



**Transforming Public Health Laboratories in
East Africa -
A case of East Africa Public Health Laboratory
Networking Project, Kenya**



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Outline of Presentation

1. Background: Where we began

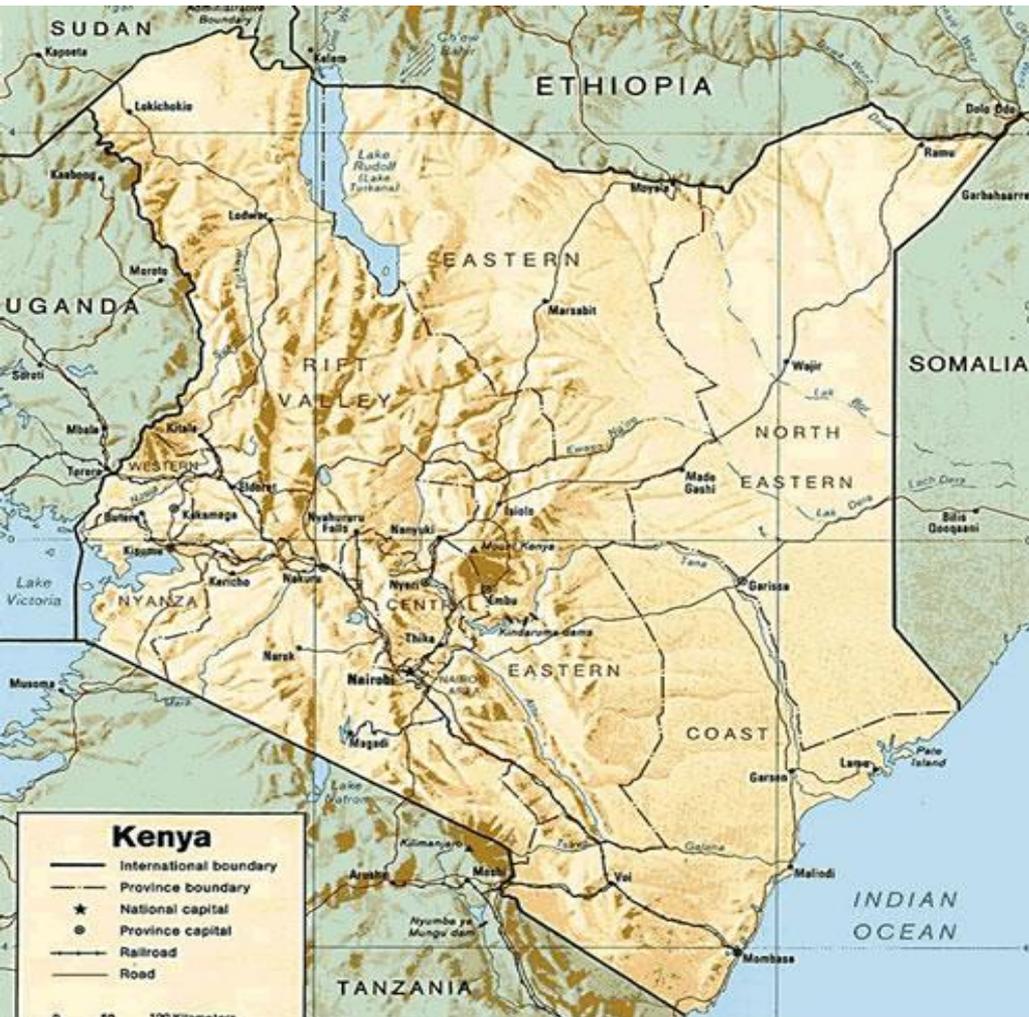
2. Achievement: What is different since we Began

3. Where we need to go

Institutional Background

- ❖ Old infrastructure - NPHLS was built, 1920
- ❖ “Public Health Threat “ Kenya is a hub of Neglected Tropical Diseases, Emerging & Re-emerging Infectious Diseases. Major transit hub
- ❖ “Public are at risk from unchecked commodities”: Risky, hazardous and dangerous commodities being brought to our country or fake; .
- ❖ ³ Specific program driven laboratories

Public Health Laboratories, Kenya Vs. population of 42M



Profile of Kenyan laboratories

(1) NPHL is interface between county labs, and private labs

4 University labs, 5 Research

47 county & city Labs

300 sub counties/ health center labs,/private labs

Background: Where we Began

Infrastructure



Safety



Documentation/ QMS



- Lack of space to perform work efficiently,
- Shortage of staff
- Lack of equipment and supplies
- Poor QMS

EAPHLN Project -Key Milestones

6

Board
Date

Effectiveness

Mid-Term
Review

Project
Completion

May 2010

*September 2010-
January 2011*

March 2014

March 2016

Accreditation &
Lab Improvement
Plans

Roll out of new
technologies

Upgraded &
more productive
laboratory
facilities

Functional
public
health lab
network



EAPHLN - KENYA





2. What is different since we Began

Achievement

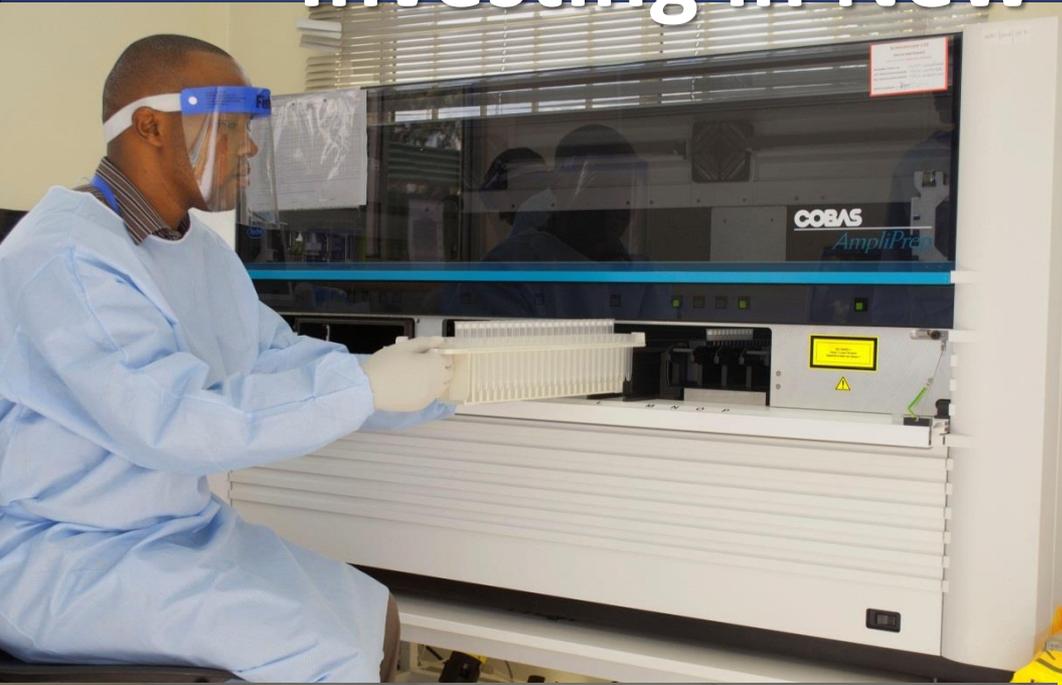
Improved Infrastructure and Test Menu

New NPHLS, Kenya



- ✓ Public Health Bacteriology Unit
- ✓ Parasitological/NTDS Unit
- ✓ Virology
- ✓ Molecular Biology
- ✓ Public Health Food safety
- ✓ Quality Management Unit
- ✓ Water and Food laboratory
- ✓ Oncology and immunology

Investing in New Technologies

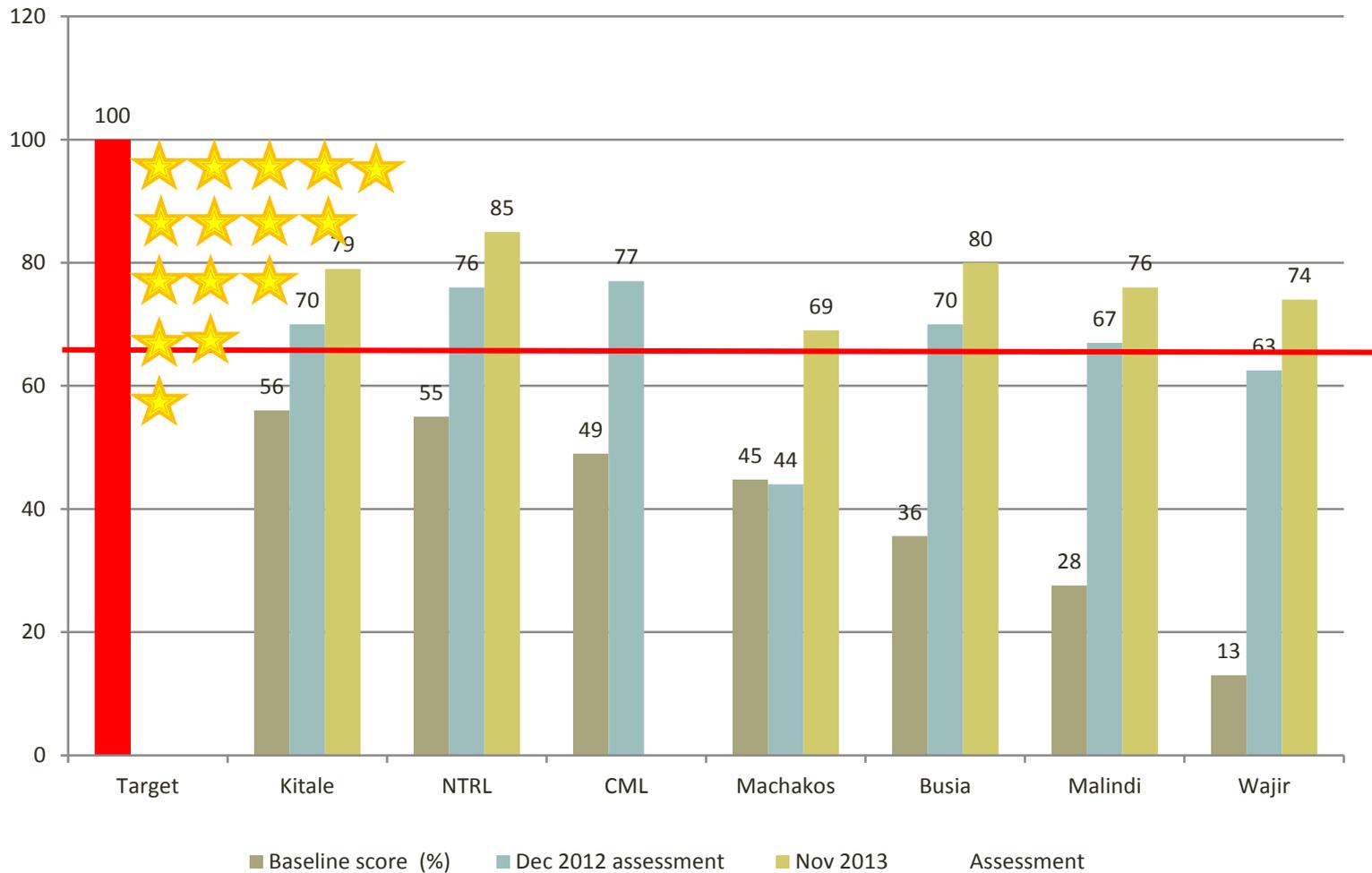


Regional Reference Laboratories



The Impact Of Investment In Health System

QMS Improvement -Trends of Laboratory SLIPTA Performance



Public Health Focus -Community Safety

Food



water



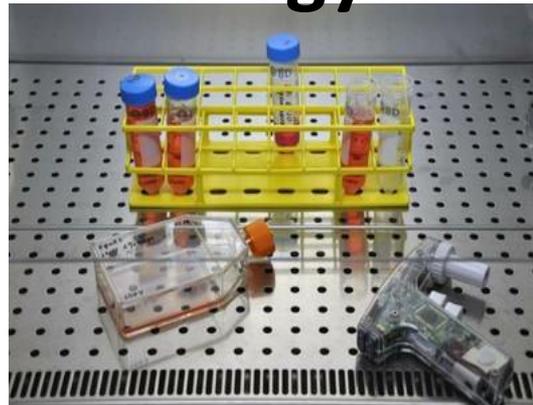
Environment



Drugs



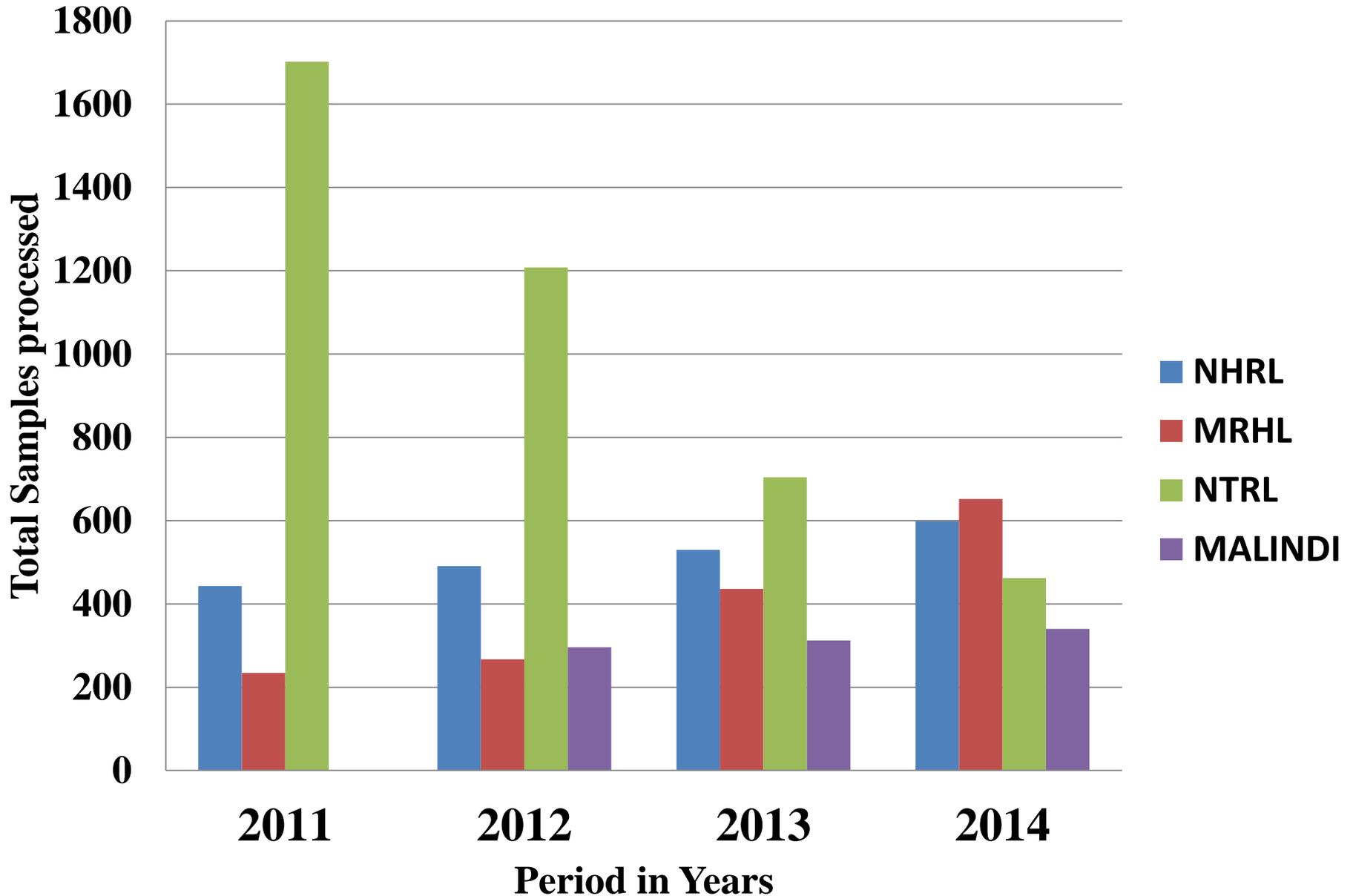
Toxicology



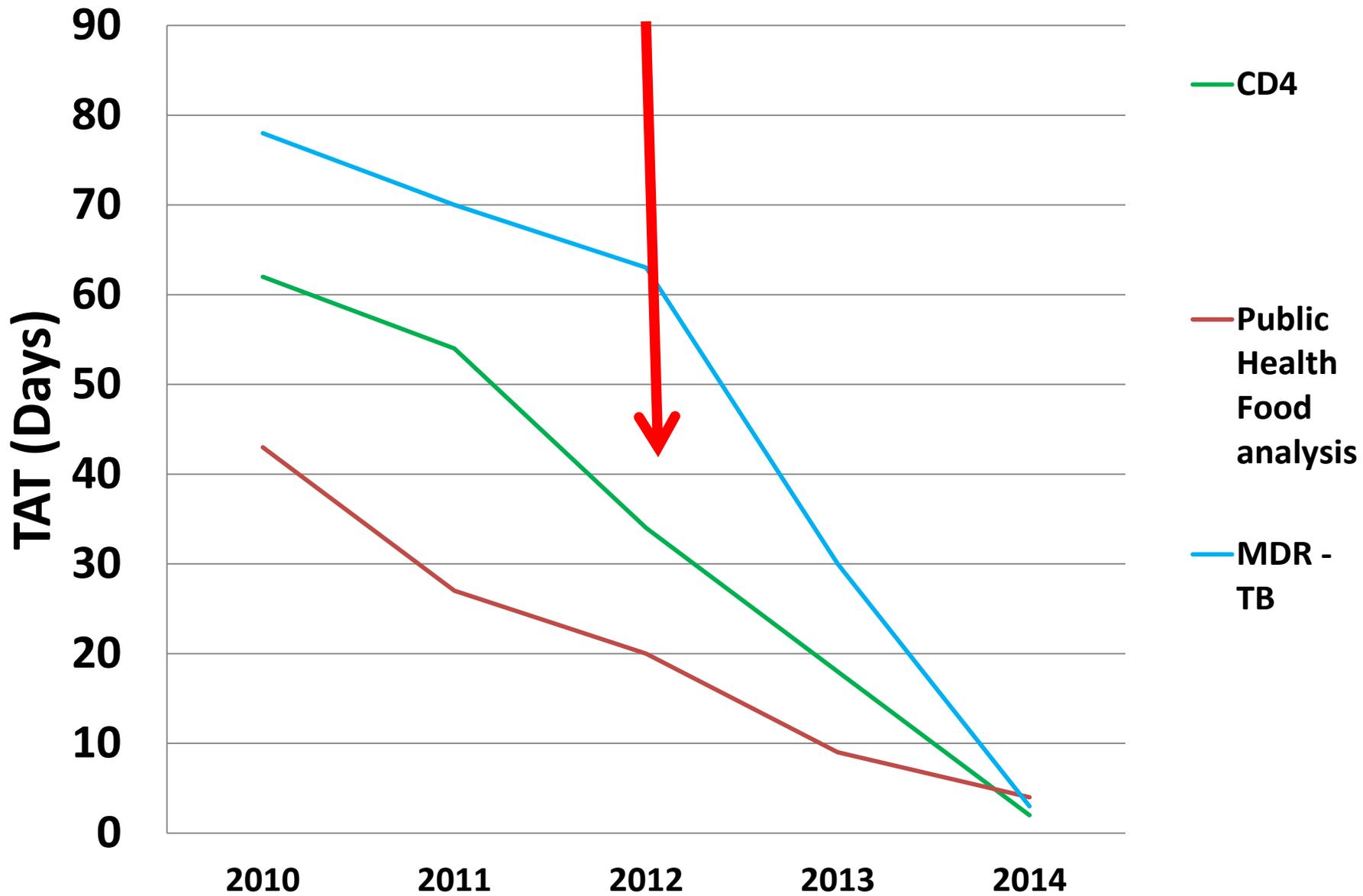
Disinfectants



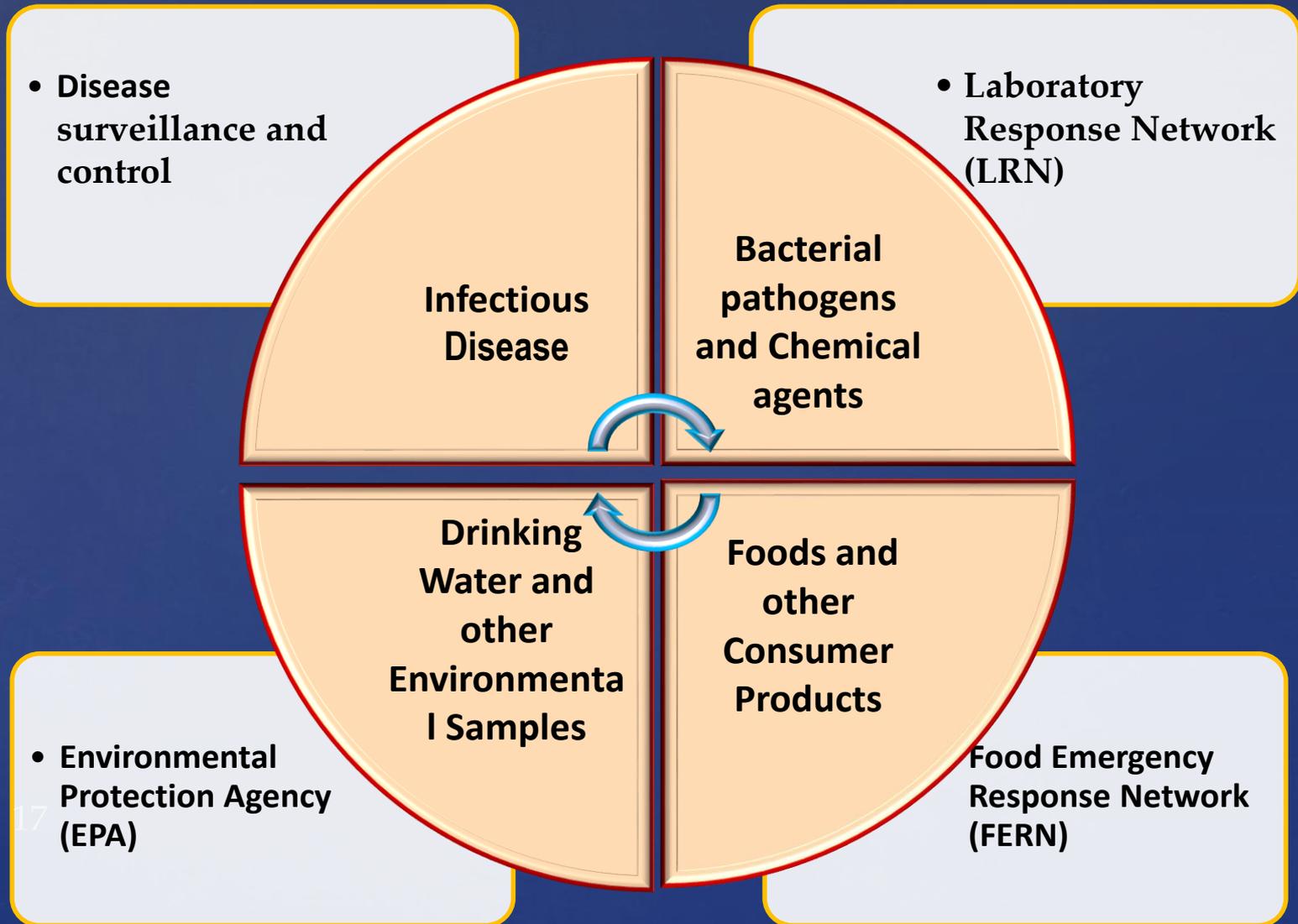
Selected Laboratories in NPHLS, 2011-2014



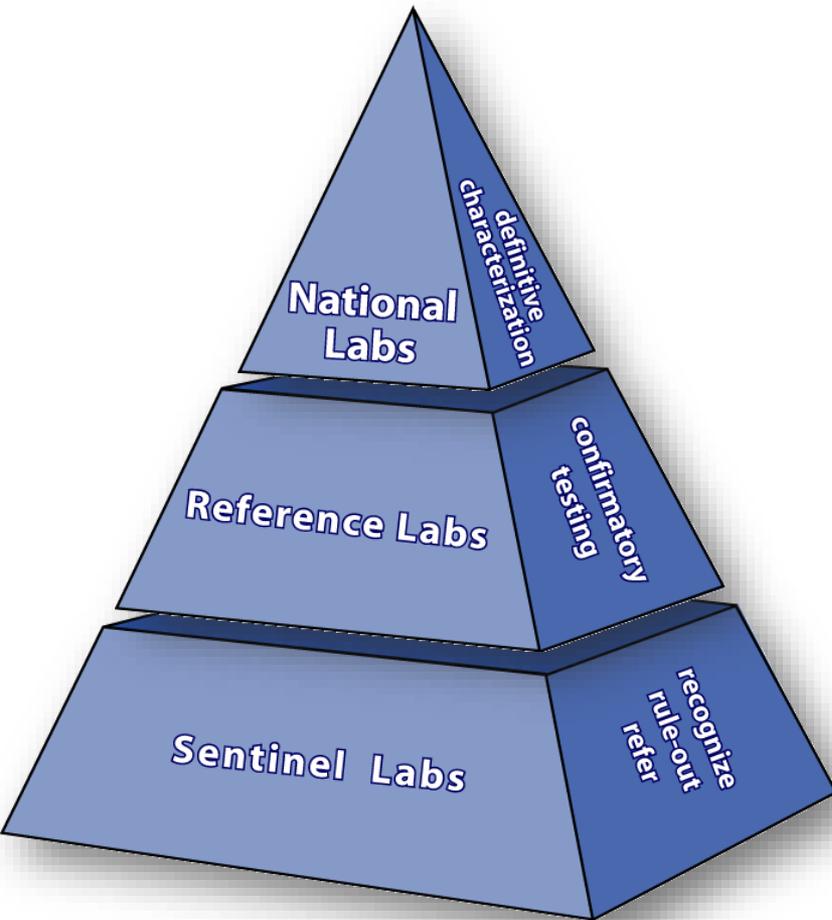
Turn Around Time in Selected Laboratory Assays



Expanding Ability to Emergency Response



Introduction of Laboratory Response Network (LRN)



Standardized diagnostics

Secure communication, alert, reporting system

Training and instrumentation standards

Quality standards testing

Assurance of biosafety and biosecurity



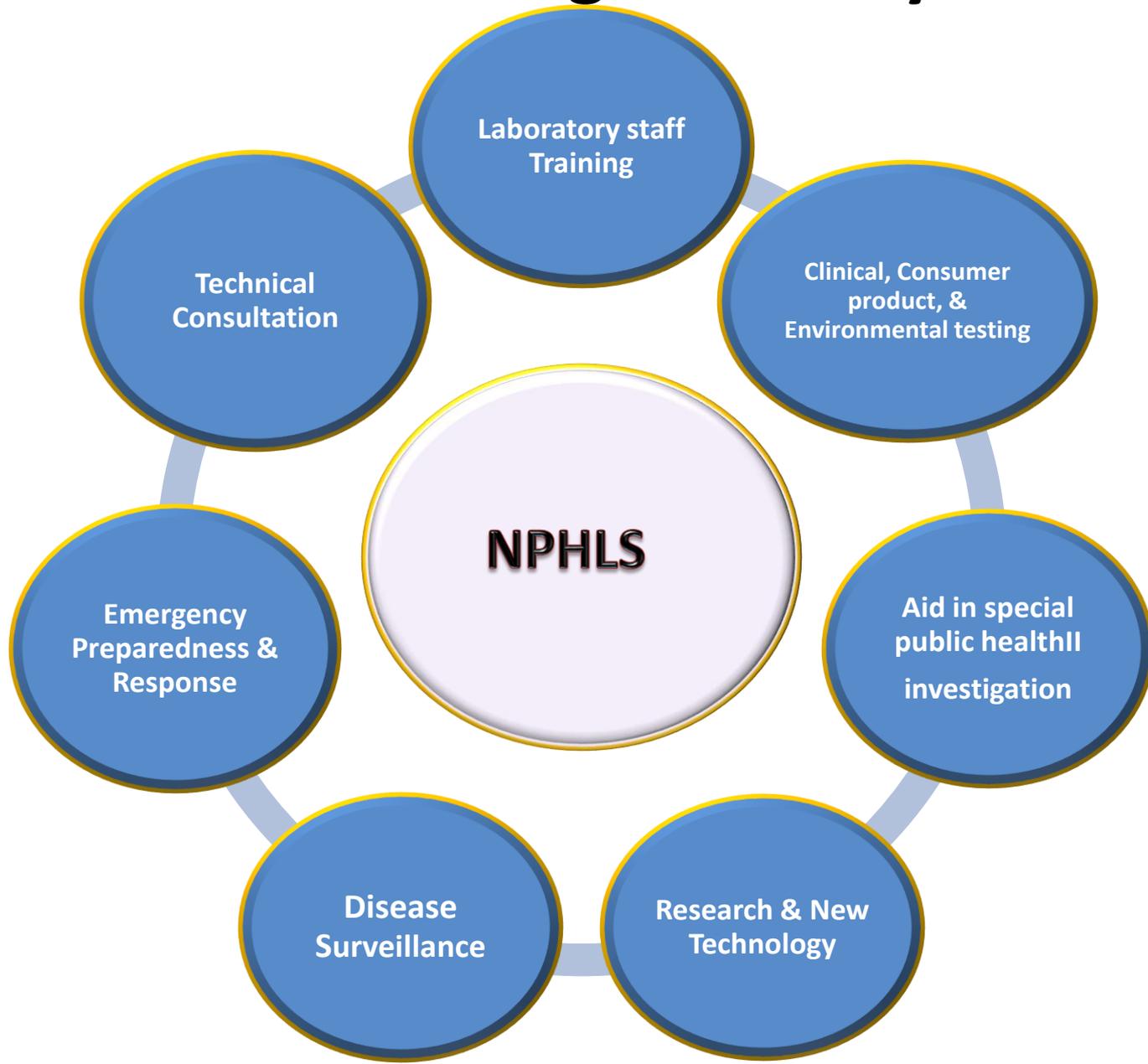
3. Where we Need to Go

Where we Need to Go

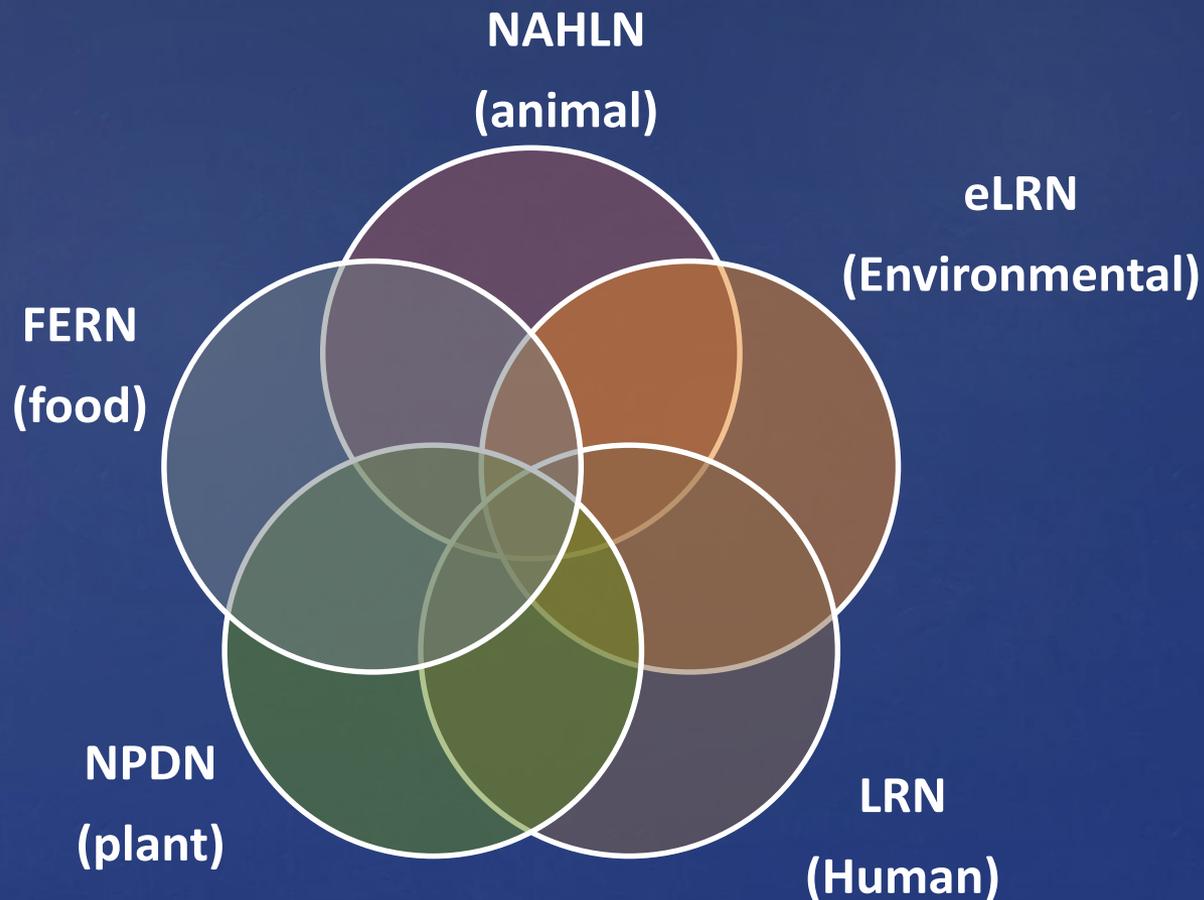
We aim to take a **premiere** place amongst
International Laboratory Services

Set up a regional **benchmark**,

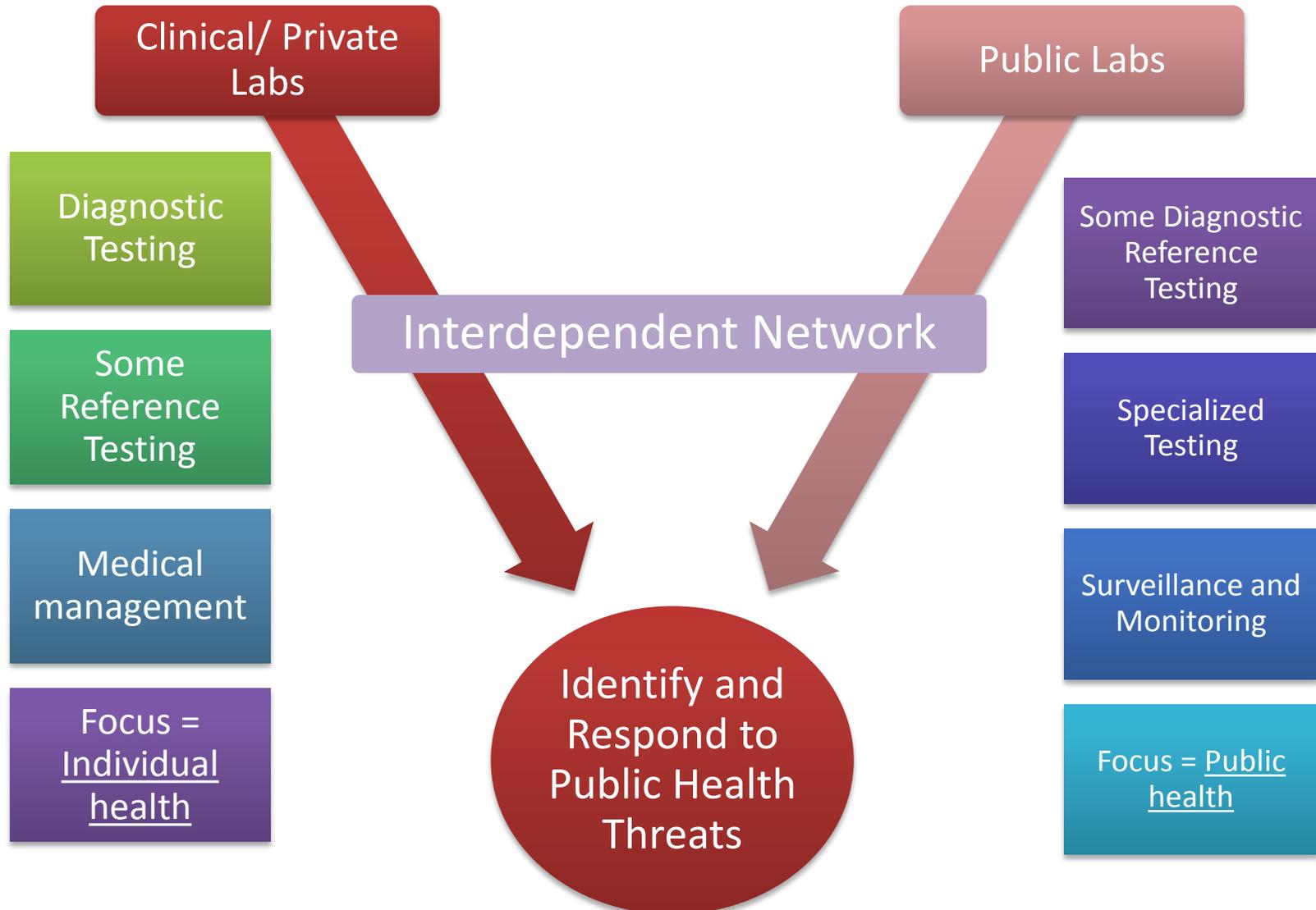
Reclaiming the Glory



Integrated Consortium of Networks



Strengthening Coordination



Acknowledgements

- MOK, Kenya
- EAC, ECOSA
- EAPHLN
- World Bank
- CDC
- ASLM



The Future of Public Health Services is in Our Hands

**MERRY CHRISTMAS
&
HAPPY NEW YEAR**

