

Welcome
to the 11th Annual
**Health & Humanitarian
Logistics (HHL) Conference**

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Hosted and Co-organized by:



INSEAD



NC STATE UNIVERSITY



8:45 AM

Conference Introduction



Dr. Pinar Keskinocak



Co-founder and Director, Center for Health & Humanitarian Systems (CHHS)

William W. George Chair and Professor,
School of Industrial & Systems
Engineering

Georgia Institute of Technology



Dr. Julie Swann

NC STATE UNIVERSITY

Co-founder, Center for Health & Humanitarian Systems (CHHS)

Department Head & Professor,
Department of Industrial and Systems
Engineering

NC State University

Conference Objectives

- **Strengthen supply chains and related activities to better meet human needs**
- **Facilitate dialogue across organizations & sectors to:**
 - Articulate challenges and successes
 - Identify opportunities for new practices, research, or technology solutions
 - Identify priorities for strategies, policies and investments



HHL 2019 Conference

Co-Chairs

- [Özlem Ergun](#), Mechanical and Industrial Engineering, Northeastern University
- [Jarrod Goentzel](#), Humanitarian Response Lab, MIT
- [Pinar Keskinocak](#), Center for Health & Humanitarian Systems (CHHS), and School of Industrial and Systems Engineering, Georgia Tech
- [Julie Swann](#), Fitts Department of Industrial and Systems Engineering, NC State University
- [Luk Van Wassenhove](#), Humanitarian Research Group, INSEAD

Co-Organizers

- [Liz Igharo](#), The International Association of Public Health Logisticians (IAPHL)
- [Dominique Zwinkels](#), People that Deliver (PTD)

Host

- [University of Rwanda Regional Centre of Excellence](#)

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PEOPLE THAT
DELIVER
Promoting sustainable workforce excellence



NC STATE UNIVERSITY



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A brief history of the

Health & Humanitarian Logistics (HHL) Conference

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Conference Agenda Overview

- Plenary panels
- Interactive workshops
- Oral presentations
- Poster sessions
- Zipline & DP World tours

***And many opportunities for exchanging ideas
and networking during coffee breaks, lunch,
and reception!***

A Global Conference: Partner Organizations & Hosts

2019:



2018:



المدينة العالمية للخدمات الإنسانية
INTERNATIONAL HUMANITARIAN CITY

2014:



2017:



2013:



2016:



2012:



2015:



2009-2011:



2019 HHL Program Committee

- **Laila Akhlaghi** – John Snow, Inc. (JSI)
- **George Fenton** – Humanitarian Logistics Association
- **Inès K. Gege Buki** – USAID
- **John W. Fitzsimmons** – PAHO/WHO
- **Paul Molinaro** – World Health Organization (WHO)
- **Paulo Gonçalves** – Università della Svizzera italiana
- **Joe Ruiz** – The UPS Foundation
- **David Sarley** – Bill and Melinda Gates Foundation
- **Alexis Strader** – People that Deliver
- **Prashant Yadav** – Bill & Melinda Gates Foundation

Special Thanks to...

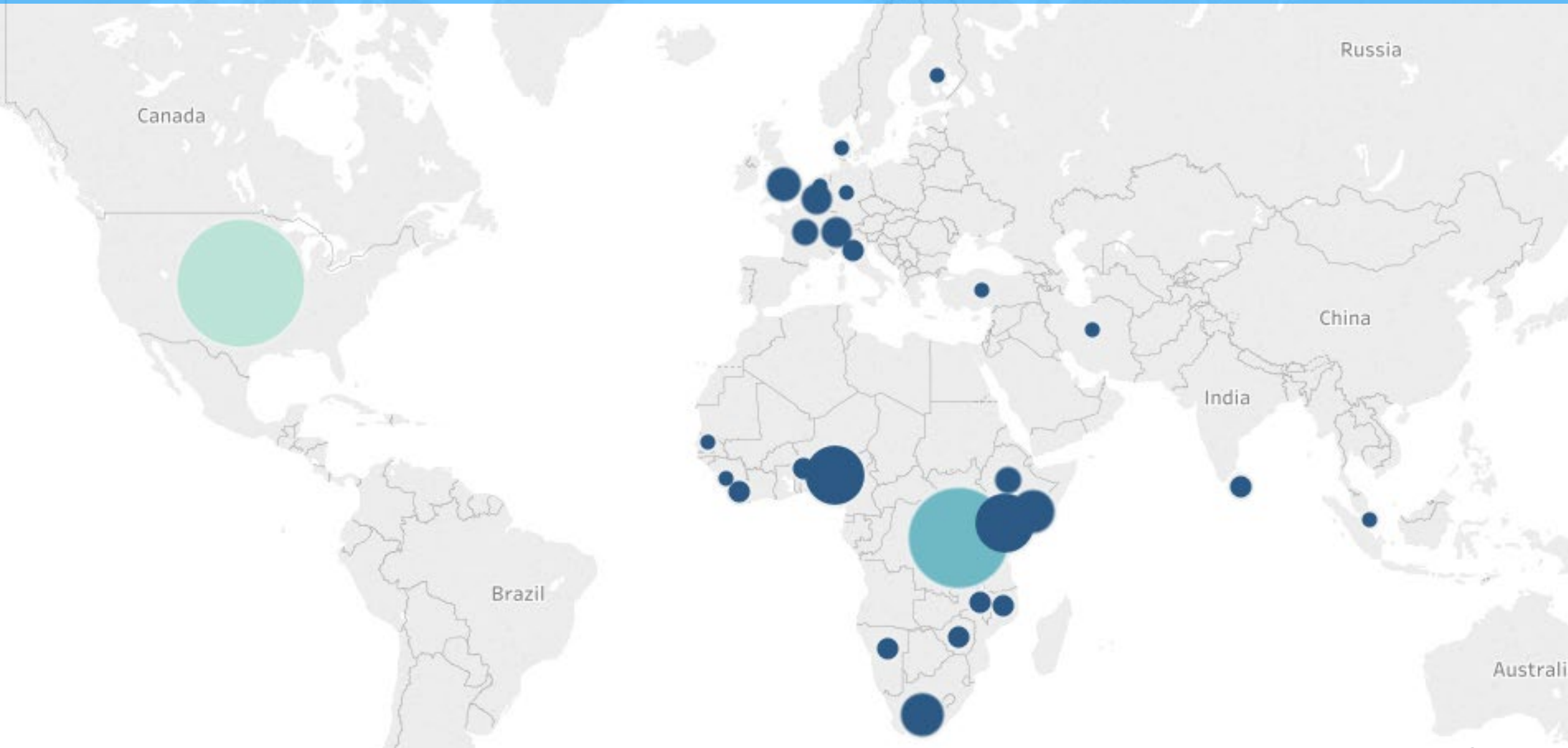
- **Georgia Tech staff and students**
 - Joscelyn D. Cooper
 - Julie Smith
 - Jin Noh
 - Andy Haleblian
- **University of Rwanda Regional Centre of Excellence**
 - Stany Banzimana
 - Regis Hitimana
 - Stephen Karengera
 - Jean d'Amour Habagusenga
 - Kayumba P.Claver
 - Philip Cotton
- **Rwanda Conventions Bureau**
 - Valence Gitera
 - Eric Kimenyi
- **Rwanda Ministry of Health**
 - Zacharie Gahungu
 - Annette Gakwerere
- **Student Volunteers**
 - University of Rwanda
 - University of Global Health Equity
 - Strathmore University
 - INSEAD
- **2019 Program Committee**
- **Speakers and Attendees**

Extra Special Thanks to...



Joscelyn Cooper

2019 attendee country representation



The size of the circles represents the percentage of attendees from each country. The larger the circle, the larger the number of attendees.

106 Organizations and Companies Represented!

- Columbia University
- Cranfield University
- Department of HIV and Health
- DHL Global Forwarding (K) Ltd
- Economic Empowerment Project Agago
- eHealth Africa
- Elizabeth Glaser Pediatric AIDS Foundation
- Empower Global
- Flash TV
- Freight in Time
- Frontline Business Information Services
- Georgia Institute of Technology
- Georgia Tech Research Institute
- Georgia Tech Supply Chain and Logistics Institute
- Ghana Ministry of Health
- USAID GHSC-PSM Ghana
- USAID GHSC-PSM Mozambique
- USAID GHSC-PSM Nigeria
- Global Environment and Technology Foundation
- Global Fund Ghana
- Kenya Ministry of Health
- KUMWU LOGISTICS
- LLamasoft
- Logenix International
- LOGIVAC CENTER
- Management Sciences for Health
- Massachusetts Institute of Technology (MIT)
- Mbeya Referral Hospital
- MEBS Global Reach
- Medecins Sans Frontieres
- MEDICAL ACCESS UGANDA LIMITED
- Mozambique Ministry of Health
- NACP/Ghana Health Service
- NC State University
- Nexleaf Analytics
- Nigeria Ministry of Health
- Nnamdi Azikiwe University
- Northeastern University
- Novartis
- Pamela Steele Associates Limited
- Parsyl, Inc
- Strathmore University
- The Carter Center - Ethiopia
- THE LIBERIAN NATIONAL Public Health Institute (NPHIL)
- Transaid
- UN Iran
- UNDP Istanbul
- UNDP Zimbabwe
- Universidad de Antioquia
- University of Global Health Equity
- University of Helsinki
- University of Illinois at Urbana-Champaign
- University of Rwanda
- University of Wisconsin-Milwaukee
- UPS
- USAID
- Vitalliance Corporation
- World Food Programme
- Zenysis Technologies
- Zimbabwe Ministry of Health and Child Care
- Zipline Rwanda

The 2019 conference organizers
would like to especially thank

The UPS Foundation

for its ongoing support of the
Health & Humanitarian Logistics Conference
for the 11th year



2009-2019

The 2019 conference organizers
would like to especially thank

Logenix International

for the new support and engagement with
2019 Health & Humanitarian Logistics Conference



2019

The 2019 conference organizers
would like to especially thank

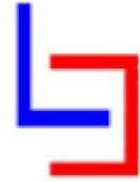
University of Rwanda – Regional Centre of Excellence

for hosting and organizing 2019 Health & Humanitarian Logistics
Conference



2019

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Development works here.

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Supporters



Thank you
to our
2019 HHL
Conference
Sponsors!

DAY 1: Wednesday, July 10th

- **8:45 – 9:15** **CONFERENCE INTRODUCTION & AIM**
- **9:15 – 9:30** **WELCOME ADDRESS**
- **9:30 – 11:00** **SPECIAL KEYNOTE PANEL**
Ministering Health- The Role of Supply Chain Policy and Collaboration
- **11:00 – 11:30** **POSTER SESSION/COFFEE BREAK**
- **11:30 – 12:30** **PRESENTATIONS/WORKSHOPS – SESSION 1**
- **12:30 – 13:30** **LUNCH**

DAY 1: Wednesday, July 10th

- **13:30 – 14:45** **PLENARY PANEL 1**
*Implementation of Resilience in Supply Chains:
Perspectives, Pitfalls, and Winning Strategies*
- **14:45 – 15:45** **PRESENTATIONS/WORKSHOPS - SESSION 2**
- **15:45 – 16:15** **POSTER SESSION/COFFEE**
- **12:30 – 13:30** **LUNCH**
- **16:15 – 17:30** **PLENARY PANEL 2**
*Private Sector Engagement in Health and Humanitarian Supply Chain
Management and Logistics*
- **17:30 – 19:30** **EVENING COCKTAIL**

Special Activities

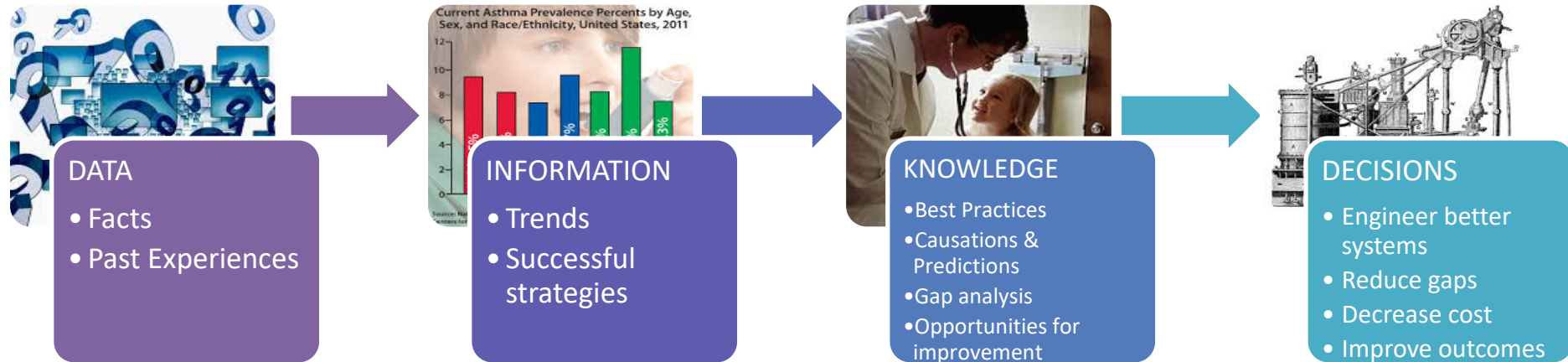
Zipline Tour & DP World Tour

Available on Friday

- *Zipline tour check-in at 8 a.m. (shuttle leaves at 8:30 a.m.)
- *DP World tour check-in at 9 a.m. (shuttle leaves at 9:30 a.m.)

If you did not sign up in advance, see registration table during break to get on the waitlist

Challenge to You



- What knowledge can I take away for myself and/or my colleagues?
- What action will I take when I return?
- What action will I ask others to take when I return?

9:15 AM

Welcome Address

Dr. Diane Gashumba,
Rwanda Minister of Health
on behalf of His Excellency,
President Paul Kagame



9:30-11AM

Special Keynote Panel



**Dr. Diane
Gashumba,
Minister of
Health - Rwanda**



**HE Mohamed Said
Abdilahi,
Deputy Minister of
Health - Somalia**



**Dr. Francis N.
Kateh, Deputy
Minister of
Health - Liberia**



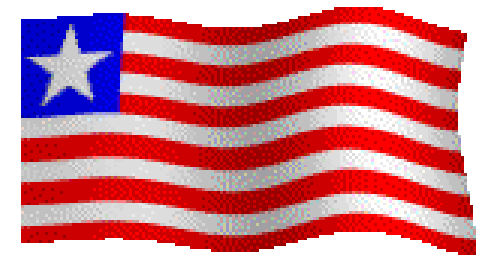
**Prof. Philip Cotton,
Vice-Chancellor,
University Of
Rwanda, Moderator**



Panelist Remarks

Special Keynote Panel

Health and Humanitarian Logistics Conference



The Role of Policy and Collaboration Ministering Health








Francis N. Kateh, MD, MHA, MPS/HSL, FLCP
Deputy Minister for Health Services,
Chief Medical Officer,
Republic Of Liberia

Liberia: Country and Health Context

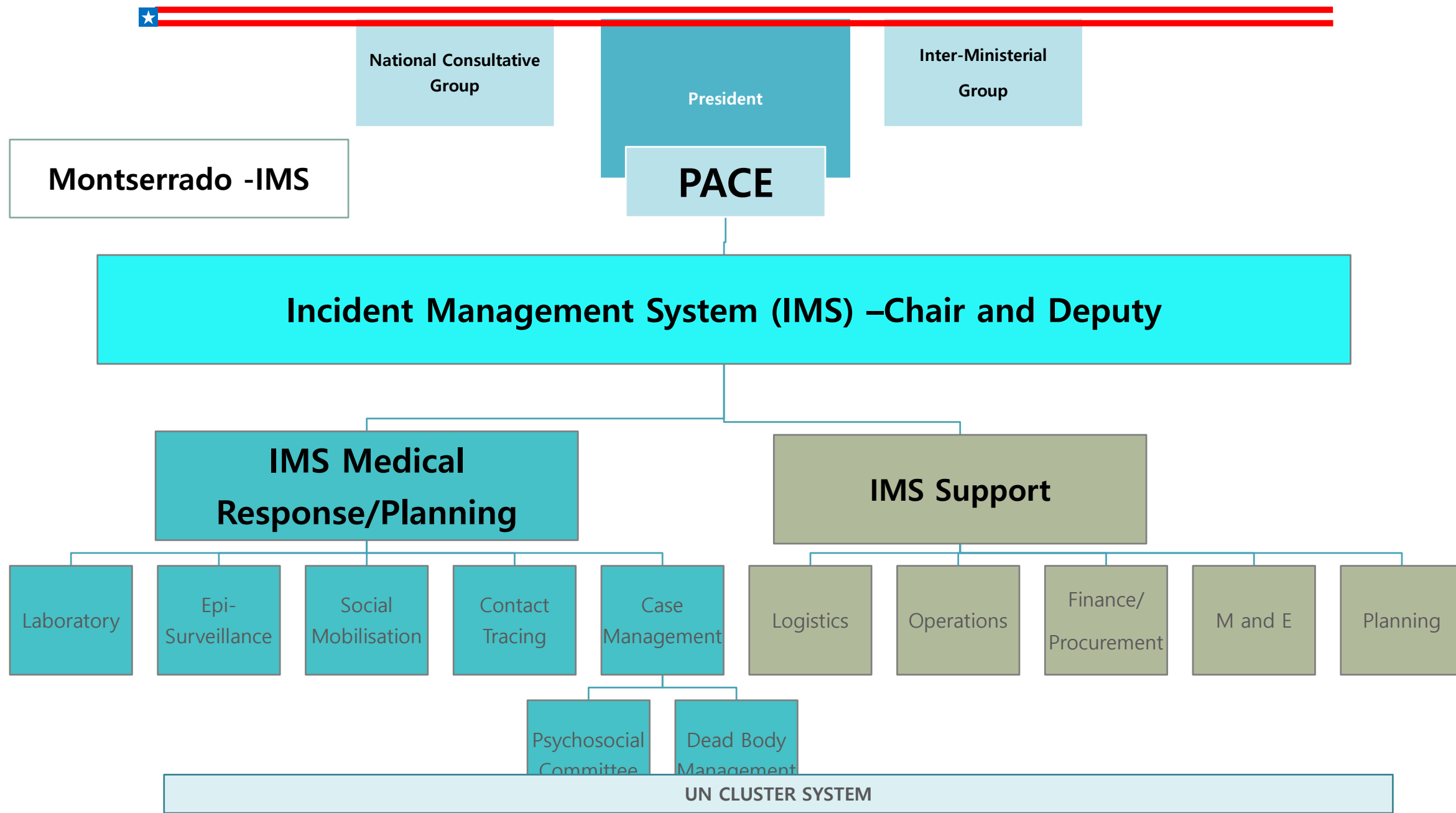


Key Figures:

- Total Population (UN): **4.6 million**
- Population Growth Rate (UN): **2.6%**
- Human Development Index Rank (UN): **177/188**

-  **TB** Estimated deaths from TB **3,200 and rising (2015)**
-  **HIV/AIDS** HIV prevalence **2.1%** and **28,652** People living with HIV **(2014)**
-  **Malaria** Entire population at risk **4.6 million (2016)**
-  **Maternal Mortality** Maternal mortality rate **1,072 per 100,000 live births (2014)**
-  **Child Mortality** Under-five mortality rate **94 per 1,000 live births (2013)**

Coordination, Control and Command





GUINEA

Conakry

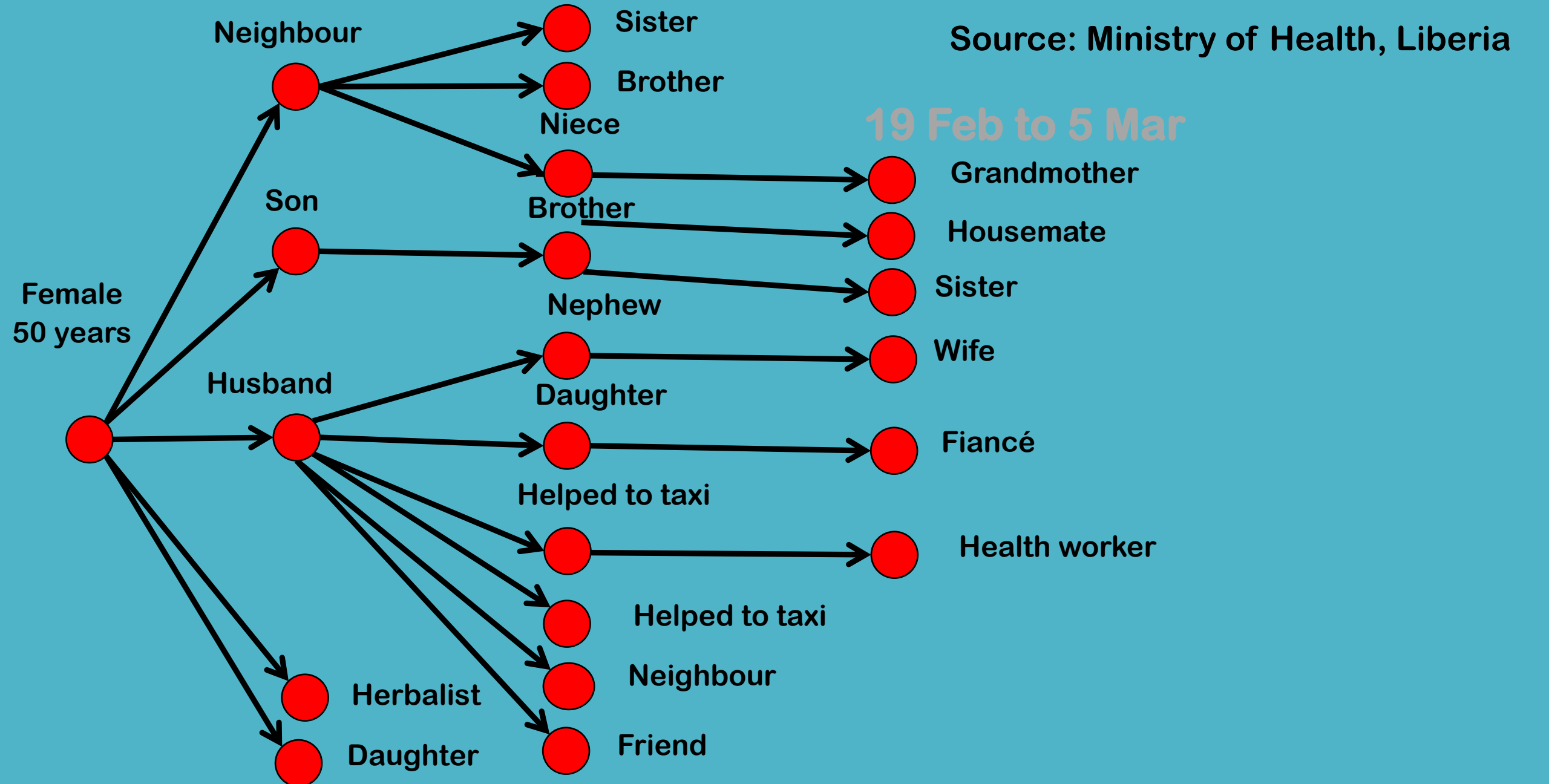
Freetown

**SIERRA
LEONE**

Monrovia

LIBERIA

19 Feb to 5 Mar

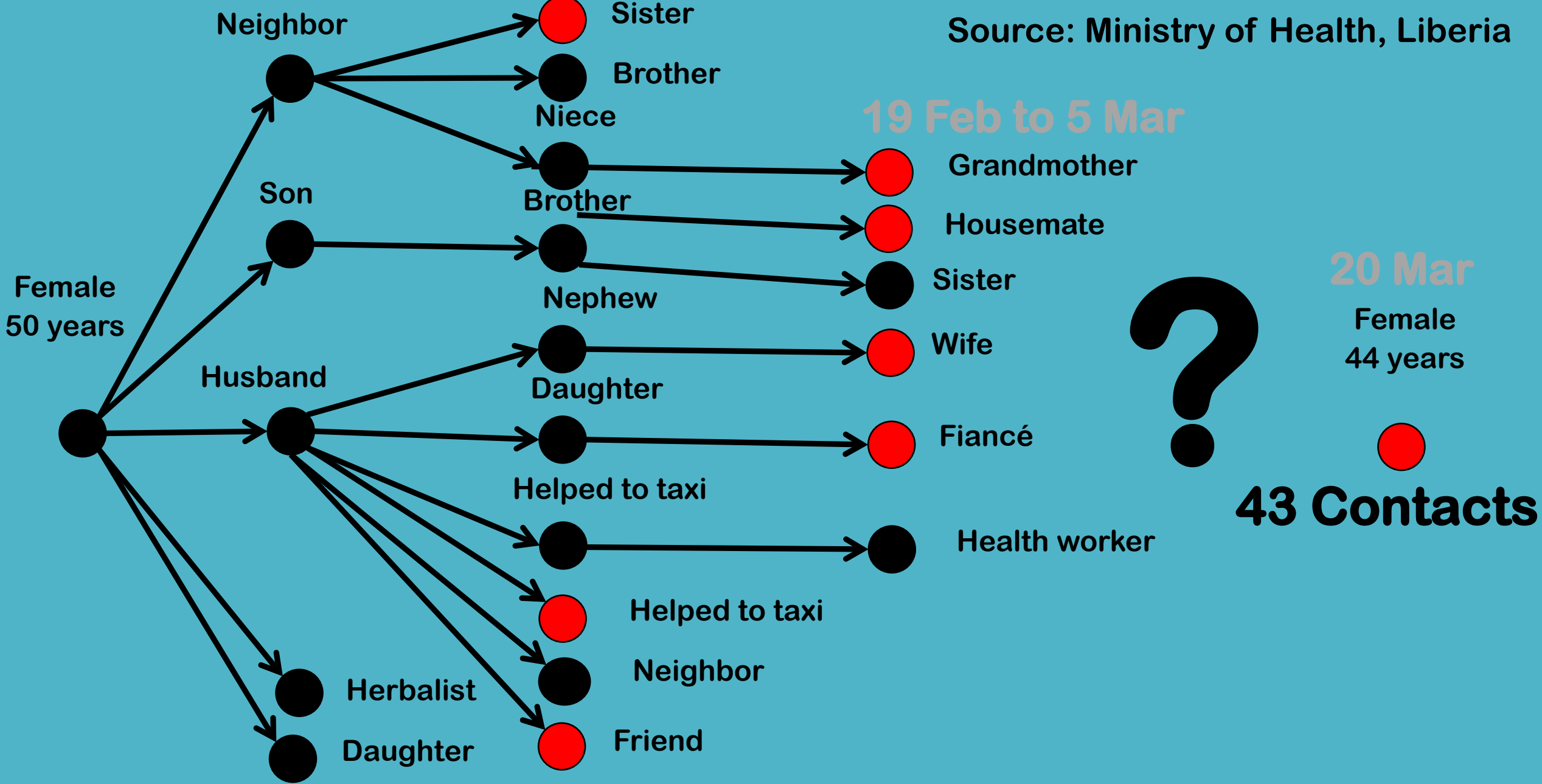


January 2015

February 2015

March 2015

Source: Ministry of Health, Liberia



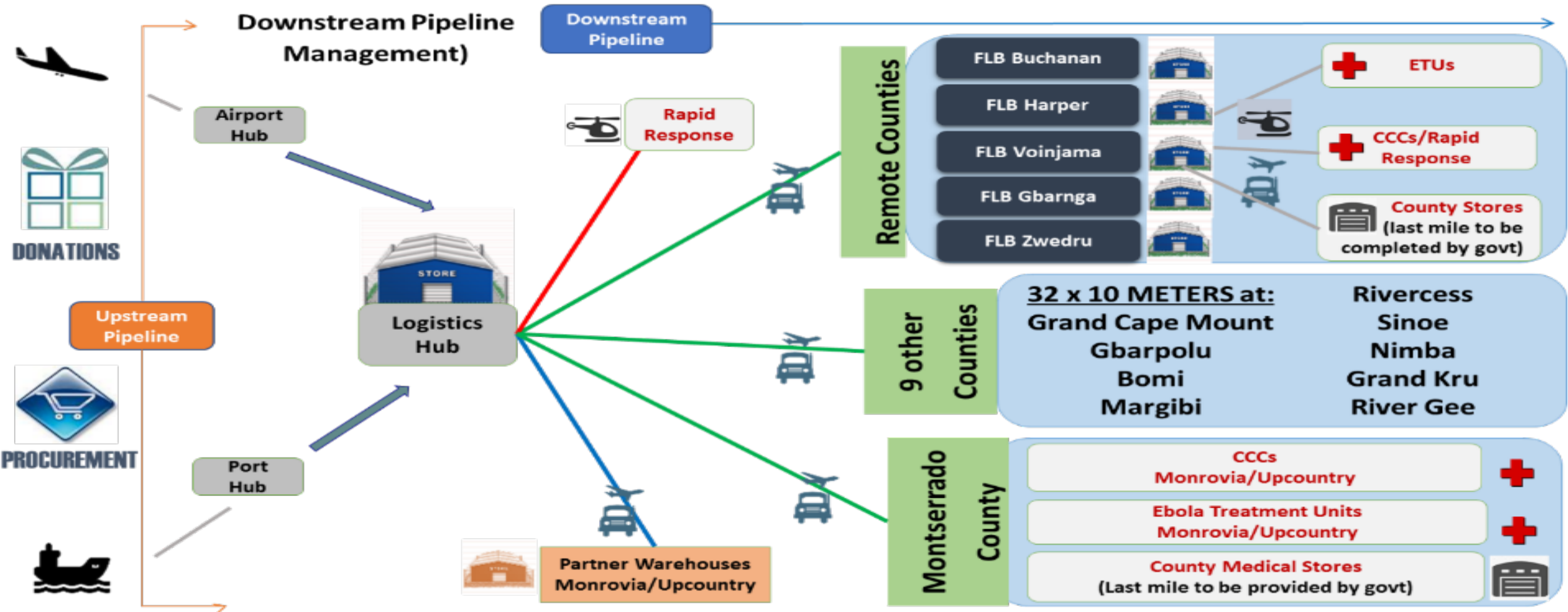
January 2015

February 2015

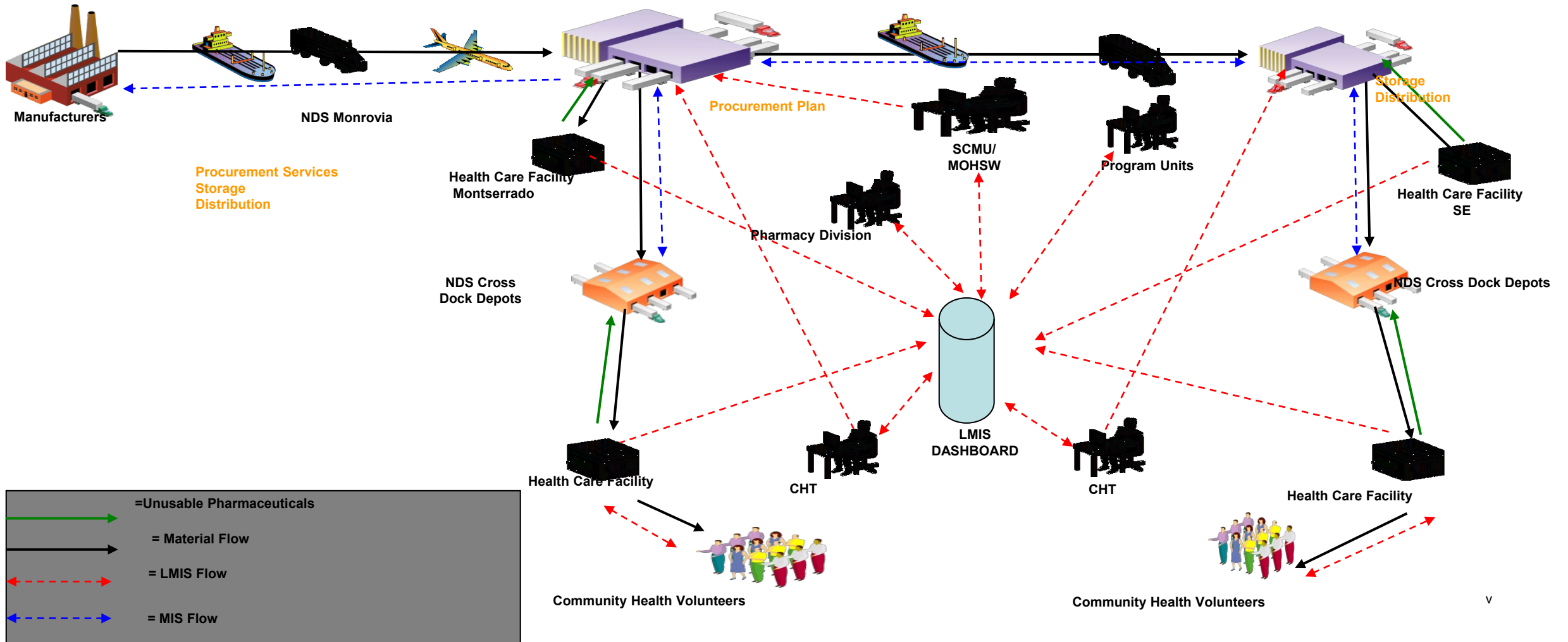
March 2015

EVD Logistics Platform

EVD logistics pipeline for Liberia



Essential Health Supply Chain



POLICY IMPACT

ON SUPPLY CHAIN IMPROVEMENT

- The Supply Chain System support the vision of the Ministry of Health to deliver quality health services to the people of Liberia: *“Dedication to equitable, accessible and sustainable health promotion, and protection and the provision of comprehensive and affordable healthcare.”*
- **The Initial Supply Chain Master Plan (SCMP) developed 2010 and later revised 2015:** This serves as the overall strategy for medical supply chain management in Liberia with clear roles and responsibilities of all key stakeholders in the chain.
- **The Supply Chain Transformation Plan (SCTP) developed in 2018:** This provides clear guidance in the implementation of the Supply Chain Master Plan through six work streams that are now aligned to four cover all aspect of supply chain systems strengthening including governance and leadership.

The Key to Better Outcome in Health and Humanitarian Logistics



- Proper Planning
- Appropriate Prepositioning
- Efficient Accessibility

CONSTRUCTED MODERN PHARMACEUTICAL CENTRAL WAREHOUSE

- ✓ Liberia has a new pharmaceutical warehouse (Central Medical Stores). All health products are integrated in the warehouse.
- ✓ The MoH is currently working with the international partners and donors to set up a Warehouse Management Information System (WMIS) at this Central Medical Stores (CMS).
- ✓ The MoH intends to link the **SCMU**, **LMHRA** and **CMS** platforms in order to speak to one another through the supply chain system.



Liberia NDS/CMS

PICTORIALS OF ACHIEVEMENTS

Improved health infrastructure from make-shift structures to standard clinics



- Improved housing facilities for health workers



Challenges

- Limited Budgetary Allocation to cover appropriate plans and policies
- Draw down on donor funding, hence stagnation to some of the programs

Frequent stock out of essential medicines at public health facilities due to inadequate funds and health financing policy

Limited public health facilities in rural communities with no maintenance plan

Health financing not matching the “free health care policy”



Movement into remote Communities for Service Provision

THANKS
FOR THE
INVITE





Ministering Health- The Role of Supply Chain Policy and Collaboration

Special Keynote Panel

11:00 AM

**POSTER SESSION/COFFEE
BREAK**

30 minutes

Return by 11:30 AM

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Health and  2019
Humanitarian Logistics Conference

July 10-11 • Kigali, Rwanda