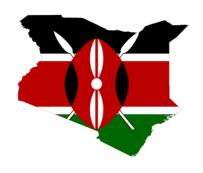
DEFINATION AND ISSUES RELATED TO BIOSECURITY IN OTHER COUNTRIES.



By

Albert Bunyasi MSc

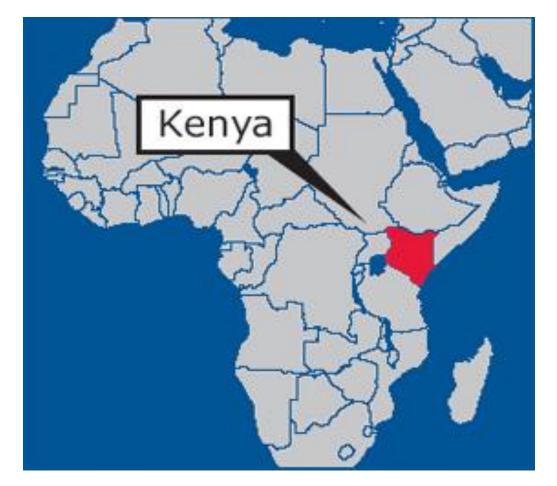
Biosafety/Biosecurity Manager National Public Health Laboratory Services Ministry of Public Health and Sanitation

American Biological Society Association Annual Meeting Mariot Hotel Anaheim California U.S.A 27^{TH oct.}-4^{th Nov}

2011

Kenya

- Located in East Africa
- Boarders
 - Somalia
 - Uganda
 - Tanzania
 - Ethiopia
 - Sudan



Has an area of 583,000 km²

Kenya









On Biosafety/Biosecurity

- The Government of Kenya recognizes
 - there is **NO** single technology or process that can stop the application of a biological agent (BA) or toxin
- Since the effects of BA manifest as disease and diseases don't recognize boarders or need visas



 International Partnerships in countering biological threats remain the best strategies in achieving health security

- Therefore the implementation of international instruments for nonproliferation e.g.
 - Biological Weapons Convention,
 - United Nations Security Council Resolution
 1540
 - WHO's International Health Relations
 - as well as the establishment of regional and international partnerships



Remain the best methods of preventing a BA attack

Essentially the Web of Prevention

The Web of Prevention

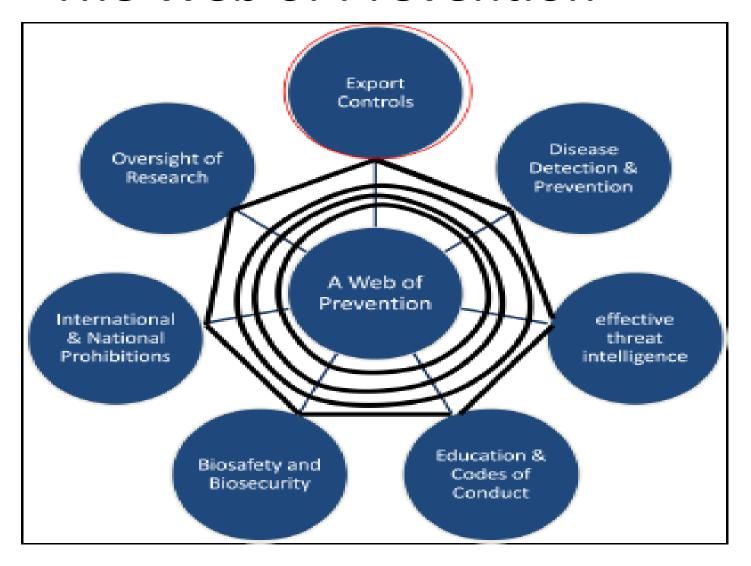
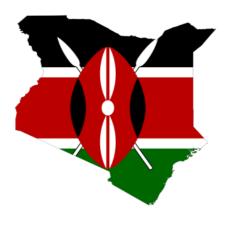




Figure 1: The Web of Prevention (Whitby S., 2010)

Disease outbreaks

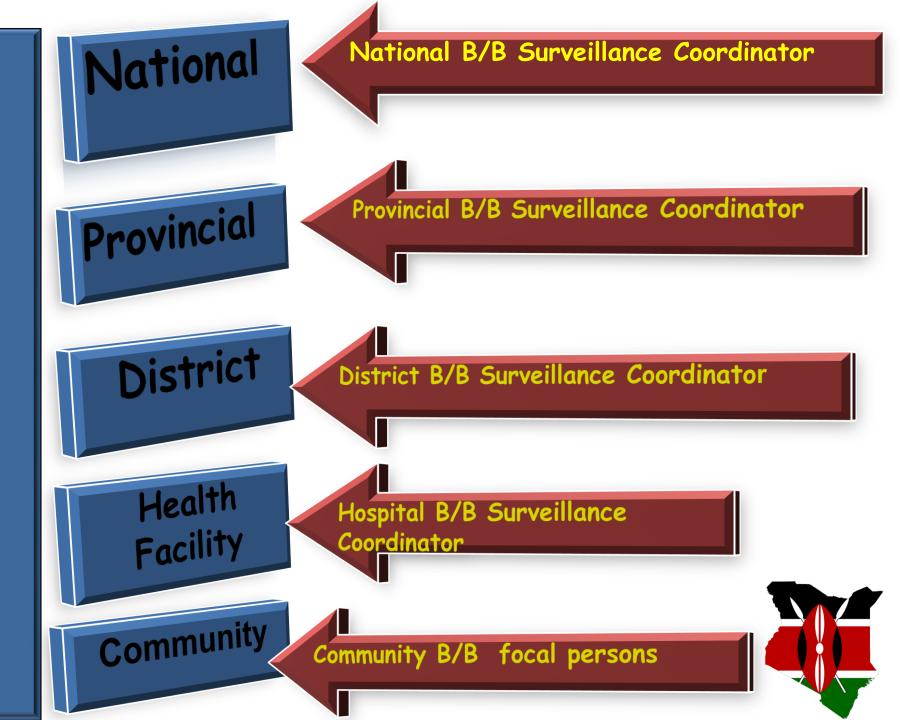
- Rift valley fever
- Measles
- Polio
- TB
- Typhoid
- Influenza



Disease Surveillance

- Kenya is also a signatory to the WHO's International Health regulations (IHR) since 2005
- We have been implementing the Integrated Disease Surveillance and Response [IDSR] strategy



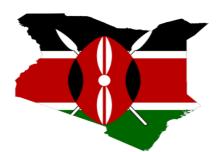


Achievements

- Established a Biosafety/Biosecurity office
- Addressed fire management system
- Trained all KEMRI on Biosafety
- Trained 160 MOH District Medical Lab.
 Managers
- Have trained a good number of Health providers at ACILT in S.A on B/B.
- International mentors

Biosafety/Biosecurity objectives

- Establish MoH policy and guidelines.
- Support laboratory accreditation for priority facilities.
- Assess and address infectious waste management.



Cont.....

- Laboratory waste decontamination procedures.
- Autoclaves for waste treatment.
- Facility waste disposal systems with priority with non-burn technologies.
- Assess/address stockpiled chemicals
- Assess and address PPE for chemical safety.



Cont...

- Identify/address shortage of critical lab safety equipment.
 - Fire safety, PPE,
 - Expand laboraotry biosafety training program.
- Develop laboratory biosafety audit program











Challenges

Biosafety/Biosecurity Education

- Need for vigorous outreach education programmes to raise awareness among the Life Scientists, Security Agents, public health and policy makers on Dual-Use and Biosecurity
- Need to develop curricula for Universities on Dual-Use- Biosecurity

- We still have many challenges
- But we are on the Right Track!
- With cooperation, collaboration and persistence will elevate Kenya's Biosafety and Biosecurity Status

- New Idea for collaboration
 - Kenya Biorisk Management Association [KBMA]

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The slides represents the opinion of the Author and not Government of Kenya.

Thank you so much for listening. Karibu Kenya!!

