

15th Annual GHSCS 2022 - Dakar, Senegal

November 30, December 1 & 2, 2022

Location: Centre International de Conférences Abdou Diouf (CICAD)

Re-Imagining Health Supply Chain and Systems for Equity, Resiliency and Country Ownership

Welcome to the 15th Global Health Supply Chain Summit (GHSCS). Looking beyond the pandemic, it is now being widely recognized that health systems, and supply chains supporting them, need to be transformed to address health issues in a holistic and integrated manner ensuring equitable access and increasing self-sufficiency. We need to develop next generation resilient health systems and the supply chains that support them, leveraging **partnerships, bottom-up innovations, financing, workforce, and governance models to ensure equitable access to healthcare for all.** A holistic and systems-based approach towards health systems and supply chains is needed to ensure end-to-end service delivery supporting diagnostics, essential medicines, and health care products to address current health issues as well as the growing burden of non-communicable diseases. The summit features keynote / plenary speakers, panel sessions, contributed talks and poster sessions to explore these issues.

GUIDE TO DETAILED AGENDA

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Agenda at a Glance

Day 1 (November 30)			
7:45 – 8:45 am	Registration		
9:00 – 9:15 am	Welcome to GHSCS 2022: Dr. Ravi Anupindi <i>Location: Oval Room</i>		
9:15 – 9:35 am	Welcoming Speech: Dr. Marie Khemesse NGOM NDIAYE , Honorable Minister of Health and Social Action, Senegal <i>Location: Oval Room</i>		
9:40 – 10:10 am	Plenary Speaker 1: Dr. Amadou Alpha Sall , Executive Director, Institut Pasteur de Dakar <i>Location: Oval Room</i>		
10:15 – 10:45 am	Coffee Break - Foyer		
10:50 – 12:00 pm	Panel 1: Ecosystem services to support pharma manufacturing in Africa <i>Location: Oval Room</i>	Panel 2: Exploring health service delivery for diabetes in low- and middle-income countries <i>Location: Room 201/202</i>	
12:00 – 1:15 pm	Lunch – CICAD 'Baobab' OR Radisson 'Teranga'		
1:30 – 2:45 pm	Track 1 (Prize Presentations) <i>Location: Oval Room</i>	Track 2 <i>Location: Press Room</i>	Track 3 <i>Location: Room 201/202</i>
2:45 – 3:15 pm	Coffee Break - Foyer		
3:15 – 4:30 pm	Track 5 (Prize Presentations) <i>Location: Oval Room</i>	Track 6 <i>Location: Press Room</i>	Track 7 <i>Location: Room 201/202</i>
4:45 – 6:00 pm	Track 9 <i>Location: Press Room</i>	Track 10 <i>Location: Room 201/202</i>	Track 11 <i>Location: Room 205</i>
6:30 – 8:30 pm	Cocktail: Radisson Dakar Diamniandio		

Day 2 (December 1)			
9:00 – 9:30 am	Plenary Speaker 2: Ms. Rebecca Stevens Alder Head of Global Public Health Partnerships and International Public Affairs, Sanofi <i>Location: Oval Room</i>		
9:40 – 10:45 am	Panel 3: Advancing healthcare supply chain innovation in Africa to serve public health needs <i>Location: Oval Room</i>	Panel 4: Enhanced access to public health commodities through harmonized regulatory processes <i>Location: Room 201/202</i>	
10:45 – 12:00pm	Coffee Break - Networking Poster Session; Main Hallway Sponsor Exhibits: Oval Room		
12:00 – 1:20 pm	Lunch – CICAD 'Baobab' OR Radisson 'Teranga'		
1:30 – 2:45 pm	Track 13 <i>Location: Room 205</i>	Track 14 <i>Location: Press Room</i>	Track 15 <i>Location: Room 201/202</i>
2:45 – 3:15 pm	Coffee Break		
3:20 – 3:50 pm	Plenary Speaker 3: Faustine Mukena , CEO, Africa Resource Centre <i>Location: Oval Room</i>		
4:00 – 4:30 pm	Announcements: GHSCS Prize Competition and Research Challenge; <i>Location: Oval Room</i>		
4:30 – 5:00 pm	Closing Remarks; <i>Location: Oval Room</i>		

Day 3 (December 2)			
9:00 – 10:30 am	TUTORIAL 1: Outsourcing Toolkit (J&J Global Health + ARC) <i>Location: Room 205</i>	TUTORIAL 2: Business on the Move- Humanitarian Edition (HELP Logistics) <i>Location: Room 201/202</i>	9:00 – 12:00 pm ROUNDTABLE: Leveraging the private sector to strengthen public health supply chain: Focusing on country priorities (Organized by ARC West Africa) <i>Location: Oval Room</i>
10:30 – 11:00	Coffee Break		
11:00 – 12:30 pm	Tutorial 1 (Repeat)	Tutorial 2 (Repeat)	
12:30 - 1:45 pm	Lunch CICAD 'Baobab'		

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

Day 1: November 30, 2022

Tracks 1-4 1:30 – 2:45 pm

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

<p>Track 1 PRIZE PRESENTATIONS A</p> <p>Location: Oval Room</p>	<p>[1.1] Ethiopian Pharmaceuticals Supply Service (EPSS) Center of Excellence (CoE) program implementation, achievements and lessons learned (P1)</p> <p>Abdulkadir Geligelo^{1,*}, Tariku Beyene¹, Dufera Nigisa¹, Alemayehu Lemma Wolde¹, Jeff Sanderson², Eugene Coetzee³</p> <p><i>¹Ethiopian Pharmaceutical Supply Service, ²JSI, ³PICMA/Celsian Consulting</i></p>	<p>[1.2] Improving health delivery outcomes in Uganda through continuity of essential health services (CEHS) with focus on immunization (P2)</p> <p>Jimmy Ameny^{1, *}, William Musubire², Emmanuel Okurut³, Jacqueline Anena⁴, Jon Biasco⁵, Christine Lanyero¹</p> <p><i>¹Ministry of Health-Uganda, ²National Medical Stores, ³Clinton Health Access Initiative, ⁴PATH, ⁵UNICEF</i></p>	
<p>Track 2 Equitable Access to Vaccines</p> <p>Location: Press Room</p>	<p>[2.1] Parsyl: Health system strengthening in Senegal to support equitable global vaccine distribution, protect investments, and support economic recovery (29)</p> <p>Souleymane Sawadogo¹, Amy Lo N'diaye²</p> <p><i>¹Parsyl, ²Vaccine Logistics, EPI Senegal Ministry of Health</i></p>	<p>[2.2] Vaccine supply forecasting by private health providers serving urban poor communities (12)</p> <p>Dauda Majanbu¹, Mariam Zameer¹</p> <p><i>¹VillageReach</i></p>	<p>[2.3] Systems analysis of regional vaccine manufacturing and supply capabilities: coping with future public health emergencies (55)</p> <p>Donovan Guttieres¹, Catherine Decouttere¹, Nico Vandaele¹</p> <p><i>¹KU Leuven</i></p>
<p>Track 3 Last-Mile Delivery</p> <p>Location: Room 201/202</p>	<p>[3.1] Last Mile Delivery intervention in Kenya (2019-22) (7)</p> <p>Jeniffer Adungosi¹, Edward Mumbo², Anthony Ngatia¹, Raj Sachdev¹, Justin Graves¹</p> <p><i>¹Clinton Health Access Initiative, ²Ministry of Health, Kwale County</i></p>	<p>[3.2] Rethinking supply chain interdependence: A last-mile distribution case study from Senegal (3)</p> <p>Jemina Harry¹, Fatime Yacine Ndao¹, Ibnou Khadim Ndaw¹</p> <p><i>¹Africa Resource Centre</i></p>	<p>[3.3] A race to eradicate polio: What does logistics have to do with it? (59)</p> <p>Sierra Petrosky¹, Kameko Nichols², Patrice Tshkoya¹, Luciana Maxim¹</p> <p><i>¹Village Reach, ²Independent Consultant</i></p>

Track 4

PANEL by CHEMONICS

Location: Room 205

Leveraging the private sector, data, and innovative solutions to reach the last mile

Moderator: Rebecca Logan, SVP, Country Programs Manager, Chemonics

Brief Description: Join us for a lively exploration of keys to successful last mile delivery of health commodities in LMICs. Rebecca Logan, SVP in Chemonics's Health Supply Chain Business Line will engage panelists, delving into best practices explored in GHSC-PSM's recent white paper, [Driving Last-Mile Solutions to Ensure Access to Public Health Commodities](#). Building on GHSC-PSM's successes in delivering health commodities to the last mile, Rebecca will invite private sector as well as public sector health supply chain practitioners to discuss what last mile delivery means within the health space in LMICs and how they have overcome challenges to reach clients. The main themes of this session include:

- Last-mile delivery to meet clients where they are
- Data visibility and use to ensure commodity availability at the last mile
- Use of advanced analytics to inform decisions for last mile commodity availability
- Promoting local ownership to ensure last mile sustainability
- Increasing participation of the private sector to promote localization and deliver to the last mile

Panelists:

- Deo Kimera, GHSC-PSM Country Director, Ghana
- Khoudia Diop, Area Sales Manager, Northern West Africa, Maersk
- Jef Imans, Connexi
- Dr Arinaitwe Ivan, Senior Program Officer – Differentiated Service Delivery (DSD), Ministry of Health, Uganda

Day 1: November 30, 2022

Tracks 5-8 3:15 – 4:30 pm

Live French translation is available. Un interprète est disponible.

<p>Track 5 PRIZE PRESENTATIONS B</p> <p>Location: Oval Room</p>	<p>[5.1] Utilizing data visibility through a digital dashboard to optimize access to cancer medications in Kenya (P3)</p> <p>Kennedy Muygambi¹, Joyfrida Chepchumba², Valerian Mwenda², Mary Nyangasi², Patricia Nijiri¹, Vivienne Mulema¹, Khanyisa Miat¹</p> <p>¹Clinton Health Access Initiative, ²National Cancer Control Programme, Ministry of Health, Kenya</p>	<p>[5.2] Switching Support for Strengthening Health Commodity Supply Chain System in Myanmar (P4)</p> <p>Cho Cho Mya^{1,*}, Hnin Hnin Aye¹</p> <p>¹ Zenith Technical Resource Initiative</p>	
<p>Track 6 Addressing Workforce Challenges</p> <p>Location: Press Room</p>	<p>[6.1] Gender equity and social inclusion in global health supply chains: Opportunities and challenges (11)</p> <p>Miranda Buba Atare¹, Matiko Machagge², Taroub Faramand³, Nicole Danfakha¹</p> <p>¹JSI, ²inSupply Health LTD, ³WI-HER</p>	<p>[6.2] Catalyzing multisectoral partnerships to advance supply chain professionalization (9)</p> <p>Dauda Majanbu¹, Rebecca Alban¹</p> <p>¹VillageReach</p>	<p>[6.3] Investigating the effectiveness of gamification on health supply chain operations knowledge and practice (52)</p> <p>John Serbe Marfo¹, Adegoke Oke², Afia Frimpomaa Asare Marfo¹, Thomas Kull², Dale Rogers², Nathaniel Boso¹, Bridget McHenry³, Sharmila Raj³</p> <p>¹Kwame Nkrumah University of Science and Technology, ²Arizona State University, ³USAID</p>
<p>Track 7 Improving Access to Medicines</p> <p>Location: Room 201/202</p>	<p>[7.1] The Drug Revolving Fund Scheme: A catalytic intervention for improving access to medicines in Nigeria (81)</p> <p>Mariya Saleh¹, Olumide Oyebamiji¹</p> <p>¹USAID GHSC-PSM project in Nigeria</p>	<p>[7.2] Using decentralized drug distribution from private pharmacies to reach HIV treatment goals in Mozambique (75)</p> <p>Feliciano Cumaquela¹, Ivandra Libombo², Joao Teixeira¹</p> <p>¹GHSC - PSM– Mozambique., ²CNAM, Mozambique</p>	<p>[7.3] Community Retail Pharmacy Drug Distribution Points (CRPDDP) to improve Differentiated Service Delivery (DSD) outcomes in Uganda (53)</p> <p>Hudson Balidawa¹, Ivan Arinaitwe¹, LeBeau Taljaard², Paul Bitarabebo², Kevin Gibbons²</p> <p>¹Uganda Ministry of Health, ²Africa Resource Centre</p>

<p>Track 8</p> <p>Health System Resilience</p> <p>Location: Room 205</p>	<p>[8.1] Restoring health supply chain in conflict-affected health facilities through a holistic conventional and emergency supply chain intervention (80)</p> <p>Fikreslassie Alemu Kibret¹, Edmealem Ejigu¹, Tesfaye Seifu¹, Fekadu Abebe¹, Habtamu Tesfaye¹, Hunegnaw Gebrechristos¹, Bekele Ashagire², Regasa Bayissa³, Solomon Nigussie⁴, Eshetie Shumie⁴, Abdulkedir Gelgelo⁴</p> <p>¹USAID GHSC-PSM project in Ethiopia, ²USAID, ³Ministry of Health Ethiopia, PMED, ⁴Ethiopian Pharmaceutical Supply Service</p>	<p>[8.2] Supply chains for health emergencies: the Cote d'Ivoire case study (24)</p> <p>Bibi Kenta¹, Nils Van Wassenhove¹,</p> <p>¹WFP</p>	<p>[8.3] Towards universal health coverage: Strengthening healthcare supply chain resilience to mitigate the impact of epidemics (27)</p> <p>Timna Eckschmidt¹, Maria Besiou¹, Caspar Hoeyng¹, Jonas Stumpf²</p> <p>¹Kühne Logistics University, ²HELP Logistics</p>
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Day 1: November 30, 2022

Tracks 9-12 4:45 – 6:00 pm

Live French translation is available. Un interprète est disponible.

<p>Track 9 Bottom-Up Improvements</p> <p>Location: Press Room</p>	<p>[9.1] Enhancing the adoption of global guidance for ISC through an HCD approach (10) Nicole Danfakha¹, Choice Okoro², Gamariel Simpungwe³, Wendy Prosser¹, Brittany Thurston⁴, Timoteo Chaluco⁵, Swetha Srinath⁵, Ladislav Cervenka²</p> <p>¹JSI, ²CHAI, ³John Snow Health Zambia, ⁴ThinkPlace, ⁵Village Reach</p>	<p>[9.2] Establishing a sustainable supply chain mechanism to ensure the availability of quality uterotonics in Kano, Lagos, and Niger states through a human-centered design approach (43) Olamide Akintibubo¹, Paulette Ibeka², Uchenna Igbokwe¹</p> <p>¹Solina Health, ²Clinton Health Access Initiative</p>	<p>[9.3] The Impact of IMPACT Teams in communities living in arid and semi-arid lands in Kenya (23) Peter Mwenda¹, Bernice Undisa¹, Danielson Onyango¹</p> <p>¹inSupply Health</p>
<p>Track 10 LMIS from Planning to Delivery</p> <p>Location: Room 201/202</p>	<p>[10.1] Benin's Electronic Logistics Information and Management System (eLMIS) (38) Ghislaine Djidjoho¹</p> <p>¹Chemonics International</p>	<p>[10.2] The effect of the electronic Logistic Management Information System (LMIS) on health services quality, Ethiopia (28) Tadesse Alemu¹, Sami Tewfik¹, Netsanet Nigussie¹, Rahel Yitbarek¹, Loko Bongassie¹, Tariku Bogale¹</p> <p>¹John Snow, Inc/Digital Health Activity</p>	<p>[10.3] The NHLMIS control tower - a template for public health supply chain integration, resilience and country ownership (63) Fatima Alfa Abu¹, Victoria Shoyombo¹</p> <p>¹Field Technology Development Partners</p>
<p>Track 11 Improving Access to Medicines</p> <p>Location: Room 205</p>	<p>[11.1] Import status of registered medicines and its associated factors: Pharmaceutical importers' perspective (66) Dawit Teshome Gebregeorgise¹, Abebaw Gesese Minikes¹, Bruck Messele Habte¹</p> <p>¹Addis Ababa University</p>	<p>[11.2] Rebuilding supply chains using a data and systems based agile approach; the case for Ghana post pandemic supply chain transformation (41) Philip Lule¹</p> <p>¹S4D Consulting</p>	<p>[11.3] Improving access to medicines with control tower and data analytics in the last mile in Burundi (42) Nevashini Gounden¹, Ed Monchen¹, Anuschka Veldhuis¹, Katie Johnson¹</p> <p>¹i+solutions</p>

Track 12

**PANEL by UPDWG:
Drone transport
enables equitable
and resilient supply
chains**

Track Facilitator:
Dr. Olivier Defawe –
Founder & Co-
Facilitator of the UAV
for Payload Delivery
Working Group
(UPDWG)

Location: Oval Room

**[12.1] Supply chain innovation in
global health: How an end-to-end
solution is changing health access in
Ghana (2)**

Pedro Kremer¹, Alexandra Angel¹

¹*Zipline*

**[12.2] Routine and on-demand
medical drone delivery to remote,
hard-to-reach communities in DR
Congo (DRC): Endline evaluation
results (57)**

Luciana Maxim¹, Louis Tshituka¹, Joel
Nkiama Konde², Gabriel Kyomba
Kalombe², Nicole Hoff³, Archimede
Makaya¹

¹*VillageReach*, ²*Kinshasa School of Public
Health*, ³*UCLA – DRC Research Program*

**[12.3] Cost and cost effectiveness
evaluation for drone delivery of
immunization products to hard-to-
reach health facilities in the
Democratic Republic of Congo (83)**

Gabriella Ailstock¹, Archimede
Makaya¹, Noel Watson²

¹*VillageReach*, ²*OpsMend*

Day 2 – ORAL PRESENTATION SCHEDULE *(Abstract number in parentheses after title)*

Day 2: December 1, 2022

Tracks 13-16 1:30 – 2:45 pm

Live French translation is available. Un interprète est disponible.

<p>Track 13</p> <p>Re-imagining supply chains</p> <p>Location: Room 205</p>	<p>2021 Global Research Challenge Recipient Presentation</p> <p>[13.1] Assessment of supply chain management practices during HIV guideline transitions: Evaluation of Ghana’s Recent Transition (84)</p> <p>Kwadwo Koduah Owusu¹, Marijanatu Abdulai¹, Raphael Adu-Gyamfi¹, Damaris Forson², Emmanuel Sefah Boakye-Yiadom², Edinam Amegashie², Deo Kimera², Stephen Ayisi Addo¹</p> <p>¹<i>Ghana Health Service, National AIDS Control Program, Accra, Ghana, ²Global Health Supply Chain Program-Procurement and Supply Management Project (GHSC-PSM), Ghana</i></p>	<p>[13.2] Using Adaptive Learning to enhance the COVID-19 Vaccines Collaborative Supply Planning initiative in 15 countries (58)</p> <p>Janet Makena¹, Laila Akhlaghi²</p> <p>¹<i>inSupply Health Ltd., ²John Snow Inc</i></p>	<p>[13.3] Advancing country ownership: balancing competing stakeholder priorities - lessons from Malawi (82)</p> <p>Clinton deSouza¹</p> <p>¹<i>PICMA Africa Ltd</i></p>
<p>Track 14</p> <p>Data-driven supply chains</p> <p>Location: Press Room</p>	<p>[14.1] Dashboard and scorecard mobile applications: Health facility adapted decision-making tools to motivate health providers in the use of their collected information to monitor health services and commodities (17)</p> <p>Moussa Ly¹, Steve Ollis¹, Gupta Lavanya², Leontine Gnassou¹, Fanor Joseph¹</p> <p>¹<i>John Snow Inc, ²Univ. of North Carolina</i></p>	<p>[14.2] STRIATA: Artificial intelligence technology for the health supply chain to predict and prepare (19)</p> <p>Ruth M’kala¹, Brittany Hume Charm¹, Jeni Stockman¹</p> <p>¹<i>Macro-Eyes</i></p>	<p>[14.3] STRIATA Forecast: Artificial Intelligence to forecast the utilization of medical commodities (20)</p> <p>Ruth M’kala¹, Emma Delmotte¹</p> <p>¹<i>Macro-Eyes</i></p>

<p>Track 15</p> <p>Improving Health Commodity Security</p> <p>Location: Room 201/202</p>	<p>[15.1] Commodity security and considerations for new product introduction: A case of DMPA-SC in Kenya (44)</p> <p>Johnson Anyona¹, Judith Anyona¹, Carmit Keddem², Ebony Easley²</p> <p>¹<i>inSupply Health</i>, ²<i>John Snow Inc</i></p>	<p>[15.2] Innovations in contraceptive packaging to drive supply chain efficiencies and commodity security (76)</p> <p>Priyanka Mysore¹, Morgan Simon¹, Ashley Smith², Cristina Palau³, Jens Rasmussen⁴</p> <p>Presenter: Thidiane Ndoye¹</p> <p>¹<i>USAID Global Health Supply Chain Program-Procurement and Supply Management (GHSC-PSM) project</i>, ²<i>USAID</i>, ³<i>Unfpa</i>, ⁴<i>Missionpharma A/S</i></p>	<p>[15.3] The trial of the Traceability and Verification System (TRVST) in Nigeria and Rwanda: A Secure and scalable system to reduce the risk of counterfeit health products in national supply chains (6)</p> <p>Jose Edouard Munyangaju¹, John Kayode², Max Kabalisa³, Enric Jané⁴</p> <p>¹<i>Rwanda FDA</i>, ²<i>NAFDAC</i>, ³<i>UNICEF</i>, ⁴<i>Vital Wave</i></p>
<p>Track 16</p> <p>Location: Oval Room</p>	<p>PANEL by ARC: Health products distribution in high-risk zones</p> <p>West Africa is making impressive progress in economic growth, democratization, and regional cooperation. While the recent rise in violence and conflict as well as flooding, extremism, terrorism, and other emerging threats have sparked concerns over its future development, efforts to prevent conflicts have also improved, contributing to overall stability. Despite the mitigation efforts, these risks continue to impact health product distribution and quality healthcare particularly at the community level, hence there is a need to converge several health system stakeholders to reflect and discuss holistic ways through which challenges posed from distribution to high-risk zones can be addressed.</p>		

Abstract # to Track Mapping

Abstract #	Track
2	12.1
3	3.2
6	15.3
7	3.1
9	6.2
10	9.1
11	6.1
12	2.2
17	14.1
19	14.3

Abstract #	Track
20	14.2
23	9.3
24	8.2
27	8.3
28	10.2
29	2.1
38	10.1
41	11.2
42	11.3
43	9.2

Abstract #	Track
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52	6.3
53	7.3
55	2.3
57	12.2
58	13.2
59	3.3
63	10.3
66	11.1
75	7.2

Abstract #	Track
76	15.2
80	8.1
81	7.1
82	13.3
83	12.3
84*	13.1
Prize Talk 1	1.1
Prize Talk 2	1.2
Prize Talk 3	5.1
Prize Talk 4	5.2

*2021 Research Challenge Recipient

Color-coding Legend

Day 1 (Nov. 30), Tracks 1-4, 1:30 – 2:45 pm
Day 1 (Nov. 30), Tracks 5-8, 3:15 – 4:30 pm
Day 1 (Nov. 30), Tracks 9-12, 4:45 – 6:00 pm
Day 2 (Dec. 1), Tracks 13-16, 1:30 – 2:45 pm

Day 2 – POSTER PRESENTATIONS

Day 2: December 1, 2022

[P1] Assessing routine health information system performance during the tenth outbreak of ebola virus disease (2018- 2020) in the Democratic Republic of the Congo: a qualitative study in North Kivu (8)

Gabriel Kyomba¹, Guillaume Kiyombo¹, Karen Grépin², Serge Mayaka¹

¹Ecole de Santé Publique, Université de Kinshasa, ²School of Public Health, University of Hong Kong

[P2] Direct and integrated last mile distribution of vaccines and program commodities to health facilities serviced by EPSS Hawassa Hub in Ethiopia (18)

Anjana Silveira¹, Shamit Shah¹

¹Freight in Time Limited

[P3] Mapping procurement bottlenecks and establishing a national coordination mechanism to ensure sustainable financing for vaccine procurement: A case study on Cameroon (22)

Nadege Nnang Edwige¹, Shalom Ndoula², Andreas Njoy², Aissatou Djoda², Jude Nkwain³, Yauba Saidu¹, Justin Graves¹, Ivo Muabe¹, Shadrack Mngemane¹, Ladislav Cervenka¹, Choice Okoro¹

¹Clinton Health Access Initiative, ²Expanded Program on Immunization, Cameroon, ³UNICEF

[P4] A hotline to improve the availability, quality, and use of family planning logistics data to ensure product safety at the last mile (37)

Idi Abdou¹, Angela Elong¹, Barira Dan Nouhou², Amadou Hosseini³, Lawaly Maman Manzo², Almoustafa Moussa³, Saadou Armayaou³

¹Chemonics International, ²Direction de la Pharmacie et de la Médecine Tradito, ³Direction de la Planification Familiale

[P5] Resilient commodities transportation system: Coping with cyclones, COVID-19 and armed conflict in Mozambique (45)

UNABLE TO ATTEND – PLEASE SEE WEBSITE LISTING

Lucilo Williams¹, Kamila Magaia², Shabana Gaffar³

¹USAID Mozambique, ²Central Medical Stores – Mozambique, ³Bollore and logistics

[P6] Optimal pharmaceutical replenishment policy: the case of health centers in Addis Ababa (46)

Bezawit Demissie¹, Zelalem Mekonnen¹, Peter Ellison²

¹Addis Ababa University, ²Independent Researcher

[P7] Medicine Wastage: An assessment of post implementation of electronic logistics management information system at Levy Mwanawasa University Teaching Hospital (47)

Isaac Sichone¹, Martha Chuulu²

¹Catholic Relief Services, ²Levy Mwanawasa Medical University

[P8] End-to-end supply chain resilience: A case study of Nigeria's COVID-19 pandemic experience (48)

Kikelomo Lambo¹, Gboyega Alesinloye¹, Precious Nwiko¹, Rahman Kelani¹, Owens Wiwa¹, Shadrack Mngemane¹, Choice Okoro¹

¹Clinton Health Access Initiative

[P9] Strengthening Uganda's national cold chain inventory data system (61)

Jacqueline Anena¹, Jimmy Ameny², Brian Michael Kigozi³

¹PATH, ²Ministry of Health, Uganda, ³National Medical Stores-Uganda

[P13] Improving the availability of health commodities through supportive supervision: A case study from Vihiga County, Kenya (77)

Dr Jerusa Oluhano¹, Collins Mudogo¹, Mercy Amadi²

¹JSI County Government of Vihiga (Kenya Dept of Health), ²USAID Global Health Supply Chain Program - Afya Ugavi

[P10] Strengthened supply chain systems through establishment of county health products and technologies units (72)

Daniel Menge¹, James Riungu¹, Maureen Wangari¹

¹Project Global Health Supply Chain – Afya Ugavi Activity

[P14] Bottom-up Innovations: System of auditable pharmaceutical transactions, and services for supply chain, proper use of medicines, and delivering health services in Ethiopia. (79)

Ayalew Adinew¹, Habtamu Tesfaye¹, Fikreslassie Alemu¹, Elias Geremew¹, Mahlet T Gabre¹, Edmealem Ejigu¹, Tesfaye Seifu¹, Mahdi Abdella², Tigist Abebe²

¹USAID GHSC-PSM project in Ethiopia, ²Ministry of Health Ethiopia

[P11] Enhancing commodity accountability to advocate for resource allocation: A case study of Kirinyaga county (73)

Elga Chepkorir¹, Dr Onesmus Mutiso²

¹Project Global Health Supply Chain – Afya Ugavi Activity, ²HPTU Head – Kirinyaga County, Kenya

[P15] Re-imagining Last Mile Distribution of health commodities for equity and resiliency in Nigeria (5)

Zachary.G¹, Abdulsalam.M¹, Ogwuche.O¹, David.K¹, Yewan.I¹, Jolly.D¹, Martins.E¹, Mustapha.M¹, Sunday.E¹, Michael.A¹, Richard.O¹

¹Akesis Health, House No.1, 16A, PO.W Mafemi Crescent, Utako-Abuja

[P12] Risk evaluation and management of the malaria commodities supply chain in Kajiado County, Kenya (74)

David Thuo¹, Dr Diane Sibi¹, Miriam Okara²

¹Équate Kajiado County, Kenya, ²Project Global Health Supply Chain – Afya Ugavi Activity

PLENARY PANEL 1: Ecosystem services to support pharma manufacturing in Africa

Day 1 (Nov 30, 2022); 10:50am-12pm; Location: Oval Room

Description: One of the prominent issues exposed by the COVID-19 pandemic is the urgent need to further diversify global vaccine manufacturing, particularly with regards to Africa. One area though that has not received sufficient focus in this regard, is the ecosystem of suppliers for manufacturing inputs that such manufacturing will need. This panel will focus on the challenges and opportunities for such an ecosystem covering the supply of raw materials, consumables, services and other resources. The discussion will include perspectives from manufacturers, suppliers, development financing and regional trade.

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

Panelists

1. Dr. Ahd Hamidi, Batvia Biosciences
2. Dr. Nafisa Jiwani, Managing Director US International Development Finance Corporation (DFC)
3. Ms. Marie-Angélique Sène, Head of the microbiology and analytical development laboratory (Quality Control) (Institut Pasteur de Dakar)
4. Dr. Prashant Yadav, Senior Fellow; Affiliate Professor, Center for Global Development (USA): INSEAD

PLENARY PANEL 2: Exploring health service delivery for diabetes in low- and middle-income countries

Day 1 (Nov 30, 2022), 10:50am-12pm; Location: Room 201 / 202

Description: Non-communicable diseases (NCDs) cause three in four deaths worldwide. Low- and middle-income countries are disproportionately affected by NCDs, especially by premature deaths due to these conditions. Diabetes is one of the most common NCDs, affecting around 500 million people globally, and most people with diabetes are also impacted by comorbid conditions, with cardiovascular disease being the most common cause of death. Though our knowledge of how to manage and diabetes has increased dramatically over the past decades, there persist staggering global inequities in providing care for the complex and multi-faceted condition. In this conversation, using diabetes as a model, the 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. Topics of discussion, all addressed through a lens of health equity, will include: manufacturing and supply chains for medicines and health products; health system innovations; healthcare worker capacity strengthening; integration of care within existing programs; and stakeholder engagement strategies. This panel discussion is intended for all audiences.

Moderator: Dr. Jeremy Schwartz, Associate Professor of Medicine (General Medicine) and Public Health (Chronic Disease Epidemiology), Yale University

Panelists

1. Dr. Ama de-Graft Aikins, British Academy Global Professor, Institute of Advanced Studies-University College London
2. Dr. Moffat Nyirenda, London School of Hygiene and Tropical Medicine, Uganda Research Unit
3. Mr. Ferdinand Sonyuy, Secretary General, Cameroon Civil Society NCD Alliance, and - Chair, Africa NCD's Network Secretariat

PLENARY PANEL 3: Advancing healthcare supply chain innovation in Africa to serve public health needs

Day 2 (Dec 1, 2022), 9:40-10:45am; Location: Oval Room

Private sector channels remain a compelling pathway for consumers accessing healthcare services and products in Africa. However, these channels continue to be plagued with several challenges impacting the accessibility, affordability, and quality of health products. To resolve these inefficiencies, innovators are deploying tech-enabled business models to digitize distribution to providers and consumers, as well as providing product authenticity information, product movement data, and data analytics services.

The panel session will highlight the role of healthcare supply chain innovators as vanguards for transforming access in historically underserved markets, provide perspectives on the type of support African health tech businesses require to deliver quality health products to users, and the role of Government institutions in leveraging innovations from the private sector to meet public health needs.

Moderator: Dr. Prashant Yadav, Senior Fellow, Center for Global Development (USA) and Affiliate Professor, INSEAD (France)

Panelists

1. Ms. Abimbola Adebakin, Founder & CEO, myMedicines
2. Mr. Arnaud Pourredon, Co-founder & CEO, Meditect
3. Mr. Deji Ogunye, Chief Supply Chain Officer, mPharma
4. Mr. Jules Sergine Agbeci, Operations Director, Office Pharmaceutique Nationale (OPN) Gabon
5. Mr. Remi Adeseun, Director, Salient Advisory
6. Dr. Elijah Mohammed, Founder, ADI Healthcare Initiative

PLENARY PANEL 4: Enhanced access to public health commodities through harmonized regulatory processes

Day 2 (Dec 1, 2022), 9:40-10:45am; Location: Room 201 / 202

Description: This panel focuses on improving access to public health commodities through a medicine harmonized regulatory process. Challenges and bottlenecks in the medicines regulatory process often led to medicines shortages or circulation of substandard medicines. To address medicine regulatory challenges the Africa Union together with partners has been working on the Establishment of the African Medicines Agency. As of October 2021, 15 African countries ratified the African Medicines Agency (AMA) treaty. This has been heralded as a defining moment for Medicines regulation in Africa.

The panel will use a round table format with each panelist speaking for about 5 minutes, highlighting their current role and what they are doing in the regulatory space, after which they will respond to a series of guided questions from the moderator. Following this, the moderator will open the floor for questions from the audience.

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

Panelists:

1. Dr. Nafisa Jiwani, Managing Director US International Development Finance Corporation (DFC)
2. Dr. Simon Agwale, Board member, African Vaccine Manufacturing Initiative
3. Ms. Ines Buki, Rwanda Country Director GHSC-PSM, Chemonics International
4. Ms. Bonita Mgbemena, Senior Technical Specialist, Health Product Management, National Agency for Control of AIDS Nigeria

Day 3: December 2, 2022 - TUTORIALS

<p>9:00 – 10:30 am</p>	<p>Tutorial 1: Outsourcing Toolkit: An interactive session to prepare for your outsourcing journey</p> <p>Moderator: Mazwi Dzapasi, Africa Resource Centre, West Africa</p> <p>This session will be based on the outsourcing toolkit, brief overviews on specific tools to support the outsourcing journey and a panel led Q&A session.</p> <p>The OSTK is a decision-making resource for ministries of health and organizations affiliated to public health who are considering outsourcing as an option to improve supply chain performance. This toolkit is a repository of outsourcing guides including tools, practices, and processes to optimise both decision-making and implementation. The toolkit is sourced from public- and private-sector experiences and initiatives across Africa, as well as good practices identified from around the world.</p> <p>In this session, ARC will show how the toolkit’s process steps from assessment, evaluation, contracting and implementation. The session will also highlight the important enabling environment that needs to be set for successful outsourcing –this enabling environment comprises of the right policy, people considerations, technology, advocacy and governance. ARC will share specific tools that can support countries perform specific tasks on the journey to outsourcing. ARC will be supported by a panel of experts who will share their experience in outsourcing, highlighting important learnings and potential pitfalls when outsourcing supply chain functions.</p> <p>Outsourcing toolkit process steps and enablers –Africa Resource Centre Outsourcing Assessment Tools available –Africa Resource Centre Service Level Agreements –Village Reach Activity Based Costing –Global Health Supply Chain Procurement and Supply Management Outsourcing Roadmap: workforce considerations –People That Deliver Panel Member –Johnson & Johnson</p> <p>Location: Room 205</p>	<p>Tutorial 2: An innovative learning application on emergency response planning - Business on the Move the Humanitarian Edition</p> <p>HELP Logistics</p> <p>Moderator: Bruno Vandemeulebroecke, Kuehne-Stiftung, SEN KS-HD</p> <p>Deliver as many pallets of emergency aid as possible within a time limit! Learn how to plan, prepare and respond to humanitarian emergencies!</p> <p>“Business on the Move the Humanitarian Edition” is an exciting, educational and rewarding board game, to introduce players to various factors and operational challenges that impact the effective delivery of humanitarian aid and assistance. Players run a humanitarian logistics team delivering humanitarian aid from one side of the world to the other. Each team must try to optimize the movement of their emergency aid items around the world by air, land and sea — speed and efficiency are the goals! Face the challenges: how to deal with unexpected disruptions and reduce your carbon footprint. Teams will also face choices about when to collaborate with other players to support their humanitarian mission.</p> <p>The learning methodology is designed for commercial practitioners, field logistics staff, staff in non-operational functions, and supply chain students and is a fun, experiential learning opportunity for operational organizations and universities.</p> <p>LINK to: BOTM FLYER 2022.1001</p> <p>Location: Room 201 / 202</p>
<p>10:30 – 11:00am</p>	<p>Coffee Break</p>	
<p>11:00 – 12:30 pm</p>	<p>Tutorial 1: REPEAT</p>	<p>Tutorial 2: REPEAT</p>

Day 3: December 2, 2022 - ROUNDTABLE

9:00 am–12:00 pm

ROUNDTABLE: Leveraging the private sector to strengthen public health supply chain: Focusing on country priorities

Organized by Africa Resource Centre, West Africa

Strategic Goal : Building Sustainable Supply Chains through Pharmaceutical Private-Public Partnerships

BRIEF DESCRIPTION

As an invaluable component of strengthening health systems, public–private partnerships (PPPs) enable governments to collaborate with the private sector in pooling resources, combining the managerial and technical skills of both to improve the health of the population. With the advent of Covid-19 pandemic and countries’ engagement in universal health coverage, it is now acknowledged that the private sector has a great role to play in strengthening public health supply chain for reinforced access to medicines and health products through the last mile.

The roundtable seeks to develop opportunities for further partnership across Government, Private Sector, Donors and regional organizations, and agree on a collaboration framework to guide, scope, and enable mobilization of resources towards achieving impactful and continuous partnerships between governments and partners

Location: Oval Room

BIOS OF PLENARY SPEAKERS



Dr Marie Khemesse NGOM NDIAYE, Honorable Minister of Health and Social Action, Senegal



Dr Amadou Alpha Sall, Executive Director, Institut Pasteur de Dekar

Dr Amadou A. Sall is a virologist and has a PhD in Public Health. He received his scientific education at Universities Paul Sabatier at Toulouse, Paris Orsay and Pierre et Marie Curie in France. He has also visited several laboratories for his training, including Institut Pasteur in Paris, France; Institute of Virology and environmental medicine in Oxford, United Kingdom of Great Britain and Northern Ireland; Center for tropical disease at the University of Texas Medical Branch at Galveston, United States of America (USA) and the Albert Einstein College of Medicine of Yeshiva University, New York, USA. From 2002 to 2004, Dr Sall worked in Cambodia as Head of the viral hepatitis laboratory at the Institut Pasteur Cambodia. From 2010 to 2011, he worked as a Visiting Research Scientist at the Center for Infection and Immunity at the Mailman School of Public Health at Columbia University, New York, USA, on pathogen discovery. He is currently Head of the Arboviruses and viral haemorrhagic fever unit, Director of the WHO Collaborating Center and Director of the Institut Pasteur de Dakar, Senegal, which belongs to the Institut Pasteur International Network. His research focuses primarily on diagnostics, ecology and evolution of arboviruses and viral haemorrhagic fevers. Dr Sall has published more than 100 papers and book chapters and has given more than 150 scientific communications at international meetings. Dr Sall is a member of several WHO expert groups, including the Global Outbreak and Alert Response Network and the Strategic Advisory Group of Experts on Immunization and has also been a consultant for the World Organisation for Animal Health.



Ms. Rebecca Stevens Alder, Head of Global Health Partnerships Affairs at Sanofi

Rebecca currently heads Global Health Partnerships Affairs at Sanofi. Prior to this, she managed Global Health Partnerships at Novartis. For over 20 years, Rebecca has worked to initiate, build, and execute innovative and sustainable multi-sectoral partnerships between private and public sector global health stakeholders.

Rebecca is a strong believer in the power of partnerships to foster and drive transformational change within the global health space and enable countries to reach Universal Health Coverage. She has devoted her career to developing innovative models to enable patients to access healthcare wherever they may be.

Rebecca has worked for both the World Economic Forum and the United Nations High Commissioner for Refugees. She holds an Honors Bachelor of Arts Degree in Sociology and Mass Communications from York University in Toronto, Canada. She is married and has two children.



Mr. Faustin Mukena, CEO, Africa Resource Centre

Faustin is Chief Executive Officer at ARC. He is an MBA educated global business leader with over 30 years' experience in general management and executive commercial positions at blue-chip FMCG companies across Europe, Middle East & Africa. In his role at ARC, Faustin leads the continent-wide organisation on delivering its mission to provide expert advisory and enablement services to African ministries of health in order to strengthen their public health systems and enhance the equitable access to medicines and health products. As CEO, Faustin is motivated by leading a diverse, equitable and inclusive team of professionals. He focuses on bringing private sector best practices and approaches to deliver on ARC's mandate whilst ensuring a patient-centric approach to maximise positive societal impact.

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- **Professor Prashant Yadav**, Senior Fellow, Center for Global Development (USA) and Affiliate Professor, INSEAD (France)
- **Professor Anton L.V. Avanceña**, Assistant Professor, College of Pharmacy, University of Texas at Austin (USA)
- **Janamarie Perroud**, PhD Candidate, School of Public Health, Health Services Organization & Policy, University of Michigan, Ann Arbor (USA)

With support from

- **Dr. Asmae El Mokrini**, Assistant Professor-Operations and Supply Chain Management, Université Internationale de Rabat (Morocco)
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- **Jemina Harry**, Africa Resource Centre, Dakar (Senegal)
- **Alassane FALL**, Institut Africain de Management, Dakar (Senegal)
- **Others too numerous to mention**

SHUTTLE SCHEDULE

Date	Departure Time	Pick Up Location	# of shuttles (capacity)	Drop Off Location	
30-Nov	7:00 AM	YAAS HOTEL	1 (30)	CICAD	
	7:00 AM	RADISSON BLU HOTEL	2 (30)	CICAD	
	7:00 AM	IBIS HOTEL	2 (30)	CICAD	
	6:30 PM	CICAD	1 (30)	YAAS HOTEL	
	6:30 PM	CICAD	1 (30)	RADISSON BLU HOTEL	
	6:30 PM	CICAD	1 (30)	IBIS HOTEL	
	9:00 PM	RADISSON DIAMNIADIO	1 (30)	YAAS HOTEL	
	9:00 PM	RADISSON DIAMNIADIO	2 (30)	RADISSON BLU HOTEL	
	9:00 PM	RADISSON DIAMNIADIO	2 (30)	IBIS HOTEL	

1-Dec	7:30 AM	YAAS HOTEL	1 (30)	CICAD	
	7:30 AM	RADISSON BLU HOTEL	2 (30)	CICAD	
	7:30 AM	IBIS HOTEL	2 (30)	CICAD	
	6:00 PM	CICAD	1 (30)	YAAS HOTEL	
	6:00 PM	CICAD	2 (30)	RADISSON BLU HOTEL	
	6:00 PM	CICAD	2 (30)	IBIS HOTEL	
	7:45 PM	CICAD	1 (30)	YAAS HOTEL	
	7:45 PM	CICAD	1 (30)	RADISSON BLU HOTEL	
	7:45 PM	CICAD	1 (30)	IBIS HOTEL	

2-Dec	8:00 AM	YAAS HOTEL	1 (30)	CICAD	
	8:00 AM	RADISSON BLU HOTEL	2 (30)	CICAD	
	8:00 AM	IBIS HOTEL	2 (30)	CICAD	
	2:15 PM	CICAD	1 (30)	YAAS HOTEL	
	2:15 PM	CICAD	2 (30)	RADISSON BLU HOTEL	
	2:15 PM	CICAD	2 (30)	IBIS HOTEL	

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