



Sardar I Khan USAID Global Health Supply Chain Program Procurement and Supply Management Director, Management Information System



2018 Global Health Supply Chain Summit Lusaka, Zambia



# Case Study: Pakistan Contraceptive LMIS



Implementation

- Originally piloted in 19 districts and upon successful implementation was scaled up to all 151 districts and towns.
- This LMIS aggregates and calculates different logistics indicators in the form of reports and graphs

2010

Storage data

Distribution

visibility

Where we are SUM (CYP) VS Reporting Year by Province 17,300 - Khyber Pa 80% **Reporting Points** + Punjat - 546 Full Stock 19.000 Availability Transactions per Month 96% 2.4 Million Reporting 2018 GoP Financing Rate Analytics and Decision Support Stock Sufficiency 2017 = III VAN District level FASP Inventory 2015 Management Interfacing with introduced 2014 vertical MISes Policy Level Stock optimization Business dashboards for SDP to SDP 2011 Intelligence distribution developed Warehouse FASP module Mgmt. GSI compliance Bulk Notifications introduced and Alerts Consumption data \$100 m domestic Stock Executive entry via 7000 GoP financing Requisitioning Dashboard trained staff across the Process Analytics and End to end stock country Dashboards Requisitioning process

LMIS Stats

**∧\_** 



### Sequence

- Pakistan LMIS Executive Dashboard & Alerts System
- Optimal Stock Distribution/Optimization Intelligence
- Use of technology to generate quantitative and qualitative analysis for performance improvement in Pakistan (M&E dashboards)
- Handling vertical health system datasets through interfacing
- Sustainability and ownership by the Government of Pakistan



Pakistan cLMIS Executive Dashboard & Alerts System

Filter by						
Reporting Month	Province	District	Funding Sou	urce Sho	ow All Products	)
2018-09-30	Punjab 🗸	All	✓ All	co		Go
Provides stock	ks for central	warehous	e and districts		oper-T-380A onth Ini	
	Mo	nthly Data				age product
.1.1	100 %	3		98 %	distri	ility status at ct stores & delivery points

Average stock availability rate

(SDPs)

Average stock availability rate of Punjab District Stores for 4 products Punjab Service Delivery Points for 4 products



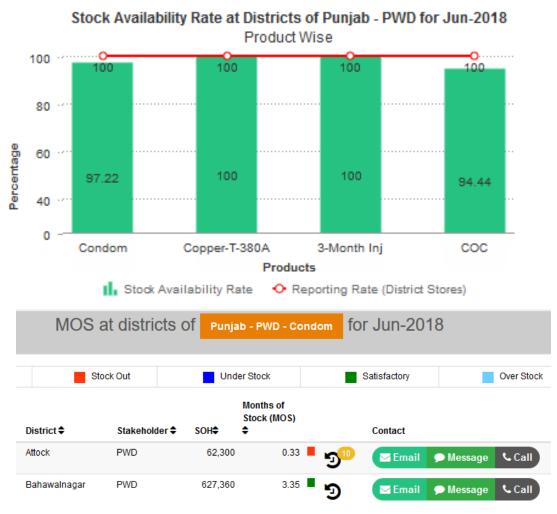
### Pakistan cLMIS Executive Dashboard & Alerts System

### **Executive Dashboard Transactional Data**

Products	Unit	Status	01-Sep-201	8	Indicates months of stock and quantities of		
Products	Unit	Status	Quantity	inOS	condoms at central warehouse		
Condom (AMC**: 7,929,991.72)		Stocks at <u>CW&amp;S</u> Expiring on and after: Jun-2021	<b>136,640,085</b>	17.23	Indicates months of stock and quantity of		
	PCs	Pipeline	<b>11</b> 57,182,510	7.21	condoms in pipeline at central warehouse		
		Total	193,822,595	24.44			
COC (AMC**: 672,428.78)	Cycles	Stocks at <u>CW&amp;S</u> Expiring on and after: Jun-2019	<b>12,783,638</b>	19.01	Indicates product stock status, i.e. stockout, under stock, overstock and satisfactory as per		
Copper-T-380A (AMC**: 58,600.39)	IUD	Stocks at <u>CW&amp;S</u> Expiring on and after: Jun-2020	<b>1</b> ,603,668 <b>(</b>	27.37			
		Pipeline	<b>==</b> 675,995	11.54	r — — — — — — — — — — — — — — — — — — —		
		Total	2,279,663	38.90	Indicates product expiry		
3-Month Inj (AMC**: 188,529.17)	Vials	Stocks at <u>CW&amp;S</u> Expiring on and after: Mar-2020	<b>3,721,854</b>	19.74			
Total CYP : 404,996					Indicates CYP of existing stock available		
MOS Legend : discrete Stock Out (0 Over Stock (15 - 9999999)	- 4.99)	Under Stock (5 - 6.99) Satisfactory (7 - 14.99)			<u> </u>		
Shipments may take estimated de Key: POP (Progestin only Pill), CC Stock), AMC (Average Monthly Co	livery time of:2 XC (Combined nsumption) ents provincially option calculate	Oral Contraceptive); ECP (Emergency Contraceptive P / procured and MoNHSR&C allocations from past USAI ed on last 12 Non-Zero months			Helps executives to initiate timely international procurement process as per dashboard product status		
-	rder , for maint quantity to be o only on curren	aining minimum stock level. ordered. t month.					



Pakistan cLMIS Executive Dashboard & Alerts System

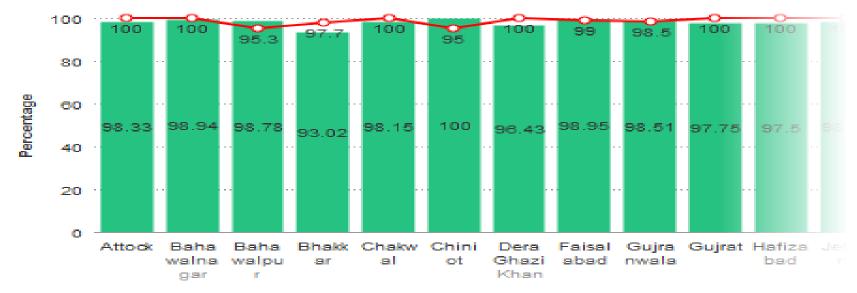


- Captures availability and reporting frequency of districts in the province
- Distribution planning and buffer stocks
- Unified collaboration
- Risk mitigation



Pakistan cLMIS Executive Dashboard & Alerts System

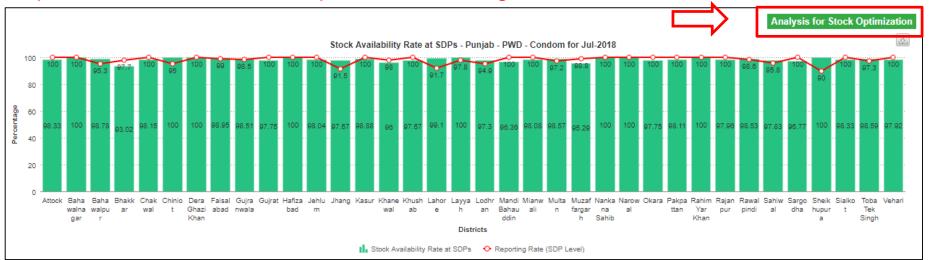
Stock Availability Rate at SDPs - Punjab - PWD - Copper-T-380A for Jun-2018



#	District	Reporting Rate	Stock Availability Rate	Action	
1	Attock	100.00 %	98.33 %	🔁 Email 🔎 Me	ssage
2	Bahawalnagar	100.00 %	98.94 %	🛛 Email 🕟 Me	ssage



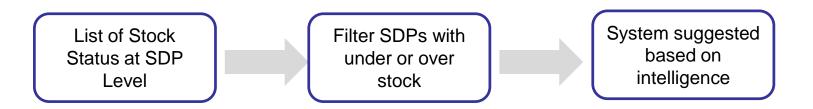
### **Optimal Stock Distribution/Optimization Intelligence**



### List of SDPs with stock status Filter by Product District Month Stakeholder Province Condom Vehari 01-Jul-2018 PWD Punjab . (1) List of Stock Status at SDP Level (2) Filter SDPs with unusual stock -> • (3) Analyze Stock **Facility Name** SOH AMC MOS MOS Required Status Transferrable = 1,793 3 Over Stock FWC Haji Fagir 6,270 3.50 896 1 2 FWC RHC-Ludden 9,100 2,857 3.19 3 Over Stock 542 3 FWC 107/WB 6.300 1.977 3.19 3 Over Stock 375



### **Optimal Stock Distribution/Optimization Intelligence**



		То						
#	Facility Name	SOH	AMC	MOS	Over Stock Qty	Transfer Qty	Transfer To	
1	FWC Haji Faqir	6,270	1,793	3.50	896	896	FWC 367/EB	
2	FWC RHC-Ludden	9,100	2,857	3.19	542	$\Sigma$	51	
3	FWC 107/WB	6,300	1,977	3.19	375		4	
4	FWC Temour Shaheed Colony	7,790	2,477	3.14	347	$\sim$	$\checkmark$	
5	FWC 8/WB	7,050	2,243	3.14	314			
6	FWC Muhammad Shah	5,800	1,843	3.15	276			
7	FWC Muslim Town	6,000	1,987	3.02	40			
8	FWC RHC-Gaggoo	5,420	1,800	3.01	18			



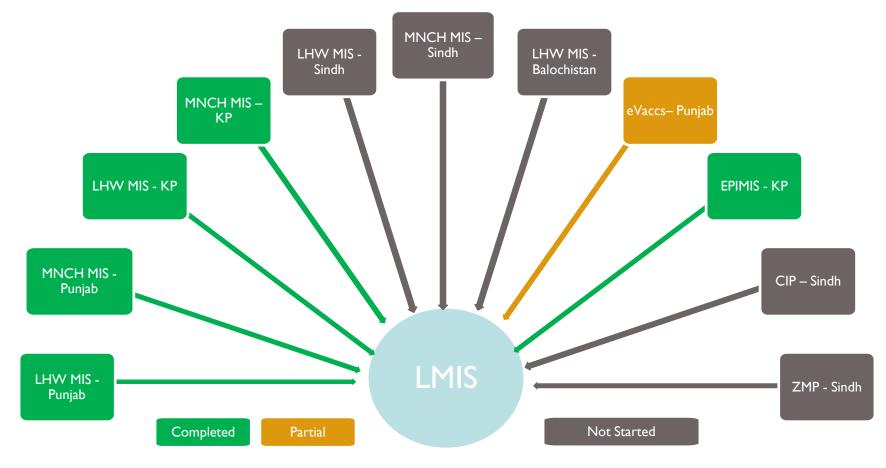
Use of technology to generate quantitative and qualitative analysis for performance improvement in Pakistan (M&E Dashboard)

Filter by									
E	Dec V	Year 2017	Imp	Improves requ	uisitioning and p	planning of c	commoditie	s at district le	evel
				FWC T	ōrawari - M&E Da	shboard			
	1.3K ·····			Limited : inventor Managei		) end		Delayed distribution	
	1.04к ····· Ind	icates fac	cility co	onsumption trer	nds and months	of stock fo	r key FP pro	oducts over t	ime
Consumption	780 ····						•	<u> </u>	
	o, Track	s produ		oly and demand	Jun-2017 Jul-2 Day Copper-T-38		-	oct-2017 Nov-2017 Ies and outlie	
	10			Γ	/onths of stock (MOS	) Trend			X
SOM		о о ь-2017 М	ar-2017	Apr-2017 May-2017	Jun-2017 Jul-20 Day	17 Aug-2017	Sep-2017	Oct-2017 Nov-2017	0 9 0 Dec-2017

◆ Condom ◆ POP ◆ ECP ◆ Copper-T-380A ◆ 3-Month Inj ◆ Implanon ◆ COC ◆ Jadelle



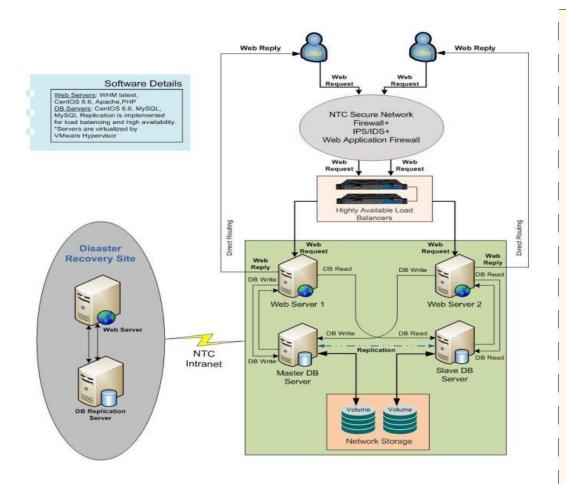
### Handling vertical health system datasets through interfacing



## Defragmentation



### Sustainability and Ownership by the Government of Pakistan



- USAID donated hosting infrastructure to National Data Center (GOP owned)
- Federal Ministry bears hosting charges
- LMIS enhancements 100% driven by government users
- Handing over to private entity under contract with GOP in process



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