



THESIS

PRESENTATION

Topic:

**STUDY DIFFERENT INVENTORY
MANAGEMENT MODULES IN CENTRAL
DVDMS AND EVALUATE THEIR
EFFECTIVENESS IN MANAGEMENT OF STOCK.**

Presented by: Anubhav Barik



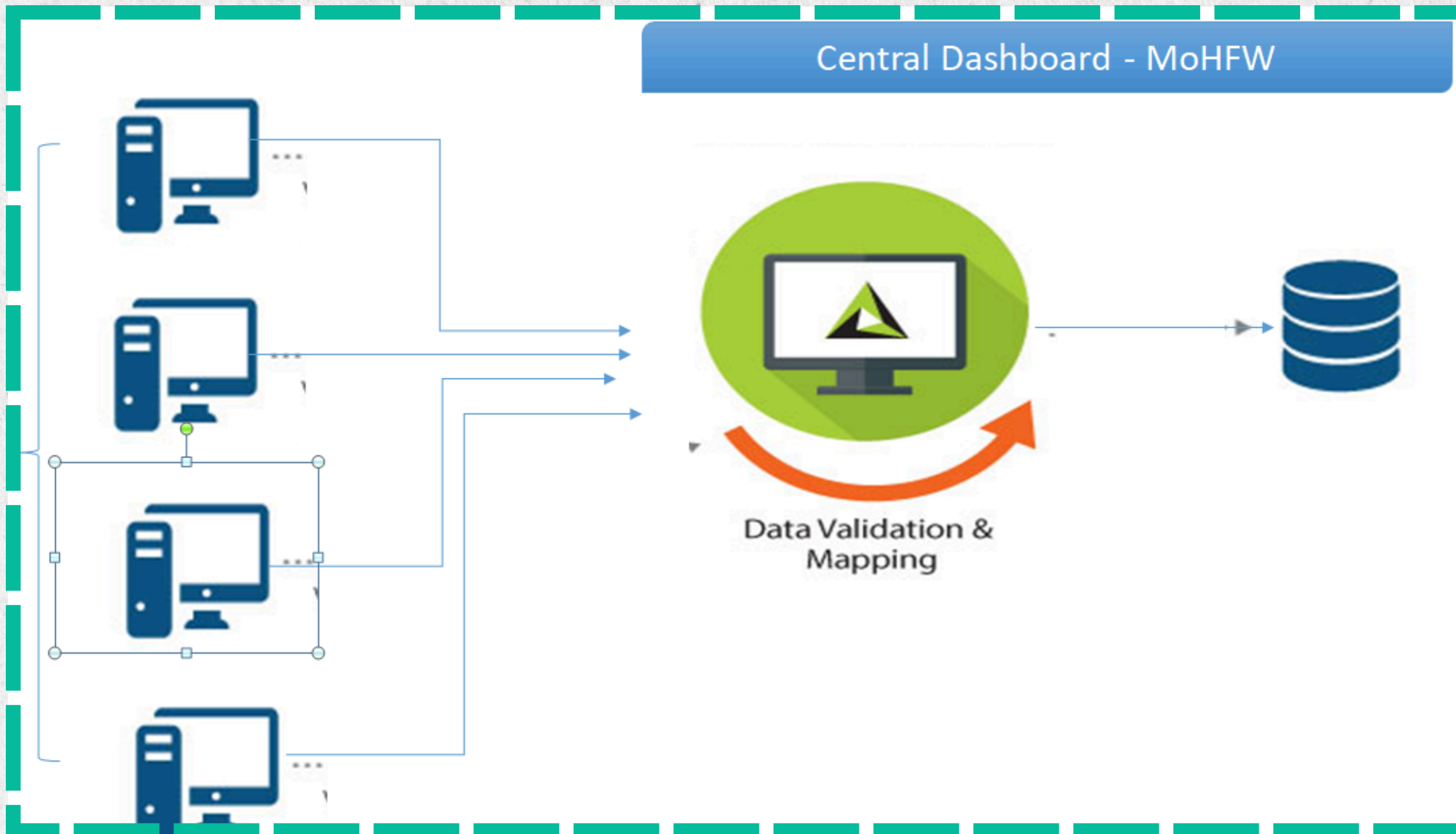


INTRODUCTION

The Drugs and Vaccine Distribution Management System (DVDMS) central dashboard acts as the central nervous system for managing India's medication supply. This real-time data platform empowers authorized users with a comprehensive view of the entire drug supply chain. Functioning like a sophisticated inventory management system, it tracks everything from purchase orders to current stock levels across warehouses. However, the DVDMS central dashboard goes beyond simple stock control. By analyzing past data and trends, it predicts medicine needs in different regions, preventing critical shortages. Additionally, it acts as a virtual marketplace, comparing prices from drug suppliers all over India to secure the best deals for the government. Perhaps most crucially, the dashboard tracks medication movement throughout the supply chain, identifying potential bottlenecks and enabling swift corrective actions. This combination of functionalities empowers authorized users to proactively manage potential shortages, optimize resource allocation, and ultimately ensure the people of India have access to the essential medications they need, when they need them.



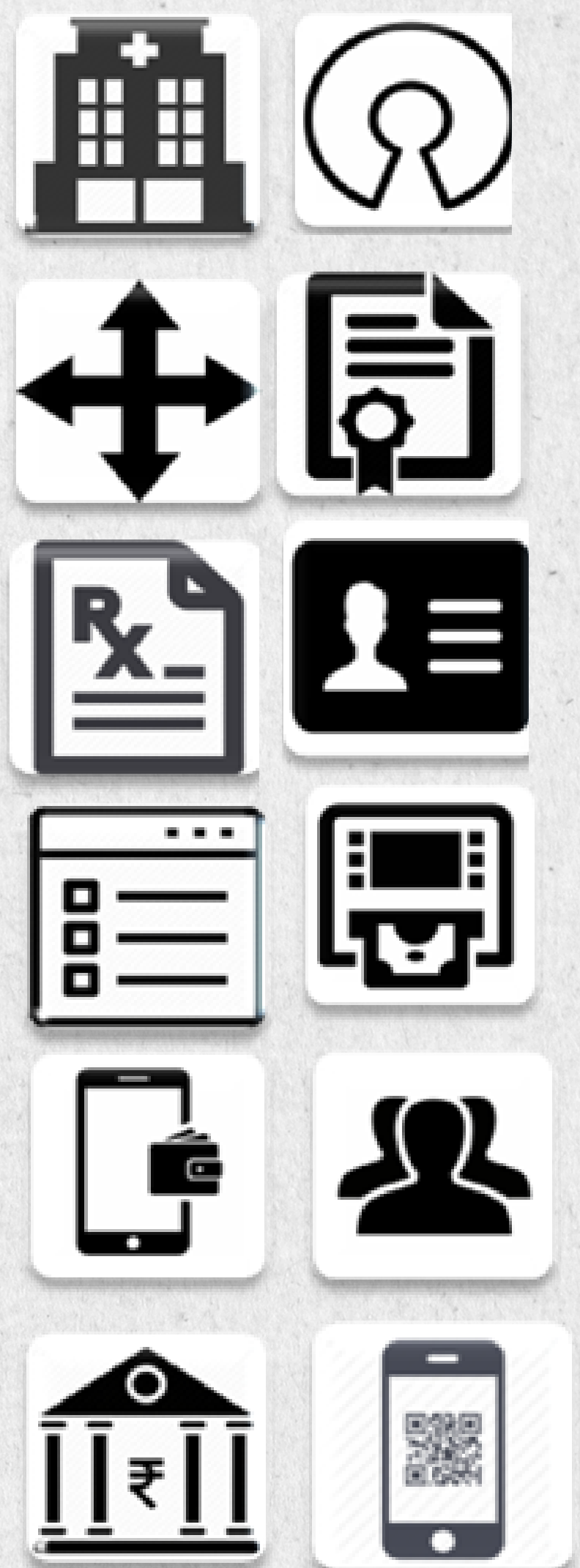
HOW IT WORKS



- Master data information related to Drugs and Manufactures are being entered into **DVDMS** application at state level. All are compiled and mapped in Central Dashboard Application and presented to **MoHFW**

KEY FEATURES

- Streamlined Supply Chain Management.
- Collaborative & Accessible Supply Chain System.
- Adaptable Supply Chain Implementation.
- Meets Regulatory Requirements for Healthcare.
- Real-Time Supply Chain Data & Analytics.
- Unified System for Drug Distribution & Health Information.
- User-Friendly Interface for Streamlined Workflow.
- Real-Time Communication with Labs and Suppliers.
- Secure and Convenient Payment Processing.
- User Management for Secure and Efficient Operations.
- BAR /QR code, ORS Aadhaar, SMS & Email, Mobile Apps.
- Automatic Purchase Orders based on Real-Time Needs.



INVENTORY MANAGEMENT MODULES IN DVDMS CENTRAL DASHBOARD

Inventory Management Module:

Provides real-time visibility into stock levels, expiry dates, and location of medical supplies. Enables efficient inventory tracking and forecasting.

Supplier Management Module

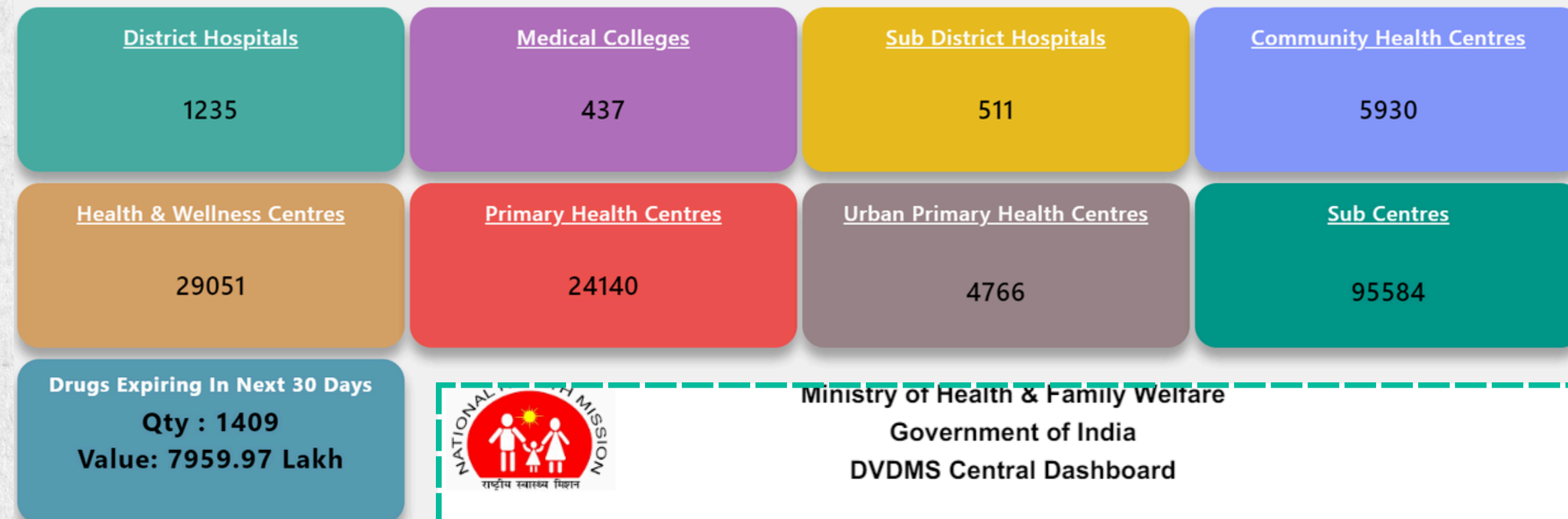
Manages supplier relationships, including communication, contract management, and performance tracking.

Ordering Module

Facilitates automated ordering of medical supplies based on pre-set thresholds, reducing manual effort and potential errors.

Analytics Module

Provides insights into inventory trends, usage patterns, and cost optimization opportunities, enabling data-driven decision-making.



CATEGORIES

1. DISTRICT HOSPITAL(DH)
2. MEDICAL COLLAGES
3. SUB DISTRICT HOSPITALS(SDH)
4. COMMUNITY HEALTH CENTRES(CHC)
5. HEALTH & WELLNESS CENTRES(HWC)
6. PRIMARY HEALTH CENTRES (PHC)
7. URBAN PRIMARY HEALTH CENTRES(UPHC)
8. SUB HEALTH CENTRES/SUB CENTRES(SHC)

- It also consist of the quantity of drugs that are about to expire within 30 days and the value for the same

 Ministry of Health & Family Welfare Government of India DVDMS Central Dashboard	
State/UT Wise No. Of District Hospitals Using Drugs Supply Chain Management System	
State	District Hospitals
Andhra Pradesh	109
Arunachal Pradesh	22
Assam	29
Bihar	35
Chandigarh	60
Chhattisgarh	26
Gujarat	24
Haryana	27
Jharkhand	21
Karnataka	190

OBJECTIVE

- Identify and describe the successes and challenges in centralized procurement and distribution.
- Evaluate the accuracy and reliability of inventory tracking and monitoring.
- Assess the effectiveness of demand forecasting and planning in diverse healthcare settings.
- Understand the impact of DVDMS modules on healthcare delivery and stakeholder engagement.
- Provide recommendations for improving DVDMS's inventory management capabilities.

METHODOLOGY

Research Design:

This research aims to analyze the effectiveness of various inventory management modules within the Drugs and Vaccine Distribution Management System (**DVDMS**) for stock control in India. Due to potential limitations in accessing the DVDMS directly, this study will employ quantitative techniques.

Data Collection Techniques:

- Publicly Available Documents : Data for this section will be collected from various publicly available documents released by the government for public information and knowledge dissemination.
- Collected Articles: Scholarly articles and reports relevant to the research will be collected through a two-pronged approach:
 1. Academic Databases: Search engines like **PubMed** and **Google Scholar** will be used to identify relevant academic publications on drug supply chain management, inventory management systems, and similar centralized control dashboards in other countries. This will provide a broader theoretical foundation for the research.
 2. Government Websites: Websites of the Ministry of Health and Family Welfare (**MoHFW**), Central Drugs Standard Control Organization (**CDSCO**), and potentially the DVDMS central dashboard (if publicly accessible sections exist) will be explored. This will help identify reports, press releases, or official documents mentioning functionalities of the DVDMS inventory management modules.

CONCLUSION AND KEY TAKEAWAYS

Streamlined Operations

Effective inventory management streamlines healthcare operations, improving efficiency and ensuring that patients receive the necessary care.



Patient Safety

Maintaining appropriate stock levels and ensuring timely access to essential medical supplies enhances patient safety and outcomes.

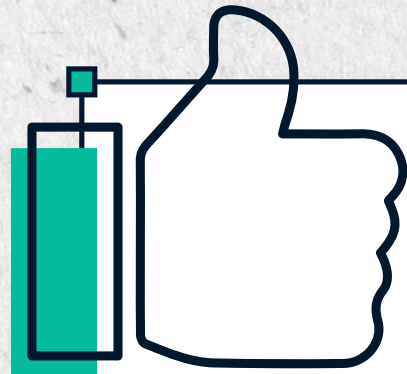
Cost Optimization

By reducing waste and optimizing inventory levels, healthcare facilities can achieve significant cost savings.



Enhanced Care

Effective inventory management supports the delivery of high-quality healthcare, improving patient satisfaction and overall healthcare outcomes.



THANK
YOU

for your attention

