



Evidence Management Center

Revolutionising Evidence Management with Next-Gen Evidence Management System

Presented By:
Milind Bharambe, Commissioner of Police, Navi Mumbai

Introduction

The Evidence Management Centre (EMC) faced by law enforcement agencies in managing evidence captured during Panchanama, Crime Scenes, Raids etc.) is a Technology-oriented comprehensive solution designed to address the various challenges etc.

Leveraging digital technology, EMC ensures a seamless chain of custody, reducing errors and improving case resolution timelines

Present Process

1



MANUUAL DOCUMENTATION

2



LIMITED LIABILITY

3



TRANSPORTATION CHALLENGES

4



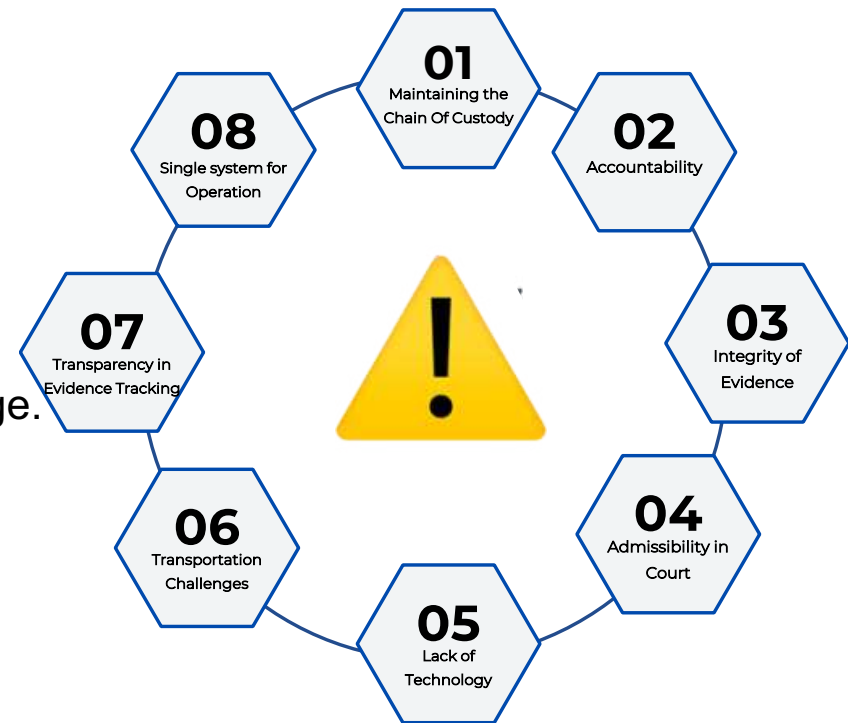
STORAGE ISSUES

Limitations of the manual system:

- **Manual documentation:** Handwritten logs leading to potential errors and difficulties in tracking evidence movements.
- **Limited accountability:** Lack of clear audit trails resulting in disputes and legal challenges.
- **Transportation challenges:** Uncomfortable transit for officers, risking damage or loss of evidence.
- **Storage issues:** Inadequate facilities and space, potential degradation of evidence integrity.

Present Challenges in Evidence Management

- Maintaining and Proving the Chain of Custody of Evidence
- Inadequate and limited storage space
- Accountability of the Custodian of the evidence
- Tampered Integrity of Evidence during change of custody
- Challenges during Admissibility in Court
- Lack of Technology Support to prove state during each stage.
- Challenges during transportation & preservation of biological/perishable evidence
- Challenges of transparency in evidence tracking
- Lack of a single system for operation



Solution – Evidence Management Center (EMC)

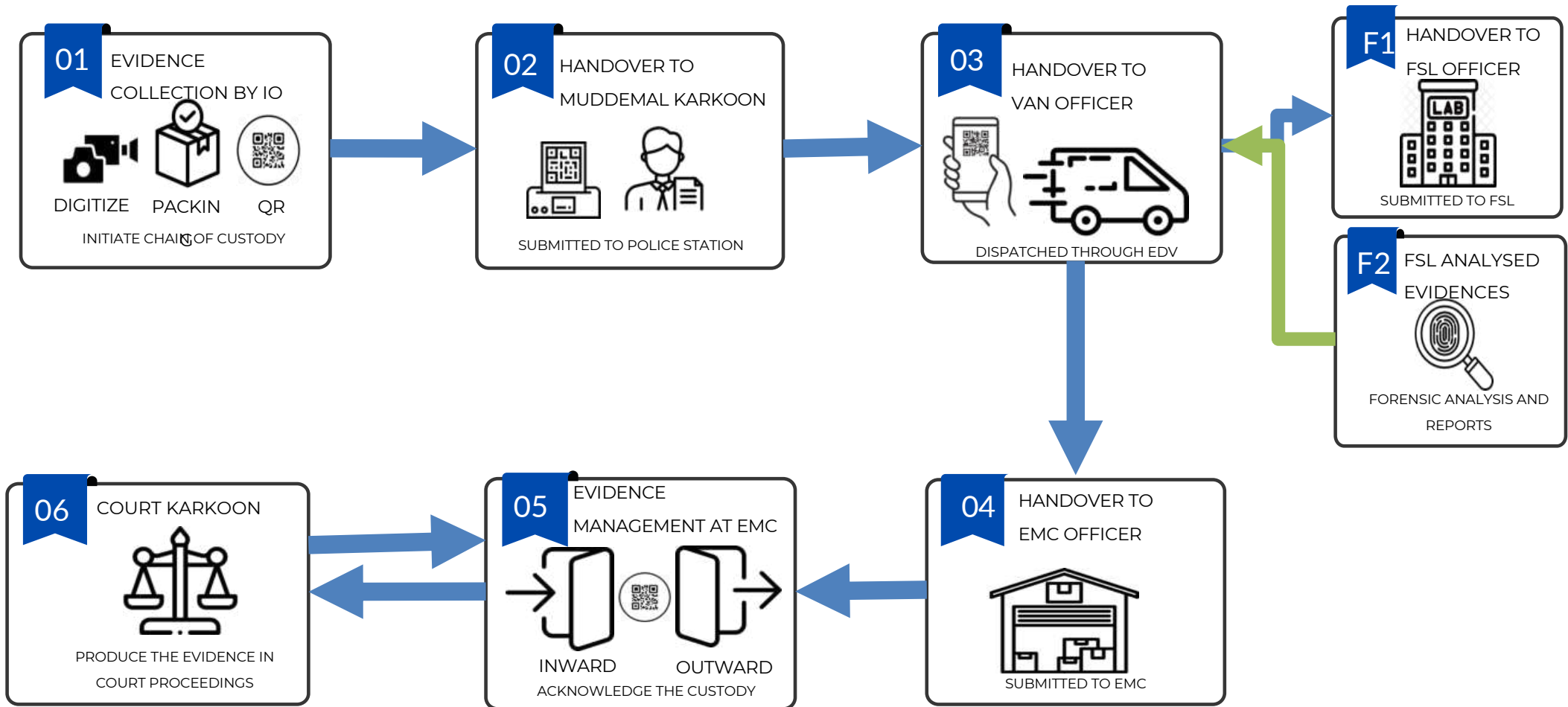
The EMC (Evidence Management Center) aims to streamline the entire process of evidence handling, from collection to storage, tracking, and eventual disposal.

Leveraging technology enhances efficiency, accuracy, and security in evidence management, ultimately leading to improved outcomes in investigations and legal proceedings to achieve faster and better conviction.

Components of EMC:

1. Evidence Collection & Management System Application (PRAMAN)
2. Evidence Dispatch Van (EDV)
3. Evidence Management Centre (EMC)

Evidence Management Center - System Process Flow



PRAMAN – Evidence Management Center Software Application

- ✓ **Digital Repository:** Evidence capturing in centralised digital repository and online information access.
- ✓ **QR Code:** Unique identification tag for each evidence tracking and monitoring
- ✓ **Real-time Tracking:** Monitor evidence location in real time.
- ✓ **Automated Chain of Custody:** Ensure seamless and accurate chain of custody management.
- ✓ **Enhanced Security:** Utilize QR code integration for improved accountability and tracking.
- ✓ **Evidence Disposal:** Adhere to legal directives with compliant disposal processes.



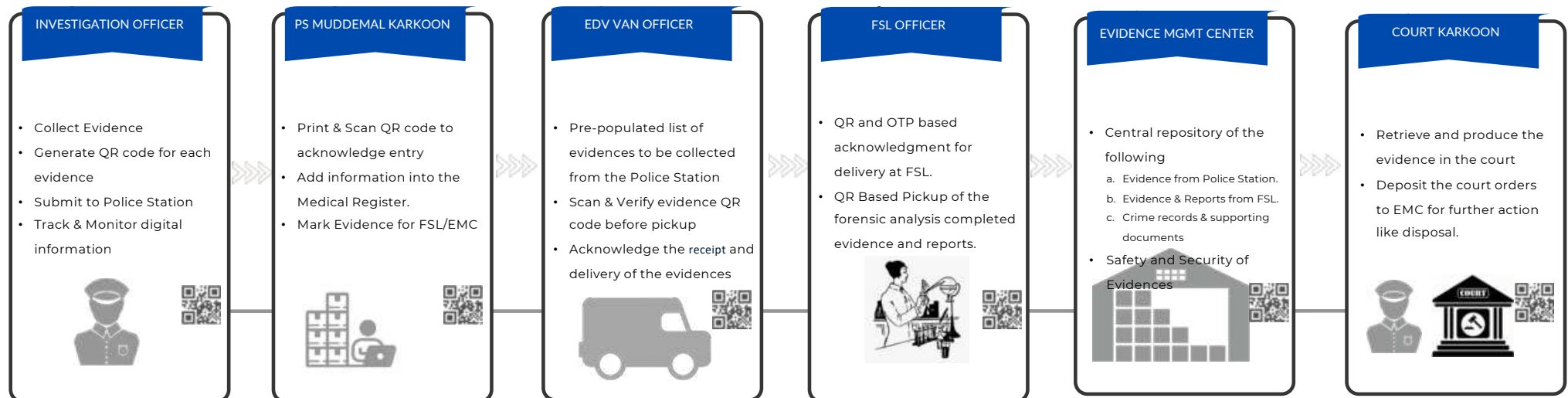
PRAMAN – Maintaining Digital Chain of Custody



Ensuring secure chain of custody during the process of evidence handling



Tracking and monitoring the handling of evidence from one officer to another



EDV- Evidence Dispatch Van

Specially designed EDV for transportation of evidence to Forensic Labs, Evidence Management Center, Court etc.

EDV is equipped with secure storage compartments, climate control, and GPS tracking. These vans ensure the safe and secure transportation of evidence, minimizing the risk of damage, loss, or tampering during transit.

Systematic and routine collection and delivery of evidence to a predefined location (forensic labs/EMC/Court) will help to optimize manpower as compared to traditional decentralized collection/delivery methods.

Minimum requirements specification

- ✓ SUV/MUV Class vehicle
- ✓ 2 Motion sensor CCTV Cameras
- ✓ Refrigerator system
- ✓ Vehicle Logbook
- ✓ Air Conditioning system
- ✓ Portable Rack system
- ✓ Multi utility storage boxes
- ✓ GPS system



EDV- Evidence Dispatch Van



EMC- Evidence Management Center

EMC provides a comprehensive solution to the challenges of evidence management, addressing documentation, transportation, storage, and tracking needs in a unified platform.

EMC with specialised facilities with enhanced security measures provides adequate storage space for various types of evidence, ensuring its integrity and security while clearing up the space in police stations.

Highlights of EMC:

- ✓ Digitizing evidence collection processes and leveraging QR code tracking,
- ✓ EMC enhances the accuracy and reliability of evidence documentation, reducing errors and discrepancies.
- ✓ EMC helps to maintain a secure chain of custody through clear audit trails and digital records.
- ✓ Each piece of evidence is tracked and documented,
- ✓ Ensuring enhanced accountability and admissibility in court.
- ✓ Centralized storage facilities minimize the risks associated with evidence mishandling, including damage, loss, or tampering.
- ✓ EMC ensures the enhanced integrity and security of evidence throughout its lifecycle.
- ✓ Technology assisted for faster turnaround times and optimised resource utilization.
- ✓ Dedicated Storage Areas for Evidence, Crime Records (Case papers) and Documents & Applications
- ✓ Ingress and Egress of each evidence/document are recorded at EMC with PRAMAN

EMC- Evidence Management Center

Minimum requirement for EMC:

Minimum area required 5000 sqft per EMC (Considering 1000 sqft for 1000 crimes registered per annum)

It's recommended that the Proposed EMC land should be owned by the Police Department

Minimum 1 EDV Vehicle is essential per EMC

Minimum 1 Officer and 4 Staff are required per EMC

Separate dedicated rooms for:

- Evidence,
- Crime Records,
- Valuable Evidence (Locker),
- Applications,
- Staff and Incharge
- loading/unloading bay
- Pairavi Room

Minimum proposed height of structure should be 14 feet

The base foundation of flooring should be 2.5 ft. higher than the ground level.



Evidence Management Center
PANVEL



Evidence Management
Center

NRI

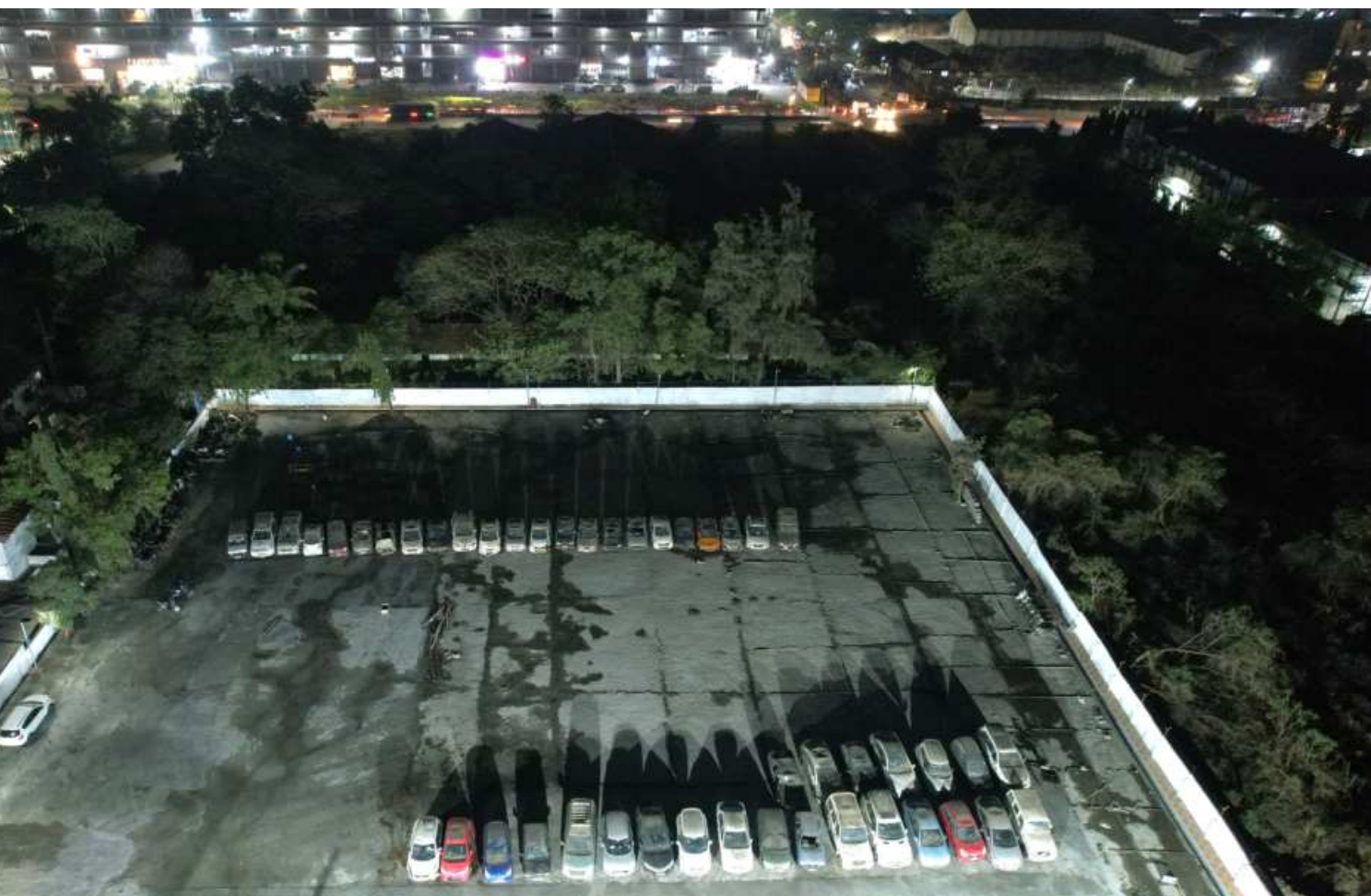


EMC
Inside View



EMC

Inside View



Evidence Management. Center (Outdoor)

TALOJA

Project Implementation locations - Proposed

Sr. No.	Unit Name	EMC
1	NAGPUR (COMMISSIONARATE)	2
2	PUNE (COMMISSIONARATE)	2
3	THANE (COMMISSIONARATE)	2
4	AURANGABAD (COMMISSIONARATE)	1
5	PIMPRI CHINCHWAD (COMMISSIONARATE)	1
6	NASIK (COMMISSIONARATE)	1
7	MIRA BHAYENDAR COMMISSIONARATE	1
8	AMRAVATI (COMMISSIONARATE)	1
9	SOLAPUR (COMMISSIONARATE)	1

Conclusion

- ✓ The EMC will enhance law enforcement agencies' efficiency, security, and accuracy of evidence handling.
- ✓ EMC will transform traditional evidence management into a secure, efficient, and transparent digital process.
- ✓ By integrating advanced technologies, it significantly enhances law enforcement's ability to manage and track evidence to ensure an increased conviction ratio.

Thank
You

