



REPÚBLICA DE MOÇAMBIQUE

MINISTÉRIO DA SAÚDE

Central de Medicamentos e Artigos Médicos

2018 Global Health Supply Chain Summit

Lusaka, Zambia



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SIGLUS

SIGLUS: A Collaborative Success Story



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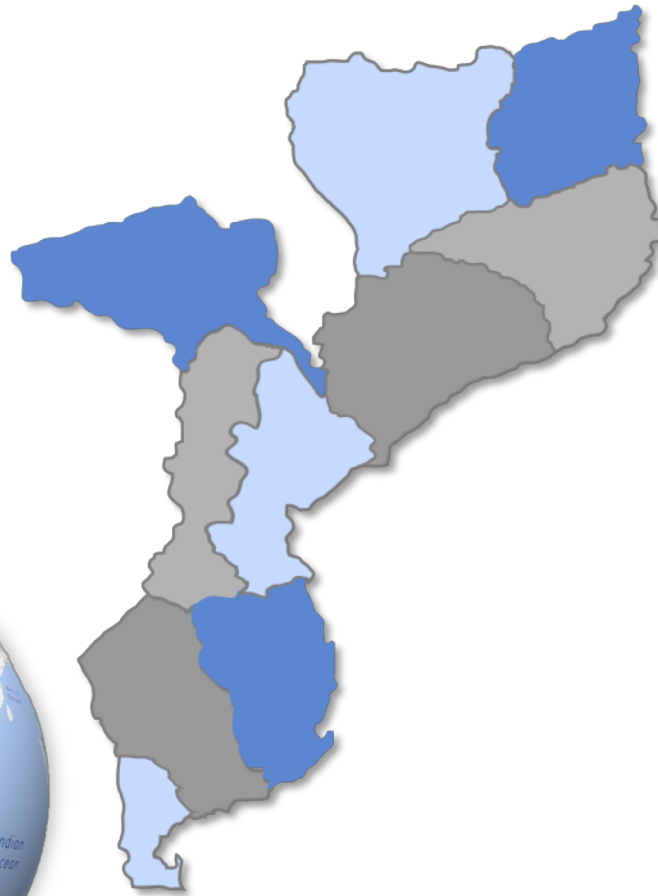
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Contextualization



- Located in Southern Africa
- Total pop of **29,668,834**
- 11 provinces
- 154 districts
- 7.6 Doctors and 29 nurses per 100,000 people

- HIV prevalence of 13.2%

- 1,596 health facilities

- 96% of health facilities are of Level 1: mainly supplied with standard essential medicines kits (39 key products to cover up to 1.000 consultations)



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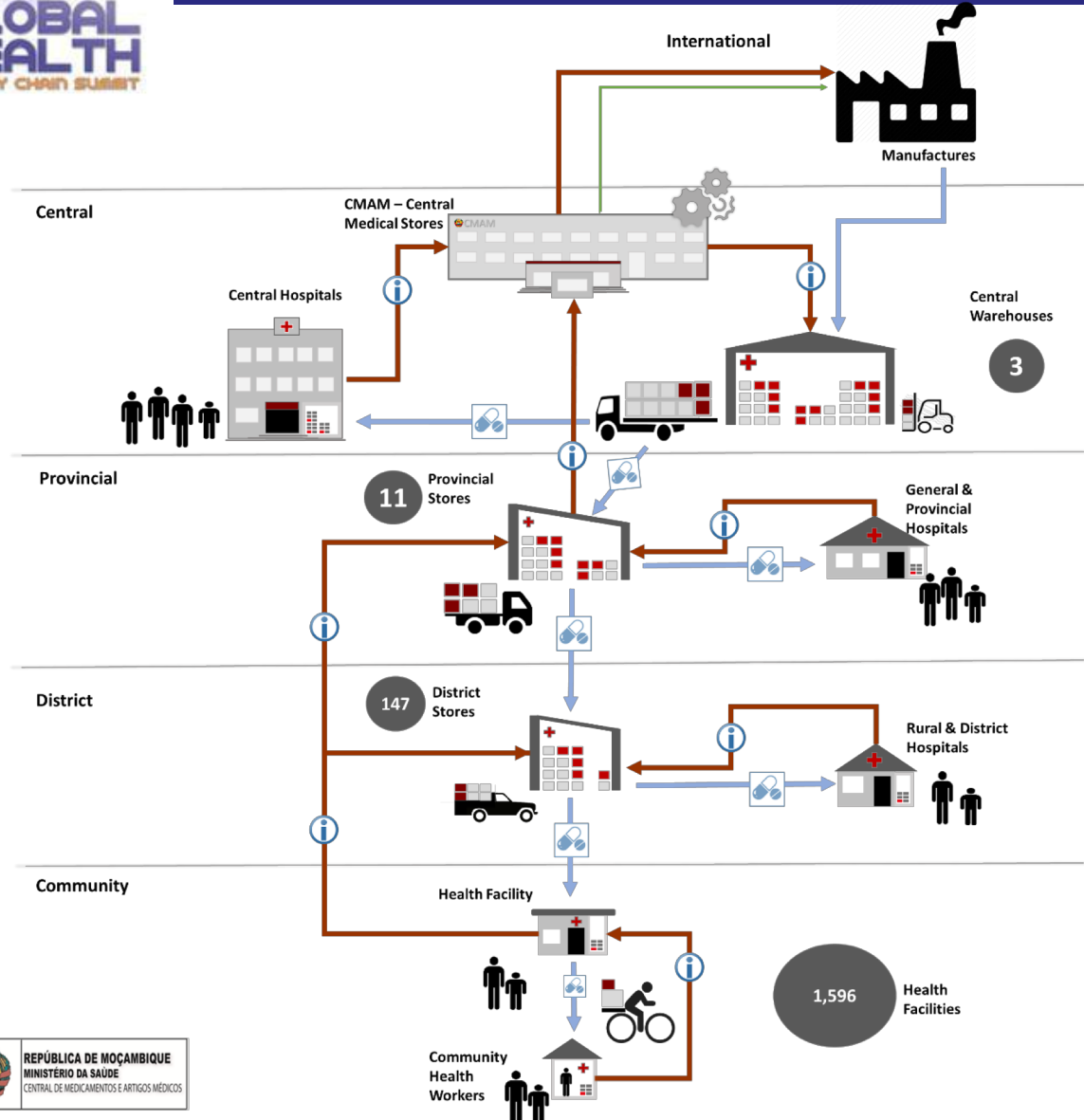
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MOZ Supply Chain



- Supply Chain Structured in 4 levels; plus the community
- Central-level Central Medical Stores & 3 regional warehouses
- 11 provincial warehouses
- 147 district warehouses
- 1,596 health facilities
- 4,427 community health workers



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SIGLUS

- **SIGLUS** is a cloud-based Logistics Management Information System for **Health Facilities**, used to report stock data using tablets.
- Captures data on: :
 - Stock on hand
 - Quantities requested
 - Quantities issued
 - Quantities received
 - Stock Adjustments
 - Patients by regimen for ARVs
- Health Facilities use SIGLUS also to generate and send monthly or quarterly requisition.



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SIGLUS mobile app

Mobile app

- Online/offline
- Transactional workflows (not plain reporting tool)
- Automated calculations for requisition process
- Alerts for low stock levels, overstocking, understocking and upcoming expiries
- Product batch Management
- Requisitions to supply warehouse
- User interface mimics paper forms familiar to healthcare workers to reduce training burden
- All Essential Products including
 - Anti Malaria drugs, Anti-retroviral , Contraceptives, Rapid Diagnostic Tests, Antibiotics, Essential Medicines, Key Medical Articles



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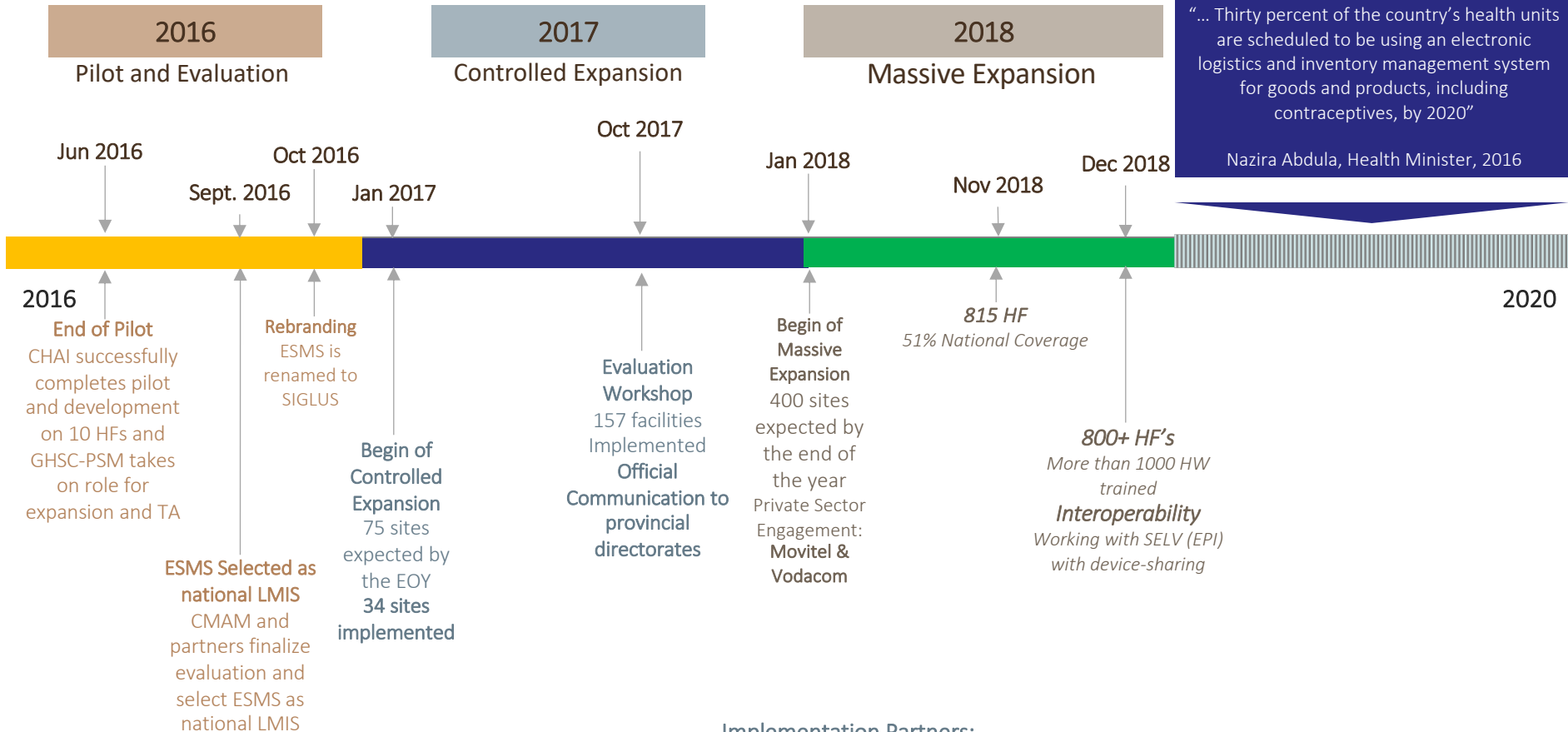


SIGLUS Timeline

END GOAL:

“... Thirty percent of the country’s health units are scheduled to be using an electronic logistics and inventory management system for goods and products, including contraceptives, by 2020”

Nazira Abdula, Health Minister, 2016



Implementation Partners:

CMAM, CHAI, PSM, UNFPA, VillageReach, EGPAF, CCS, Ariel, FHI-CHASS, FGH, ICAP, MSF



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How did we do it?

Implementation Strategy

- **Leadership**
 - The Central Medical Store openly evaluated all systems based on a set of criteria.
 - All other system being implemented were requested to stop their pilots and support the national system;
- **Phased Expansion:**
 - 1. Controlled expansion**
 - Stabilize the solution
 - Expand the system to different environments
 - Anticipated new features to be included on the system
 - Promoting the use of data for decision making
 - 2. Massive scale-up**
 - Involvement of all partners in the expansion, trainings and monitoring
 - Strong leadership of province Directorate



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How did we do it?

Implementation Partner Support

The partners are supporting the CMS/ MoH financially and/or technically based on 5 categories below:

#	Category	Activity	Description
1	Software	Development and maintenance	<ul style="list-style-type: none"> • DB and app Hosting; • Development of new functionalities and reports; • Corrective, preventive, adaptive and evolutionary maintenance; • Integration with other existing information systems in the chain
2	Hardware, voice and data	Procurement and Equipment Management	<ul style="list-style-type: none"> • Tablet • Solar painel • Signal repeater • Internet
3	Training Support	ToT, Provincial trainings and OJT	<ul style="list-style-type: none"> • Training room • Training materials • Air tickets
4	Supervision and continuous support	User support and monitoring	<ul style="list-style-type: none"> • Helpdesk L1 • HF Supervisions
5	Decision-making	Analysis, interpretation and use of data for decision making	<ul style="list-style-type: none"> • Support the CMS and /or provinces on use of data for decision making



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How did we do it?

Private Sector Engagement

- Growing engagement with the Private sector to ensure sustainability:
 - Lower operational costs (Voice and Data);
 - Lower costs for the equipment (Tablets, solar panels, etc.);
 - Joint management of electronic equipment;
 - Lower costs for the protection (software) of the tablets (GoKiosk®).
- In the near future, growing engagement with local companies:
 - Development of new features;
 - Capacity building of a community of programmers within country (or regionally).



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What Comes Next?

- Synchronization with the national health data central warehouse (Ferramenta Central);
- Integration and interoperability with other related LMIS and HIS systems (DHIS2 for instance);
- Upgrade to OpenLMIS v3.



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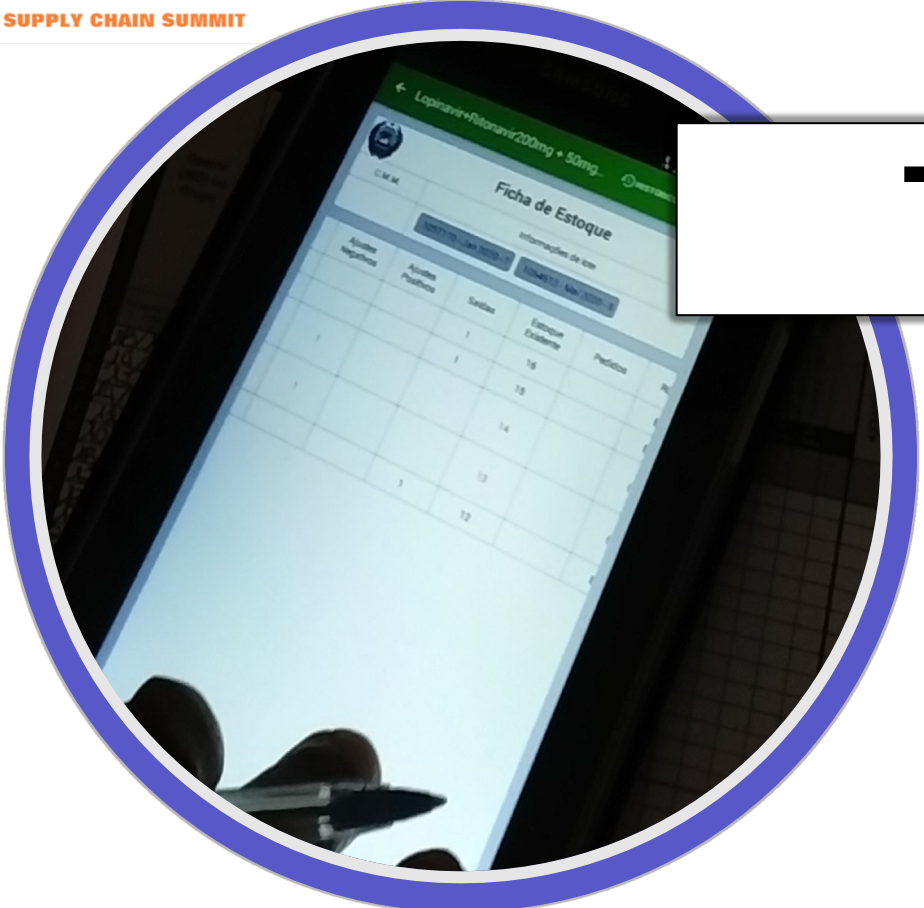
Conclusions

- The success of the system relies mostly on:
 - Continuous engagement with the Private sector for a more robust and sustainable solution;
 - A growing government leadership and;
 - Continuous engagement and support of implementing partners of various areas.



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SIGLUS – Data for decision-making



Thank You! 



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