

Southern African Centre for Infectious Disease Surveillance

USING SMART PHONES OCCUPIED WITH INTELLIGENT MOBILE AND WEB APPS FOR ELECTRONIC SYSTEM OF DISEASE SURVEILLANCE IN TANZANIA

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Southern African Center for Infectious Disease Surveillance



Current complexities of disease surveillance as it embraces One Health approaches



Towards One Africa, One Health

Only clinical cases are systematically captured by IDSR in Tanzania

> Community One Health Security



SACIDS Towards One Africa, One Health

First to notice clinical symptom, ecological change or any health risk/threat. Thus are best median for Timely Reporting & Contain Outbreak



• Detect outbreaks faster by,



- Integrating and/or combining these datasets
- Modeling and making sense out of this data





EpiHack: Brainstorm public health challenges and design fit for purpose tools to address them



> Prototypes developed

- Collect health events rapidly
- Provide feedback to data collectors
- Visualize and Analyze data
 - Perform Contact Tracing

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> AfyaData for Community One Health Security





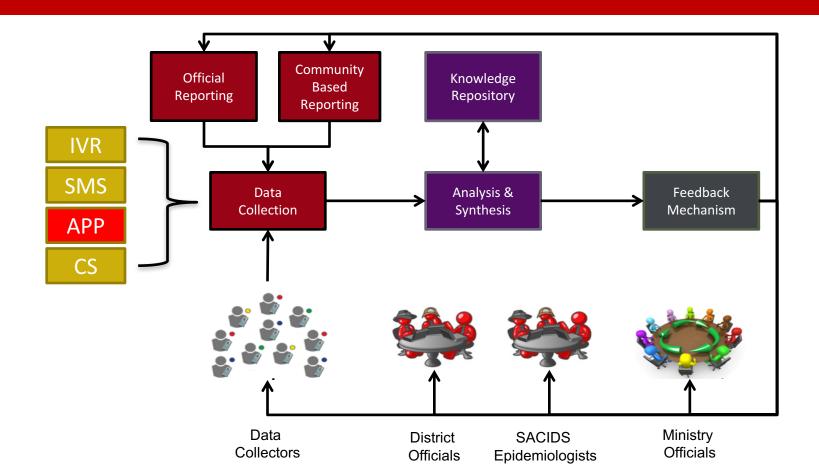


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- Training
- Collecting Data
- Reviewing

> Integrated approach: capture, reporting & feedback



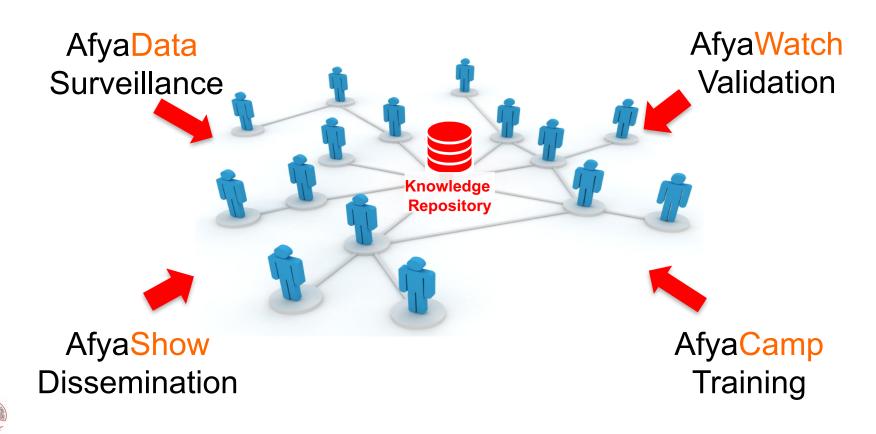
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> some events identified

- A mysterious disease that killed a large number of goats and sheep (confirmed as PPR/CCPP diseases)
- impetigo-like outbreak in school children
- suspected rabies cases in cattle (confirmed to be East Coast fever infections)
- climate change-induced behavior change in baboons feeding on livestock and humans.



Working towards: Community as health sensors



> thank you

Acknowledge support from IDRC CRDI skollglobal threats fund



Outbreaks are inevitable, pandemics optional