

2015 APHLTM ANNUAL MEETING

and ninth government environmental laboratory conference



*Performance
Driven —
Racing to
Results*



2015 APHL™ ANNUAL MEETING

and ninth government environmental laboratory conference

CDC's Commitment to National Laboratory Systems to Achieve Global Health Security

Beth A Skaggs, PhD

Laboratory Team Lead

Division of Global Health Protection

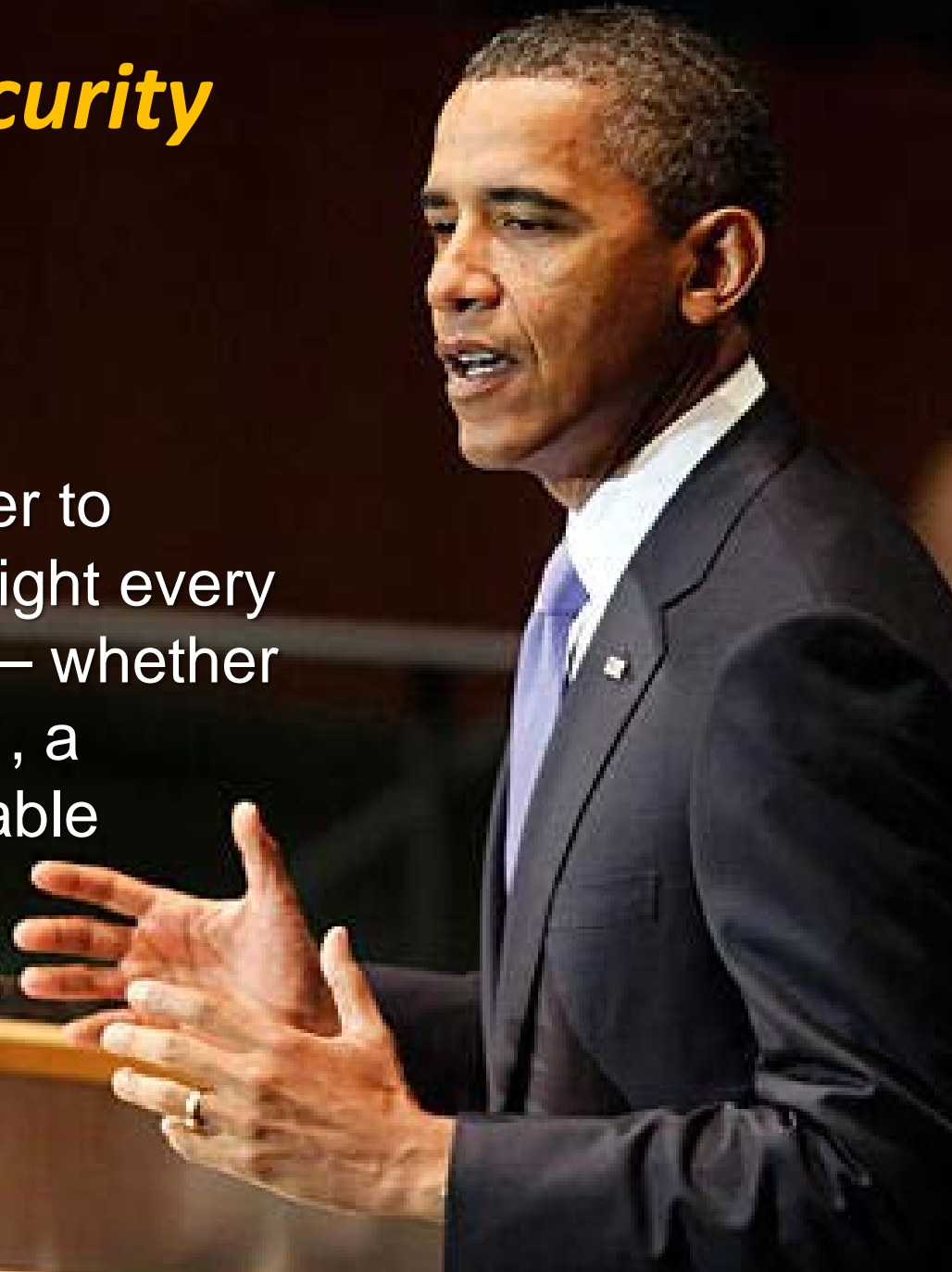
Centers for Disease Control and Prevention



Global Health Security Agenda

“...We must come together to prevent, and detect and fight every kind of biological danger – whether it’s a pandemic like H1N1, a terrorist threat, or a treatable disease.”

President Barack Obama, 2011



INTERNATIONAL
HEALTH

REGULATIONS

(2005)

SECOND EDITION



World Health
Organization

**Global Health
Security Agenda is
focused on
accelerating
progress toward full
implementation of
International Health
Regulations**

IHR (2005)

- a process for international collaboration and decision-making during public health emergencies
- reporting of specific diseases plus any potential international public health emergencies regardless of origin or source
- a global network of 24x7 National Focal Points (NFP)
- core capacities for surveillance and response for all countries at all levels (local, intermediate, national)

Less than 20% of the world is prepared to respond

- ❑ All 194 countries of the world committed to International Health Regulations
- ❑ June 2012 deadline – only 16% fully prepared to detect and respond to pandemics





President Barack Obama, Sept 2014
GHSA Summit Greeting Ebola
Survivor Dr. Melvin Korkor from
Liberia

Global Health Security Agenda

**Prevent avoidable
catastrophes**



Detect threats early

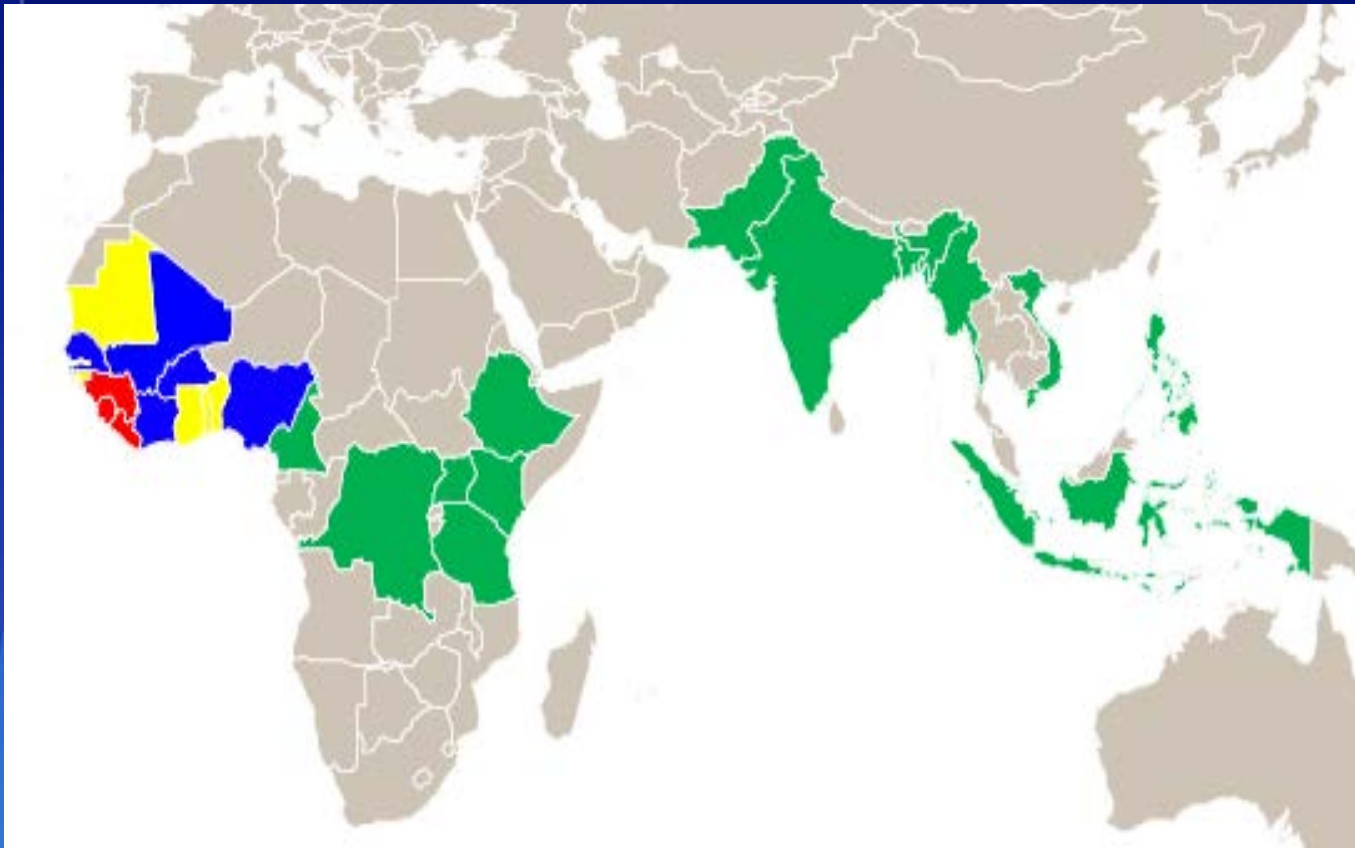


**Respond rapidly
and effectively**



GHSA Phase 1

25 +3 Countries



Ebola Affected Countries	GHS
Guinea	Bangladesh
Liberia	Burma
Sierra Leone	Cameroon
At-Risk Countries (non-GHS)	DRC
Benin	Ethiopia
Gambia	India
Ghana	Indonesia
Guinea-Bissau	Kenya
Mauritania	Pakistan
Togo	Philippines
At-Risk Countries (GHS)	Tanzania
Cote d'Ivoire	Uganda
Mali	Vietnam
Nigeria	
Senegal	
Burkina Faso	

Action Packages to Achieve Targets



Antimicrobial Resistance



National Laboratory Systems



Emergency Operations Centers



Zoonotic Diseases



Surveillance



Linking Public Health with Law Enforcement and Multisectoral Rapid Response



Biosafety/Biosecurity



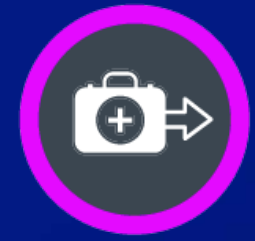
Reporting



Immunization



Workforce Development



Medical Countermeasures and Personnel Deployment

National Laboratory System Action Package

- ❑ **Five-Year Target:** Real-time biosurveillance informed by a national laboratory system with effective modern point-of-care and laboratory-based diagnostics
- ❑ **Desired Impact:** National Laboratory System capable of safely and accurately detecting and characterizing pathogens causing epidemic disease from all parts of the country
- ❑ **Lead Countries:** US, Thailand, and South Africa

Disease Control and Response

Results

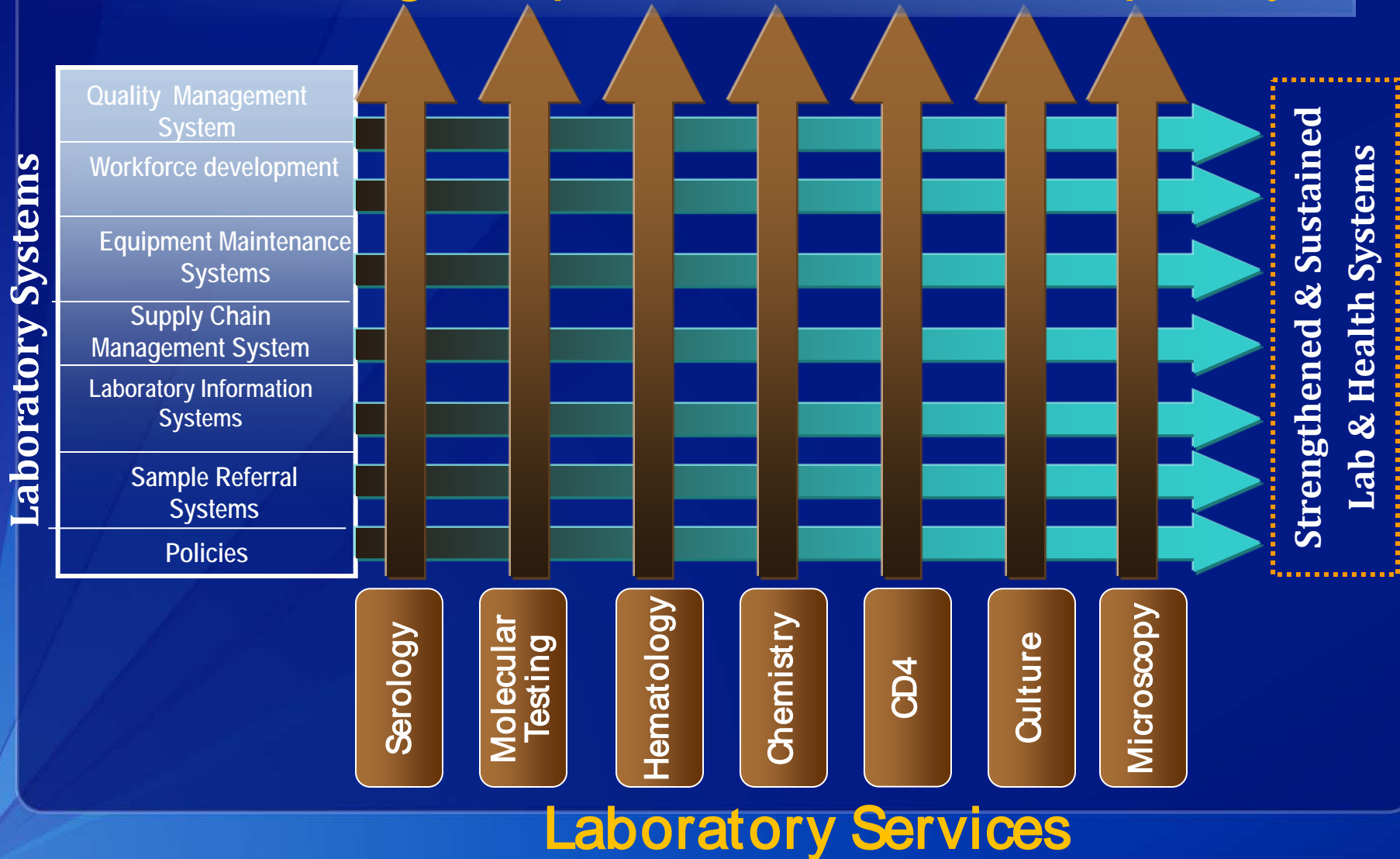


Specimens



Surveillance to identify disease outbreaks

Intersection between Laboratory Systems and Pathogen Specific Detection Capacity



Sustaining GHSA investments in National Laboratory Systems

- Host country ownership
- Local partners
- Stronger public health institutions
- Functional linkages between human and animal health

Technical Approach

- Update lab strategic plans/policies to include public health lab functions
- Expand lab quality improvement program
- Develop lab managers and leaders
- Enhance linkages: clinical and public health labs; human and animal labs; lab to epidemiology; lab to EOC
- Implement tier specific diagnostics
- Strengthen specimen referral network

Improving outbreak detection – Uganda

SAMPLE COLLECTION



SAMPLE TRANSPORT – MOTORCYCLE COURIER AND OVERNIGHT MAIL



CENTRALIZED LAB TESTING



EMERGENCY OPERATIONS CENTER OUTBREAK CONTROL



LAB RESULTS SENT ELECTRONICALLY, PRINTED INSTANTLY IN FIELD

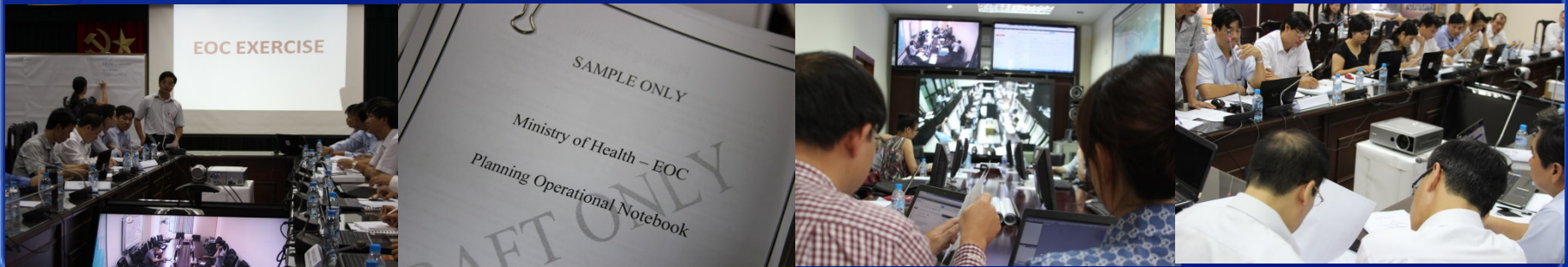


PATIENT CARE



Testing the Systems: Field Exercises

- Objectives
 - Begin building MOH capacity to design, plan, and implement exercises—not just be players
 - Verify accuracy of laboratory testing
 - Provide opportunity to practice enhanced EOC functions
 - Confirm data transmission across information systems
- Collaboration with MoH
 - HQ: DEO and DOD's DTRA
 - Hanoi: ID, DGHA, by TDY DGHP and DEO
 - External partners: WHO and Oxford







Saving Lives.
Protecting People.™

**LEARN MORE ABOUT HOW
CDC WORKS FOR YOU.**



Centers for Disease Control and Prevention

1600 Clifton Road NE, Atlanta, GA 30333

Phone: 1-800-CDC-INFO (232-4636)/TTY: 1-888-232-6348

E-mail: cdcinfo@cdc.gov

Web: www.cdc.gov