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Sample Taxi: Ride-sharing for sample transportation

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VillageReach Mission and Impact



Save lives and improve health by increasing access to quality health care for the most underserved communities.

Our Mission

VillageReach programs increase access to quality health care for more than 20 million people throughout sub-Saharan Africa.

OurImpact

Background

- "SampleTaxi" or "AmosTaxi"
- BMGF Grand Challenges
- November 2017-April 2019



Problem

Long turnaround time for TB, EID and VL samples originating from peripheral health facilities in Mozambique Flooded but disjointed sample transportation network Irregular documentation and tracking

<u>Concept</u>

To reduce the transport time of specimens by using technology to coordinate a pool of drivers, on-demand VILLAGEREACH

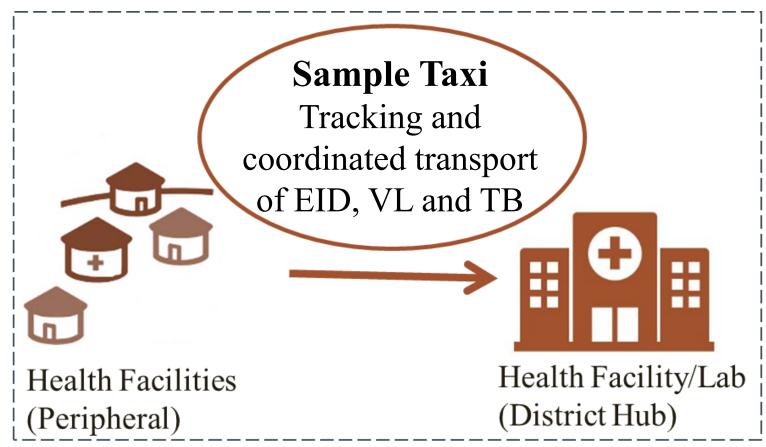


Sample Taxi Findings

- Applying a ride-sharing approach ("Uberizing") resulted in dramatic improvements in transit time, introduction of digital tracking of samples, and increased efficiencies in terms of kilometers traveled.
- Opportunities for optimization of system include diversification of drivers enrolled, increasing health worker buy-in, expansion of digital tracking, and integration of additional lab sample types for transport.

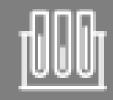


Sample Taxi Scope





What is the innovation?











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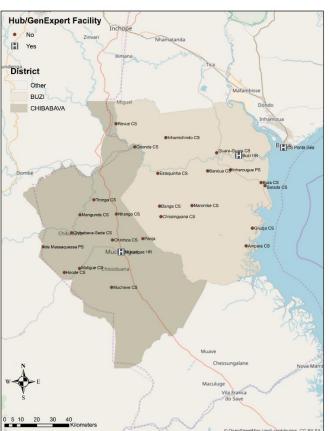
Samples collected from patient at health facility Health worker contacts dispatch hub using toll-free number

Dispatcher registers request into Fleet application; SMS generated to health worker Dispatcher identifies appropriate driver; drivers accepts/ rejects request Drivers QR code and pick up samples; photo and signature. Samples tracked throughout with GPS Samples delivered to district hub and/or laboratory; scanned upon delivery

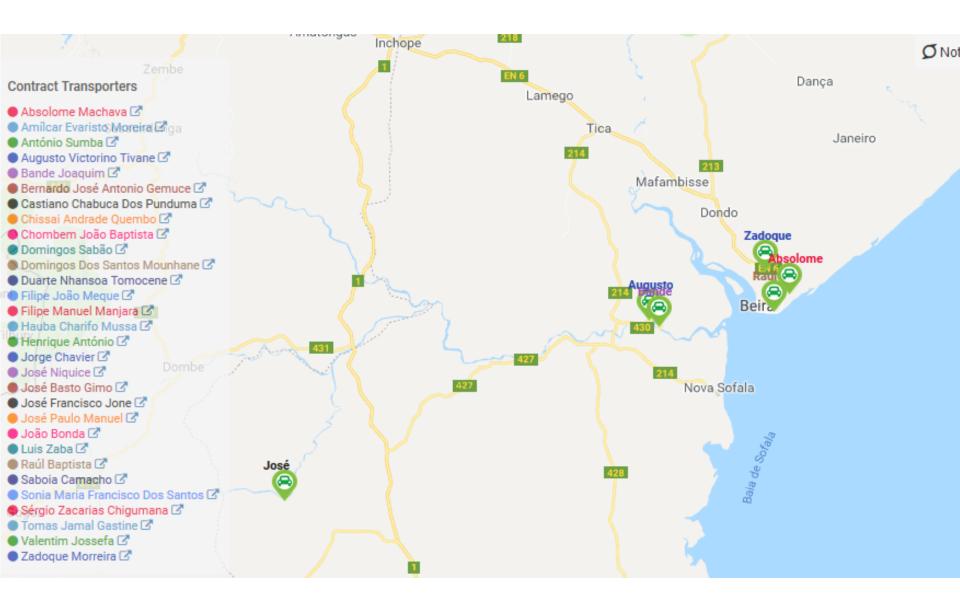


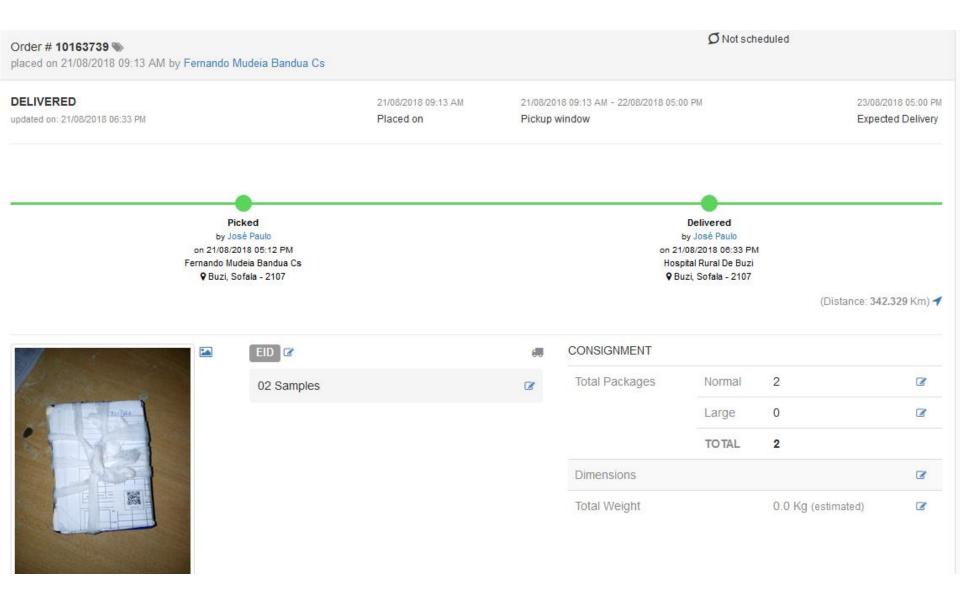
Project Location





- Launched July 3, 2018
- 2 Districts in Sofala Province (Buzi and Chibabava)
 - 30 HU participating
- 14 Drivers enrolled
 - MoH (10)
 - FHI360 (4)
- 1 Dispatcher based in VillageReach office in Maputo







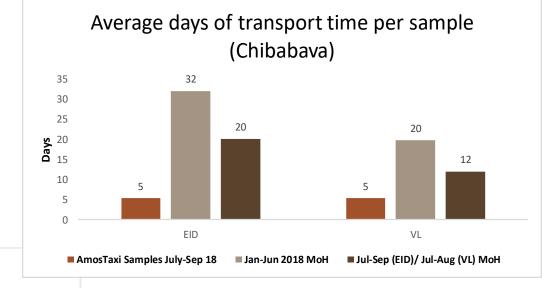
Calls received/samples transported

District	Calls Received	Samples transported
Buzi	58	462
Chibabava	37	223
Total	95	684

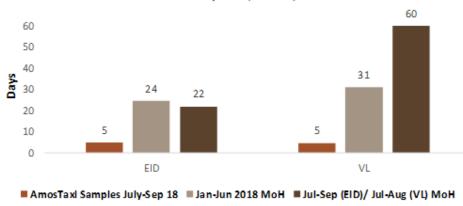
Date range: July 3, 2018 – November 21, 2018



Change in transit time = Time from patient to lab



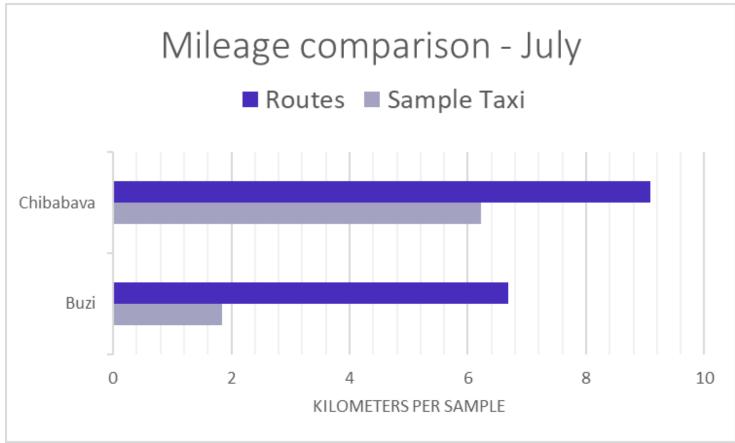
Average days of transport time per sample (Buzi)



EID and VL samples were transported in approximately 5 days when using Sample Taxi



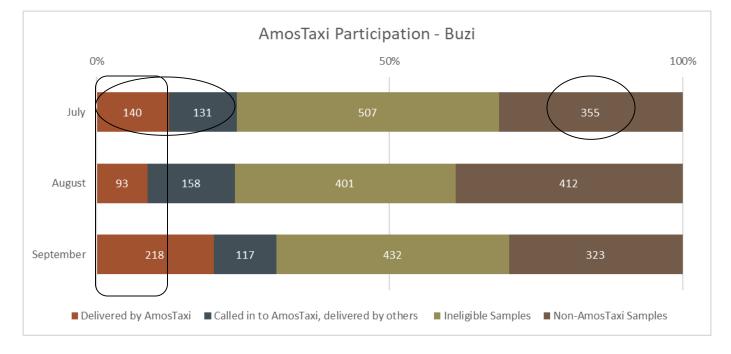
Kilometers per sample





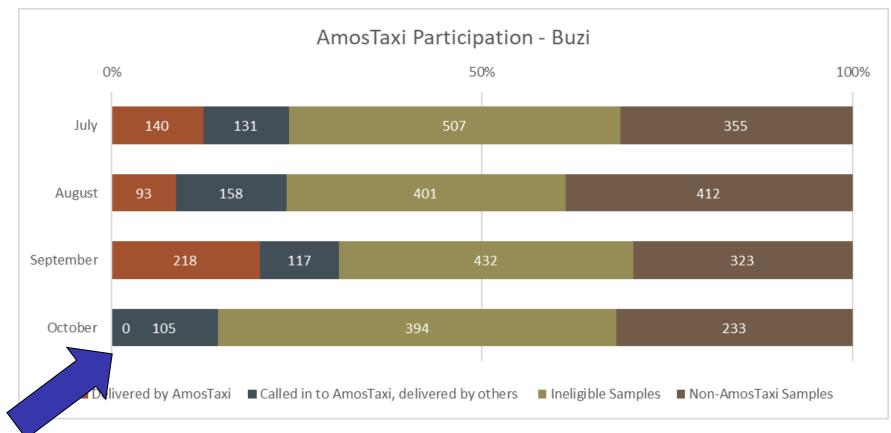
Volume transported by Sample Taxi

- 45% of eligible samples were reported to Sample Taxi
- Of those,
 Sample Taxi successfully coordinated transport for 52%





Driver numbers and diversification





Qualitative Results

Strengths

- Formalizing an informal practice
- Higher quality samples and better paperwork
- Elevated drivers' engagement with system
- Health workers transparency into network
- Clinical focus rather than transport focus

Limitations

- Transport unavailability reluctant to try again
- Competes with transport reimbursement/per diem
- Digital tracking covers portion of network



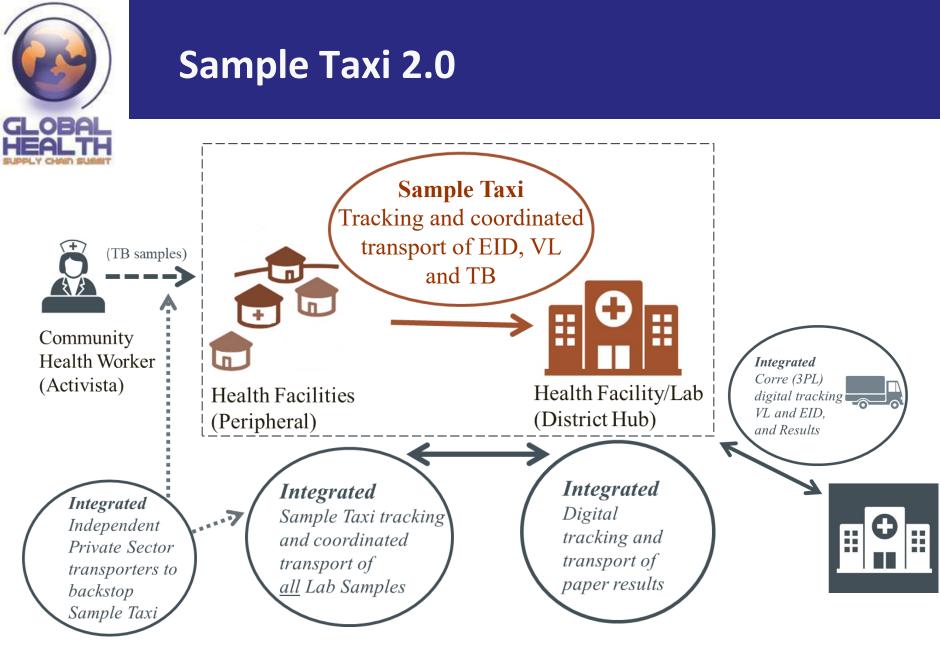
Sample Taxi Findings, revisited (1)

 Applying a ride-sharing approach ("Uberizing") resulted in dramatic improvements in transit time, introduction of digital tracking of samples, and increased efficiencies in terms of kilometers traveled.



Sample Taxi Findings, revisited (2)

- Opportunities for optimization of system include
 - diversification of drivers enrolled,
 - increased health worker buy-in,
 - expansion of digital tracking, and
 - integration of additional lab sample types for transport.





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