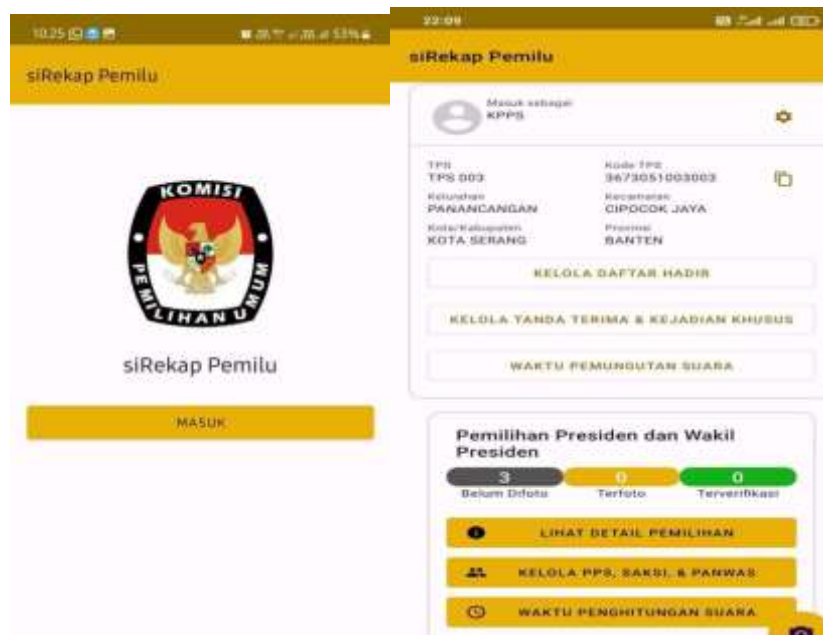
As seen in Figure 3, KPPS members are studying operating the SIREKAP application. This demonstration allows practical training for KPPS officers in operating SIREKAP, so that they are more familiar with the interface and functions of the application can reduce the potential for operational errors during the election, increase efficiency, and ensure that the recapitulation runs smoothly with the technical skills of election officers who are more prepared. Direct demonstrations are also carried out with structured assistance by PPS and PPK who are also part of the KPU Serang City Election Officer Team in this case providing instructions and directions for the SIREKAP application.

Through the demonstration of the SIREKAP application conducted by the Serang City KPU, it was possible to identify potential technical problems that might occur when using the application in the field, especially in varying conditions, such as areas with limited internet access. Validation of technology and infrastructure readiness provide useful insights for the KPU in measuring the readiness of technology infrastructure and internet networks in various regions, while also finding solutions to overcome emerging obstacles. The demonstration of the SIREKAP application accelerated the recapitulation process and reduced the waiting time for election results which generally takes a long time in manual methods, as well as increasing the operational efficiency of the election.

### **SIREKAP Application Implementation Stage by KPU**

The SIREKAP (Electronic Recapitulation Information System) application is a digital innovation developed by the General Election Commission (KPU) to support the electronic recapitulation process of election results. The implementation of this application aims to increase transparency, accuracy and efficiency in vote counting and recapitulation. The implementation of SIREKAP is a step forward in digitizing the electoral process in Indonesia. With proper management and support from all parties, this application is expected to provide great benefits in improving the quality of democracy in Indonesia.

The implementation stages of the SIREKAP application by the KPU have various positive impacts and challenges in the election process in Indonesia, while increasing transparency and accountability in the voting and vote counting process. The implementation of the SIREKAP application is a follow-up stage carried out after socialization and demonstration activities. This stage is carried out in the implementation of the election for the calculation and recapitulation of C-Results of the KWK vote in the election of the President and Vice President, the Indonesian House of Representatives, the Indonesian Regional Representative Council, the Provincial DPRD, and the Regency / City DPRD (Maniagasi & Aedah, 2023). The implementation of the use of the SIREKAP application in the vote recapitulation process from the central and regional TPS levels is faster, because data can be directly uploaded and calculated digitally and accelerates the announcement of temporary results, reduces the public's waiting time for election results, and minimizes delays that often occur in manual recapitulation.



**Figure 4. Implementation of the SIREKAP Application for KPPS Members of TPS 04, Panancangan Village**

Shown in Figure 4, KPU Serang City provide opportunities for KPPS TPS 04 officers to acquire new skills in using digital applications and technologies that have an impact on KPPS TPS 04 officers, which contribute to the modernization of future election implementation and facilitate reporting, management, and archiving of election result data, as well as facilitating monitoring of results at various regional levels. Then, after the voting and vote recapitulation stages were carried out, the KPPS TPS 04 members then carried out a qualitative descriptive analysis and match the voter data obtained from the voting results to be photographed, scan the PDF to be sent to the SIREKAP application so that there is no vote inflation (Central KPU, 2024).

### **Implementation of KPPS Members of Vote Counting and Recapitulation**

Results The next stage is the counting and recapitulation of votes. After the voting is complete, members of the KPPS TPS 04, Panancangan Village, Serang City. The implementation of duties by KPPS members in counting and recapitulating votes has a very important impact on the integrity, accuracy, and smoothness of elections in Indonesia. This careful process ensures that the results of votes at the TPS level are accurate, reducing the risk of miscalculations that can affect the results at higher levels. Open elections are expected to have transparency and accountability in the implementation of elections, so that the public has more confidence in the election results and the integrity of the KPPS.

After the vote count is complete at TPS 04, KPPS compiled a report on the results of the vote count on form C1. With the results that have been organized since at the TPS, the recapitulation process at the PPK (sub-district) level can take place faster and more efficiently. In order to increase time efficiency and reduce the potential for errors in the recapitulation process at the sub-district level and so on. This form contains the final results of the vote count at the TPS, recording the number of valid votes, invalid votes, and total votes used. KPPS members

take a photo of the completed C-KWK form and upload it to the SIREKAP application. This photo serves as visual evidence and makes it easier to verify data. The calculation results data is inputted into the SIREKAP application to be sent to the central server as part of the digital recapitulation.



**Figure 5. Signing and Sealing of Document C-KWK Results by the Head of KPPS and Members of KPPS TPS 04 Panancangan Village and Submitted to PPS and PPK**

Shown in Figure 5, the submission of C-Results KWK and the sealing of Documents in the ballot boxes of the President and Vice President, DPR RI, DPD RI, Provincial DPRD and Regency/City DPRD. After the recapitulation is complete, KPPS members and witnesses sign the C-KWK form as proof of approval. The recapitulation document is then sealed in a special envelope or bag to keep it safe when sent to the sub-district level. The results of the calculation and recapitulation at the TPS, along with physical documents such as the C-KWK form, are sent to the PPS and PPK to be verified and recapitulated at the sub-district level. This delivery is usually carried out with an escort to ensure the security and integrity of the document.

### **Evaluation of KPPS TPS 04 Results of Vote Counting and Recapitulation**

The evaluation stage according to (Arfian 2024 et, al) which is the final stage of the Community Service (PKM) activity is evaluation. The KPU's evaluation of the performance of KPPS members based on the results of the vote count and recapitulation has a significant impact on improving the quality of elections in Indonesia. This evaluation helps the KPU understand the strengths, weaknesses, and training and technology needs that must be improved for the next election. The KPU can formulate stricter procedures or provide more intensive training on the recording aspect, so that the accuracy and reliability of the count at TPS 04 increases in the next election. With evaluation, the KPU can find obstacles faced by the KPPS during the counting, such as the flowwork, procedures for filling out forms, or technical application issues. The KPU can prepare operational guidelines that are easier to understand and implement, so that the counting and recapitulation process in the field runs more effectively.

The evaluation shows the extent of the KPPS's understanding and ability in carrying out their duties, including in operating the SIREKAP application. The KPU can develop more targeted training materials, conduct additional simulations, and ensure that the KPPS is more prepared and confident in using technology or carrying out the required procedures. The evaluation starts from TPS 01 to 33 in Panancangan Village by the KPU, PPK and PPS by re-checking the vote count results that have been recorded in the C-KWK form. KPPS members ensure that the number of valid votes, invalid votes, and total votes are in accordance with the number of ballots used. If data discrepancies are found at the TPS, the KPPS will re-check to ensure the accuracy of the data before being signed and submitted to the PPK and PPS levels.

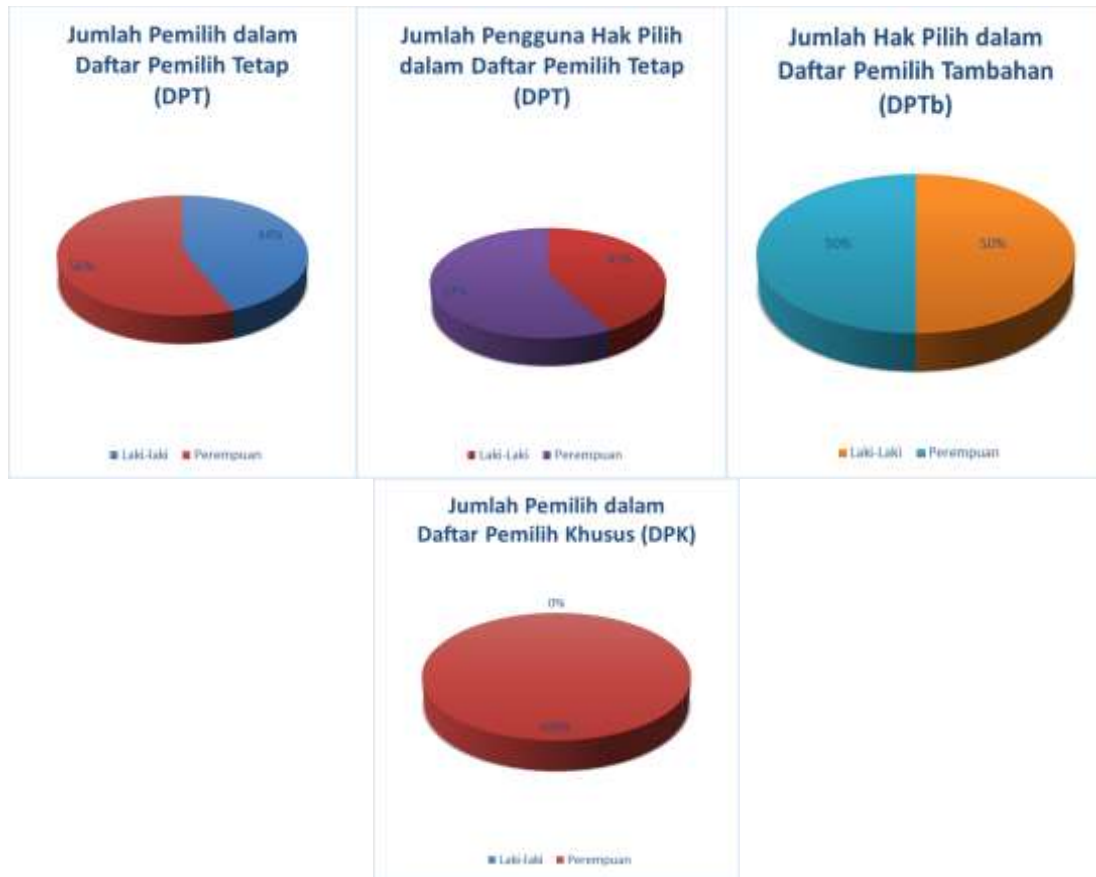


**Figure 6. Evaluation of the Calculation and Recapitulation of SIREKAP Votes by the Serang City KPU, PPK and PPS to KPPS Members in Panancangan Village, Serang City, Banten**

As seen in Figure 6, after all stages were completed, the Serang City KPU conducted a comprehensive evaluation of the entire process, from the PPK, PPS and TPS levels in Panancangan Village, Serang City. This evaluation includes data accuracy, technical constraints on the SIREKAP application, implementation of procedures, and incidents that may require improvement in the next election. The evaluation report will be used to improve SIREKAP, as well as strengthen procedures for the next election. (Suryasuciramdhan, et al., 2024).

The calculation result data that has been inputted in the SIREKAP application is verified with the uploaded C-KWK form photo. The technical team or PPK and PPS officers will match the inputted data with photo evidence to ensure conformity. If there is a difference between the digital data in SIREKAP and the manual data in the form, the manual data will be the main reference for correction. In some cases, if there is a significant difference or strong objection, a recount can be carried out. This recount is carried out openly with the presence of witnesses, Panwaslu, and representatives from political parties.

Through evaluation, the KPU can ensure whether the counting and recapitulation have been carried out transparently according to standards. The KPU can implement a better monitoring system or add additional verification mechanisms, so that each stage of the vote recapitulation runs openly and can be accounted for. The KPU can plan a more mature strategy to adopt new technology, prepare the KPPS comprehensively, and adapt to the dynamics and needs of future elections.



**Figure 7. Permanent Voter List (DPT) TPS 04 Pancangan Village, Serang City**

Referring to Figure 7, shows the number of permanent voter lists (DPT), additional voter lists (DPTb), special voter lists (DPK) and voters in the permanent voter list (DPT) at TPS 04 Panancangan Village. Based on the results of the vote recapitulation at TPS 04 Panancangan, the total number of men and women was 223 votes obtained that the KPPS Members of TPS 04, the number of C-KWK Results will be inputted with the results of the vote count for President and Vice President, DPR RI, DPD RI, Provincial DPRD and Regency/City DPRD through the SIREKAP application.

The community service activities carried out have achieved the expected goals, namely increasing trust in TPS 04 Panancangan Village through the implementation of the SIREKAP application. The choice of using Sirekap as one of the means in calculating the 2024 Election is a policy of the KPU as the Election organizer in realizing a quality Election and integrity. This election policy is almost the same as the election counting mechanism in 2024. The implementation of the SIREKAP application by the KPU in the election brings a number of

positive impacts and challenges that affect various aspects of the election implementation, from the speed of vote recapitulation to the transparency of the results. Overall, SIREKAP has a positive impact in accelerating, increasing efficiency, and strengthening transparency in the election process in Indonesia. However, the effectiveness of this application also depends on the readiness of the infrastructure and training for KPPS officers. Continuous evaluation and improvement in technical aspects and training will be very important to maximize the benefits of SIREKAP in the future, while ensuring that every election result can be trusted and accepted by the wider community.

## **CONCLUSIONS AND RECOMMENDATIONS**

The community service activities carried out have achieved the expected goals, where increased trust in TPS 04 Panancangan Village through the application of the SIREKAP application. The choice of using Sirekap as one of the means in calculating the 2024 Election is a policy of the KPU as the election organizer in realizing elections with quality and integrity. This election policy is almost the same part as the election counting mechanism in 2024. The implementation of the SIREKAP application by the KPU in the election brings a number of positive impacts and challenges that affect various aspects of the election implementation, from the speed of vote recapitulation to the transparency of the results. Overall, SIREKAP has accelerated vote counting, improved efficiency, and strengthened transparency in Indonesia's electoral process. However, the effectiveness of this application also depends on the readiness of infrastructure and training for KPPS officers. Continuous evaluation and improvement on technical aspects as well as training will be crucial to maximize the benefits of SIREKAP in the future, while ensuring that every election result can be trusted and accepted by the wider community.

## **ACKNOWLEDGMENT**

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