

The E-Policing System in Enhancing Law Enforcement Operations at San Juan Police Station, La Union

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Abstract

The use of digital technology in police work has modernized law enforcement and made services much more accurate and effective. In this study The E-Policing System In Enhancing Law Enforcement Operations shows an important role in enhancing the capability of police services through digital technologies. By using these digital tools, law enforcement agencies can improve their overall skills and better serve their communities.

Every digital entry made in systems like CIDMS or the E-Warrant database creates a permanent record that cannot be erased. This makes the process transparent and protects the police from claims that files were lost or evidence was changed. By making sure every case is tracked and followed up, the station can build and keep the public's trust in the Philippine National Police (PNP). The main goal of this research is to see how well the E-Policing System is being used at the San Juan Police Station in La Union and if it is actually working. Specifically, the study looks at how digital tools like the E-Blotter, CIDMS, and E-Warrant have changed traditional police work.

Keywords: E-Policing, E-Warrant, E-Blotter, E-Subpoena, E-Rogue, Case Information and Data Management System (CIDMS)

INTRODUCTION

In the Philippines, specifically in Bataan, the e-policing project system has greatly enhanced the efficiency of the police service. One key component is the e-Blotter or CIRAS, which streamlines incident reporting and improves crime analysis for Bataan police. This system allows officers to efficiently record and track incidents, leading to better management of crime data. Additionally, the Case Information Data Management System (CIDMS) centralizes case data, making it easier to manage and analyze. CIDMS also supports better case tracking and coordination among law enforcement units. The use of e-subpoena has accelerated investigations by reducing delays and costs associated with handling physical documents. The e-Rogues Gallery in Bataan provides quick access to criminal backgrounds, while the e-Warrant system enables real-time access to warrants, improving criminal apprehension. These e-policing project systems play an important role in strengthening law enforcement in Bataan (Jurado & Quinto, 2023).

The implementation of the E-Policing Project System has undergone significant evolution, with technology and data integration becoming vital in improving law enforcement efficiency and effectiveness. Police departments now collect data from a variety of sources, including crime reports, surveillance footage, and social media platforms. As technology continues to advance, e-policing systems

are being adapted to meet the evolving needs of law enforcement, making them more adaptable, resourceful, and better equipped to address challenges in modern policing. This global trend highlights the growing importance of data-driven policing in ensuring safer communities worldwide (Global Resourcing, 2024).

According to Pimloc (2024), the integration of advanced technology into law enforcement has transformed policing practices, making them more dynamic, efficient, and accountable. Law enforcement agencies now leverage technology to streamline administrative tasks such as reporting, records management, and case tracking, allowing officers to spend more time on the front lines rather than being bogged down by paperwork. The adoption of e-policing systems has also enhanced evidence collection and documentation, speeding up responses to criminal activities and reducing the potential for human error. Additionally, these technologies have facilitated better communication and collaboration between law enforcement agencies, ensuring that information is shared more effectively across jurisdictions. E-policing systems also support the professional development of officers by providing access to continuous training and promoting transparency through community engagement and feedback, further strengthening the relationship between law enforcement and the public.

Statement of the Problem

This study aims to determine the level of implementation and effectiveness of the E-Policing system at San Juan Police Station in La Union. Specifically sought to answer the following questions:

1. What is the level of implementation of E-Policing System along the following aspects?

- A. E-Blotter
- B. Case Information and Data Management System (CIDMS)
- C. E-Subpoena
- D. E-Rouge
- E. E-Warrant

2. What is the level of Effectiveness of E-Policing System in Enhancing Law Enforcement Task along the following dimensions?

- A. E-Blotter
- B. Case Information and Data Management System (CIDMS)
- C. E-Subpoena
- D. E-Rouge
- E. E-Warrant

3. Is there a significant difference between the level of implementation and level of effectiveness of E-Policing System?

4. What action plan can be proposed to improve the level of implementation and level of effectiveness of E-Policing System?

METHODOLOGY

The study employs a quantitative descriptive design to assess implementation and effectiveness levels, while integrating qualitative methods to identify strengths and areas for improvement. The research was conducted at the San Juan, La Union Police Station. The respondents consisted of 15 personnel: 10 police officers (PNP) and 5 non-uniformed personnel (NUP) who are authorized and trained to use the system. A survey questionnaire was the primary tool, featuring a five-point Likert scale. The Weighted Mean was

used to interpret the results for both implementation and effectiveness levels.

RESULTS AND DISCUSSIONS

This part represents the analysis and interpretation of the data gathered from the PNP Personnel and NUP Personnel of the San Juan Police Station. This study focused on the level of implementation and effectiveness of the E-Policing System in the following aspects: E-Blotter/CIRAS, CIDMS, E Subpoena, E-Rouge Gallery, and the E-Warrant System.

Table 2. The Level of implementation of E-Policing System focus on Blotter/CIRAS at San Juan Police Station in San Juan, La Union.

INDICATOR	PNP n=10	NUP n=5	W/M	DER
1. How well does the system capture and record crime incidents, complaints, and activities?	4.00	4.00	4.00	HI
2. How effective is the immediate input and updating of reports for faster processing?	4.00	4.00	4.00	HI
3. How well does the system track a case from the initial investigation to final resolution?	4.00	3.60	3.87	HI
4. How accessible are incident reports across different police stations/units?	4.00	4.00	4.00	HI
5. How quick and easy is it to find past or ongoing case files for reference?	4.00	4.00	4.00	HI
OVERALL WEIGHTED MEAN			3.97	HI

Legend :

PNP = Philippine National Police

NUP = Non- Uniformed Personnel

W/M = Weighted Mean

DER = Descriptive Equivalent

HI = Highly Implemented

Table 3. The Level of implementation of E-Policing System focus on Case Information and Data Management System (CIDMS) at San Juan Police Station in San Juan, La Union.

INDICATOR	PNP n=10	NUP n=5	W/M	DER
1. How easy is it to store and find all case information in one digital location?	4.00	3.60	3.87	HI
2. How secure is the system, and is access properly limited to authorized staff?	4.00	4.00	4.00	HI
3. How well does the system record case numbers, parties involved, and court updates?	4.00	3.60	3.87	HI
4. How effective is the system at storing photos, videos, and digital documents?	4.00	4.00	4.00	HI
5. How well does the system monitor who handles evidence to ensure it's ready for court?	4.00	3.80	3.93	HI
OVERALL WEIGHTED MEAN			3.93	HI

Table 4 presents the Level of implementation of E-Policing System

Table 4. The Level of Implementation of E-Policing System focus on E-Subpoena at San Juan Police Station in San Juan, La Union.

INDICATOR	PNP n=10	NUP n=5	W/M	DER
1. How easy is it to create consistent and accurate subpoenas using the digital system?	4.00	3.80	3.93	HI
2. How effective is the system at sending subpoenas securely to officers, witnesses, or suspects?	4.00	4.00	4.00	HI
3. How well does the system track if a subpoena was opened and acknowledged by the recipient?	4.00	4.00	4.00	HI
4. How organized and accessible are the records of all issued subpoenas?	4.00	4.00	4.00	HI
5. How effectively does the system monitor who actually shows up in court?	4.00	4.00	4.00	HI
OVERALL WEIGHTED MEAN			3.98	HI

Table 5. The Level of implementation of E-Policing System focus on E-Rouge Gallery at San Juan Police Station in San Juan, La Union.

INDICATOR	PNP n=10	NUP n=5	W/M	DER
1. Maintains detailed profiles of wanted persons including photos, aliases physical description and criminal records.	4.00	4.00	4.00	HI
2. Stores data in a centralized system accessible to authorized law enforcement personnel.	4.00	4.00	4.00	HI
3. Uses uploaded photos to match individuals against data base entries.	4.00	4.00	4.00	HI
4. Incorporate fingerprints, facial verification or other biometrics for more precise identification.	4.00	3.60	3.87	HI
5. Links profiles with related cases, incident reports and warrants.	4.00	3.80	3.93	HI
OVERALL WEIGHTED MEAN			3.96	HI

Table 6. The Level of implementation of E-Policing System focus on E Warrant System at San Juan Police Station in San Juan, La Union.

INDICATOR	PNP n=10	NUP n=5	W/M	DER
1. Stores active and served warrants in a centralized, secure database.	4.00	4.00	4.00	HI
2. Reflects the latest status of each warrants, whether issued, served or cancelled.	4.00	4.00	4.00	HI
3. Tracks the progress of warrants from issuance to service, ensuring transparency.	4.00	4.00	4.00	HI
4. Sends automated alerts to law enforcement personnel about new or pending warrants.	4.00	4.00	4.00	HI
5. Shares warrant information securely among law enforcement agencies for collaborative execution.	4.00	4.00	4.00	HI
OVERALL WEIGHTED MEAN			4.00	HI

Legend :

Table 7. Summary of Level of Implementation of E-Policing Project System in the San Juan Police Station

E-Policing System	W/M	DER
1. E-Blotter/CIRAS	3.97	HI
2. CIDMS	3.93	HI
3. E-Subpoena	3.98	HI
4. E-Rouge Gallery	3.96	HI
5. E-Warrant System	4.00	HI
OVERALL WEIGHTED MEAN	3.97	HI

Table 8. The Level of effectiveness of E-Policing System focus on E Blotter/CIRAS at San Juan Police Station in San Juan, La Union.

INDICATOR	PNP n=10	NUP n=5	W/M	DER
1. Stores active and served warrants in a centralized, secure database.	4.00	4.00	4.00	HE
2. Reflects the latest status of each warrants, whether issued, served or cancelled.	4.00	4.00	4.00	HE
3. Tracks the progress of warrants from issuance to service, ensuring transparency.	4.00	4.00	4.00	HE
4. Sends automated alerts to law enforcement personnel about new or pending warrants.	4.00	4.00	4.00	HE
5. Shares warrant information securely among law enforcement agencies for collaborative execution.	4.00	4.00	4.00	HE
OVERALL WEIGHTED MEAN			4.00	HE

Table 9. The Level of effectiveness of E-Policing System focus on CIDMS at San Juan Police Station in San Juan, La Union.

INDICATOR	PNP n=10	NUP n=5	W/M	DER
1. Automate processes to reduce administrative inefficiencies, workload and	4.00	4.00	4.00	HE
2. Reduce human errors through automated data validation and secure digital records.	4.00	4.00	4.00	HE
3. Enhance collaboration between law enforcement and judicial entities to expedite case handling.	4.00	4.00	4.00	HE
4. Keep a detailed record of all actions taken on a case to ensure everything is clear, traceable, and follows legal rules.	4.00	4.00	4.00	HE
5. Ensure all entities involved in a case have access to the latest updates and documents.	4.00	4.00	4.00	HE
OVERALL WEIGHTED MEAN			4.00	HE

Table 10. The Level of effectiveness of E-Policing System focus on E Subpoena at San Juan Police Station in San Juan, La Union.

INDICATOR	PNP n=10	NUP n=5	W/M	DER
1. Enhance efficiency in subpoena management.	4.00	4.00	4.00	HE
2. Provide police officers with tools to manage and track subpoenas related to their cases.	4.00	4.00	4.00	HE
3. Facilitate better scheduling of officers' court appearances to avoid conflicts.	4.00	4.00	4.00	HE
4. Ensure all parties involved are aware of their obligations and deadlines.	4.00	4.00	4.00	HE
5. Minimize procedural delays in judicial operations caused by errors or non-compliance.	4.00	4.00	4.00	HE
OVERALL WEIGHTED MEAN			4.00	HE

Table 11. The Level of effectiveness of E-Policing System focus on E-Rouge at San Juan Police Station in San Juan, La Union.

INDICATOR	PNP n=10	NUP n=5	W/M	DER
1. Support quick and accurate identification during investigations or field operations.	4.00	4.00	4.00	HE
2. Strengthen crime prevention by providing law enforcement with tools to track and monitor high-risk individuals.	4.00	4.00	4.00	HE
3. Streamline the process of storing and retrieving suspect profiles.	4.00	4.00	4.00	HE
4. Enable information sharing across police stations and other law enforcement agencies.	4.00	4.00	4.00	HE
5. Facilitate coordinated actions in cases involving inter-jurisdictional offenders.	4.00	4.00	4.00	HE
OVERALL WEIGHTED MEAN			4.00	HE

Table 12. The Level of effectiveness of E-Policing System focus on E-Warrant at San Juan Police Station in San Juan, La Union.

INDICATOR	PNP n=10	NUP n=5	W/M	DER
1. Improve efficiency in warrant processing.	4.00	4.00	4.00	HE
2. Enhance transparency and accountability through proper documentation and status updates.	4.00	4.00	4.00	HE
3. Ensure quicker apprehension of suspects through real-time access to warrant information.	4.00	4.00	4.00	HE
4. Improve coordination among agencies for serving inter-jurisdictional warrants.	4.00	4.00	4.00	HE
5. Minimize the risk of wrongful arrests through accurate identity verification.	4.00	4.00	4.00	HE
OVERALL WEIGHTED MEAN			4.00	HE

Table 13. Summary of Level of Effectiveness of E-Policing Project System in the San Juan Police Station

E-Policing System	W/M	DER
1. E-Blotter/CIRAS	4.00	HE
2. CIDMS	4.00	HE
3. E-Subpoena	4.00	HE
4. E-Rouge Gallery	4.00	HE
5. E-Warrant System	4.00	HE
OVERALL WEIGHTED MEAN	4.00	HE

Conclusions and Recommendations

Conclusions

The conclusions and recommendations of the study are presented in a way that aligns with the research questions discussed in the preceding chapter. The following conclusions were drawn based on the findings of the study.

1. The E-Policing System at the San Juan Police Station plays an important role in improving operational processes, which they can respond on time, faster and easily organized police records and supports the timely services.
2. The E-Policing System at the San Juan Police Station is an effective system to improve law enforcement activities through better handling of cases and easy processing of digital services.
3. The E-Policing System at the San Juan Police Station contributes to improved and streamlined operations and data management; though, technical issues caused by unstable or poor internet connectivity is a challenge in this system.

Recommendations

Based on the findings and conclusions of this study, the following recommendations are made to further enhance the success and effectiveness of the E-Policing System:

1. Fix the internet and keep the systems running smoothly. Install backup generators so the police can still use their digital tools even when the power goes out. Upgrade infrastructure and technical support by addressing internet connectivity issues, minimizing system downtime, and installing backup power solutions like generators to ensure uninterrupted access to E-Policing tools during power interruptions.
2. Teach all staff and officers how to use the system correctly. Hold regular classes so everyone knows how to get the most out of the technology. Conduct regular training and capacity building activities for both uniformed and non-uniformed personnel to fully optimize system functions and encourage proper utilization of all components.
3. Make the system work on phones and tablets. This helps officers stay connected and get information while they are out on patrol or away from their desks. Deploy mobile compatible versions or remote-access solutions for better accessibility during field operations, especially for units on patrol or on special assignments.
4. Always look for ways to make the system faster and better. Updating the technology will help the police serve the people of San Juan more effectively. Consider adopting proposed enhancements to further improve the efficiency, accuracy, and responsiveness of the E-Policing System, ensuring better law enforcement services for the citizens of San Juan, La Union.

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