

This paper describes objective technical results and analysis. Any subjective views or opinions that might be expressed in the paper do not necessarily represent the views of the U.S. Department of Energy or the United States Government.

SAND2019-14211C

# Biorisk Management Activities

Tanzania One Health and Veterinary Association Conference

Jessica Rowland

Sandia National Laboratories

Sandia National Laboratories is a multimission laboratory managed and operated by National Technology and Engineering Solutions of Sandia LLC, a wholly owned subsidiary of Honeywell International Inc. for the U.S. Department of Energy's National Nuclear Security Administration under contract DE-NA0003525. SAND2019-XXXX



# Global Chemical and Biological Security

GCBS develops and implements innovative solutions for responding to global biological and chemical threats.

Our team of leading scientists and policy experts is committed to minimize the risk posed by chemical and biological materials and technologies. We create and share new knowledge, tools, and approaches that empower our partners to safely detect, handle, and control dangerous chemical and biological agents anywhere in the world.

We collaborate closely with the One Health Coordination Desk and our work in Tanzania is funded by the Biological Threat Reduction Program (BTRP) of the Defense Threat Reduction Agency (DTRA).

## Risk Management



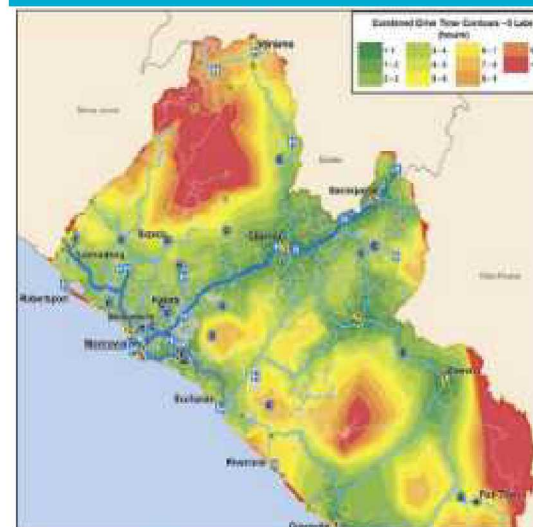
Risk and Vulnerability Assessment

## Human Capacity Development



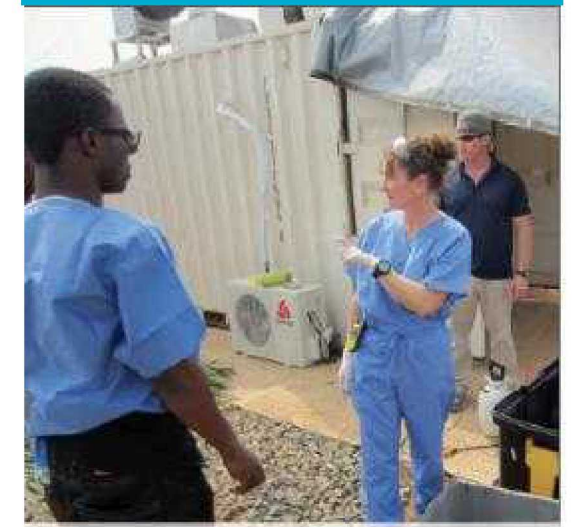
Veterinary Capacity Building

## Analysis



Systems Analysis

## Health Security



Laboratory and Diagnostic Efforts



## Biorisk Management (BRM) Training

Our **BRM training** programs in Tanzania are designed to be **multisectoral** including participants from the **human health, veterinary, and wildlife** sectors and focus on the **development of people for sustainable** outcomes.

### General BRM Training

- Orientation to Biorisk Management
- Assessment, Mitigation and Performance Model
- Shipping, Waste Management, Decontamination, Good Laboratory Work Practices, SOPs
- In 2013, 46 people were trained
- In 2018/19, 146 people were trained

### Trainer Development

- 18 General BRM Trainers developed were mentored to give 2 independent trainings
- 12 IATA Shipping of Infectious Substances Trainers were mentored to give 2 independent trainings

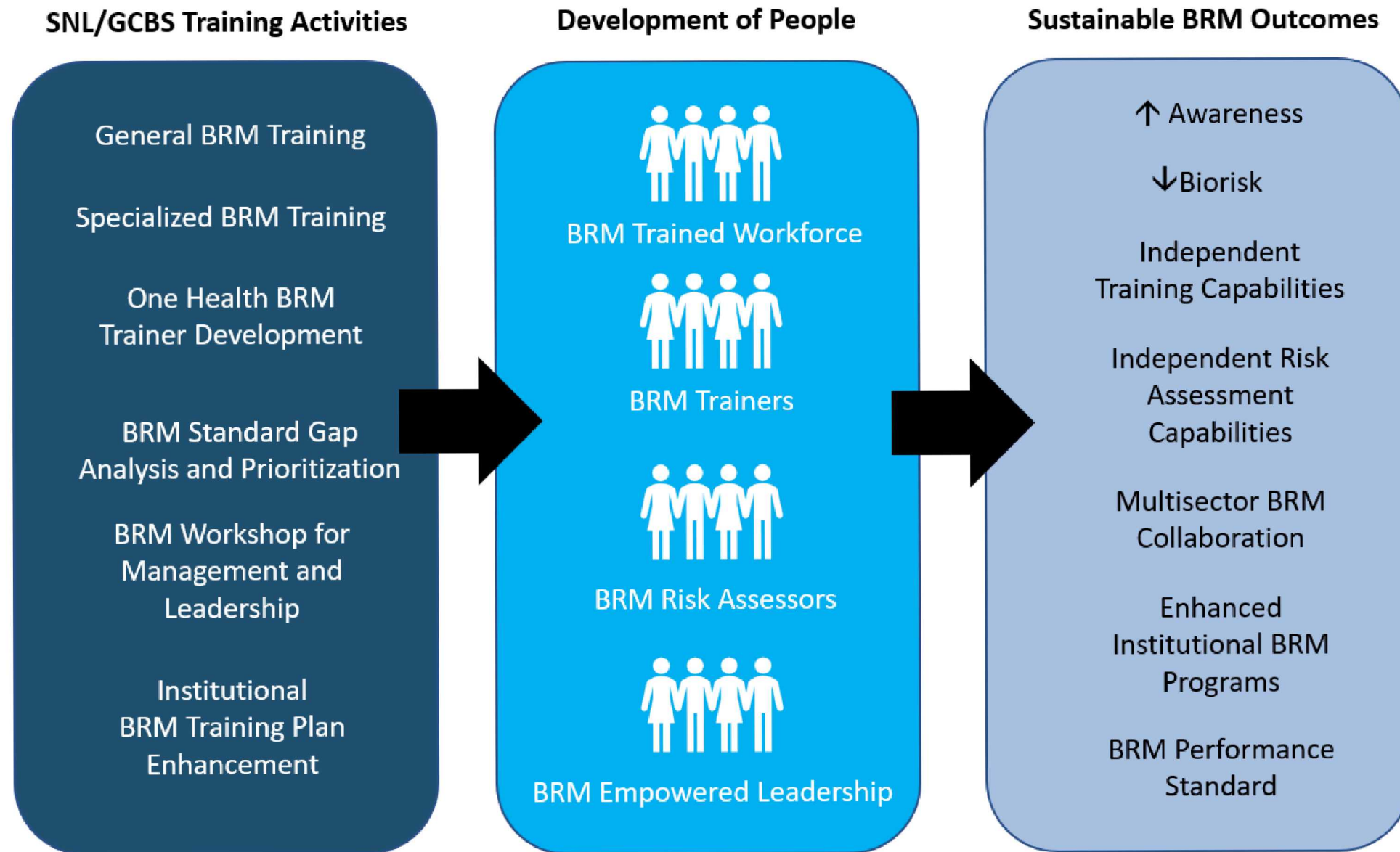
### BRM Risk Assessment (Ongoing)

- 24 trained from 12 institutions

### Management and Leadership (Upcoming)

- BRM Standard Gap Analysis and Prioritization

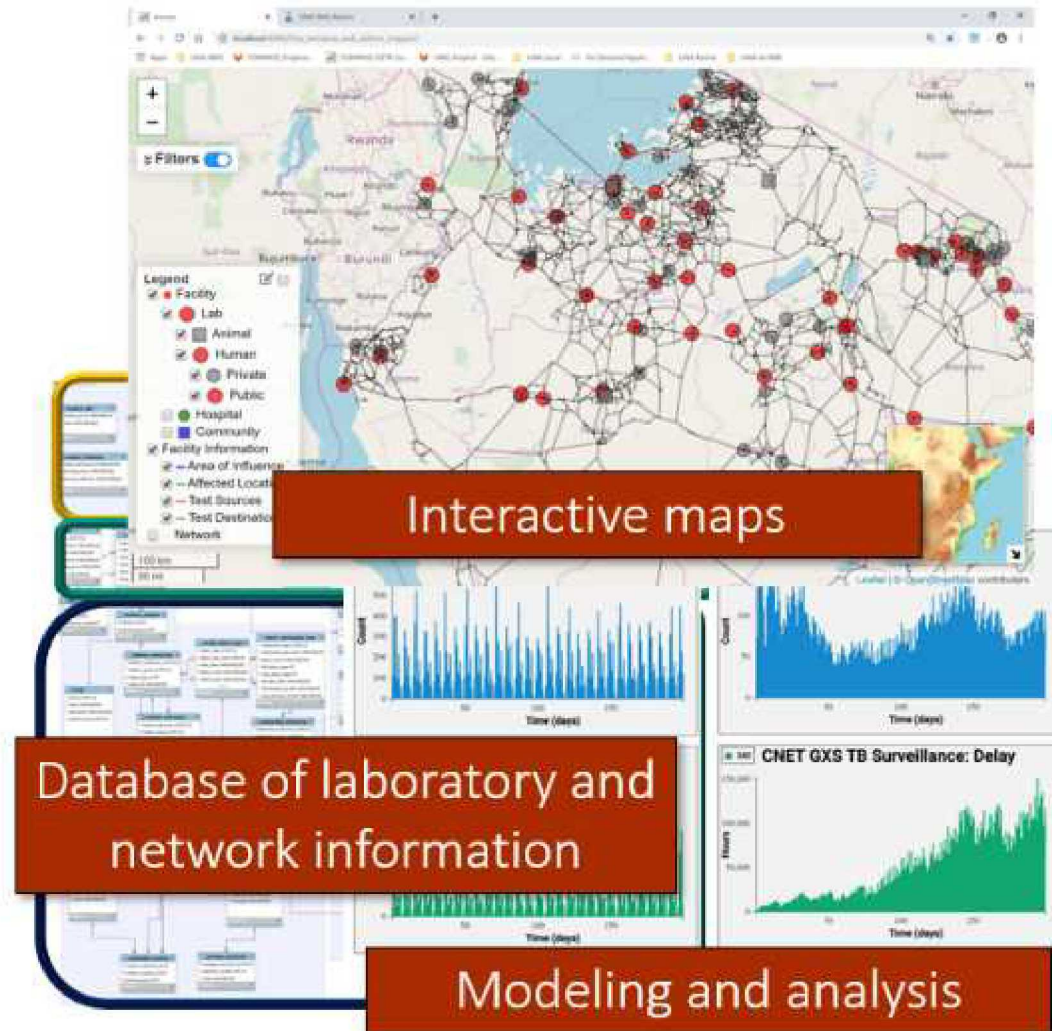




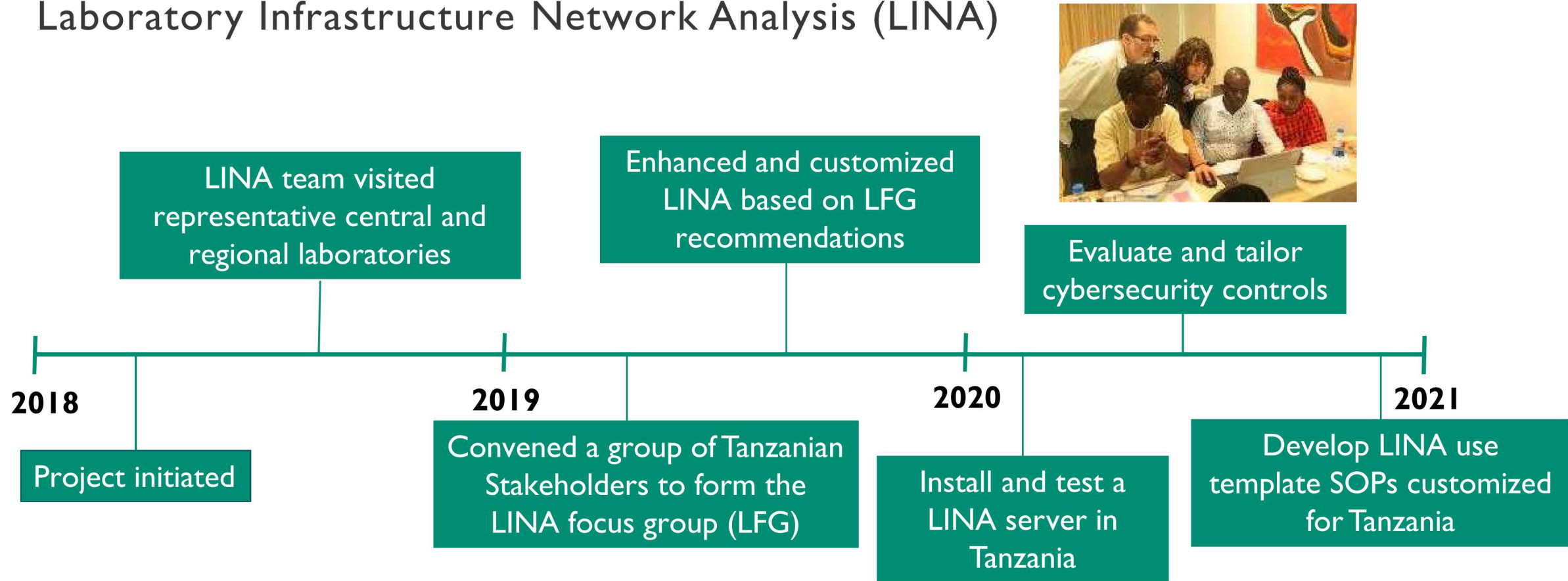
## Laboratory Infrastructure Network Analysis (LINA)

The **LINA** tool is a web application designed to provide:

- Situational awareness about a country's laboratory resources
- Analyses that help laboratory operators and managers
  - Decide how to use resources effectively
  - Determine locations for placement of new resources that best strengthen the country's laboratory system for chronic conditions and outbreak response



# Laboratory Infrastructure Network Analysis (LINA)



# Tanzania Veterinary Laboratory Agency Specific Activities

## ISO 17025 and BRM Standard Support

- ISO 17025 Audit in July 2018
- Working with a consultant to meet ISO 17025 needs based on audit
- Specialized TVLA BRM training in May 2019
- BRM SOP development and validation workshop in September 2019

## Biorisk Management Twinning Program

- Dr. Zachariah Makondo was paired with Dr. Ben Fontes from Yale University
- Developed a TVLA BRM Manual





# Thank you!

Jessica Rowland  
jrowla@sandia.gov

Sandia National Laboratories is a multimission laboratory managed and operated by National Technology and Engineering Solutions of Sandia LLC, a wholly owned subsidiary of Honeywell International Inc. for the U.S. Department of Energy's National Nuclear Security Administration under contract DE-NA0003525. SAND2019-XXXX

