



# Supply Chain Visibility and Control Through Cloud Computing Platform in Africa

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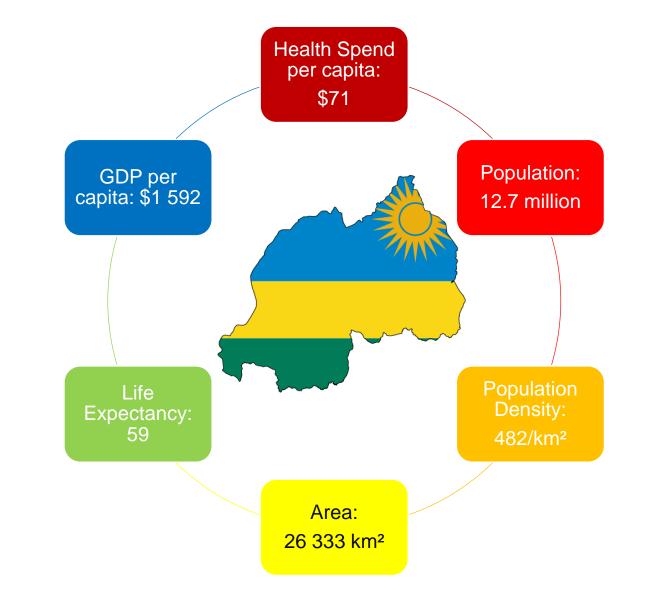
The Republic of Rwanda's Ministry of Health (MOH) was searching for a way to better manage the end-to-end fulfilment and delivery of medical supplies throughout the country.

### **Solution Context**

For the MOH, making accurate and timely delivery of critical pharmaceuticals to its people was challenging and labour intensive.

This was exacerbated by the fact that the fulfilment system was largely paper-based and filled with manual processes.

MOH knew that to overcome these challenges, their new fulfilment system needed to be cloud-based, easy to implement and deploy, and flexible enough to overcome the challenges of operating within a developing country.



### Opportunities for Improvement

#### **High Level of Effort**

- Intensive Manual, Paper Record
- Long and Delayed Order Processing Period
- Higher Inventory Operating Costs

#### **Lack of Visibility**

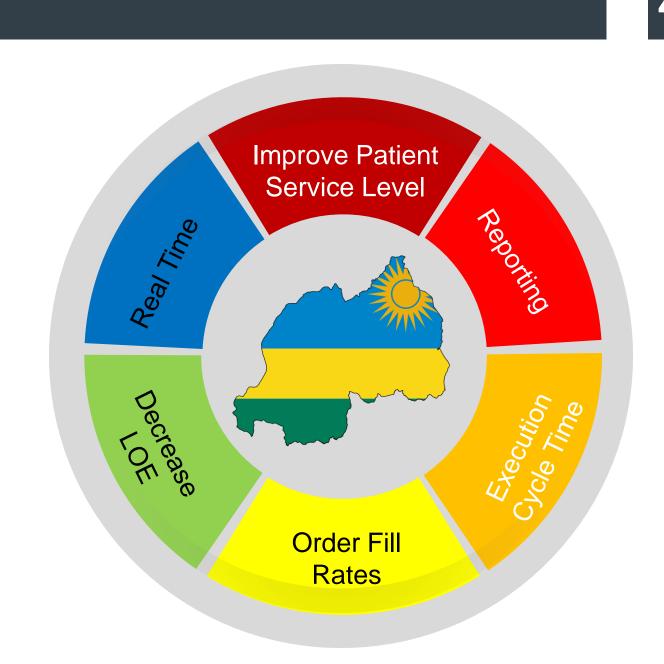
- Low Reporting Rates
- Lack of Capability to Track Items

#### **Not Real-Time**

- Lack of Ability to Project Stockouts
- Lack of Information On Consumed Items and Expiries
- Inability to Track or Measure Performance Indicators
- Lack of Real Time Supply and Demand Planning Data
- Disparate Systems

### 3. Objectives

Design, build, and implementation of a computerized logistics management information system (eLMIS) that will provide health commodity logistics data and order processing functionalities

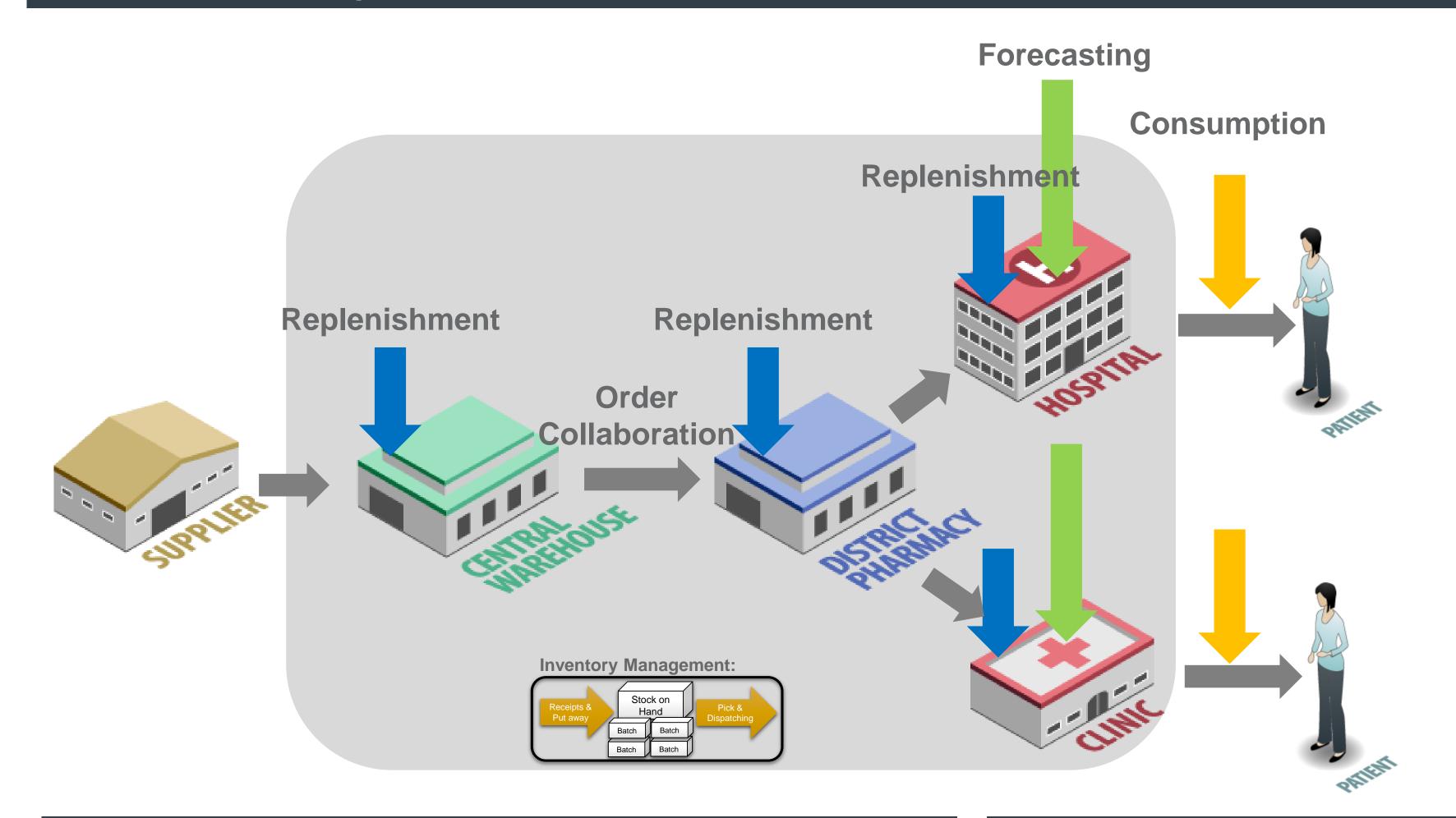


### 4. Challenges

- Power
- Connectivity
- Language

### Data Interfaces

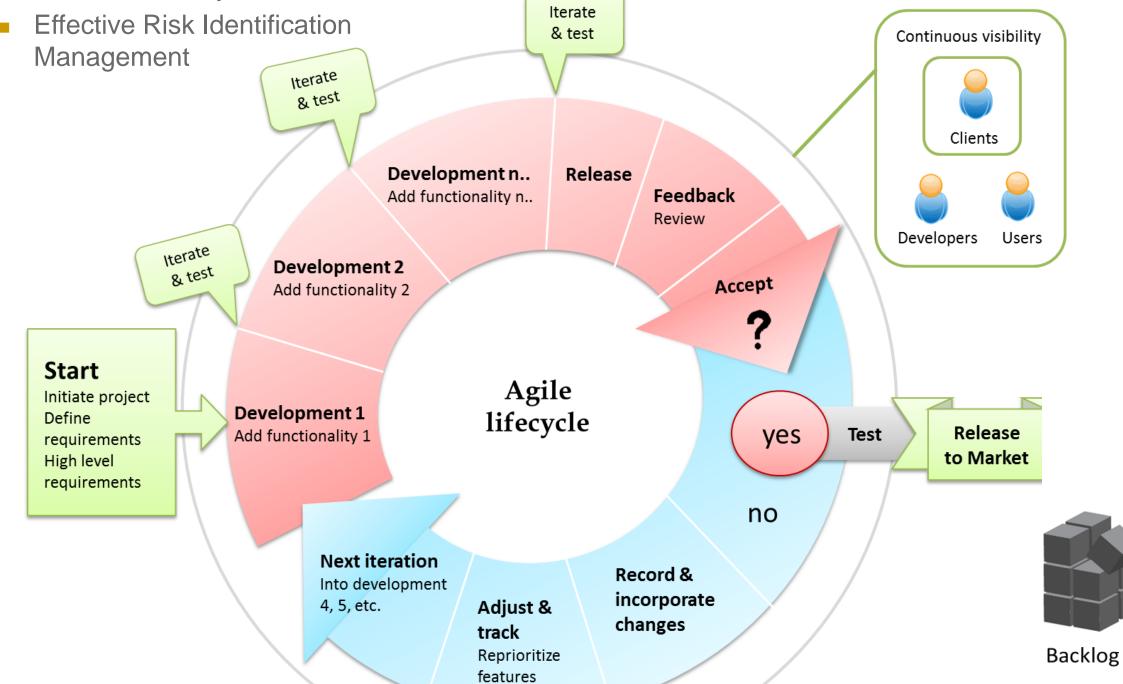
### 5. Functional Scope



### Execution

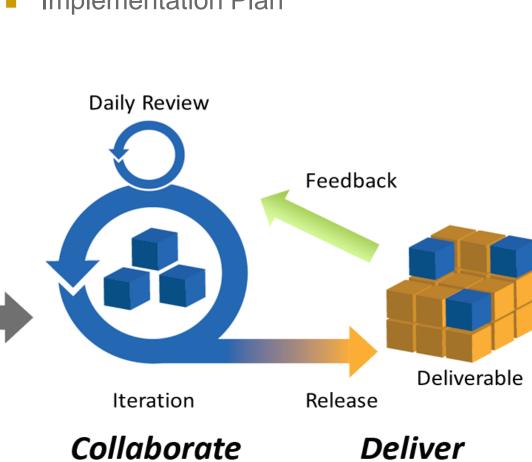
#### **Critical Success Factors:**

- GOR Leadership/Commitment
- Early Champion Identification
- USAID/GF Partnership
- Stakeholder Buy-In
- Effective Risk Identification



#### **Documentation:**

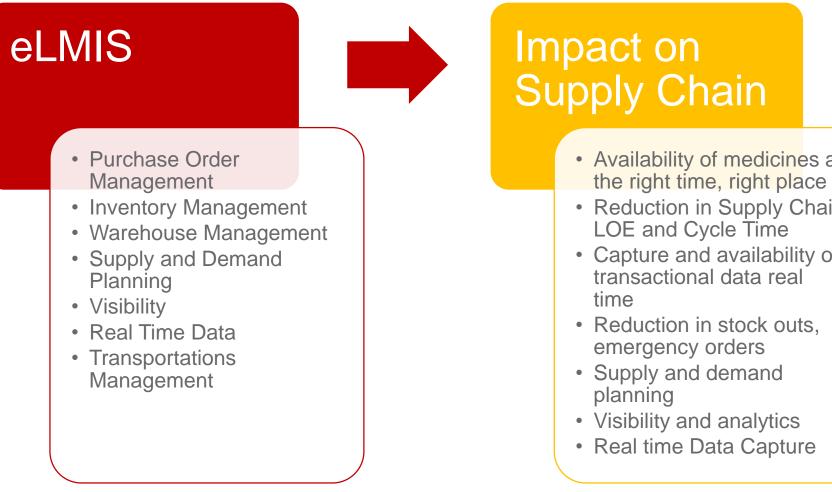
- Project Charter
- Project Management Plan
- Project Work Breakdown Structure
- Budget and Financial Plans
- Communication Plan
- Risk Management Plan
- Readiness Assessment Plan
- Change Management Plan
- Training Plan
- Testing Plan
- Implementation Plan



### 7. eLIMS Critical Functions

#### **Logistics Management Office** Analytics, Key Performance Indicators, Supply and Demand Planning Value Chain Visibility and Management Interoperability Distribution, Patient Data Consumption Consumption PATIENT CARE Distribution Evaluation **Decision Support** Supply and Demand Stockouts, Expiries, Consumption Analysis Replenishment Warehouse Transport Management Management, Inventory Managemer Capacity Management Purchase Order Batch/Lot Management Management **District Pharmacists and** tral Warehouse **Health Facilities**

### 8. Results



- Availability of medicines at
- Reduction in Supply Chain LOE and Cycle Time
  - Capture and availability of transactional data real
  - emergency orders Supply and demand
  - Visibility and analytics Real time Data Capture

#### Impact on Beneficiaries

- Government of Rwanda
  - Patients
- Donor Partners
- Users

### Ministry of Health

# 9. Impact

- Automated processes with real-time visibility and availability
- Significantly reduced carrying costs, LOE and Cycle Time

Plan

- Real time data availability and tracking items to last mile
- Availability of consumption data, facility min/max, days of supply and reorder levels
- Scalable and interoperable system
- Capability to perform supply and demand planning, project stock outs, run replenishment engines
- Capture actual daily consumption; track and manage expiries
- Track and measure all key performance indicators

USAID FROM THE AMERICAN PEOPLE

## 10. Stakeholders

REPUBLIC OF RWANDA









