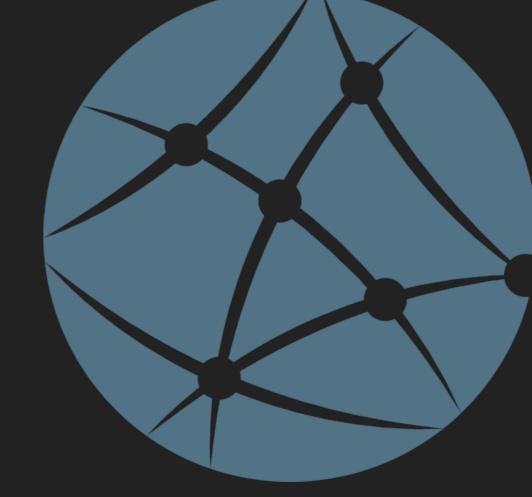
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AFRICA CDC WORKSHOP

ADDIS ABABA, ETHIOPIA

MARCH 27, 2017

AN INNOVATIVE APPROACH: NEAR REAL-TIME SOLUTIONS FOR LAB-BASED ELECTRONIC DISEASE SURVEILLANCE



SYSTEMONE DESIGN PRINCIPLES



Collection of data should be automatic and embedded in current workflow of people and systems.

System must give value at each level. (e.g. in Lab, community, MoH, and beyond)

System must trigger action for targeted effective response.

A PRIMER ON "CONNECTED DIAGNOSTICS"









Secure Communications Network

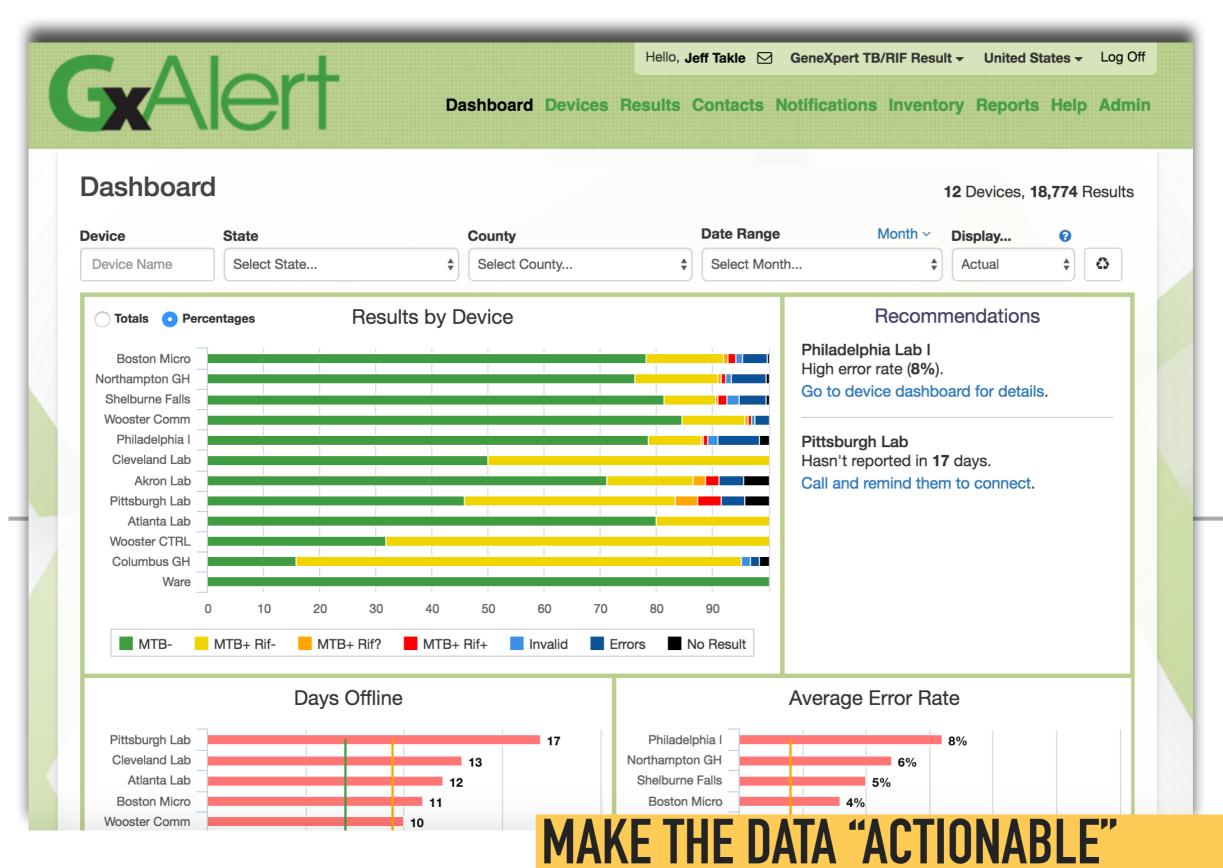
Server

GeneXpert™ Abbott m2000 Roche COBAS Alere Q...

Special firmware Global sim Cell boosters External antennas Country-level early warning Disease intelligence Reports, alerts, notifications Connect to other Health Systems

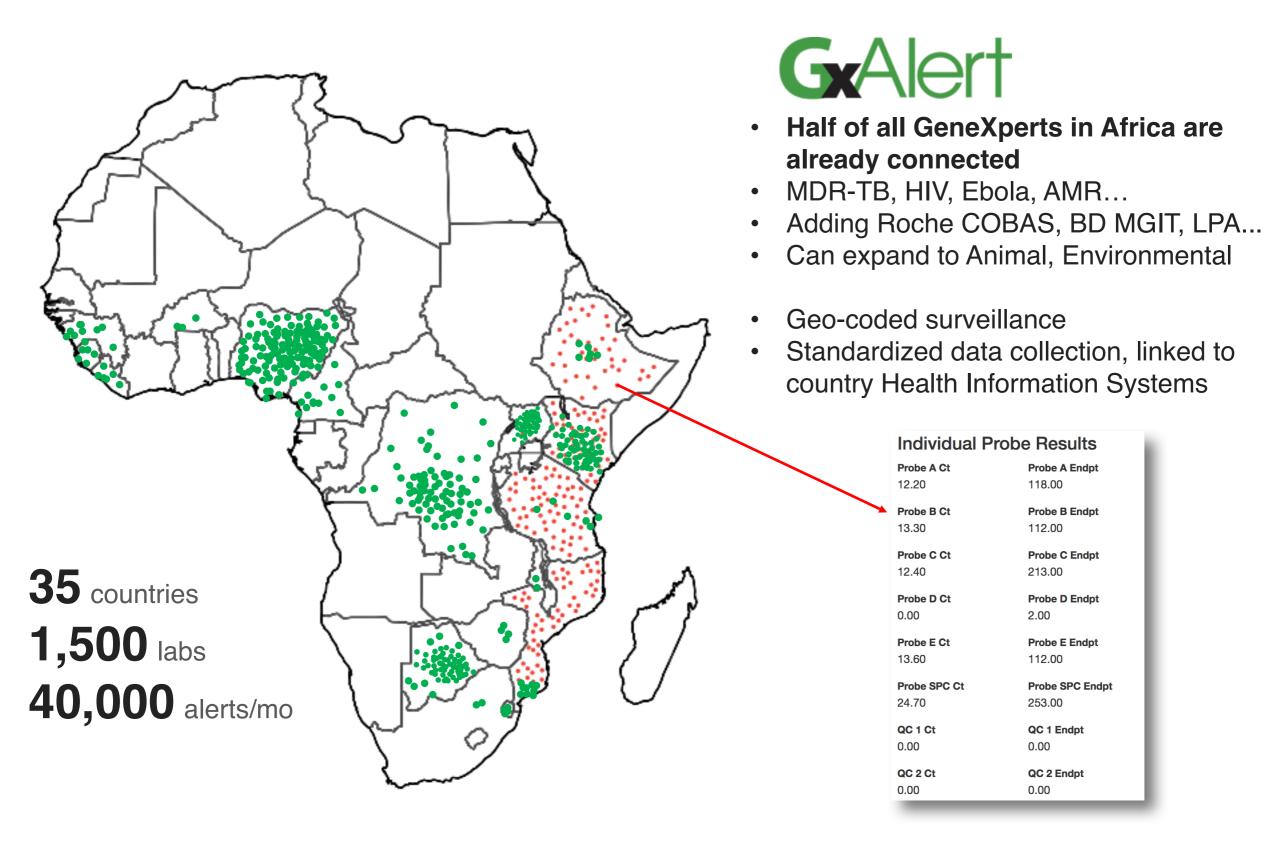
PUT PATIENTS ON TREATMENT FASTER





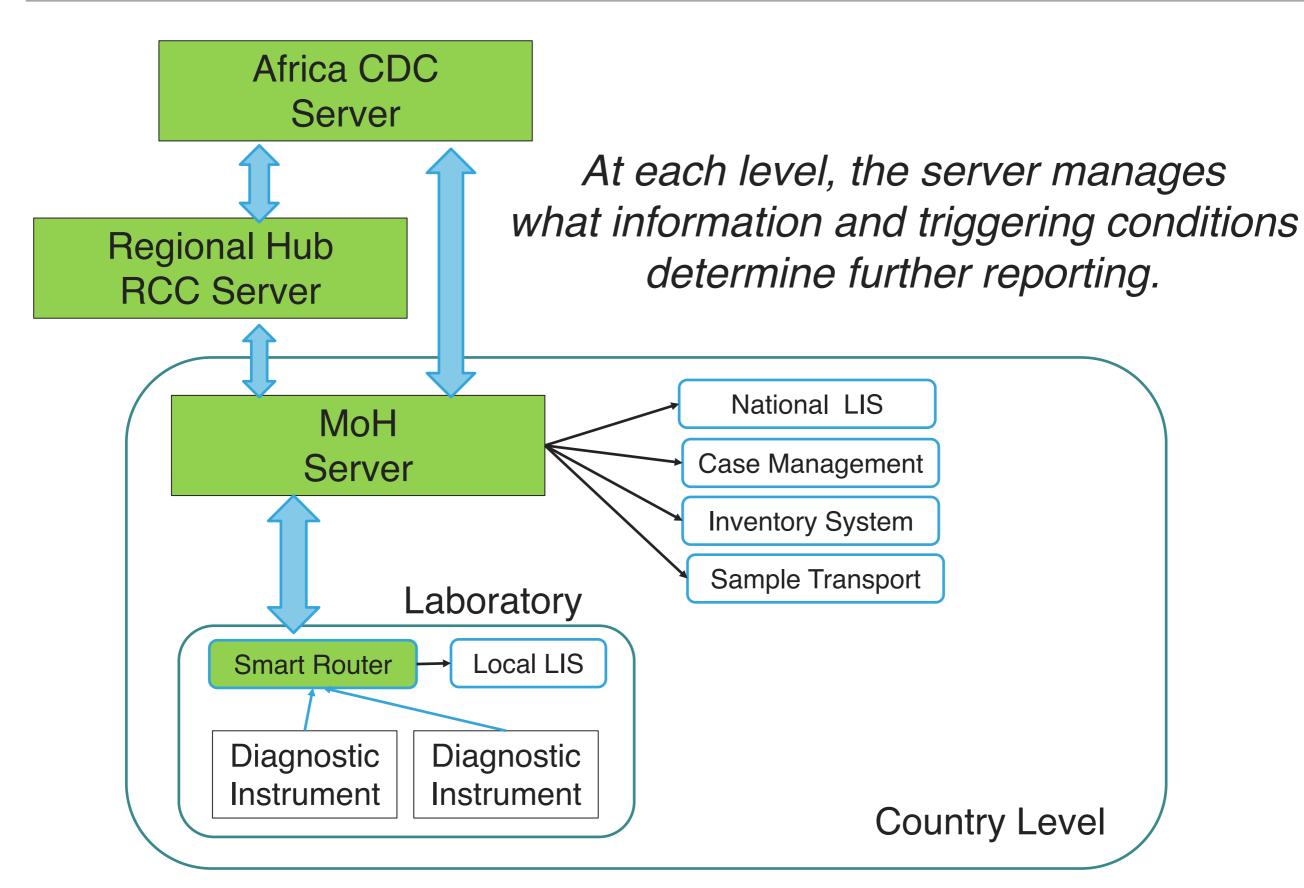
INTEGRATED DISEASE SURVEILLANCE





DISEASE INTELLIGENCE NETWORK — OWNERSHIP, ACCESS, AND CONTROL





WHAT COULD EARLY WARNING DISEASE INTELLIGENCE DO DURING THE NEXT OUTBREAK?



- Early Warning and Alert System @ Patient Zero
- Country EOC, Regional Hub, Africa CDC instantly sharing the same "view"
- Country uses platform for routine health operations
- Has embedded capability to "escalate" to Regional Hub, coordinate across hubs

First steps

- Leverage existing footprint with MDR-TB
- Connect the National Reference Laboratories

ACKNOWLEDGEMENTS



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- ► GLI
- ► WHO
- USAID
- ASLM
- CDC
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- **Gates Foundation**



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