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supporting last-mile supply chain efforts using Unmanned Aircraft Systems (UAS)

Hitesh Hurkchand (on behalf of Sara de la Rosa)

Interagency Supply Chain Group UAS Coordinator

2018 Global Health Supply Chain Summit Lusaka, Zambia

Photo Credit: Zipline, Rwanda Photo Credit: Zipline, Rwanda



Interagency Supply Chain Group (ISG)

Informal Group – ISG formed in 2014.

Hosted by the WHO since April 2017 through support from UNICEF, the Bill and Melinda Gates Foundation and the African Resource Centre

UAS Coordination: Hosted since June 2018 by The Global Fund and UNICEF. Partnership of 7 major donor agencies involved in providing Public Health supply chain support to emerging countries:

UAVs in Global Health







Last-mile distribution use cases

- Routine pharmaceuticals and supplies
 - difficult access geographies (seasonal disruptions or remoteness)
- 2-way delivery
 - diagnosis + treatment + waste management
- Cold-chain high value commodities
 - Scheduled campaigns Extended Program of Immunization (EPI)
- Unpredictable demand
 - plasma for emergency situations (post-partum hemorrhage, pediatric malarial anemia, or trauma)
 - Anti-venom, rabies vaccines, oxytocin, etc.









KPIs

Health Impact = saving lives i.e. one 5 lbs delivery parcel can protect the life of about 100 children



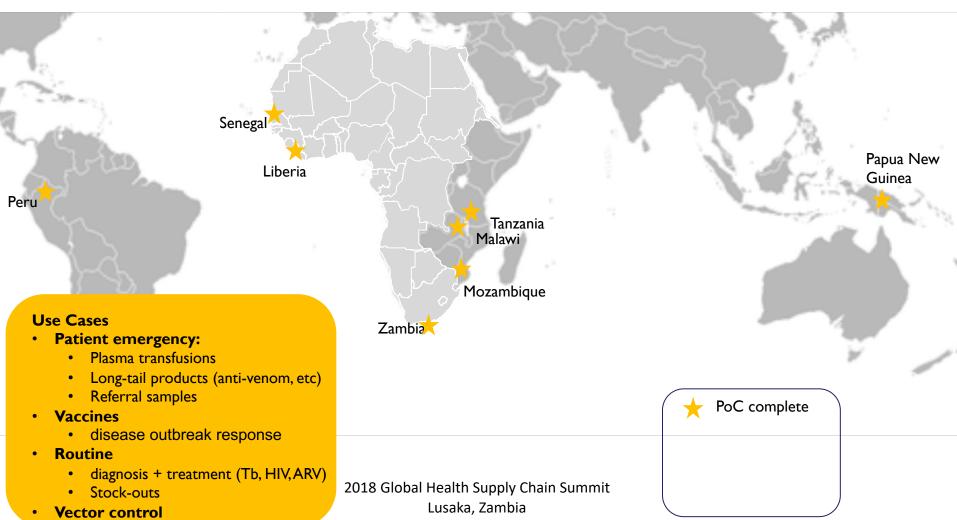
Access

- reliable, fast access within 15-45 minutes to rural and remote health facilities
- Availability
 - Reduce % stockouts due to delivery failure
- Local empowerment
 - economic impact
 - high quality supplies and business services

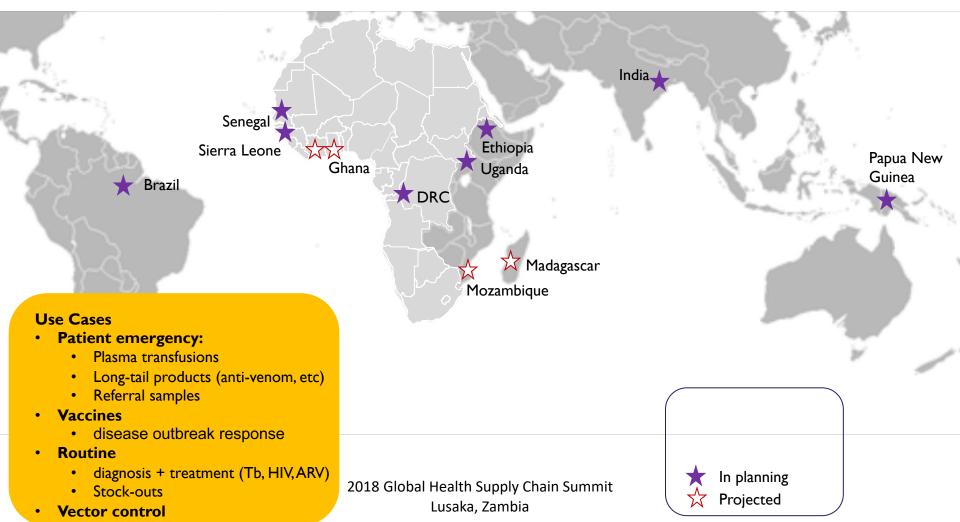


- Turnaround time
 - Laboratory patient diagnosis and
 - delivery of treatment
 - Decreasing waste
 - expiries and spoilage

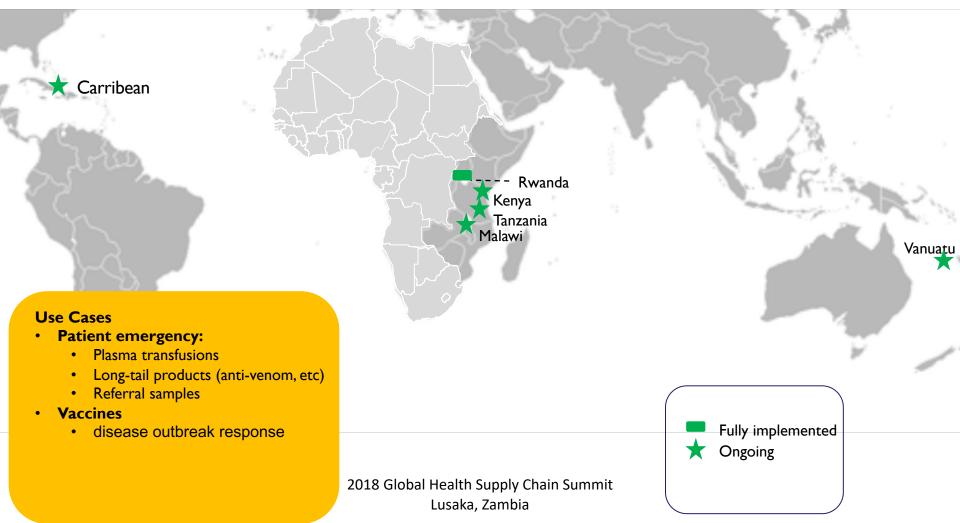




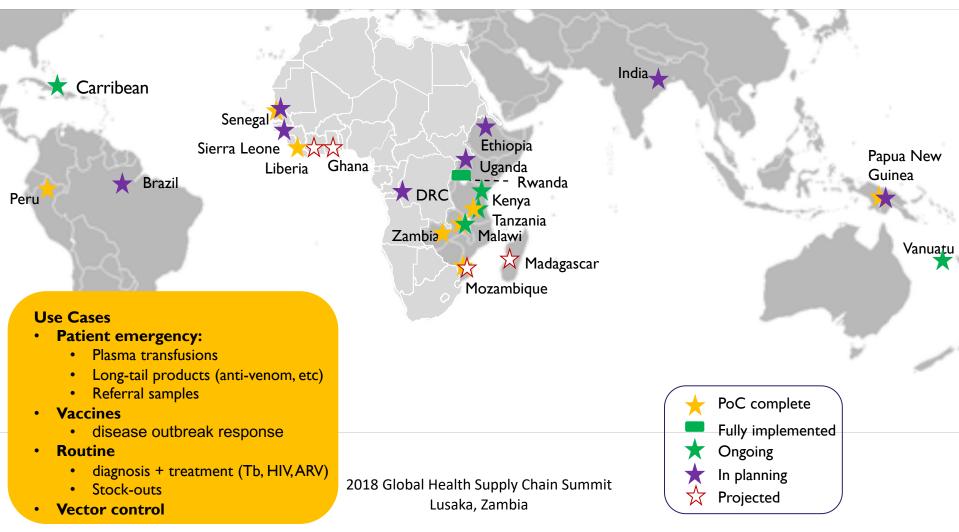












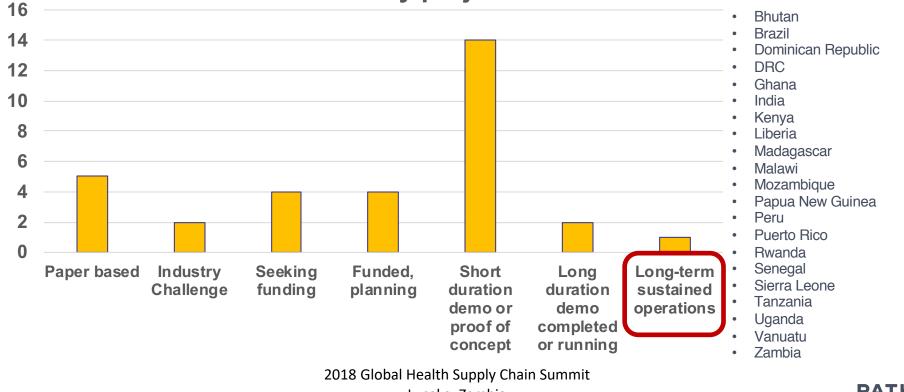


UAS Project status

- 21 countries + numerous projects
- too few really get off the ground and are continued

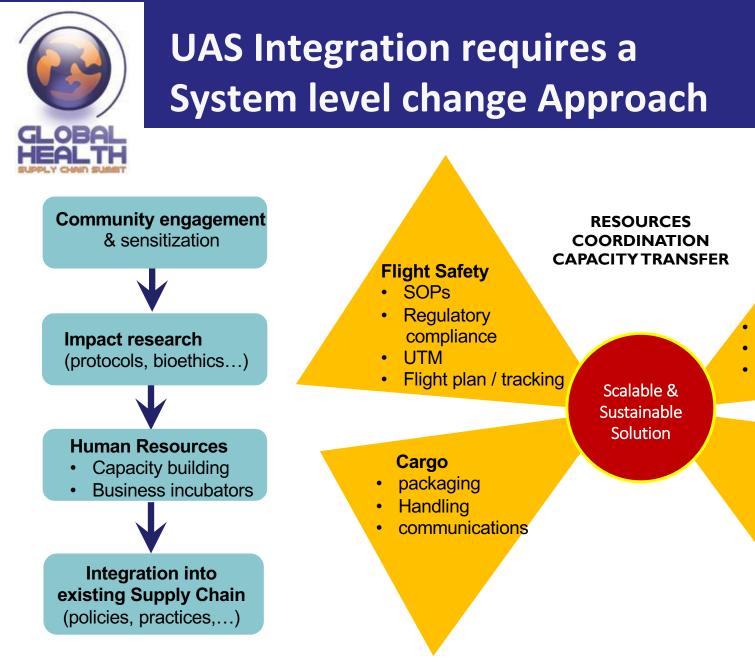
Health delivery projects

Past or Current in the following countries:



Lusaka, Zambia





Business Model

Leasing vs purchase

Liability / insurance

Local Support

Maintenance

Support

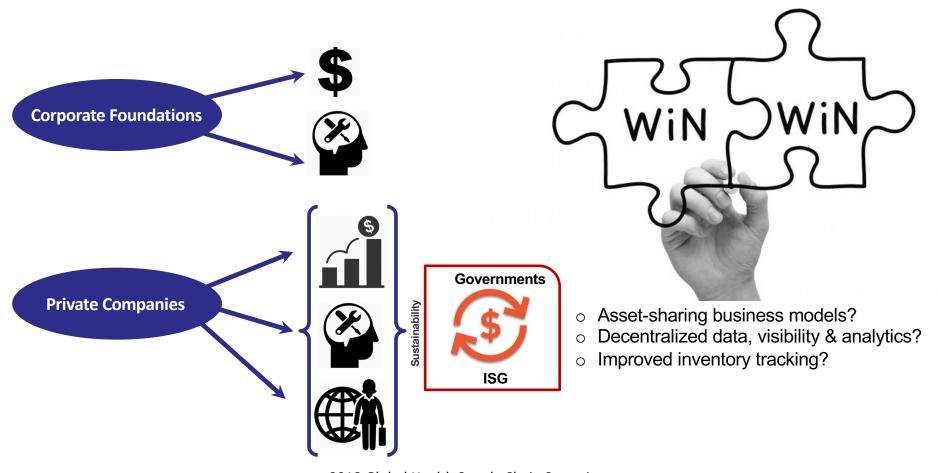
Training

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Public vs private sector



Partnership Opportunity Optimize the Innovation Disruption!





ONGOING PROJECTS Overview Pacific Islands, Vanuatu: Vaccine deliveries

- Contracts Awarded
- Swoop Aero from Melbourne, Australia
 - Epi and the Shepherd Islands
 - Erromango Island
- Wingcopter from Darmstadt, Germany
 - Pentecost Island

December 3-7: Phase I, North Efate Island Trial run

January to March: Phase II, scheduled EPI deliveries





ONGOING PROJECTS Overview Tanzania: Lake Victoria Challenge

LAKE VICTORIA CHALLENGE

Building a new mobility and delivery paradigm for African markets using cargo drones.

Conference, Expo and Challenge - June 2019

www.lakevictoriachallenge.org info@lakevictoriachallenge.org













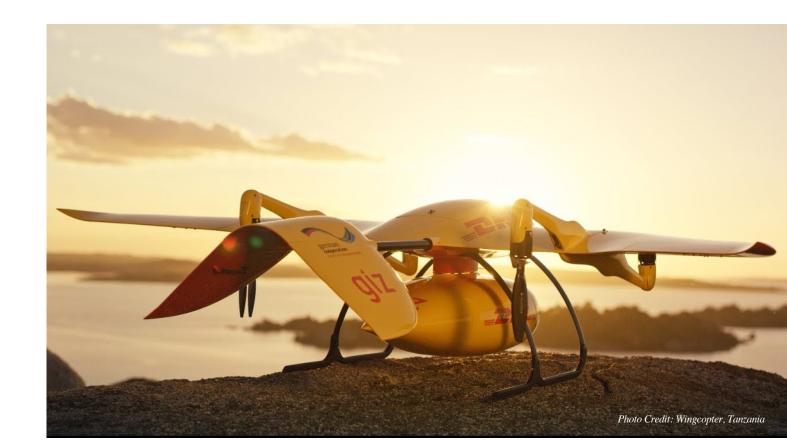


ONGOING PROJECTS Overview Tanzania: Lake Victoria Challenge



Thank you!

New website (coming soon): isg-health.org





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