

The Journey to Self Reliance
Sustainable and Resilient Supply Chains
for Equitable Access to Healthcare



November 14-16, 2023 **Location:** Safari Park Hotel & Casino, Nairobi, Kenya

Welcome to the 16th Global Health Supply Chain Summit (GHSCS). The severe impacts of the COVID-19 pandemic on global health systems and supply chains highlighted the importance of supply chain capability and diversification in ensuring timely access to life-saving medicines and healthcare. As countries take steps to build more resilience into their health supply chains, there is an opportunity for country-led supply chain diversification to incorporate greater self-reliance. This year we will explore the various forms of such self-reliance and the likely steps on the journey to their achievement—from cultivating an enabling environment through governance and innovative financing mechanisms, to supporting and scaling innovation, and enabling local supplier development and regional manufacturing. GHSCS 2023 will explore these issues through a combination of keynotes, panel discussions, and contributed talks. GHSCS 2023 is hosted under a strategic partnership with the Africa Resource Centre.

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# **AGENDA AT A GLANCE**

Day 1 - Nove	ember 14				
7:45 – 8:45 am		Registration			
9:00 – 9:15 am		Welcome to GHSCS 2023: Prof. Ravi Anupindi, Chair, GHSCS & University of Michigan; and Ibnou Khadim Diaw, co-CEO, Africa Resource Center  Location: Jambo Room			
9:15 – 9:30 am	Opening Welcome Ad	•	<b>uki,</b> Chair, Council of Governors Iambo Room	s Health Committee	
9:30 – 9:45 am	Opening Keynote		<b>ha</b> , Cabinet Secretary, Minister <i>Iambo Room</i>	of Health, Kenya	
9:45 – 10:15 am	Plenary Speaker 1: Dr. A		a Country Director, World Heal ambo Room	th Organization (WHO)	
10:15 – 10:45 am		Coffee	e Break		
10:50 – 12:00 pm	•	Panel 1: Journey to Self-Reliance  Location: Jambo Room  Panel 2: NCDs: End-to-End Care Cycle  Location: Block 300 Tent			
12:00 – 1:15 pm		Lui	nch		
1:30 – 2:45 pm	Track 1 (Prize Presentations) Location: Jambo Room 1	Track 2 Location: Jambo Room 3	<b>Track 3</b> Location: Block 300 Tent	<b>Track 4</b> <i>Location: Ivory Room</i>	
2:45 – 3:15 pm		Coffe	e Break		
3:15 – 4:30 pm	Track 5 (Prize Presentations) Location: Jambo Room 1	Track 6 Location Jambo Room 3	<b>Track 7</b> Location: Block 300 Tent	<b>Track 8</b> <i>Location: Ivory Room</i>	
4:45 – 6:00 pm	SPONSORED PANEL by ARC/ Sanofi: Government Preparedness and Access to Funding for Development of Local Manufacturing  Location: Block 300 Tent  Side Event: ISG/ FF Session on New Era of InterAgency Group and Donor Coordination  Location: Ivory				
	Cod	cktail Party SPONSORED by	LOGENIX INTERNATIONAL LL	С	
	Logenix International				
6:30 – 8:30 pm		Entertainment provided	by the Kenyan Boys Choir		
0.30 – 0.30 μm	Founded in 2004, the Kenyan Boys Choir is a choral ensemble of talented boys drawn from high schools and Colleges around Kenya. The choir's repertoire is of a wide range, from Kenyan traditional folk songs and arrangement to contemporary songs from around Africa, popular renditions of cover songs not forgetting the regular corpus of European and American choral repertoire with other classics from around the world.				



Day 2 - November 15						
9:00 – 9:30 am	Plenar	Plenary Speaker 2: Dr. Priya Agarwal, Senior VP of Intentional Markets, Merck  Location: Jambo Room				
9:40 – 10:45 am	Panel 3: Regional (Pha Location: Ja			untry Distribution lock 300 Tent		
		Coffee Bred	ak - Networking			
10:45 – 12:00pm	Poster Session & Sponsor Exhibits:  outside of Jambo Room		Side Event: WHO on Global Drug Shortages  Location: Jambo Room 3			
12:00 – 1:20 pm	Lunch					
1:30 – 2:45 pm	Track 9 Location: Jambo Room 1	Track 10 Location: Jambo Room 3	Track 11 Location: Block 300 Tent	Track 12 Location: Ivory Room		
2:45 – 3:15 pm		Coffe	ee Break			
3:15 – 4:30 pm	Track 13 Track 14 Location: Jambo Room 1 Location: Jambo Room 3		Track 15 Location: Block 300 Tent	Track 16 Location: Ivory Room		
CANCELLED Panel: Is there a "cost" to buying from African Manufacturers? (20) Location: Jambo Room 1  CANCELLED Panel: Is there a "cost" to buying from African Reliance Location: Jambo Room 3		Side Event: DAI session on Supply Chain Resilience Location: Block 300 Tent	Panel: Kasha-AMPATH- Pendulum: A Cross Sector Partnership for HIV Differentiated Channel Distribution in Kenya (97) Location: Ivory Room			
7:00-8:30pm	(Invitation only) A2M-GHSCS Mixer hosted by A2M at Radisson Blu					

Day 3 - November 16						
9:00 – 10:15 am	Track 17 Location: Jambo Room 1	Track 18 Location: Jambo Room 3	<b>Track 19</b> Location: Block 300 Tent	<b>Track 20</b> <i>Location: Ivory Room</i>		
10:15 – 10:45 am		Coff	<sup>f</sup> ee Break			
10:45 – 11:15 am	Plenary	•	Executive Chairman, Africa Hea : Jambo Room	alth Business		
11:15 – 12:15 pm			nent; Closing remarks : Jambo Room			
12:30 – 1:30 pm		Lunch				
1:45 – 3:15 pm	Tutorial: Access-To- Medicines Research Centre and Johnson & Johnson- How to Design Sustainable Health Supply Systems Location: Jambo Room 1	Tutorial: Kaizen Institute – Operations Excellence in SCM Location: Jambo Room 3	<b>Track 21</b> Location: Block 300 Tent	Site Visits in parallel  Prior Sign Up Required- Meet at Safari Park Lobby 2:00 pm departure  1) Universal Corporation		
3:15 – 3:30 pm		Break		Limited (UCL)		
3:30 – 5:00 pm	(REPEAT) Tutorial: Access-to-Medicines Research Centre and Johnson & Johnson Location: Jambo Room 1	(REPEAT) Tutorial: Kaizen Institute Location: Jambo Room 3		<ul><li>2) Mission for Essential Drugs Supply (MEDS)</li><li>3) Chandarana Supermarkets Limited</li><li>Transportation supported by Empower School of Health</li></ul>		

# **PLENARY PANEL 1: Journey to Self-Reliance**

Day 1; 10:50am-12pm; Location: Jambo Room

**Description:** The Oxford Dictionary defines "self-reliance" as reliance on one's own powers and resources rather than those of others. In 2020, USAID defined "self-reliance" as the capacity to plan, finance, and implement solutions to local development challenges, as well as the commitment to see these through effectively, inclusively, and with accountability. In this round table, we bring together industry leaders to discuss the means to get the process moving, what it would take to get countries there, and what the final destination would look like.

Moderator: Dr. Lloyd Matowe, Director, Pharmaceutical Systems Africa & Dominique Zwinkels, Executive Manager, People that Deliver

### **Panelists**

- 1. Trevor Rittmiller, Senior Advisor for Strategy and Coordination within USAID's Global HealthSupply Chain for Health Division
- 2. Stanley Chindove, Supply Chain Manager, the Global Fund
- 3. Patrick Gaparayi, Regional Commodity Management Team Lead in UNFPA West and Central Africa Regional Office
- 4. Ryan Rennie, Chief Executive Officer, Shamus Rennie Engineering, Cape Town, South Africa
- 5. Maraki Fikre Director CHS Health Advisory Firm

# PLENARY PANEL 2: NCDs: End-to-End Care Cycle

Day 1; 10:50am-12pm; Location: Block 300 Tent

**Description:** Non-communicable diseases (NCDs) disproportionately affect people in low- and middle-income countries and are the leading cause of death worldwide. The procurement, distribution, and management of supplies for NCDs presents several unique challenges. This panel will explore the complexities and challenges of delivering high quality health services for chronic, non-communicable diseases in low- and middle-income country settings. It brings together experts in the field to delve into critical challenges impacting the continuum of care for NCDs, including limited funding and data for quantification, access to medicines and diagnostics, integration of care within existing programs, and stakeholder engagement strategies.

Moderator: Dr. Ravi Anupindi, Ross School of Business, University of Michigan, Ann Arbor

### **Panelists**

- 1. Pragati Jaiswal, Manager, Market Innovations Unit, FIND
- 2. Bashier Enoos, Technical Officer, Integrated Service Delivery, WHO
- 3. Irene Weru, Senior Specialist Pharmacist, Kenyatta National Hospital



# PLENARY PANEL 3: Regionalizing Pharma Manufacturing in Africa

Day 2; 9:40-10:45am; Location: Jambo Room

**Description:** Aligned with the summit's focus, the panel on Regionalizing Pharma Manufacturing in Africa will discuss the opportunities, issues, and challenges related to regionalizing pharma manufacturing as part of a strategy for manufacturing self-reliance. Kenya's natural position as an East African hub for manufacturing, and ongoing efforts to grow as a regional hub for pharma manufacturing, make this year's summit a great fit for this topic. For the panel, we will facilitate perspectives of manufacturers, investors, regulators and technical advisors.

Moderator: Dr. Noel Watson, OpsMend

### **Panelists**

- 1. Ms. Pushpa Vijayaraghavan, Sathguru Management Consultants
- 2. Dr. Charlies Githinji, Kenya Pharmacy and Poison Board
- 3. Dr. Perviz Dhanani, Universal Corporation Limited
- 4. Malick Antoine, International Finance Corporation

## **PLENARY PANEL 4: In-Country Distribution**

Day 2; 9:40-10:45am; Location: Block 300 Tent

**Description**: Distribution channels within a country play a crucial role in the health product supply chain. While recent policy debates among global stakeholders have primarily centered on manufacturing and procurement, it's essential to recognize that distribution is an even more critical aspect of the health supply chain, particularly for the sustainability of regional manufacturers. Leading experts in this field are actively addressing fundamental issues while preparing for the integration of new technologies and operational models.

In this panel discussion, we aim to gather insights from various stakeholders involved in distribution, including a private distributor, a government-run distribution organization, a global pharmaceutical company, and an innovation scout within the distribution sector. The panelists will engage in a dialogue about the seamless flow of products, information, and payments among these stakeholders. They will also highlight significant developments and overarching trends in this sector, shedding light on how evolving health systems are driving the necessity for a fresh approach to in-country distribution.

Moderator: Dr. Prashant Yadav, Affiliate Professor, INSEAD and Academic Director, INSEAD Africa Initiative

### **Panelists**

- 1. Jorsen Patten- Chief Operations Officer -East Africa, IBL Holdings, Kenya & Mauritius
- 2. Alyssa Palmer, Global Value Stream Strategy Lead- Roche Pharma, Switzerland
- 3. Malyse Uwase-Engagement Manager, Salient Advisory, Morrocco
- 4. Celsa Muzayire Gaju, Chief Operations Officer, Rwanda Medical Supply, Rwanda (TBC)



# **DAY 1 - ORAL PRESENTATION SCHEDULE** (Abstract number in parentheses after title)

Day 1: November	14, 2023					
	Tracks 1–4 1:30–2:45 pm Live French translation is available. Un interpète est disponible.					
Track 1	[1.1] Implementation of Bottom-up Quantification in Tanzania (P1)	[1.2] Strengthening Last-Mile Delivery of Drugs: A Case Study of Punjab, India (P2)				
PRIZE PRESENTATIONS A	Msafiri Chiwanga <sup>1</sup> <sup>1</sup> Ministry of Health Tanzania	Geetika Ahuja <sup>1</sup> , Paritosh Singh Rana <sup>1</sup> , Mehar Grover <sup>2</sup> , Abhinav Trikha <sup>2</sup> , Pradeep Kumar Aggarwal <sup>2</sup> , Karthik Adapa <sup>2</sup>				
Location: Jambo Room 1		$^1$ William J Clinton Foundation, an affiliate of Clinton Health Access Iniative, $^2$ Department of Health and Family Welfare, Government of Punjab India				
	Moderator: Judi Heichelheim, Chemonics SVP and IDIQ Director, GHSC-PSM Project					
Track 2  SPONSORED PANEL by Chemonics  Chemonics  Development works here.	overall pharmaceutical management system. This session will explore the overarching systems and regulations/policies, as well relationships between the various supply chain actors and within the broader system, that contribute toward building supply cresilience in LMICs. The panel will discuss how to strengthen governance structures and policies that enable person-centric her supply chains and allow innovations to thrive. They will also explore the various governance roles and how to build structures are encourage multisectoral collaboration and support sustainability and empower local actors to be stewards of supply chains,					
Location: Jambo Room 3	Panelists:  • James Riungu, Chief of Party, Kenya Afya Ugavi Action  • Tom Menge, Head of the Kenya Directorate of Healt  • Leah Hasselback, Supply Chain Team Lead, USAID/Koopen Yomi Kazeem, Engagement Manager, Salient Advisor	h Products and Technologies (DHPT) enya				



Track 3	[3.1] Public Private partnerships	[3.2] Innovations for sustainable last	[3.3] An integrated private sector model
SPONSORED	delivering lifesaving medicines to communities (5)	mile distributions (34)	to increase availability, visibility, and offtake of condoms in Mozambique (28)
SESSION by	` '	Oyewole Akande <sup>1</sup> , Daniel Dougan <sup>1</sup>	• • •
MEBS Global: Novel	Phil Roberts <sup>1</sup> , Merlin Pillay <sup>1</sup> , Maggie Munsammy <sup>1</sup>	<sup>1</sup> MEBS Global Reach	Amanda Manchia <sup>1</sup> , James Flood <sup>2</sup> , Antonio Mabuiangue <sup>1</sup>
Distribution Models  MEBS GLOBAL	<sup>1</sup> Project Last Mile		<sup>1</sup> Project Last Mile, <sup>2</sup> Frontline Research Group
Location: Block 300 Tent	[4.1] The case for investing in human resources for supply chain	[4.2] Empowering the Health Supply Chain Workforce: HCD as a strategy	[4.3] Building community health workers' capacity for service provision
Track 4	management (8)  Bridget McKenry <sup>1</sup> , Marasi Mwencha <sup>2</sup> ,  Dominique Zwinkels <sup>3</sup> , Jonathan Moody <sup>3</sup>	for integrating user perspectives and preferences in supply chain capacity building and system solution in	and stock management at the last mile: development and implementation of a digital tool (85)
<b>Building Workforce</b>		Tanzania and Kenya (50)	Tobias Makai <sup>1</sup> , Tamara Hafner <sup>2</sup> , Gladys
Capacity  Location:	<sup>1</sup> USAID, <sup>2</sup> The Global Fund , <sup>3</sup> People That Deliver	Vicent Manyilizu <sup>1</sup> , Joyce Chuwa <sup>2</sup> , Mathew Mganga <sup>3</sup> , Dr. Tracy Njonjo <sup>4</sup> , Dr. Victoria Kamau <sup>1</sup>	Yabalwazi <sup>1</sup> , Paul Bwathondi <sup>2</sup> , Andre Lesa <sup>1</sup> , Paul Kongo <sup>3</sup> , Lloyd Matowe <sup>3</sup> , Emmanuel Nfor <sup>2</sup>
Ivory Room		<sup>1</sup> inSupply Health, <sup>2</sup> Ministry of Health of Tanzania, <sup>3</sup> President's Office Regional Administration and Local Governments (PORALG) – Tanzania, <sup>4</sup> Ministry of Health of Kenya	<sup>1</sup> BlueCode Systems Limited, <sup>2</sup> USAID Medicines, Technologies, and Pharmaceutical Services (MTaPS) Program, <sup>3</sup> Pharmaceutical Systems Africa



		acks 5–8 3:15–4: ion is available. Un	<b>30 pm</b> interpète est disponible.	
Track 5	[5.1] Leveraging Technology for Strengthening Supply Chains and Last Mile Dispensing in Low-Income Countries: Lessons from Mangaung, South Africa (P3)  Nash Arnachellam <sup>1</sup> , Fanie Hendriksz <sup>1</sup> , Taffy Chinamhora <sup>1</sup>			
PRESENTATIONS B				
Location: Jambo Room 1	<sup>1</sup> Right ePharmacy		<sup>1</sup> KEMSA	
Track 6 Emergency	[6.1] The role and importance of in-country coordination in health supply chain emergency preparedness: a case study on Health Supply Chain Simulation Exercises	Recovery: Key Le	ess, Coordination, and essons for Effective Global hains in Rapidly Changing 04)	[6.3] Efforts du Burkina Faso pour la Mise des Personnes Vivant avec le VIH sous Traitement ARV Optimisé et leur Rétention dans les Soins en 2022 (143)
Preparedness	(SimEx) from Malawi (27)	Wambui Waitha	ka¹, Nadia Olson²	Yakouba Domo <sup>1</sup> , Parfait Edah <sup>1</sup> , Alimata
and Response	Mr Charles Kalemba <sup>1</sup> , Ms Chikhulupiliro Chimwaza <sup>2</sup> , Dr Silvia Rossi Tafuri <sup>3</sup>	<sup>1</sup> International Reso	cue Committee (IRC), <sup>2</sup> JSI	Dahourou Nama², Simplice Takouba Kamdem³, Donald Yanogo¹
Location: Jambo Room 3	<sup>1</sup> Department of Disaster Management Affairs (DODMA) Malawi , <sup>2</sup> Ministry of Health of Malawi, <sup>3</sup> UN World Food Program (WFP)			<sup>1</sup> GHSC-PSM Burkina Faso, <sup>2</sup> SP/CNLS-IST,³US Embassy Accra, Ghana, <sup>4</sup> US Embassy- Burkir Faso



•		[7.1] Leveraging the Master Medicine Data System for Uniform Master Data across Health Facilities (45)  Ms. D. Kate Chara <sup>1</sup> , Khadjia Jamaloodien <sup>2</sup> , Ms. Kamvelihle Motsabi <sup>3</sup>	[7.2] Health Management Information System (HMIS) – Logistics Management Information System (LMIS) Data Triangulation in Nigeria: A Catalytic Intervention for Improving Data Quality and Accountability of Malaria Medicines (13)	[7.3] Leveraging supply chain data to manage cold chain risk (111) Ishmael (Ish) Muchemenyi <sup>1</sup> 14PL Services Director
	Track 7  Digital Tools for Data-driven Supply Chains  Location: Block 300 Tent	<sup>1</sup> SHSC-Technical Assistance South Africa, <sup>2</sup> National Department of Health South Africa, <sup>3</sup> PwC	Ezinne Onuba <sup>1</sup> , Kenji Goyit <sup>2</sup> , Frank Oronsaye <sup>1</sup> , Perpetua Uhomoibhi <sup>2</sup> , Temitope Adeyoju <sup>1</sup> , Gbenga Mokuolu <sup>2</sup> , Sonachi Ezeiru <sup>1</sup> , Talatu Kassim <sup>2</sup> , Victor Adebayo <sup>3</sup> , Peter Biaghere <sup>1</sup> , Chidinma Okolo <sup>1</sup> , Bolu Awesu <sup>3</sup> , Gladys Muhire <sup>3</sup> , Chinedu Chukwu <sup>4</sup> , Abdullahi Muhammed <sup>4</sup> , Jane Onyilo <sup>5</sup> , Chukwu Okoronkwo <sup>2</sup> , Cyril Ademu <sup>2</sup> <sup>1</sup> Catholic Relief Services (CRS) Abuja, Nigeria, <sup>2</sup> National Malarial Elimination Program Abuja Nigeria, <sup>3</sup> Caltholif Relief Services, Regional & HQ Office, <sup>4</sup> Management Sciences for Health Abuja, Nigeria, <sup>5</sup> Malaria Consortium Abuja, Nigeria	
•	Track 8 Innovative Market Shaping Approaches Location: Ivory Room	[8.1] Using Reagent Rental and Direct Delivery to Build Sustainable Solutions in the Zambia Health Supply Chain System (126) William Kaunda <sup>1</sup> , Darwin Chimenge <sup>2</sup> , Powell Choonga <sup>2</sup> <sup>1</sup> Global Health Supply Chain – Procurement and Supply Management (GHSC-PSM), <sup>2</sup> Ministry of Health	[8.2] A market shaping strategy to address affordability and sustainability of drone logistics in LMICs (11)  Dr. Olivier Defawe <sup>1</sup> <sup>1</sup> VillageReach	[8.3] Facility Based Community Revolving Pharmacy Model: Towards improved access to essential chronic medication in Nairobi City County (128)  Dr. Norah Maore <sup>1</sup> , Dr. Faith Ndeto <sup>1</sup> , Ms. Egla Chepkorir <sup>2</sup> <sup>1</sup> Nairobi City County, HPTU, <sup>2</sup> Afya Ugavi



## **DAY 2 - ORAL PRESENTATION SCHEDULE** (Abstract number in parentheses after title)

# Day 2: November 15, 2023

### Tracks 9-12 1:30-2:45 pm

Live French translation is available. Un interpète est disponible.

### Improve what you have!

Experiences (from Nigeria, Kenya, and Ethiopia) on how operational excellence can be leveraged to improve SC performance.

Moderator: Dr. Prashant Yadav, Affiliate Professor, INSEAD and Academic Director, INSEAD Africa Initiative

Track 9 **SPONSORED** PANEL by Kaizen Institute KAIZEN

Location: Jambo Room 1

**Brief Description**: 85% of strategies and plans to improve SC often fail! Why? Execution and poor DAILY operations are to be blamed. Sound familiar? Good strategies need to be executed well. Operational improvements across PWLD (Procurement-Warehousing-Logistics-Distribution) are important and at the Kaizen Institute we believe that major improvement can be achieved NOT only by adding more resources (Space, Inventory, Human, Digital, Equipment's etc.) but by IMPROVING what we already have! People drive Process improvements and via robust Daily Management much can be improved. This Panel will explore how Operational Excellence can enhance Supply Chain Performance. Experiences from Kaizen Institute's approach which emphasizes on waste (Muda) reduction will be discussed by practitioners drawn from National & Regional SC stakeholders.

### Panelists:

- Aisha Tukur Isyaku, Executive Secretary, Kaduna State Health Supplies Management Agency
- Endalew Asmamaw, Director of Distribution and Fleet Management Directorate, Ethiopian Pharmaceutical Supply Service
- Andrew Mulwa, CEO, KEMSA
- Vincent Nguimbi, Direction and Head of Development & Public Sector Practice (DPS), Kaizen Institute Africa
- Ravi Anupindi, University of Michigan Ross School of Business



Track 10 Strengthening Leadership and	[10.1] Supply Chain Coordination and Advocacy (19)  Guy Mussamba <sup>1</sup> , Eder Mbolela <sup>1</sup> , Doris Mukwanga <sup>1</sup> , Deborah Bomanga <sup>1</sup>	[10.2] Health Products and Technologies Supply Chain Strategy 2020- 2025: Towards "a sustainable, resilient and responsive health products and technologies supply chain system" (58)	[10.3] Strengthening leadership and governance to improve health supply chain performance in districts and hospitals (78)  Martin Olowo Oteba <sup>1</sup> , Moses
Governance  Location: Jambo Room 3	<sup>1</sup> VillageReach	Dr. Stephen Njuguna <sup>1</sup> , Dr. Tom Menge <sup>1</sup> , Dr. Kefa Bota <sup>1</sup> <sup>1</sup> Ministry of Health, Directorate of Health Products and Technologies	Mukundane <sup>1</sup> , Martha Ajulong <sup>1</sup> , Denis Okidi <sup>1</sup> , Henry Komakech <sup>1</sup> , Anthony Kirunda <sup>1</sup> , Fred Twinomujuni <sup>1</sup> , John Han Wasswa <sup>1</sup> , Julius Mubiru <sup>1</sup> , Eric Lugada <sup>1</sup> <sup>1</sup> Management Sciences for Health - Uganda
Track 11  Dynamic Forecasting and Modeling  Location: Block 300 Tent	[11.1] Adapting health program forecasting methodologies to our new reality with COVID-19 vaccines (6)  Laila Akhlaghi <sup>1</sup> <sup>1</sup> JSI	[11.2] Dynamic modeling to assess sustainability of vaccines against epidemic-prone pathogens: a case study of Ebola (40)  Donovan Guttieres <sup>1</sup> , Charlot Diepvens <sup>1</sup> , Catherine Decouttere <sup>1</sup> , Nico Vandaele <sup>1</sup> **Access-To-Medicines Research Centre, KU Leuven	[11.3] A Need for Speed: Visibility, Efficiency, and Self-Reliance at the Last Mile The Transformational Impact of GHSC-PSM's Collaboration with the Government of Niger and the Private Sector (142) Frederick Persoons <sup>1</sup>
Track 12 Partnerships for Stronger Supply Chains  Location: Ivory Room	[12.1] Innovations Digitizing Health Supply Chains in Africa – Public sector partnership trends, challenges, and opportunities (48)  Remi Adeseun <sup>1</sup> , Yomi Kazeem <sup>1</sup> , Ann Allen <sup>2</sup> <sup>1</sup> Salient Advisory, <sup>2</sup> Bill & Melinda Gates Foundation	[12.2] Private Sector Partnerships for Agile Lab Sample Transport Programs (57)  Cedric Ekembe <sup>1</sup> , Dr. Archimede Makaya <sup>1</sup> , Sierra Petrosky <sup>1</sup> , Kameko Nichols <sup>2</sup> , Susie Truog <sup>1</sup> , Luciana Maxim <sup>1</sup> <sup>1</sup> VillageReach, <sup>2</sup> The Nichols Group	[12.3] STEP 2.0: An innovative and sustainable tool to strengthen supply chains (9)  Dominique Zwinkels <sup>1</sup> , Alexis Strader <sup>2</sup> , Chris Goetz <sup>3</sup> , Bridget McHenry <sup>4</sup> <sup>1</sup> People That Deliver, <sup>2</sup> Johnson & Johnson Global Public Health, <sup>3</sup> IFPW Foundation, <sup>4</sup> USAID



#### Day 2: November 15, 2023 Tracks 13-16 3:15 – 4:30 pm Live French translation is available. Un interpète est disponible.. [13.3] Integrating HIV Patient Data [13.1] Increasing access to commodities and medicines for rural populations **Management in PNG: Implementation** Track 13 through innovative inclusive business of a HIV Module within an Electronic Tech-driven **Logistics Management Information** (67)Logistics System (eLMIS) (24) E. Booty<sup>1</sup>, S. Mwanzia<sup>1</sup>, L. Ansell<sup>1</sup> Management Poruan Temu<sup>1</sup>, Gabriel Manuk<sup>1</sup>, Richard <sup>1</sup>Reach52 Mozieau<sup>2</sup> Presenter: Laurence Holding<sup>2</sup> Location: Jambo Room 1 <sup>1</sup>FYI 360 Papua New Guinea, <sup>2</sup>The mSupply **Foundation** [14.1] Getting your supply chain ready [14.2] An approach to assessing [14.3] Community Approach in the Track 14 for the big changes coming (125) sustainability: The technical independence Journey to Self-Reliance-A Case of **Gender-Inclusion Through the IAPHL** indicator (127) **Building** Mr. David Crewe-Brown<sup>1</sup>, Dr. Iain Barton<sup>2</sup> **Listserv and Chapter (144) Systems for** Arthur Ostrega<sup>1</sup>, Suzanne Gold<sup>1</sup>, Michael <sup>1</sup>Vitalliance Corporation, <sup>2</sup>Health for Self-Resilience Cohen<sup>1</sup> Timilehin Omole<sup>1</sup>, Carmit Keddem<sup>2</sup>, Development (H4D) Walter Proper<sup>1</sup>, Natty Stelle Kokolo<sup>1</sup>, Jamie Thivener-Project Officer<sup>2</sup> Location: <sup>1</sup>Chemonics International Jambo Room 3 <sup>1</sup>IAPHL, <sup>2</sup>JSI



	[15.1] Strengthening Health Supply Chains for Improved Patient Access: Insights from a 10+ Year Effort Through the Procurement and Supply	[15.2] Improving the Availability of Medical Supplies and Products Through the Use of Digital Technologies in Ethiopia (25)	[15.3] Supporting a sustainable and resilient health supply chain in Fiji through integrated digital procurement (66)
Track 15 Digital Procurement Solutions  Location: Block 300 Tent	Chain Strengthening Project (PSSP) and Health Supply Chain Improvement Project (HSIP) in Uganda (92)  Sowedi Muyingo <sup>1</sup> , Rashid Settaala <sup>1</sup> , Paul Lotay <sup>1</sup> , James Olweny <sup>1</sup> , David Etoori <sup>2</sup> , Samuel Malamba <sup>3</sup> , King Keesler <sup>4</sup> , Steven Wiersma <sup>4</sup> , Pito Jjemba <sup>4</sup>	Selamawit Meressa Teklehaimanot <sup>1</sup> , Loko Abraham Bongassie <sup>1</sup> , Sami Tewfik Edris <sup>1</sup> , Al Shiferaw Weldemichael <sup>1</sup> , Tariku Nigatu Bogale <sup>1</sup> , Tadesse Alemu Bekele <sup>1</sup> <sup>1</sup> JSI	Ms. Chloe Dimock <sup>1</sup> <sup>1</sup> Beyond Essential Systems (BES)
	<sup>1</sup> Medical Access, <sup>2</sup> London School of Hygiene and Tropical Medicine, <sup>3</sup> Uganda Virus Research Institute – National Reference Laboratry, <sup>4</sup> U.S. Centers for Disease Control and Prevention		
Track 16	Moderator: Kevin Pilz, Senior Supply Chai  Brief Description: Public health supply of	chains continue to grow bigger and become more	e complex. This increases the need for
Data Analytics for Decision Making  Location: Ivory	this panel is to provide practical evidence participants with proven tools and approadistribution processes in increasingly com	in last mile distribution to ensure long-term sust of the advantages and opportunities of data anarches for building, implementing, and sustaining plex public health supply chain field.	llytics, discuss lessons learned, and provide
Room	<ul><li>Mariam Zameer, Director, Health Sy</li><li>Julian Psotta, Product Manager, Sm</li></ul>	very Lead, Project Last Mile, Mozambique vstems Global Technical Team, VillageReach vart Mobility, Heidelberg Institute for Geoinformo Zambia Medicines and Medical Supplies Agency	-, -



# **DAY 3 - ORAL PRESENTATION SCHEDULE** (Abstract number in parentheses after title)

Day 3: November 16,	, 2023		
		icks 17–20 9:00–10:15 am ion is available. Un interpète est disponible	
Track 17 Reaching the Last Mile Location: Jambo Room 1	[17.1] Enhancing End-to-End Supply Chain Visibility for Last- Mile Service Delivery in Sierra Leone: A Journey Towards Self- Reliance (21) Rosaline Adey <sup>1</sup> 1Project Last Mile	[17.2] Implementation of outsourcing transport in public health supply chain in Mozambique (23)  Alvaro Lopes <sup>1</sup> , Angelina Cumba <sup>1</sup> , Cédric Ekembe <sup>2</sup> , Esselina Brito <sup>1</sup> 1VillageReach	[17.3] Drones on Demand: A Top-Up Mechanism for Urgent Transport of Health Products in Malawi (Process & Outcome Evaluation Results) (26) Innocent Mainjeni <sup>1</sup> , Tafwirapo Chihana <sup>1</sup> , Luciana Maxim <sup>1</sup> , Boas Meijer <sup>2</sup> , Susie Truog <sup>1</sup> , Ndasowa Chitule <sup>1</sup> , Olivier Defawe <sup>1</sup> <sup>1</sup> VillageReach, <sup>2</sup> INSEAD
	2022 Global Research Challenge Recipient Presentation	[18.2] The National Surveillance Centre emerges as the single source of information for medicines and PPE availability in the public sector supply chain in South Africa	[18.3] One size does not fit all: the intricacies of managing AHD commodity supply chain in Nigeria (35)
Track 18 Logistics Solutions for Health Commodities	[18.1] Utilization of Data for Decision Making and Performance of Health Supply Chain Management Systems in Vihiga and Kisumu Counties, Kenya (145)	(15) Claudio Mendes <sup>1</sup> , Khadija Jamaloodien <sup>2</sup> <sup>1</sup> USAID Global Health Supply Chain – Technical Assistance South Africa, <sup>2</sup> National Department	Williams Eigege <sup>1</sup> , Oluwakemi Sowale <sup>1</sup> , Opeyemi Abudiore <sup>1</sup> , Nere Otubu <sup>1</sup> , Folu Lufadeju <sup>1</sup> , Owens Wiwa <sup>1</sup> , Patiko Mohammed <sup>2</sup> , Chidiebere Okorie <sup>2</sup> , Atu Uzoma <sup>2</sup> , Bennett Urama <sup>3</sup> , Chinedu Obi <sup>3</sup> , Matthew Attah <sup>3</sup>
Location: Jambo Room 3	Mukanya Collins Mudogo <sup>1</sup> , Oluhano Jerusa <sup>1</sup> , Sikuku Erick <sup>1</sup> , Obegi Emmah <sup>2</sup> , Mbinji Joseph <sup>2</sup> <sup>1</sup> County Government of Vihiga, <sup>2</sup> County Government of Kisumu	of Health, South Africa	<sup>1</sup> Clinton Health Access Initiative, <sup>2</sup> National AIDS, Viral Hepatitis & STIs Control Programme, Federal Ministry of Health Nigeria, <sup>3</sup> Global Health Supply Chain – Procurement & Supply Management



	[19.1] Vietnam's journey to ARV sustainability: Technical	[19.2] Thinking Outside of the [Cold] Box: Maintenance Done Differently	[19.3] Learning from eLMIS Ownership Transition to MOH, a
Track 19	assistance to drive improved	(18)	collaborative (93)
Local Ownership and Collaboration	and government-led supply chain management (86)	Wendy Prosser <sup>1</sup>	Joyce Chuwa <sup>1</sup> , Silvanus Illomo <sup>1</sup> , Godfrey Kingalu <sup>1</sup> , Alfred Mchau <sup>2</sup>
Location: Block 300 Tent	Dao Nguyen <sup>1</sup> , Minh Nguyen <sup>2</sup> , Anna Wadsworth <sup>2</sup> , Diu Nguyen <sup>2</sup> , Tess Shiras <sup>2</sup> , Alysha Beyer <sup>2</sup>	<sup>1</sup> JSI	<sup>1</sup> Tanzania Ministry of Health, <sup>2</sup> GHSC-TA-TZ
	<sup>1</sup> USAID/Vietnam, <sup>2</sup> Abt Associates		
Track 20	[20.1] The Supply Chain Equity Guide: Reaching Under- Immunized Communities	[20.2] Assessment of the Added Value and Implementation Feasibility of Barcodes on Vaccine Products (82)	[20.3] Assessing Cold Chain Health in Real-Time in Malawi: Trends in vaccine wastage, health worker
Improved Vaccine Delivery and Access	through Immunization Supply Chain Design (41)	Cary Spisak <sup>1</sup> , Omar Balsara <sup>1</sup> , Edward Wilson <sup>1</sup>	attitudes and behaviors, and equipment performance (37)
Location: Ivory	Tobi Bamiduro <sup>1</sup> , Emily Gibson <sup>1</sup> ,	¹JSI	Patience Mfune <sup>1</sup> , Gray Phiri <sup>2</sup>
Room	Mariam Zameer <sup>1</sup> <sup>1</sup> VillageReach		<sup>1</sup> Nexleaf Analytics, <sup>2</sup> Malawi Ministry of Health



# DAY 3 -WORKSHOP / TUTORIAL / Track 21

# Day 3: November 16, 2023

### 1:45-3:15 pm

Live French translation is available. Un interpète est disponible..

How to design sustainable health supply systems? Using models to collaborate, build intuition and navigate supply chains

Organized by KU Leuven Access-To-Medicines Research Centre and Johnson & Johnson Global Public Health Supply Chain

Moderator: Alexis Strader and Jo Tierens

An end-to-end supply chain is needed for the reliable flow of critical global health products. The COVID-19 pandemic and other infectious disease outbreaks have shed light on the complex and dynamic factors (e.g., product design, hesitancy, procurement mechanisms, border restrictions) influencing timely supply of both outbreak and routine global health products. Given the interconnected nature of these factors, even small fluctuations can accumulate across space and time into large disturbances that lead to delays and coverage gaps. This has led to growing interest in a more holistic understanding of supply systems to effectively design and manage these systems to meet public health needs.

# Tutorial 1: Designing Sustainable Health Supply Systems (may repeat after break from 3:30-5pm)

The workshop offers a space to share practical insights into the use of model-based decision-support tools to enhance equitable access to global health products. Specifically, it will share learnings from the model development process (problem definition, data collection, and stakeholder participation, etc.) and the use of such models to better understand root causes of performance gaps in supply systems. Additionally, it will provide an opportunity for participants to interact, practice systems thinking and share learnings from their practical experiences. This workshop will be divided in four parts:

### Location: Jambo Room 1

### Introduction

System thinking in supply chain dynamics and the value of modelling (Jo Tierens, Nico Vandaele)

### Insights from practical applications

Regional manufacturing: a necessary, but insufficient condition (Nico Vandaele)

Modelling sustainably supply chains for HIV Long-acting Antiretroviral Injectables (LAI) (Paulina Morales Ruiz, Hilton Snyder)

Understanding priority challenges and modelling sustainable supply chains for vaccines against epidemics (Charlot Diepvens, Donovan Guttieres)

### Interactive workshop

Guided session to connect, learn, and share perspectives on:

- (a) the extent to which policies are informed by model-based decision-support tools;
- (b) practicing and the use of systems thinking; and
- (c) mapping factors, also external to supply chains, that influence sustainability of supply and access

Closing Key takeaways of shared learnings and experiences (Jo Tierens, Nico Vandaele)



	Kaizen Institute: Operational Excellence adoption in Supply Chain Management
Tutorial 2: Operations Excellence in SCM (may repeat after	Synopsis:  The bridge that connects strategy with performance is operations. On time, in full and error free execution is important for supply chains to ensure they perform and meet and exceed customer expectations.
coffee break from 3:30-5pm)	This tutorial will explore how the operations within WLD (warehousing, logistics and distribution) can be improved by applying the principles of Kaizen. How can waste be identified across the value chain and attacked? As one finds ways to improve the activities with WLD, it is also
Location: Jambo Room 3	important to sustain the high performance by focusing on robust Daily Management. The twin combination of improvement and sustaining daily routines is the key to operational excellence.
	Examples, case studies and foundational concepts will be presented in this tutorial.

	[21.1] The Quality Management Improvement Approach: Success and lessons learned from a workforce development intervention in Rwanda's health supply (129)		
	Kenneth Kahumuza <sup>1</sup> , Ephraim Safari <sup>2</sup>		
Track 21	<sup>1</sup> GHSC-PSM/Chemonics International, <sup>2</sup> Ministry of Health – Rwanda		
Workforce	[21.2] Making The Health Supply Chain Workforce Inclusive For Persons With Disabilities (83)		
Development; Digitizing Health	Tamara Hafner <sup>1</sup> , Lauren Herzog <sup>1</sup> , Biniyam Tadesse Haile <sup>2</sup>		
Digitizing riculti	$^1$ USAID Medicines, Technologies, and Pharmaceutical Services (MTaPS) Program, $^2$ Independent Consultant		
Location:			
Block 300 Tent	[21.3] Digitising Fiji's Health Supply Chain: A model for sustainable reform in low-resource settings (12)		
	Ms. Emily Porrello <sup>1</sup> Presented by Chloe Dimock		
	<sup>1</sup> Beyond Essential Systems (BES)		



# **Abstract # to Track Mapping**

Abstract #	Track	Abstract #		Track	
5	3.1		25	15.2	
6	11.1		26	17.3	
8	4.1		27	6.1	
9	12.3		28	3.3	
11	8.2		34	3.2	
12	21.3		35	18.3	
13	7.2		37	20.3	
15	18.2		40	11.2	
18	19.2		41	20.1	
19	10.1		45	7.1	
21	17.1		48	12.1	
23	17.2		50	4.2	
24 13.3			57	12.2	

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Abstract #	Track
58	10.2
66	15.3
67	13.1
78	10.3
82	20.2
83	21.2
85	4.3
86	19.1
92	15.1
93	19.3
104	6.2
111	7.3
125	14.1

Abstract #	Track
126	8.1
127	14.2
128	8.3
129	21.1
136	16
142	11.3
143	6.3
144	14.3
145*	18.1
Prize Talk 1	1.1
Prize Talk 2	1.2
Prize Talk 3	5.1
Prize Talk 4	5.2

# **Color-coding Legend**

Day 1 (Nov. 14), Tracks 1-4, 1:30 – 2:45 pm
Day 1 (Nov. 14), Tracks 5-8, 3:15 – 4:30 pm
Day 2 (Nov. 15), Tracks 9-12, 1:30 – 2:45 pm
Day 2 (Nov. 15), Tracks 13-16, 3:15 – 4:30 pm
Day 3 (Nov. 16), Tracks 17-20, 9:00 – 10:15 am
Day 3 (Nov. 16), Track 21, 1:45 – 3:15pm

\*2022 Research Challenge Recipient (145)

SPONSORED PANELS	Track
CHEMONICS INTERNATIONAL	2
MEBS Global	3
SANOFI	(Day 1 Side Event 4:45 pm)
KAIZEN INSTITUTE	9



### **DAY 2 – POSTER PRESENTATIONS**

# Day 2; 10:45am-12pm

# [P1] Assessment Of Implementation Status And Challenges Of Pharmaceutical Reverse Logistics: The Case Of Selected Public Hospitals In Addis Ababa, Ethiopia (10)

Zerihun Zekariyas<sup>1</sup>

<sup>1</sup>Tirunesh Beijing General Hospital

# [P2] Developing local supplier capacity in drug and health commodity logistics management in Nigeria, the success story of Akesis Health (14)

Zachary Gwa<sup>1</sup>, Abdulsalam Musa<sup>1</sup>, Yewan Ishaya<sup>1</sup>, Richard Olukolade<sup>1</sup>, Chuck Morrison<sup>1</sup>, Dalia Eryani<sup>1</sup>

<sup>1</sup>Akesis Health

# [P3] Increasing Access To Essential Medicines Through Sustainable Supply System (30)

Ahmed Nonju, Uzosada, Nebeyan Thaddeu, Rxaisha, Andrachuks, Frances Okosi <sup>1</sup>National Product Supply Chain Management Program (NPSCMP) <sup>2</sup>Department of Food and Drugs, Federal Ministry of Health, Abuja, Nigeria

# [P4] Situational Analysis To Identify Factors Limiting Local Manufacturing Of Essential Health Products And Technologies In Kenya (47)

Tom Menge<sup>1</sup>, Tracy Njonjo<sup>1</sup>, James Batuka<sup>2</sup>, Jacinta Wasike<sup>3</sup>, Dipti Bhavsar<sup>4</sup>, Samuel Kerama<sup>3</sup>, Bernard Sande<sup>1</sup>, Martin Owino<sup>1</sup>, Prisca Muthoni<sup>5</sup>, Francis Ogola<sup>1</sup>, Florence Orinda<sup>1</sup>

<sup>1</sup>Ministry of Health Kenya, <sup>2</sup>Africa Resource Center, <sup>3</sup>Pharmacy & Poisons Board Kenya, <sup>4</sup>Mathari National Teaching & Referral Hospital; <sup>5</sup>Kenya Medical Supplies Authority,

# [P5] Unlocking Pharmaceutical System Potential: Introducing PSS Insight v2.0 for Data-Driven Decision Making (49)

Maura Soucy Brown<sup>1</sup>, Tamara Hafner<sup>1</sup>, Lauren Herzog<sup>1</sup>, Samrat Baral<sup>1</sup>, Birna Trap<sup>1</sup>, John Waswa<sup>1</sup>, Edgar Lusaya<sup>1</sup>, Daudi Msasi<sup>2</sup>, Vivian Bazanye Twemanye<sup>3</sup>, Tamanna Nigar<sup>3</sup>, Emmanuel Nfor<sup>1</sup>, Francis Aboagye-Nyame<sup>1</sup>

<sup>1</sup>USAID Medicines, Technologies, and Pharmaceutical Services (MTaPS), <sup>2</sup>Ministry of Health, Community Development, Gender, Elderly and Children, United Republic of Tanzani, <sup>3</sup>Independent Consultant

# [P6] Improving Access To Anti-Cancer Medicines Through A Systematic Evidence-Based Forecasting Process – Experiences From Sub-Saharan Africa (56)

Dr Susan C Msadabwe-Chikuni<sup>1</sup>, Youwa Prisca<sup>2</sup>, Baffour Awuah<sup>3</sup>, Joycelyn Azeez<sup>3</sup>, Khanyisa Mlati<sup>4</sup>, Vivienne Mulema<sup>4</sup>, Mathilde Chaudron<sup>4</sup>, Jenala Nyangu<sup>4</sup>, Memory Samboko<sup>4</sup>, Kafui Tay<sup>4</sup>, Lady Mae Wright<sup>4</sup>, Chengetai Mukotsanjera<sup>4</sup>, Tatenda Maparo<sup>4</sup>, Ciru Wanjiru Ndichu<sup>4</sup>, Emily Kobayashi<sup>4</sup>, Andreas Frambo<sup>4</sup>, Leslie Emegbuonye<sup>4</sup>

<sup>1</sup>Cancer Disease Hospital Lusaka, Zambia, <sup>2</sup>National Committee for the Fight against Cancer, Cameroon, <sup>3</sup>Ministry of Health, Ghana, <sup>4</sup>Clinton Health Access Initiative



# [P7] Key Barriers To Accessing Affordable, Predictable Pricing For Diagnostics (55)

Randy Allen<sup>1</sup>, Arika Garg<sup>1</sup>, Megan Knox<sup>1</sup>, Paolo Maggiore<sup>1</sup>, Julia Tuttle<sup>1</sup>, Smiljka De Lussigny<sup>2</sup>, Anisa Ghadrshenas<sup>2</sup>

<sup>1</sup>Clinton Health Access Initiative, <sup>2</sup>Unitaid

# [P8] Building A Humanitarian Medical Aid Supply Chain System To Ensure Access To Life-Saving Health Commodities Amidst A War-Induced Humanitarian Crisis (59)

Yulia Stopolianska<sup>1</sup>, Dmytro Nestor<sup>1</sup>

<sup>1</sup>USAID SAFEMed project (Management Sciences for Health)

# [P9] Illuminating The Missing Link In The Vaccine Supply Chain: Introduction Of A Novel Technology In Tanzania To Safeguard Vaccines During Transport (60)

Mariam Johari<sup>1</sup>, Jill Moraa<sup>1</sup>, Juma Ikombola<sup>2</sup>, Happiness Mberesero<sup>2</sup>
<sup>1</sup>Nexleaf Analytics, <sup>2</sup>InSupply Health

# [P10] The First National Demand Forecast For Health Products And Technologies Pre And Post Devolution Of Healthcare Service In Kenya (63)

Eunice Gathitu<sup>1</sup>, J. Maina<sup>1</sup>, S. Gitonga<sup>1</sup>, J. Riungu<sup>2</sup>, S. Njogo<sup>3</sup>, T. Menge<sup>1</sup>

<sup>1</sup>Ministry of Health, Kenya, <sup>2</sup>USAID – Afya Ugavi, Kenya, <sup>3</sup>Africa Resource Centre, Kenya

# [P11] Systems-Based Model for Optimal Distribution of Long-Acting Injectables (77)

Paulina Morales-Ruiz<sup>1</sup>, Nico Vandaele<sup>1</sup>, Catherine Decouttere<sup>1</sup>, Hilton Snyder<sup>2</sup>

<sup>1</sup>KU Leuven – Access-to-Medicines Research Centre, <sup>2</sup>Johnson & Johnson Global Public Health Supply Chain, Africa Operations

# [P12] Making The Health Supply Chain Workforce Inclusive For Persons With Disabilities (83)

Tamara Hafner<sup>1</sup>, Lauren Herzog<sup>1</sup>, Biniyam Tadesse Haile<sup>2</sup>

<sup>1</sup>USAID Medicines, Technologies, and Pharmaceutical Services (MTaPS) Program, <sup>2</sup> Independent Consultant

# [P13] Optimizing Cold Chain Corrective Maintenance: Determining the Optimal Threshold for Vaccine Temperature Monitoring Using a Standard Deviation Method Approach. (84)

Jeniffer Adungosi<sup>1</sup>, Amadi Chamwada<sup>1</sup>, Lewis Kabuga, Nancy Kinyua <sup>1</sup>Clinton Health Access Initiative

# [P14] Utilization Of Electronic Logistical Management System (Elmis) For Sustainable Vaccines Distribution And Strengthening The Supply Chain In Kenya: Lessons From Chanjo Elmis. (89)

Jeniffer Adungosi<sup>1</sup>

<sup>1</sup>Clinton Health Access Initiative



# [P15] Harnessing the power of GIS to Optimize Vaccines Mini Depot Placement in Tana River County, Kenya (101)

Jeniffer Adungosi<sup>1</sup>

<sup>1</sup>Clinton Health Access Initiative

## [P16] Leveraging Civil Society To Improve The Resilience Of Supply **Chain For Essential Medical Products** (108)

Jane Briggs<sup>1</sup>, Andrew Brown<sup>1</sup>, Lauren Herzog<sup>1</sup>, Martha Embrey<sup>2</sup>

<sup>1</sup>USAID Medicines, Technologies, and Pharmaceutical Services (MTaPS) Program, <sup>2</sup>Management Sciences for Health

## [P17] Subnational Procurement – Does It Ensure Availability As Well As **Quality And Affordability Of Medicines?** (115)

Jane Briggs<sup>1</sup>, Lauren Herzog<sup>1</sup>, Malcolm Clark<sup>2</sup>, Andualem Oumer<sup>1</sup>, Martha Embrey<sup>2</sup>, Birna Trap<sup>1</sup>, Baburam Humagain<sup>1</sup>

<sup>1</sup>USAID Medicines, Technologies, and Pharmaceutical Services (MTaPS) Program,

### <sup>2</sup>Management Sciences for Health

## [P18] Situational Analysis Of Family Planning Services Availability At The Last Mile In Luapula Province, Zambia (116)

Tamara Hafner<sup>1</sup>, Veronika J. Wirtz<sup>2,3</sup>, Jeanette L Kaiser<sup>2</sup>, Paul Kango<sup>4</sup>, Nancy A Scott<sup>2</sup>, Allison Juntunen<sup>2</sup>, Martina N. Musonda<sup>5</sup>, Hannah Wincklhofer<sup>2</sup>, Paul Bwathondi<sup>1</sup>, Lloyd Matowe<sup>4</sup>, Peter Lukonde<sup>5</sup>, Emmanuel Nfor<sup>1</sup>

<sup>1</sup>USAID Medicines, Technologies, and Pharmaceutical Services (MTaPS) Program, <sup>2</sup>Department of Global Health, Boston University School of Public Health, <sup>3</sup>World Health Organization Collaborating Center in Pharmaceutical Policy, <sup>4</sup>Pharmaceutical Systems Africa, <sup>5</sup>Ministry of Health, Zambia

### [P19] Pharmaceutical System Strengthening for Self-reliant Health Supply Chains. (117)

Kofi (Francis) Aboagye-Nyame<sup>1</sup>, Kate Kikule<sup>1</sup>, Emmanuel Nfor<sup>1</sup>, Andrew N. Brown<sup>1</sup>, Tamara Hafner<sup>1</sup>

<sup>1</sup>USAID Medicines, Technologies, and Pharmaceutical Services (MTaPS) Program

### [P20] National Product Catalog and PCMT. (119)

Josh Zamor<sup>1</sup>, Christine Lenihan<sup>1</sup>, George Githae<sup>1</sup>

<sup>1</sup>VillageReach

Abstract #	Poster #						
10	1	56	6	77	11	108	16
14	2	55	7	83	12	115	17
30	3	59	8	84	13	116	18
47	4	60	9	89	14	117	19
49	5	63	10	101	15	119	20



# **Day 1: November 14 – SIDE EVENTS**

4:45 - 6: 00 PM

Side Event: Sanofi Global Health Sponsored Panel [Location: Block 300 Tent]

# Governments Preparedness and Access to Funding for the Development of Local Manufacturing Towards Better Health Products Access



Moderator: Kamogelo Mampane, Africa Resource Centre

This session aims at promoting knowledge and experiences sharing between countries on resource mobilization for strengthening of regulatory systems for medicines, including raising resources for capacity building of national medicines regulatory authorities (NMRAs) as they pursue level 3 and 4 maturity levels under the WHO Global Benchmarking Standards.

The objective of the session is to convene Ministries of Health (NMRAs) of countries that have engaged in local manufacturing projects for knowledge sharing to address their challenges and identify potential solutions.

#### Panelists:

- 1. Dr F. M. Siyoi, Chief Executive Officer of the Pharmacy and Poisons Board, Kenya
- 2. M Thibaud Lefort, Director of Operations, Sanofi Global Health Unit
- 3. Salvator Sindavigaya, Director of Human Medicines, Burundi Food and Medicines Regulatory Authority, ABREMA
- 4. Dr Segbehin Bie Berger Wankpo, Director Health Projects and Programmes, Central Medical Store for Essential Medicines (CAMEG), Togo
- 5. Dr M Siyanga, Director General, Zambia Medicines Regulatory Authority (ZAMRA),
- 6. Miss Chimpaye Julius Ndabatinya, Tanzania Medicine and Medical Devices Authority (TMDA)

### <u>Side Event: ISG/FF Session on New Era of the InterAgency Supply Group and Donor Coordination</u> [Location: Ivory Room]

Moderator: Maeve Magner, MM Supply Chain Management Advisory Services and Dr. Ines Pozas Franco, Baringa

In the last decade, the international donor community has recognized the importance of supply chains for delivering global health programmes. However, in light of declining aid budgets and urgent calls for investment across a range of other crisis-mitigating areas, how can the global public health supply chain community ensure continued support and maximize cost effectiveness?

Our session will have the objectives of:

- Explain and sensitize the global health supply chain industry, government representatives, donors and implementing partners to governance changes and the more 'open access' strategy of the ISG, the only cross commodity, cross program PSM coordination group, as well as the envisaged role of the Funders Forum.
- Invite perspectives from attendees on the role that the ISG can play in the evolution towards more equitable, resilient, and country-owned global public health supply chains.
- Encourage the global health PSM actors to participate in the new governance model envisaged both for short and mid-term cost effectiveness and to contribute to long term global health supply chain strategy.



# **Day 2: November 15 – SIDE EVENTS**

### 10:45 AM - 12: 00 PM

**Side Event: WHO on Global Drug Shortages** [Location: Jambo Room 1]

Addressing Shortages and Stockouts of Essential Medicines – World Health Organization Shortages Notification Portal (SNP)

Moderator: Lisa Hedman, Special initiatives, Access to Medicines and Health Products, World Health Organization

Medicine shortages and stockouts of essential medicines are a serious concern and were severe during the COVID-19 pandemic. One of the issues in managing and preventing shortages is visibility of the problem. As part of the response to the resolution WHO69.25 "Addressing the global shortage of medicines and vaccines", World Health Organization piloted a web-based reporting mechanism. Based on lessons from the pandemic experience, the approach used in the portal is being modified.



This session will be inter-active and focused on open dialogue to inform a revised reporting mechanism, including:

- Supply chain resilience in addressing shortages
- Demonstration and training of the SNP
- Develop a more inclusive reporting mechanism reflective of low- and middle-income country needs



# **Day 2: November 15 – SIDE EVENTS**

4:45 - 6: 00 PM

**Side Event: PICMA Sponsored** [Location: Jambo Room 3]

How Local Private Entities are Expediting Self-reliance by Bridging the Sector Gap, Embracing Innovation, and Investing in Partnerships to Deliver Good Ghealth and Well-being



Moderator: Dr. Lloyd Matowe, Pharmaceutical Systems Africa (Liberia, Nigeria, & Zambia)

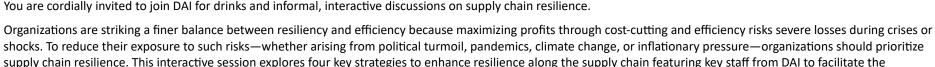
Join PICMA for afternoon cocktails and snacks to meet local and regional organizations as they share how they have innovated to grow and expand access to health products and services. Organizations span local and regional manufacturing, import, export and customs clearance services, health product wholesaling, last mile track and trace, retail and online pharmacy chains and point of sale systems. Presenting participants include MYDAWA, Five Star Pharmacy, Maisha Meds, United Healthcare Distributors, Transtar Logistics, and NewPharmaCo Africa.

**Side Event: DAI Sponsored** [Location: Block 300 Tent]

**Discussions on Supply Chain Resilience** 

Moderator: Kim Shelsby, DAI

You are cordially invited to join DAI for drinks and informal, interactive discussions on supply chain resilience.



Diversify the supply chain workforce

Consider "onshoring"

discussion:

- Improve upstream and downstream visibility
- Promote social and environmental responsibility





# Day 2: November 15, 2023 - SIDE EVENTS (continued)

Panel: Is there a "Cost" buying from African Manufacturers (20) Location: Jambo Room 1

Moderator: René Berger, Senior Technical Director, Management Sciences for Health

This panel will build off on-going work to compare the COGS for products manufactured inside and outside of Africa and discuss the current understanding with regards to cost, market trends, and the direction donors/procurers and manufacturers should be going to better understand the market for key product categories across Africa.

The panelists: This is a diverse panel with expertise in market dynamics, procurement, and supply chain logistics as well as a deep understanding of the trends across pharmaceutical manufacturers with particular regard to pricing:

### Panelists:

- 1. Ademola Osigbesan, Unitaid
- 2. Prashant Yadav, CGD/INSEAD
- 3. Ciru Miring'u, Imperial Managed Solutions
- 4. Ann-Marie Hosang-Archer, Lignum Vitae Health





# Day 3: November 16, 2023 – (PARALLEL) SITE VISITS [Prior sign up required]

1:45 - 5:00 PM

### **Universal Corporation Limited (UCL)**

UCL is one of the premier local manufacturing companies in Kenya. It currently manufactures over 100 formulations of Human medicines, including tablets, capsules, ointments, creams & powder (ORS). The company's products are utilised are utilised in Kenya as well as other African countries such as Malawi, Mozambique, Zambia, Burundi, Rwanda, Congo, DRC, Sierra Leone, Somalia, Angola, Tanzania & Uganda.

Delegates will appreciate systems and workflows in pharmaceutical manufacturing; and how these are coordinated produce quality and affordable products.

Additionally, through discussions, the delegates will appreciate issues and opportunities in local manufacturing as one of the key pillars for driving Universal Health Coverage (UHC) in Kenya.

Structure is presentation by the CEO and then tour of the facility in groups of 6 stewarded by different senior managers.

Location: Kikuyu, Kiambu County [Estimated travel time from Safari Park Hotel, the venue of the GHSC Summit, to UCL is 45 minutes.]

**Delegates:** 25 delegates

## Mission for Essential Drugs Supplies (MEDS)

Mission for Essential Drugs and Supplies (MEDS) offers procurement, warehousing, logistics and distribution services for health commodities and technologies. It also offers quality assurance services.

Delegates will appreciate issues and opportunities in procurement, warehousing and distribution of health commodities and technologies. In particular, they will appreciate linkages between central medical stores and facilities in terms of planning, forecasting, ordering and deliveries management, utilisation of technology for visibility and network optimisation.

Structure is site tour followed by a presentation and discussions.

Location: Mombasa Rd, Nairobi [Estimated travel time from Safari Park Hotel, the venue of the GHSC Summit to site is 60 minutes.]

**Delegates:** 25 delegates

# **Chandarana Supermarkets Limited**

Chandarana Foodplus Supermarkets operates twenty-six branches in Nairobi, Kisumu, Eldoret, Nakuru, Naivasha, Nanyuki, Nyali, Changamwe and Diani. It is known for quality and variety of food supplies as well as competitiveness of prices.

Delegates will appreciate systems and workflows that enable retail supply chains in demand forecasting, grocery replenishments for improved availability, reduced waste and efficiency; efficient inventory management at the retail centres; planning for optimal capacity and resource utilisation; harnessing technology; managing multiple suppliers and sustaining direct to store model.

Suggested structure is a presentation at the head office followed by a visit one of branches.

[Estimated travel time from Safari Park Hotel, the venue of the GHSC Summit to the site is 50 minutes.]

**Delegates:** 25 delegates



### **PLENARY SPEAKERS**

### Hon. Nakhumicha S. Wafula, Cabinet Secretary for Health, Kenya



Ms. Nakhumicha leads the health sector in Kenya with a focus on accelerating the achievement of Universal Health Coverage. She is a seasoned health supply chain professional with more than 15 years of global and multicultural experience in Agile and Intelligent Supply Chain and Operations in the healthcare industry. Prior to her appointment to President Ruto's government, she served as Head of Supply for University of California San Francisco (UCSF) Global Program for Research and Training. She has served in various capacities in KEMSA, MEDS as well as in several

private hospitals in Kenya. She holds a Masters in Procurement and Logistics and Supply Chain Management as well as diplomas in Pharmacy and Healthcare Management.

### His Excellency, Muthomi Njuki, Governor Tharaka Nithi County & Chairperson, COG Health Committee



H.E Muthomi Njuki is the second and current Governor of Tharaka Nithi County. He is also the Chairman of COG Health Committee. Before being elected Governor, he served as the Chuka/ Igambang'ombe Member of Parliament from 2013 to 2017. He is very passionate about entrepreneruship where he has mentored many young people in business acumen. He enjoys outdoor games and has a particular interest in rugby, which he not only enjoys playing but has also coached.

### Dr. Abdourahmane Diallo, WHO Country Director for Kenya



Dr. Abdourahmane Diallo is the World Health Organization's Representative to Kenya. Before his current role, he was the Chief Executive Officer of the RBM Partnership to End Malaria. Prior to that he served as Minister of Health of the Republic of Guinea. He has helped develop health and supply chain systems in more than 20 African, Caribbean, and Asian countries. He is a medical doctor and earned a master's degree in International Public Health from Johns Hopkins University.

### Dr Priya Agrawal, Senior VP of Intentional Markets, Merck



Dr. Agrawal trained as an obstetrician and gynecologist in the UK. She previously served as Executive Director of Merck for Mothers and as Director of Research and Development for the Women and Health Initiative at the Harvard School of Public Health. She served as Chief Behavioral Science Officer for Global Vaccines at Merck during the COVID-19 pandemic. Before that, she led the African business for Merck, and launched the Vaccines and Women's Health business unit in the UK. She started at Merck over nine years ago to launch the company's signature initiative, Merck for Mothers. Prior to Merck, she worked as a clinician, an academic, led digital healthcare innovations at Harvard, was technical advisor

to WHO, and was a social entrepreneur — a portfolio career always fueled by her singular purpose: Ensuring that girls and women have voice and choice, so they can fulfill their potential and lift up society. In 2015 she was honored with the Forbes Impact Award in Brain Powered Advocacy.

### Dr. Amit Thakker, Chairman, Africa Health Business



A visionary entrepreneur and an industry captain, Dr. Amit N. Thakker, has been a ground-breaking pioneer in the integration of private sector within the healthcare system in Africa. Dr. Thakker actively supports governments, corporates, health organisations and development partners to foster effective public-private partnership initiatives towards improved health outcomes.

He is the executive chairman of Africa Health Business, a health consultancy, advisory and investment firm that aims to improve access to quality affordable healthcare in Africa. He is also the president of Africa Healthcare Federation, chairperson of the Kenya Health Professionals Oversight Authority, and the

former chairman of Kenya Healthcare Federation. He has served as a director at LumiraDx, Seven Seas Technology Group, AMREF Flying Doctors Action Aid, East African Health Platform and East African Business Council. As an active member of several institutions including international business group YPO Gold (Nairobi Chapter), Dr. Thakker also chairs the University of Nairobi Alumni Medical Chapter and serves as an Advisor/Director to AAIC Investment PTE. Ltd, Coalition for Blood in Africa (CoBA), United Asian Network (UAN), Ghanima Ltd, Kenya Private Sector Alliance (KEPSA) and Ministry of Health, Kenya.

Dr. Thakker founded Avenue Healthcare, a Kenyan based integrated private health service provider in 1995 which led him to receive the "Best Male Entreprenuer of the Year" award by Rotary International in 1999. He has served as the CEO for Amini Management Ltd, Africa Medical Investments plc, Momentum Kenya leading him to win "Best CEO" award by Titans Global in the Business and Professional services category in 2017 and proudly received the Chairman's Award for Kenya Medical Association in 2004.

### **Program Committee**

- [Chair] Professor Ravi Anupindi, University of Michigan, Ann Arbor, MI (USA)
- Dr. Anton L.V. Avanceña, University of Texas, Austin (USA)
- Professor Sriram Dasu, University of Southern California, Los Angeles, CA (USA)
- Ms. Celsa Muzayire Gaju, Chief Operations Officer, Rwanda Medical Supply Ltd., Kigali City (Rwanda)
- Professor Jérémie Gallien, London Business School, London (UK)
- Steven Harsono, Head of Public Health, Asia Pacific, IQVIA (Singapore)
- Hitesh Hurkchand, Senior Child Health and Immunization Program Manager, USAID (USA)
- Dr. Lloyd Matowe, Pharmaceutical Systems Africa (Liberia, Nigeria, & Zambia)
- Mr. Ibnou Khadim Diaw, co-Chief Executive Officer, Africa Resource Center, Africa
- Dr. Thidiane Ndoye, Task Order Director, Population and Reproductive Health, GHSC-PSM, Chemonics (USA)
- Janamarie Perroud, PhD Candidate, School of Public Health, University of Michigan, Ann Arbor (USA)
- Ms Azuka Okeke, CEO, Africa Resource Center for Excellence in Supply Chain Management (Nigeria)
- Dr. Noel Watson, OpsMend (USA)
- Dr. Prashant Yadav, Senior Fellow, Center for Global Development (USA) and Affiliate Professor,
- INSEAD (France)

### **Local Committee**

- Dr. Samuel Nyingi, Africa Resource Centre, Nairobi
- Lynda Achieng, Africa Resource Centre, Nairobi

### **Administrative Support & Student Volunteers**

- Ms. Susan (Sue) Booth, Department of Technology & Operations, Ross School of Business, University of Michigan, Ann Arbor (USA)
- Ms. Oyepeju (Peju) Ogundipe, MBA student, Ross School of Business, University of Michigan, Ann Arbor (USA)
- Ms. Avery Waite, MBA student, Ross School of Business, University of Michigan, Ann Arbor (USA)
- Ms. Aashna Pradhan, School of Public Health, University of Michigan, Ann Arbor (USA)

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# **GOLD**











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<b>EXHIBITORS</b>	CARISCA ~ Maisha Meds ~ SureChill ~ Zipline
SUPPORTER	Empower Health (Supporting travel for site visits)