

### **HIV SUPPLY CHAIN MANAGEMENT**

### **Experience During The Covid-19 Pandemic**

#### **MALAWI'S EXPERIENCE**

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15th June 2020















Part I: Context and Supply Chain Process

Part II: COVID-19 Impact on HIV Supply Chain

Part III: Adaptation and Future Opportunities

### **2020 Malawi Program Supply Chain Context**

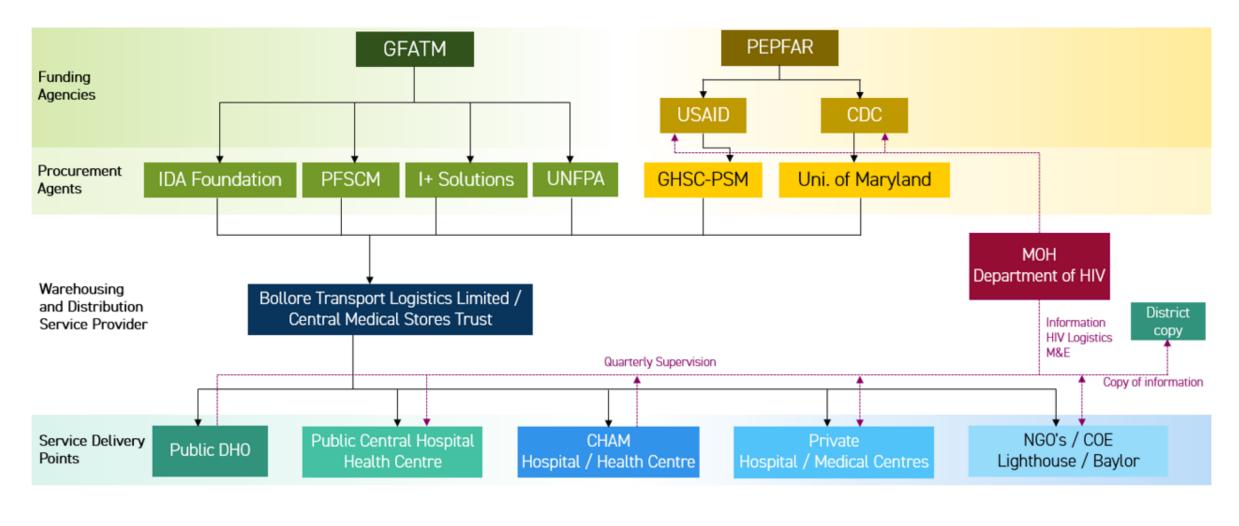




- Over 837,000 clients on ART as at end of December, 2019
- Over 4 million tests conducted annually
- Annual commodity budget of USD 120million (GF/PEPFAR)
- Key policies adopted in April 2019 include;
  - ✓ Annual Viral load testing
  - ✓ 6 multi-months scripting/dispensing
  - ✓ Phase out of NNRTI based regimens starting with Nevirapine
  - ✓ Scale up of TB preventive Therapy to all patients on ART
  - ✓ Scale up of Advanced HIV Disease (AHD)

### **HIV Commodities Supply Chain Flow Map**







### I-TECHTA Support to HIV Program



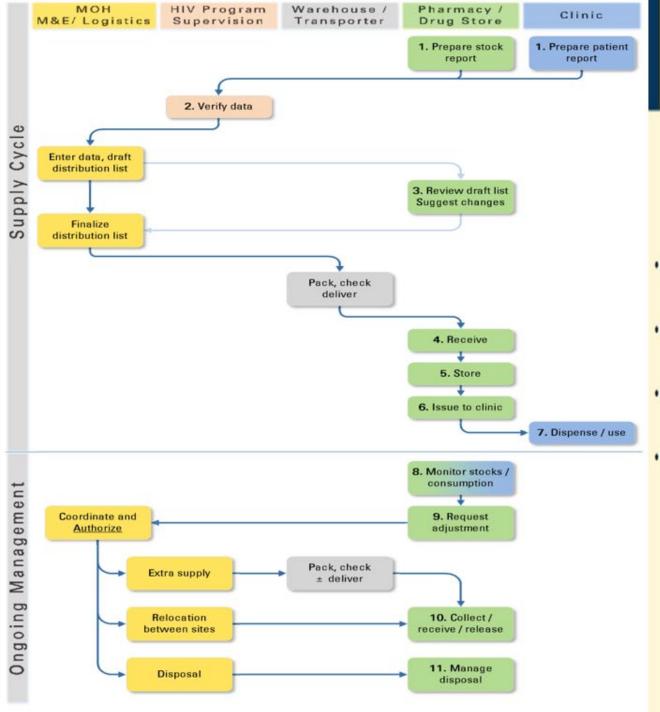
- Development of National Strategic Plans, Policies and Guidelines
- Resource mobilization
  - √ The Global Fund;
  - **✓ PEPFAR**
  - ✓ Other Donors-World Bank and Bill & Mellinda Gates Foundation
- Management of core functions of the supply chain
  - √ Procurement;
  - √ Warehousing;
  - ✓ Distribution, and;
  - ✓ Capacity Building
- Management support for the toll free line
- Supervision, mentorship and coaching for health facility personnel.

### **Dedicated Supply Chain Management Team**



- Toll free supply hotline
- Quarterly site supervision:
  - ✓ QA, data audit
  - ✓ Physical stock count
- DHA- Management Information System
  - ✓ Data visibility
  - ✓ Service data ( Patient data)
  - √ Stock data (Logistics data)
  - ✓ Registration and authorization of all stock transactions at site level
  - ✓ Data driven quantification rules for health facility distribution lists
  - Circulation for feedback (Implementing partner, District and Health Facility Staff)
  - ✓ Bar-coded delivery notes

>99% uninterrupted supplies at all 750 sites



# Real-time Distribution Tracking through Link Mobile-June 2020

- · Real time tracking of shipments
- · Status of health facility deliveries
- · Proof of deliveries
- Last mile visibility



## Impact of COVID 19 on HIV Supply Chain

12 months

covery

ne

	Anti-Retroviral Therapy (ART)	Viral load monitoring	Data for decision making
sruption	<ul> <li>Transition from NVP         based regimens for         pediatric patients due to         production constraints for         LPV/r based formulations</li> <li>Transition from ATV/r to         DTG based regimens</li> </ul>	<ul> <li>Delays in air freight shipments affecting laboratory service delivery especially viral load monitoring</li> <li>Back log of Viral load samples (&gt;100,000 samples)</li> <li>Long Turn Around Times</li> </ul>	<ul> <li>Delayed report transmission for Apr 2020 reports (ART Cohort and stock report data)</li> </ul>
pact	<ul> <li>Stock outs experienced at selected sites</li> </ul>	<ul> <li>Delayed transition from Protease Inhibitor based regimens</li> </ul>	Stock Imbalances for ARVs

6 months

• 6 months

## Adaptation of the Supply Chain



## **RISKS**

facilities

Air freight based constraints

Production related challenges

**MITIGATION STRATEGIES** 

Health Facility congestion Long Dispensing intervals for patients on DTG based regimens -6MMS

Stock outs due to Multi months Redistribution of stocks between health facilities scripting

Frequent deliveries (especially to high volume sites) -Inadequate storage space at health Monthly deliveries

Some shipments have been switched to ocean freight except cold chain and dry ice shipments (Chartered a consolidated flight for laboratory commodities in May 2020)

Adequate procurement planning (All orders for 2020 have been confirmed with respective vendors

### **Opportunities for Supply Chain Improvements**



- Increased government investments is need for sustainability
- Fast track Integration road map
- Scale up of e-LMIS/EMR implementation
- Improved supply chain HR Capacity
- Scale up of Supply chain emergency response system
- Decentralization of technical oversight to District Pharmacy personnel
- Scale up of Quality monitoring /Quality improvement initiatives
- Institutionalization of Pharmacovigilance
- Create room for innovations (Drone academy pilot in Malawi at Daeyang Luke University)

## Key Take Home PSM Messages





- Data is the heart of a successful supply chain (Improved visibility)
- Supply Chains need to be responsive and resilient
- Long term planning minimizes service interruptions (Ocean Vs Air Freight)-Improved efficiency
- Minimum buffer stocks need to be attained before implementing new policies





