Timely Delivery of Lab Result Notifications to Health Care Workers

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Baobab Health Trust

Diagnosis is challenging

Worst Doctor to Patient Ratio

Malawi	1 : 88,000
USA	1 : 188

Lab improves diagnostic process

Delayed notification of results
- inhibits delivery of patient care
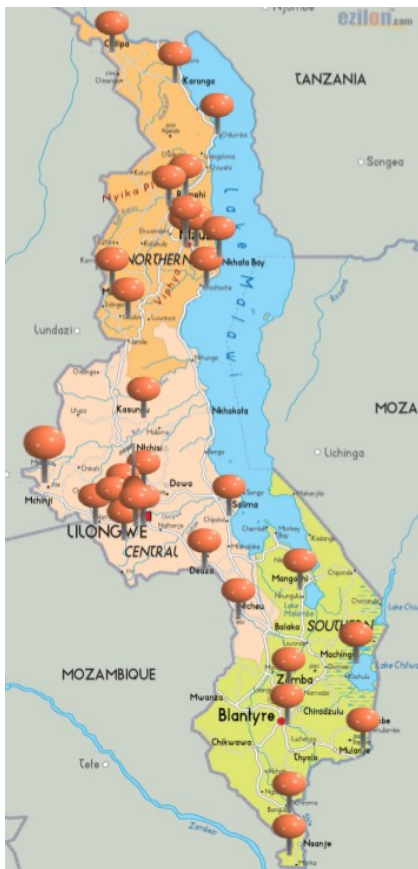

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Problem

Late notification and delivery of lab results

Delayed diagnosis and treatment

Lead to:
- Worsening of patient illness
- Prolonged length of stay at hospital
- Preventable deaths

Baobab Health

Baobab Health Trust

- Since 2001
- Build Electronic Medical Record (EMR) system for Ministry of Health
- Over **65** high-burden health facilities
- Over **4,000,000** patients registered.

- ART
  - **1,000,000** people HIV infected.
  - **500,000** on treatment.
  - **40%** are managed by EMRs

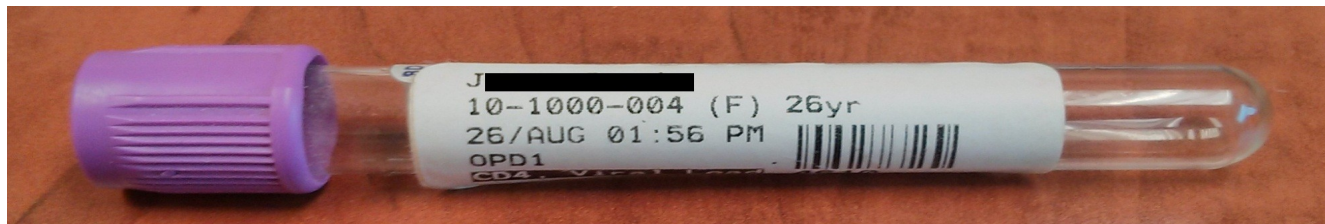- Technical implementer of national Lab Info Management System

Lab Information Management System (LIMS)

Electronic ordering of lab tests

Real-time tracking of specimen

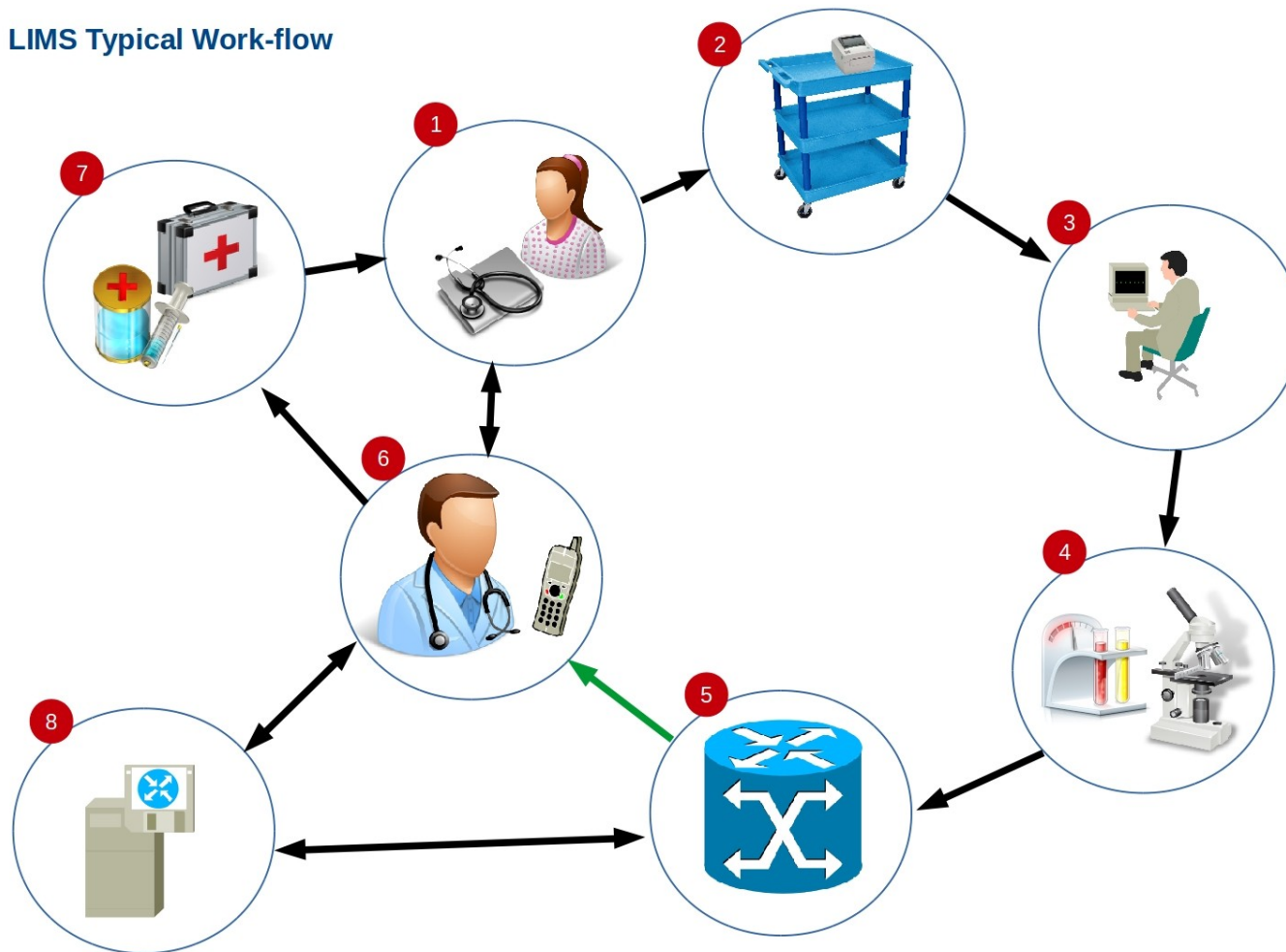Dynamic work-lists and standard operating procedures
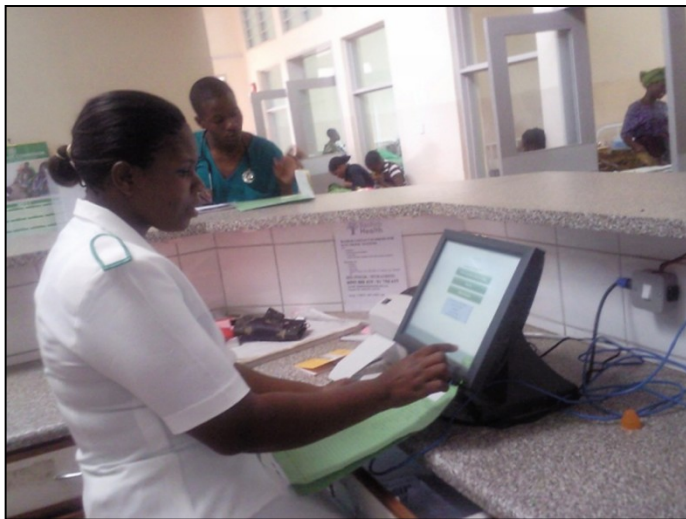
Electronic result reporting

Proposed Solution.

Automated notification of lab results via SMS

LIMS Typical Work-flow

Builds on existing infrastructure

- Open source, low-cost power-efficient hardware, battery backup, wide area network (GRPS, Wireless)
- Local development & support

Way forward

LIMS pilot at Kamzu Central Hosp.

To be scaled up to:
- 4 central hospitals
- 28 district hospitals

Need SMS notification to health care workers these 32 facilities

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Thank You

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