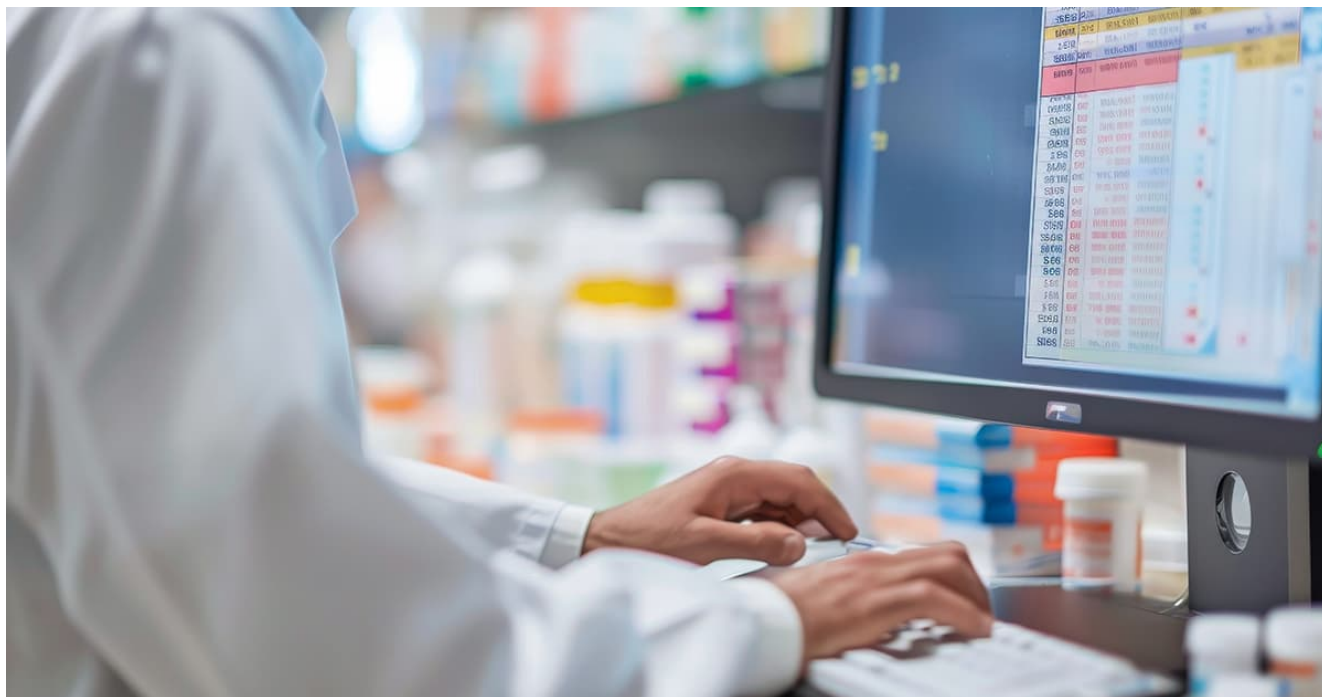


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# Strengthening Africa's Health Backbone: The Role of Drug Supply Management Systems

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In a world where nearly 2 billion people lack access to essential medicines (WHO), the inefficiencies in drug supply chains have become a silent global crisis. According to the World Health Organization, substandard and falsified drugs account for up to 10% of medical products in low- and middle-income countries, causing thousands of preventable deaths annually. The COVID-19 pandemic further revealed the fragility of global drug supply chains, where even the most developed nations faced shortages. In Africa, where public health systems already operate under resource constraints, a robust **Drug Supply Management System (DSMS)** isn't just critical—it's urgent.



## Why Drug Supply Management Matters in Africa

From rural clinics in Malawi to national referral hospitals in Kenya, the need for a seamless, transparent, and accountable system for managing medicine flow has become a cornerstone

of healthcare delivery. Yet, issues such as stockouts, expired drugs, counterfeit medicine infiltration, and poor logistics continue to challenge the continent.

A modern DSMS provides a centralized digital platform to manage the entire lifecycle of drug supply, from procurement and inventory tracking to distribution and consumption analytics. It replaces outdated paper-based systems, introduces real-time visibility, and ensures life-saving medications reach the right hands at the right time.

## Case in Point: Digitization Drives Impact

Several African nations are already making headway. Zambia's Medical Stores Limited (MSL) adopted an electronic logistics management system that improved drug delivery timelines by 50%. Ethiopia's Pharmaceutical Supply Agency (EPSA) also digitized its supply chain, increasing order fulfillment rates and reducing wastage.

When digital drug supply management systems are implemented effectively, they:

- Reduce stockouts and overstocking
- Minimize expiration-related losses
- Improve procurement planning
- Prevent theft and leakage
- Increase trust in public health services



## CSM Tech's Perspective: Bridging Gaps with Technology

CSM Tech has identified critical pain points in public health procurement in our African engagements. Whether misaligned supply-demand data or a lack of coordination between stakeholders, the absence of digital intelligence has often been the root cause.

Our e-health Supply Chain Platforms are designed with contextual relevance, integrating GIS tracking, AI-based forecasting, and stakeholder dashboards to ensure a transparent and responsive drug supply ecosystem. We believe in building systems that digitize and democratize healthcare delivery.

CSM Tech's drug distribution and supply chain management system, named e-Niramaya, automates medicine procurement, distribution, and quality control. It is implemented in OSMCL and integrated with the Odisha e-Hospital Management Information System (OeHMIS) and the Drugs and Vaccine Distribution Management System (DVDMS).

## Looking Ahead: A Digital Lifeline for Africa

With the African Union's Agenda 2063 envisioning universal health coverage and resilient health systems, investing in modern Drug Supply Management Systems is no longer optional—it's foundational. The future of Africa's health depends on our ability to build reliable systems that ensure no medicine goes missing and no life is lost due to logistical failures.

By embracing smart, scalable digital solutions, Africa can transform its drug supply chains into lifelines—bridging access gaps and delivering health equity across the continent.



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