

One Year Later, Where Does the U.S. Response to Ebola Stand?

Kaiser Family Foundation, Washington, DC

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Trajectory of the International Response

2014

- **March:** First cases in Guinea, Liberia
- **May:** First cases in Sierra Leone
- **June:** MSF declares Ebola to be “out of control”, requests assistance
- **August:** WHO declares Ebola “public health event of international concern”
- **September:** UN Mission for Emergency Ebola Response (UNMEER) established, flow of international assistance increases

2015

- **April:** Guinea, Liberia, & Sierra Leone release recovery plans
- **July:** UNMEER closed
- **September:** WHO declares Liberia Ebola-free
- **November:** WHO declares Sierra Leone Ebola-free; last known case of Ebola in Guinea recovers and country begins 42-day waiting period to be declared Ebola free; new cases in Liberia

The U.S. Response

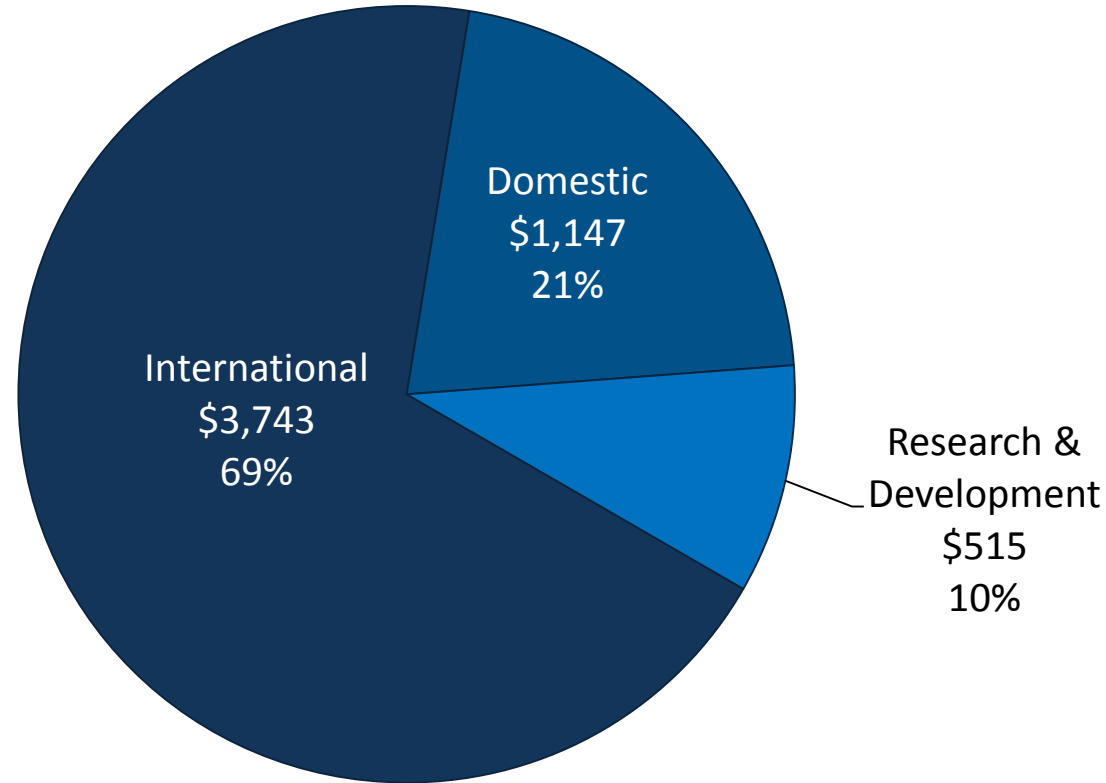
- **Key U.S. response dates/announcements:**
 - **August 4, 2014:** USAID activates Disaster Assistance Response Team (DART)
 - **August 6, 2014:** CDC activates its Emergency Operations Center (EOC) to the highest level in support international Ebola response
 - **September 16, 2014:** President Obama announces an expanded US response, including the deployment of up to 3,000 US military personnel
- **U.S. International Funding:**
 - Prior to passage of the emergency appropriation, USAID, CDC, & DoD had committed more than \$770 million to the response effort

Emergency Ebola Funding

- **Emergency Funding Request:** President Obama sends \$6.2 billion emergency funding request to Congress on November 5, 2014
- **Emergency Appropriation:** Congress includes \$5.4 billion in emergency funding in the FY15 Omnibus bill signed into law on December 16, 2015
 - Does not count toward existing budget caps on discretionary spending
 - Funding could be used to reimburse prior expenses

Emergency Ebola Funding Overview, FY 2015 Omnibus

In Millions



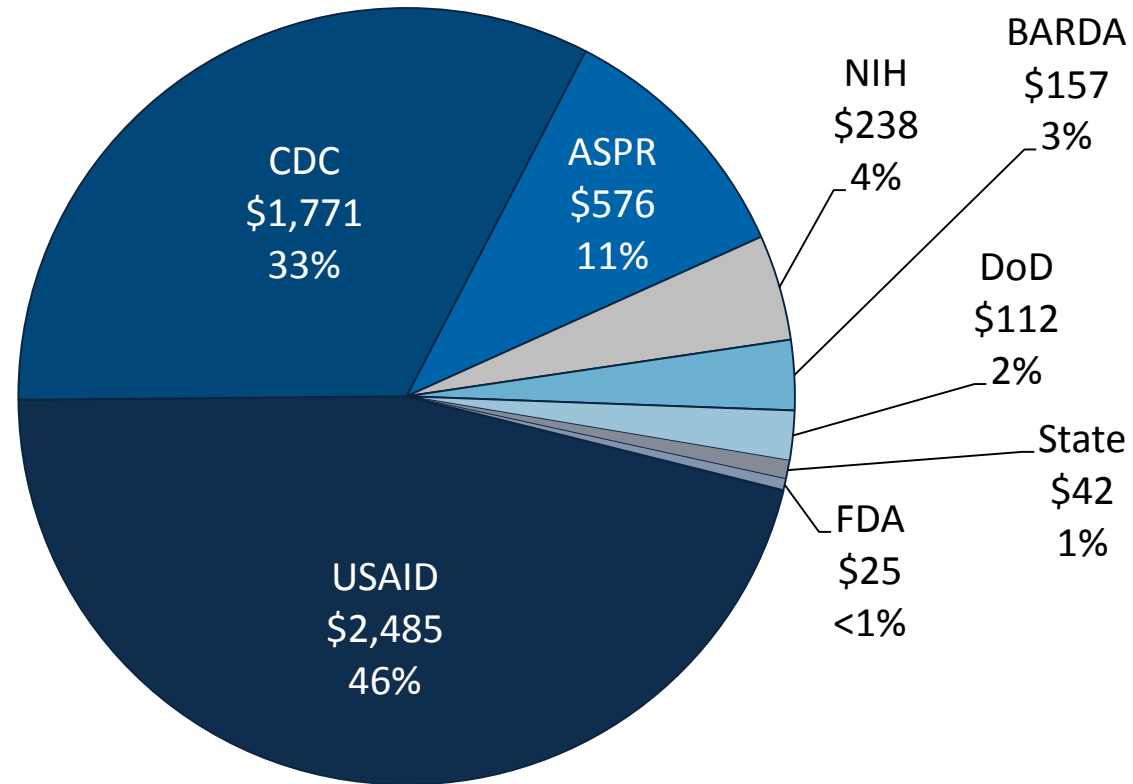
Total: \$5.4 billion

NOTES: "International" includes funding for the U.S. Agency for International Development (USAID), the Department of State, the Centers for Disease Control and Prevention (CDC), and the Department of Defense (DoD). "Domestic" includes funding for the CDC and the Office of the Assistant Secretary for Preparedness and Response (ASPR) at the Department for Health and Human Services (HHS). "Research and Development" includes funding for the National Institutes of Health (NIH), Food and Drug Administration (FDA), ASPR and DoD. It is possible that some of \$1.1 billion in emergency Ebola funding for the domestic response may be used for international efforts.

SOURCE: Kaiser Family Foundation analysis of data from the "Consolidated Appropriations Act, 2015" (H.R. 83) and accompanying reports.

Emergency Ebola Funding, by Agency, FY 2015 Omnibus

In Millions



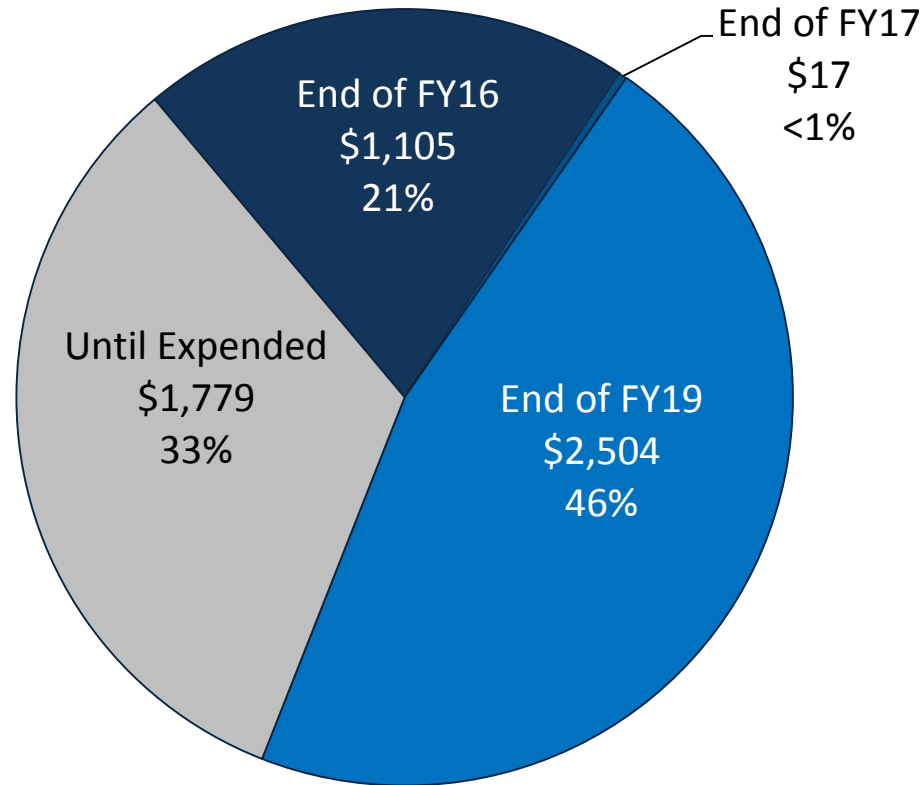
Total: \$5.4 billion

NOTE: CDC includes both International (\$1.2 billion) and Domestic (\$571 million) funding.

SOURCE: Kaiser Family Foundation analysis of data from the "Consolidated Appropriations Act, 2015" (H.R. 83) and accompanying reports.

Emergency Ebola Funding, by Expenditure Period, FY 2015 Omnibus

In Millions



Total: \$5.4 billion

Emergency Ebola Funding: Activities Supported

- **International activities supported by emergency funding include:**
 - **USAID**: lead agency responsible for immediate disaster assistance and humanitarian response needs as well as secondary economic and social impacts
 - **State Department**: assist countries to “prevent, prepare for, and respond” to Ebola, and to “promote biosecurity practices” and “mitigate the risk of illicit acquisition of the Ebola virus
 - **CDC**: medical lead charged with helping countries prevent, prepare for, and respond to the Ebola outbreak
- **Research & Development:** NIH, BARDA, DoD, FDA

Status of U.S. International Ebola Funding

Total U.S. International Ebola Funding (FY 2014 - FY 2016)	
Agency	Total Funding (in millions)
U.S. Agency for International Development (USAID)	\$938.6
<i>Office of Foreign Disaster Assistance (OFDA)</i>	<i>\$771.9</i>
<i>Food for Peace (FFP)</i>	<i>\$127.0</i>
<i>Global Health Programs (GHP)</i>	<i>\$20.1</i>
<i>Liberia</i>	<i>\$16.1</i>
<i>Guinea</i>	<i>\$3.5</i>
Centers for Disease Control and Prevention (CDC)	\$355.4
Department of Defense (DoD)	\$631.8
Total	\$1,925.8

NOTES: Includes funding provided prior to and since passage of the emergency Ebola appropriation. The CDC total includes approximately \$50 million in funding provided during the FY 2015 Continuing Resolution (CR) period; this funding could not be disaggregated by international and domestic purposes. USAID funding is as of November 6, 2015, CDC funding is as of October 30, 2015, and DoD funding is as of August 31, 2015.

SOURCE: Funding commitments as detailed in USAID "West Africa - Ebola Outbreak, Fact Sheet #3, Fiscal Year (FY) 2016" released on November 6, 2015.

Key Questions

- **Where does the U.S. effort stand and how is funding being used?**
- **What plans are in place to ensure sustainable efforts to defeat Ebola and transition beyond the initial emergency phase?**
- **What have been successes and challenges in the U.S. response to Ebola, and what is the road ahead?**

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Thank you!

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Kaiser Family Foundation November 23, 2015

ON THE
FRONT LINES
OF AN EPIDEMIC:

**THE
BATTLE
AGAINST
EBOLA**





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Ebola Outbreak: History

3 confirmed cases as of November 20, 2015



SIERRA LEONE



GUINEA



LIBERIA





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Where does the U.S. Ebola response effort stand?

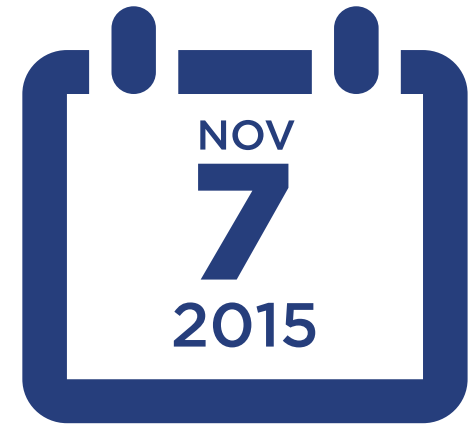
WHO DECLARED
THESE COUNTRIES EBOLA FREE ON



**GOVERNMENT OF GUINEA
STARTED COUNTDOWN
NOVEMBER 17, 2015.**



LIBERIA



SIERRA LEONE

The U.S. Government, in partnership with the three affected governments and other partners, are working to address the needs of survivors.



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Emergency Funding Spend Plan & Overview

TOTAL US ASSISTANCE

\$2.3bil

This includes programs targeting community mobilization information campaigns and the strengthening of:



INFECTION CONTROL & PREVENTION PROTOCOLS



SURVEILLANCE & MONITORING



ISOLATION & TREATMENT OF PATIENTS



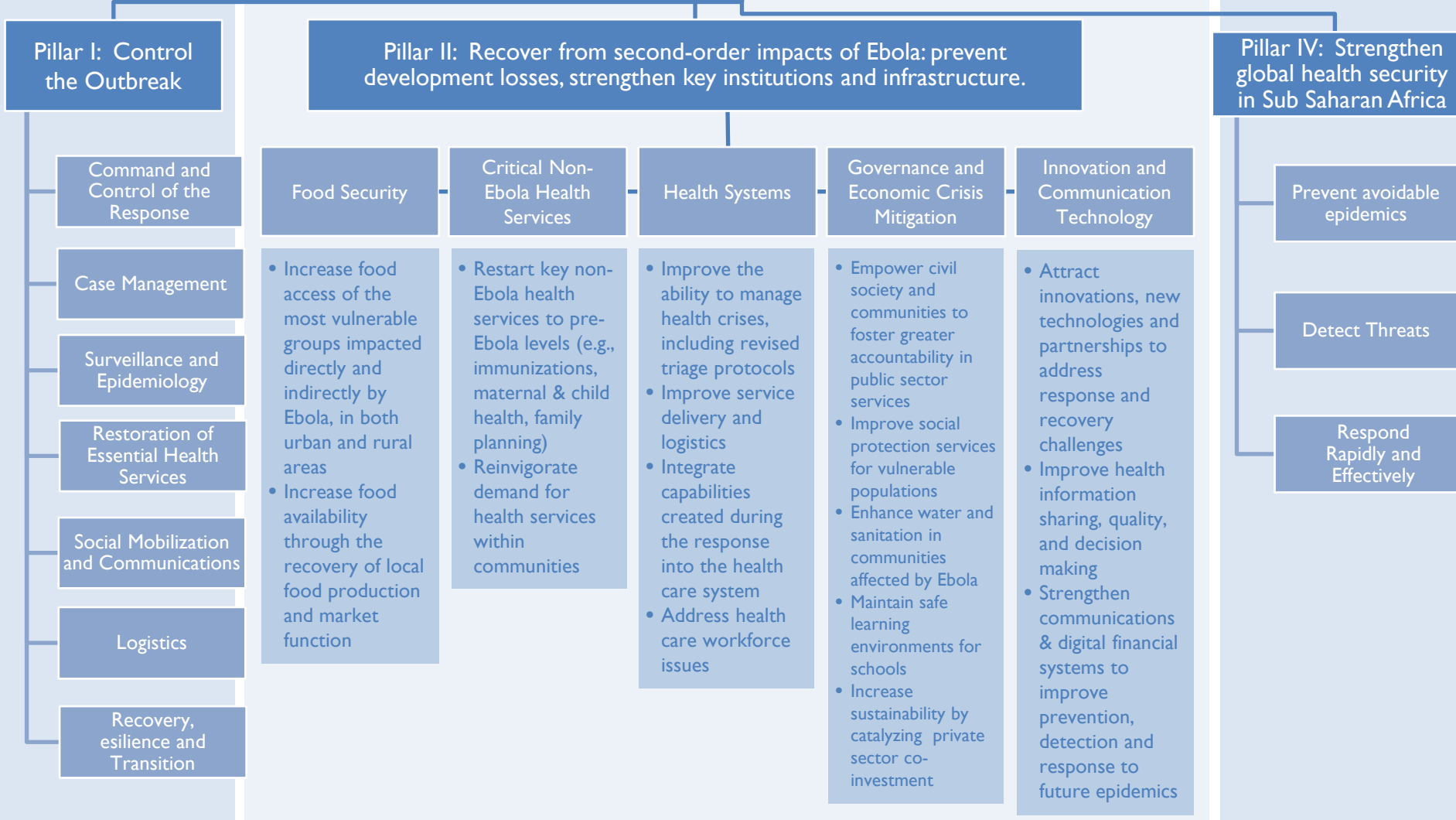
LABORATORY TESTING & ENHANCED EMERGENCY RESPONSE MGMT



SAFE BURIALS

USAID Ebola Response Overview: Strategic Framework*

GOAL: Rapidly respond to the Ebola crisis, Mitigate Ebola's key negative impacts, and Prepare for, Prevent and Respond to Future Outbreaks



Pillar III

* Falls within USG Ebola Strategy

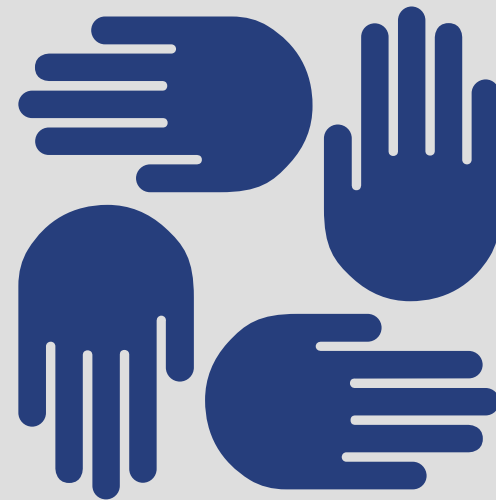


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Pillar 2: Ebola Recovery



RECOVER FROM
DEVELOPMENT
LOSSES



STRENGTHEN KEY
INSITUTIONS & INFRASTRUCTURE



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Food Security: Overview



THE EBOLA OUTBREAK SEVERELY IMPACTED FOOD SECURITY AND THE HARVEST SEASON HAS STARTED IN ALL THREE COUNTRIES.



USAID HAS SOUGHT TO INCREASE ACCESS TO FOOD AMONG VULNERABLE GROUPS, INCREASING FOOD PRODUCTION, AND RESTORING MARKET FUNCTIONS.

620K

ESTIMATED AMOUNT OF PEOPLE USAID IS ASSISTING



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Food Security: Impact and Results



86,000

HOUSEHOLDS
SPREAD ACROSS

7 COUNTIES

BENEFITED FROM CASH
TRANSFERS, AGRICULTURAL
INPUT VOUCHERS, AND CASH
FOR WORK PROGRAMS

455,000

BENEFITED ACROSS COUN-
TRY WHILE WFP SCHOOL
FEEDING ACTIVITIES TOOK
PLACE IN 10 COUNTIES



CASH TRANSFERS FOR FOOD,
FOOD VOUCHERS, AGRICUL-
TURAL INPUT VOUCHERS
MARKETS AND ECONOMIC
ACTIVITY IMPROVING



PARTNERED WITH
UNICEF
TO RESUME SCREENING, RE-
FERRAL, AND TREATMENT
FOR CHILDREN WITH SEVERE
ACUTE MALNUTRITION (SAM).
THIS PROGRAM IS ASSISTING
AN ESTIMATED
35,000
CHILDREN.

FOOD VOUCHERS ARE
REACHING AN ESTIMATED
20,000
PEOPLE.



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Critical Non-Ebola Health Services

Overview

Restart key non-Ebola health services



IMMUNIZATIONS



MATERNAL & CHILD HEALTH



**SOCIAL & BEHAVIOUR
CHANGE COMMUNICATION**

Bring people back into health clinics and begin to restore trust in health facilities.



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Critical non-Ebola Health Services

Impact and Results

LIBERIA



61 CLINICS



**1500
VOLUNTEERS**



3 COUNTIES

GUINEA



55 CLINICS



**3000
VOLUNTEERS**



16 PREFECTURES

SIERRA LEONE



361 CLINICS



**1000
VOLUNTEERS**



5 DISTRICTS



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Health Systems Recovery

Overview



LOGISTICS MANAGEMENT



HUMAN RESOURCES
FOR HEALTH



HEALTH GOVERNANCE
& MANAGEMENT

In all three Ebola-affected countries, USAID continues to work with partners to transition and strengthen commodities and logistics systems.



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Health Systems Recovery

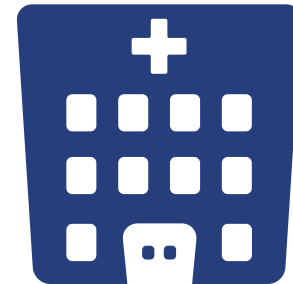
Impact and Results Looking Forward



LIBERIA: SUPPLY CHAIN MGMT & ESSENTIAL MEDICINES WILL HELP SUPPORT 61 HEALTH FACILITIES



SIERRA LEONE: FIRST SHIPMENT OF ESSENTIAL MEDICINES CLEARED CUSTOMS



GUINEA: IMPROVE HEALTH INFORMATION SYSTEMS



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Governance and Economic Crisis Mitigation

During the Ebola outbreak, the three governments struggled to provide traditional services.

In response USAID will focus on



CIVIL SOCIETY & GOVERNANCE



STIGMATIZATION



EDUCATION



WATER & SANITATION



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Governance and Economic Crisis Mitigation

Impact and Results:

Guinea

- The October 11 presidential election
- Broadcast 30 radio stations to prevent election violence

Liberia

- Search for Common Ground trained communities, 6 counties on survivor reintegration
- Schools
- IREX Ebola Program works in six counties

Sierra Leone

- Civil Society strengthening, voter education, women's economic empowerment interventions





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Innovation and Communication Technology

Overview



DURING THE EBOLA OUTBREAK,
RESPONSE EFFORTS WERE HAMPERED
BY **COMMUNICATIONS AND TECHNOLOGY**
WEAKNESSES IN GUINEA, SIERRA LEONE
AND LIBERIA.



USAID IS WORKING TO ADVANCE DEVELOPMENT OF
COMMUNICATION & DATA MANAGEMENT TOOLS THROUGH
PARTNERSHIPS WITH HOST GOVERNMENTS, CIVIL SOCIETY
& THE PRIVATE SECTOR



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Innovation and Communication Technology

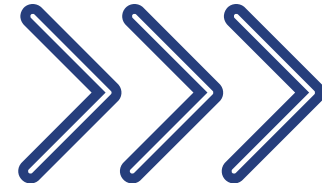
Results



**TECHNICAL ASSISTANCE
IMBEDDED IN MINISTRIES OF
HEALTH**

111

**BROAD AGENCY
ANNOUNCEMENT AROUND
HEALTH INFORMATION
SYSTEMS RECEIVED 111
APPLICATIONS**



**THE GRAND CHALLENGE IS FOCUSED
ON SUPPORTING THE ACCELERATED
DEVELOPMENT AND IMPLEMENTATION
OF 14 INNOVATIONS ACROSS FIVE
AREAS: HEALTHCARE WORKER
SAFETY, CUTTING-EDGE HEALTH CARE
WORKER TOOLS, REIMAGINED AND
RAPIDLY DEPLOYABLE ETUS,
BEHAVIOR CHANGE, HEALTH
INFORMATION TECHNOLOGY**



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Pillar 4: Global Health Security Agenda

- Four Components of GHSA Include:



PREVENT AVOIDABLE EPIDEMICS



DETECT THREATS



RESPOND RAPIDLY &
EFFECTIVELY TO OUTBREAKS



EBOLA PREPAREDNESS

- 12 priority countries in Africa



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Pathway Forward

- Resilient Zero
- Transition from Response to Recovery
- Focus on survivors





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Thank You





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FAMILY

FOUNDATION

CDC Contributions to Health System Recovery in the Ebola Affected Countries

Barbara J. Marston, M.D.

Lead, Ebola Affected Country Office, Division of Global Health
Protection, Center for Global Health
Centers for Disease Control and Prevention

Kaiser Family Foundation: “One Year Later, Where Does the U.S.
Response to Ebola Stand?”

November 23, 2015

Center for Global Health
Ebola Affected Country Office

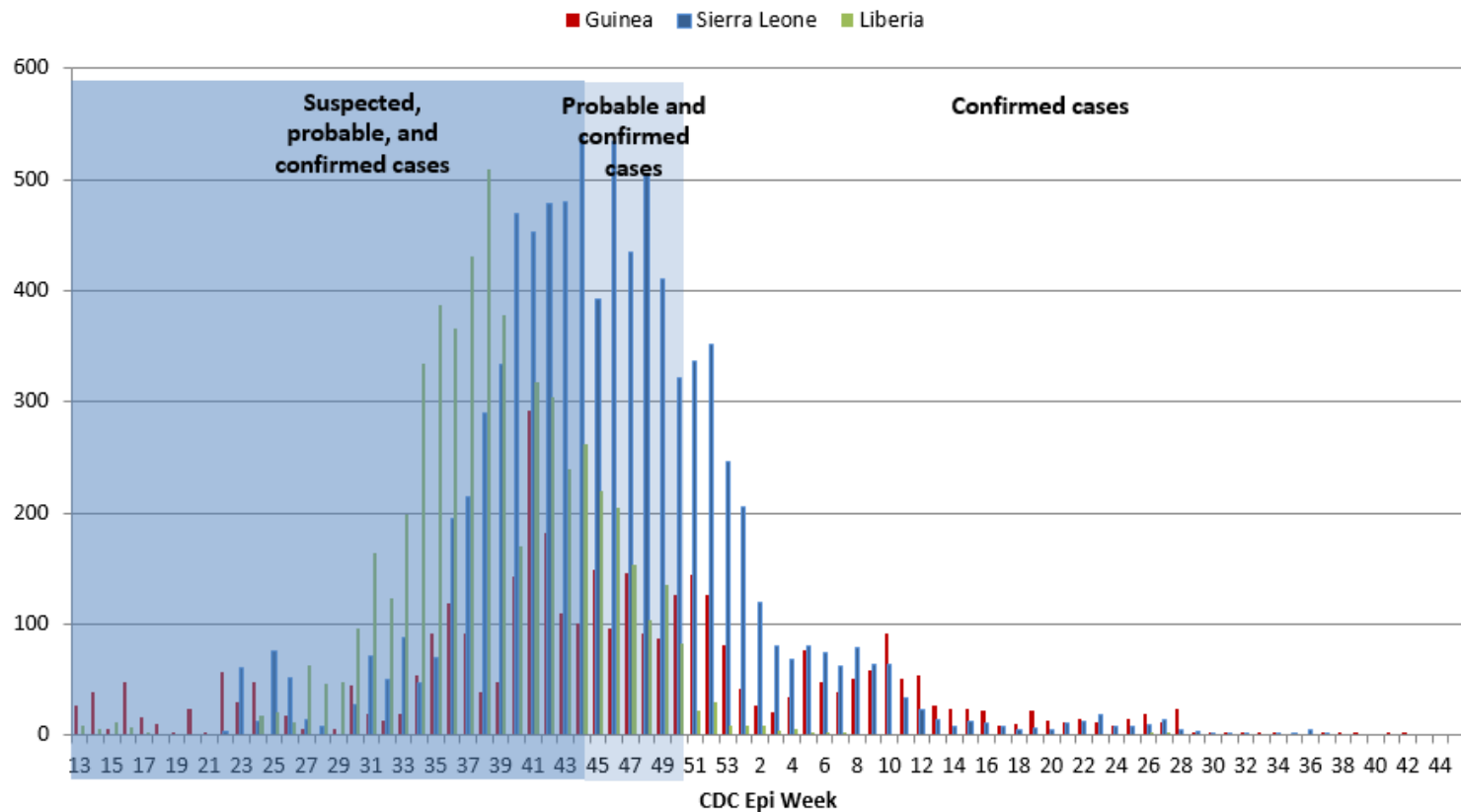


Response Activities

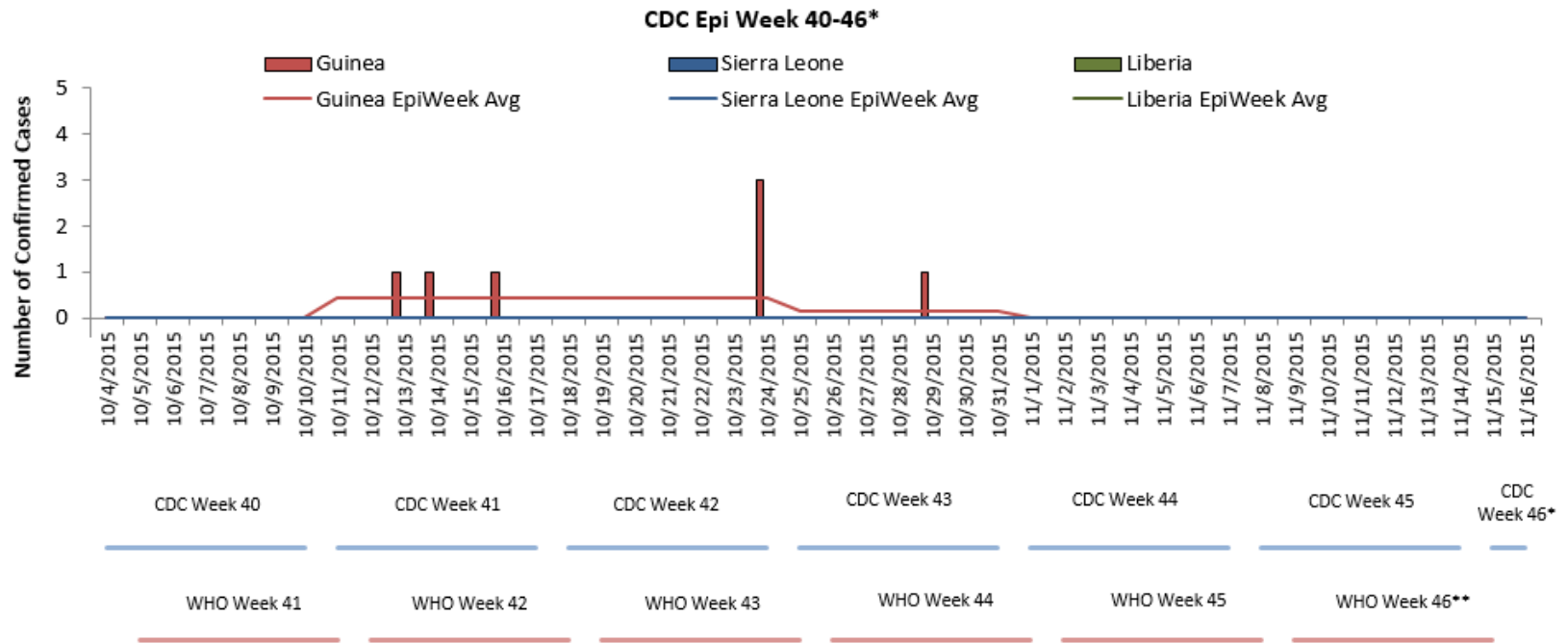
- More than 3,234 deployments, including 2,041 internationally
- Activities
 - Emergency Response Coordination
 - Case detection and investigation, contact tracing
 - Laboratory capacity
 - Data management and analysis
 - Infection prevention and control
 - Border health
 - Health communications

Ebola Cases Over Time

New EVD Cases by Week



Daily Epi Curve



*CDC's Epi Week runs from Sunday—Saturday.

**WHO's week runs from Monday—Sunday.

Survivor Wall, Ebola Treatment Unit, Forécariah, Guinea



West Africa Before the Outbreak

- Region has some of the poorest countries in the world
- Weak infrastructure
- Among the very highest rates of maternal mortality, child mortality
- High rates of malaria, tuberculosis, smoking



Impact of the Epidemic

- Death of health care workers
- Loss of confidence in the health system
- Interruption of supply chains
- Interruption of campaigns and program activities
- Development of a wide range of response capacities.



General CDC Approach

General Principles:

- Direct collaboration with/support for ministry of health
- Align ongoing activities with recovery plans in each country
- Coordinate with other partners
- Leverage overlaps between response, recovery, and GHSA

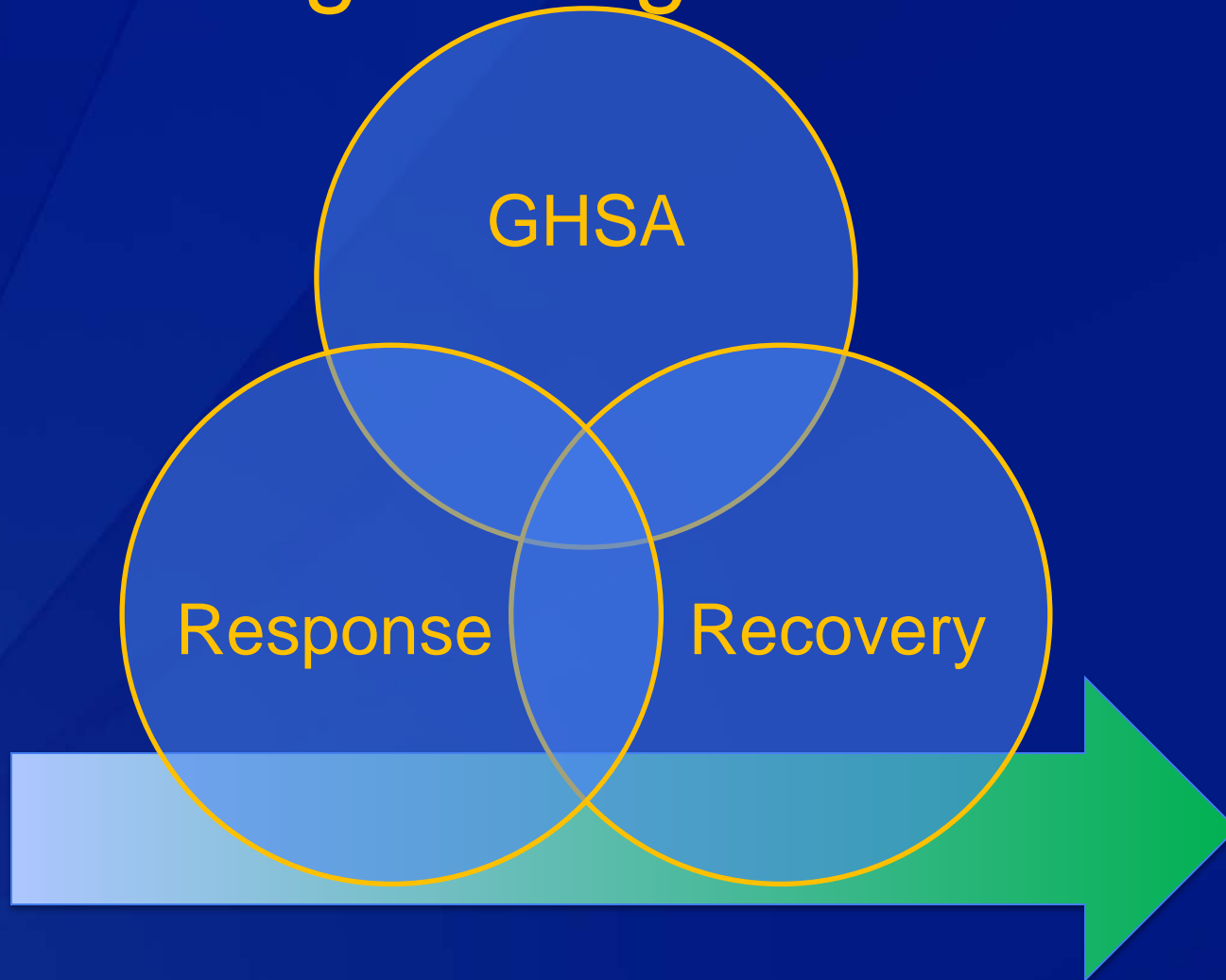
Activities

- Establish country offices, continue deployments as needed
- Maintain focus on control of the outbreak
- Maintain vigilance and prepare for rapid response to any reintroduction
- Staffing, partner funding to support recovery of the *public* health system/GHSA

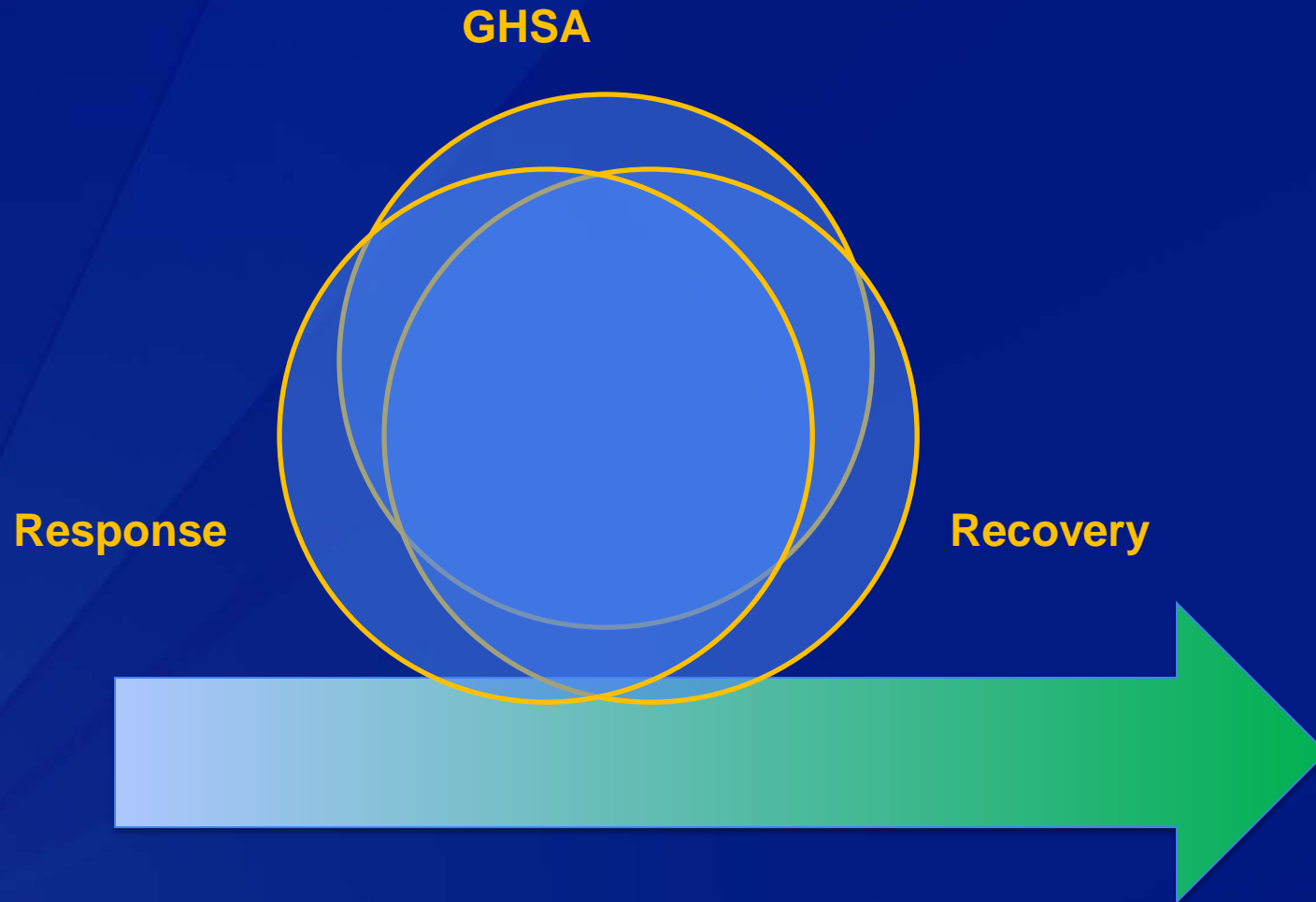
CDC Funding for Recovery

- Congress approved \$5.4 billion of the President's emergency funding request to implement a comprehensive Ebola response.
- The United States has already committed more than **\$2.3 billion** toward fighting Ebola in West Africa
- FY 2014: \$17,439,000
- FY2015: \$763,561,781 - International.:\$280,855,373; Domestic.: \$429,973,088
- FY 2016 \$6,804,253 - International.:\$5,177,232; Domestic.:\$1,627,021 (as of October 31, 2015)

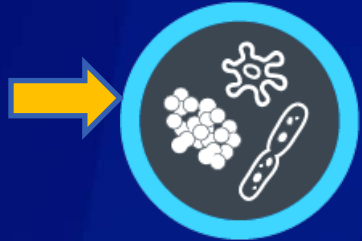
Overlap of Health Systems Strengthening Activities



Overlap of Health Systems Strengthening Activities



Global Health Security Agenda (GHSA) Activities



Antimicrobial Resistance



National Laboratory System



Emergency Operations Centers



Zoonotic Diseases



Surveillance



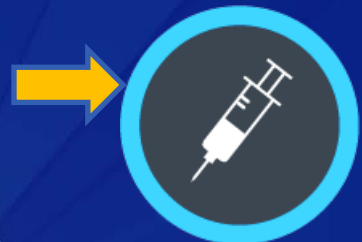
Link Public Health and Law Enforcement



Biosafety/Biosecurity



GHSA Reporting



Immunization



Workforce Development



Medical Countermeasures

Recovery Activities

- Core GHSA activities
 - Strengthen general disease surveillance and response
 - Strengthen lab capacity (support development of tiered laboratory network)
 - Develop Public Health workforce
 - Strengthen emergency response capacity
- Additional GHSA Activities
 - Infection prevention and control
 - Border health activities
 - Health communications



GHSA Activities Specific to Countries with Widespread Ebola Transmission

- Maintenance of enhanced surveillance following control of the epidemic
- Support for survivors
 - Clinical services, for unique medical conditions
 - Sexual Risk Reduction Counselling
 - Semen testing

Additional Recovery/Health System Strengthening Activities

- Technical Assistance for critical public health threats (e.g. malaria, TB, HIV, malnutrition, maternal mortality, vaccine preventable diseases, chronic diseases)
- Support public health capacity at the MOH
- Support research capacity in the context of public health



THANK YOU



CDC Ebola Response

Closing

For more information please contact Centers for Disease Control and Prevention

1600 Clifton Road NE, Atlanta, GA 30333

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

Visit: www.cdc.gov | Contact CDC at: 1-800-CDC-INFO or www.cdc.gov/info

The findings and conclusions in this report are those of the authors and do not necessarily represent the official position of the Centers for Disease Control and Prevention.