



# Biorisk Management Policy and Biosafety and Biosecurity Manual for Institut National de Santé Publique (INSP) in Mali



Ms Kadiatou DAO, Biosafety & Biosecurity Officer, INSP  
 Betsy Matos, PhD, University Biosafety Officer, Iowa State University

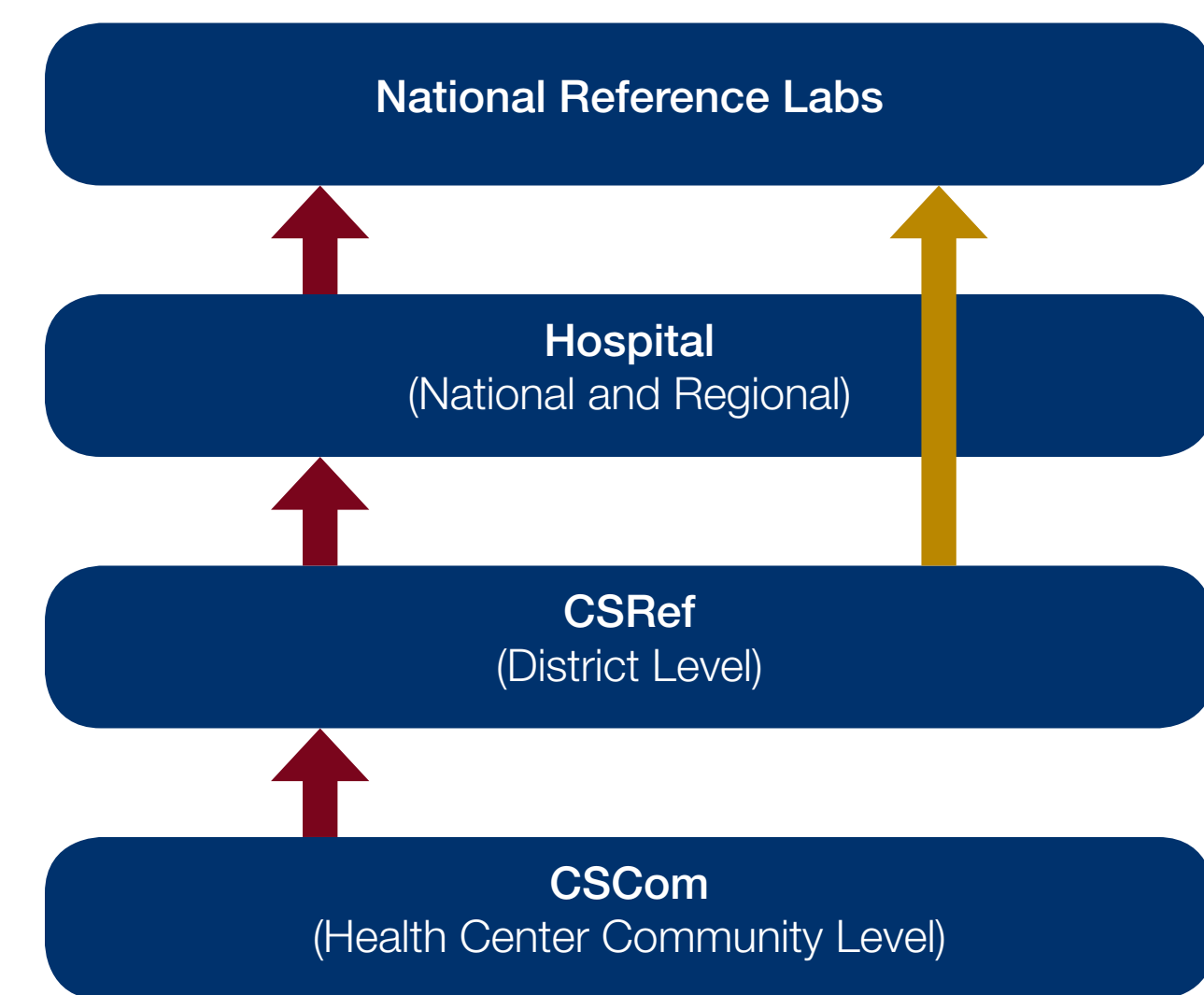
## Background

### Current Situation in Country

- Burdensome control of infectious diseases and epidemic
- 8 deaths during 2014 Ebola Outbreak
- Security Issues



### Mali - Current Structure for Laboratory Networking



### Current Laboratory Situation

- Biosafety and Biosecurity weaknesses
- Information lack regard to biosafety and biosecurity policies and procedures at the Institute.



Presence of biosafety and biosafety officers full time

### How does this Project help the Current Situation

- Strengthening Biosafety and Biosecurity by formal and solid program for the Institute.

## Goals and Objectives

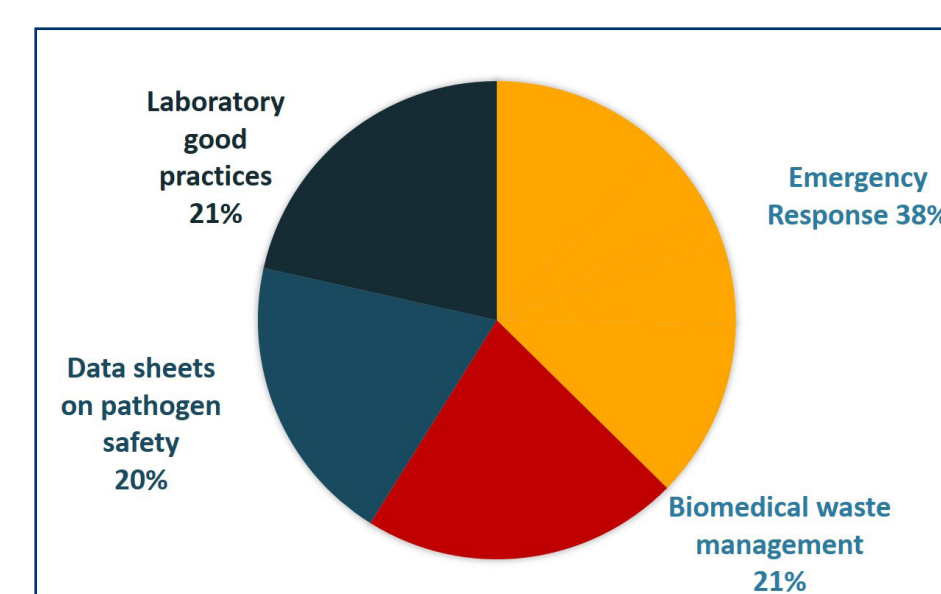
Develop policies and procedures related to Biosafety and Biosecurity in the INSP.

- Complete a needs assessment of BRM policy and manual
- Develop a Biosafety & Biosecurity Manual and an Institutional BRM Policy for INSP
- Conduct a workshop to bring awareness to participants on BRM manual and policy
- Evaluate post workshop participants on Biosafety & Biosecurity Manual and Institutional BRM Policy

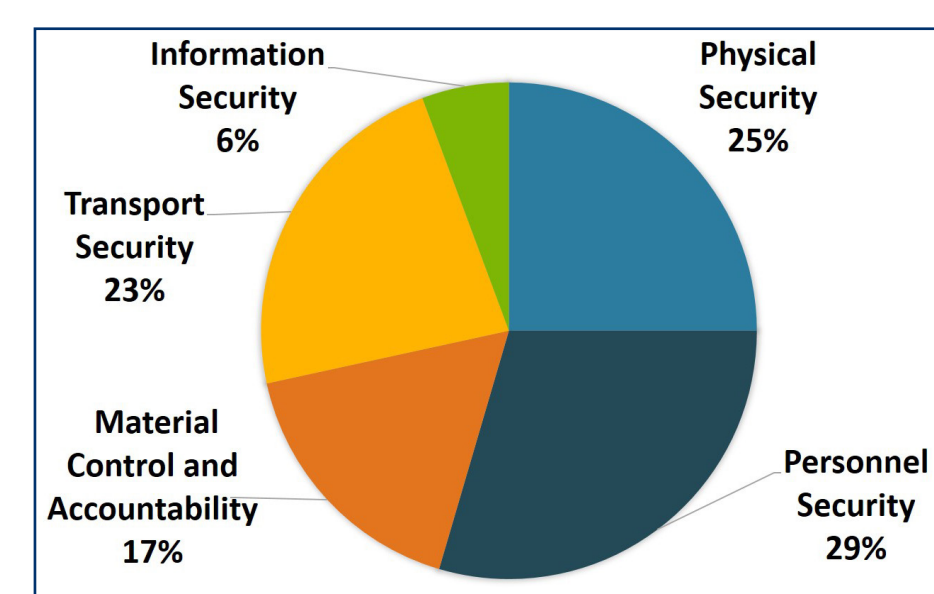


## Results

### Results Objective 1. Complete a needs assessment of BRM policy and manual (Which sections are most needed?)



Biosafety Components



Biosecurity Components



## Results (continued)

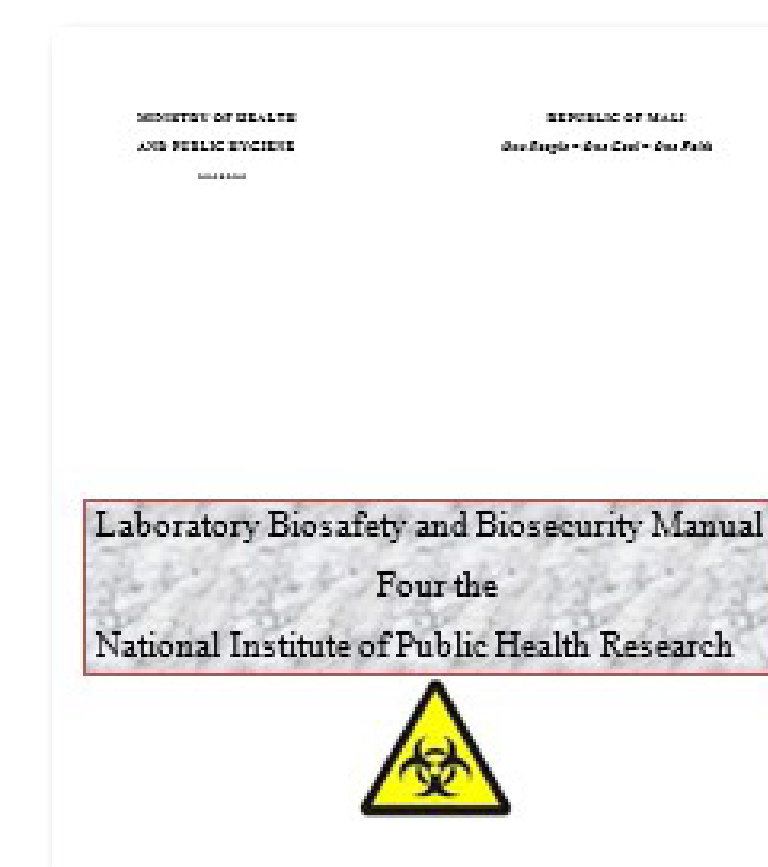
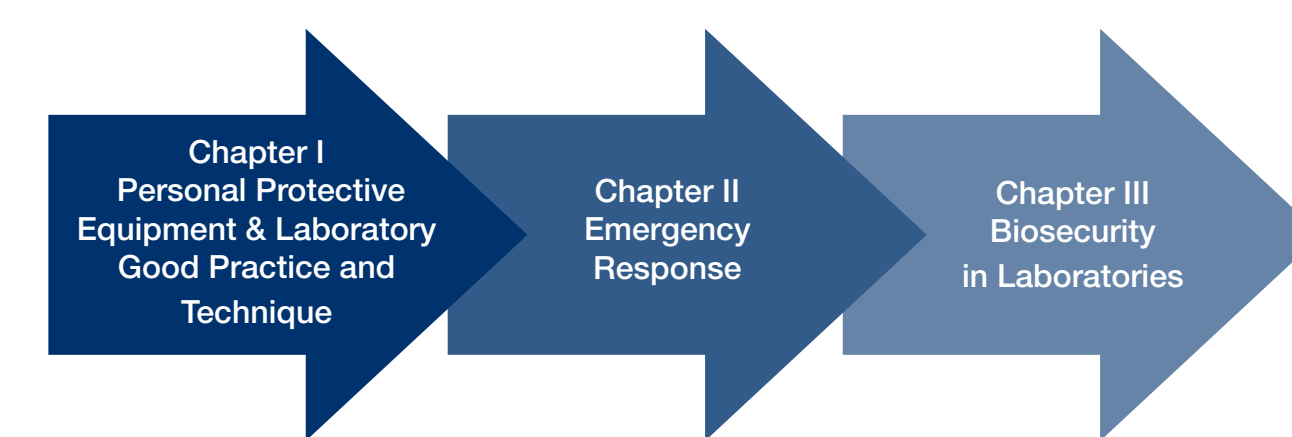
### Results Objective 2. Create a Biosafety & Biosecurity Manual and Policy for INSP

#### Documents Developed



Institutional Policy in Biosafety and Biosecurity (IPBB) for INSP

### Laboratory Biosafety & Biosecurity (B&B) Manual developed - Three chapters including roles and responsibilities



### Results Objective 3. Conduct a workshop to bring awareness to participants on BRM manual and policy

- 4 days workshop (18-21 Sept 2018)
- 42 participants from structures below:

<b>Labs of National &amp; Research Centers</b>	- LCV, LNE, LNS, ANEH, SEREFO/URC - INSP, CNAM, CNTS, LBMA, ANSSA
<b>Labs of National &amp; Private Hospitals</b>	- H Mali, HPoint G, H Mali Gavardo - H Polyclinique des Armées, H Gabriel Touré - Hôpital Luxembourg, CHU kati
<b>Reference Health Centers of Bamako District</b>	- CSRef CI, CSRef CII, CSRef CIII - CSRef CIV, CSRef CV, CSRef CVI
<b>Others</b>	- DNSV, DGPC, CDC, CRS, CICM, CRM, AMBIOS

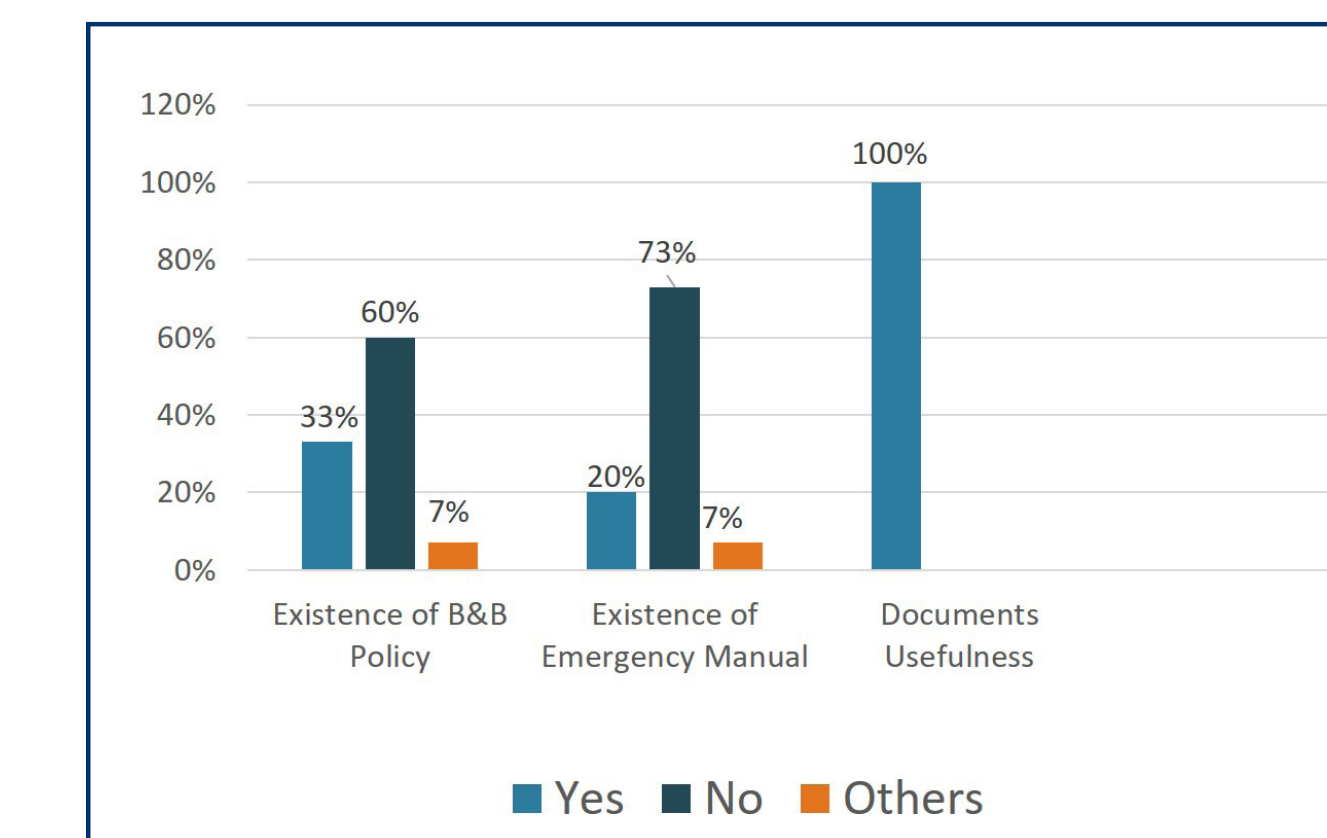
### Workshop Methodology

- Powerpoint Presentations
- Group Working
- Plenaries
  - Adaptation of definitions
  - Emphasizing roles and responsibilities of the biosafety officer
  - Product concentration specification such as physiological saline for eye rinsing
  - Vaccine prevention of health personnel in Mali & Addition of rabies vaccine to the section
  - Responsibility in ground spill of biological product

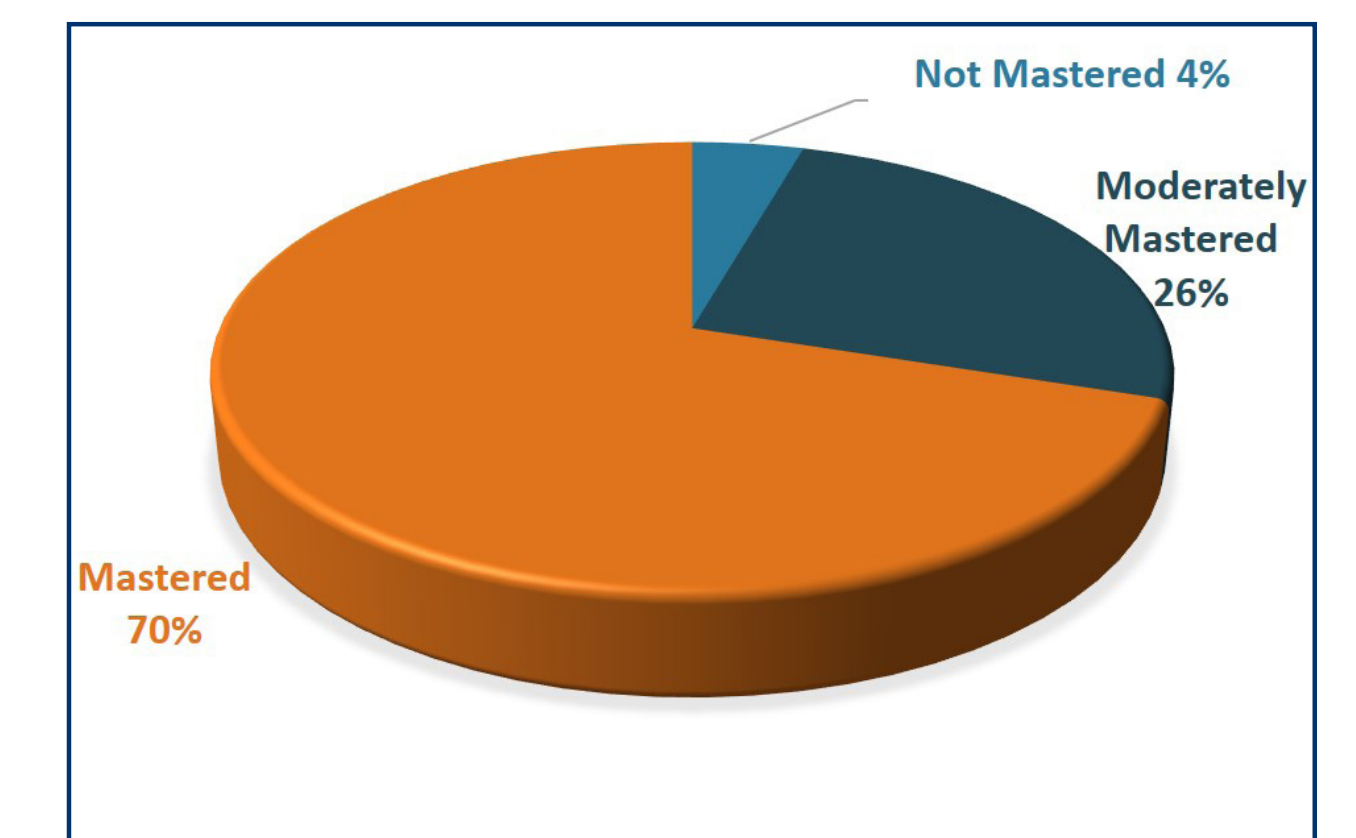


## Results (continued)

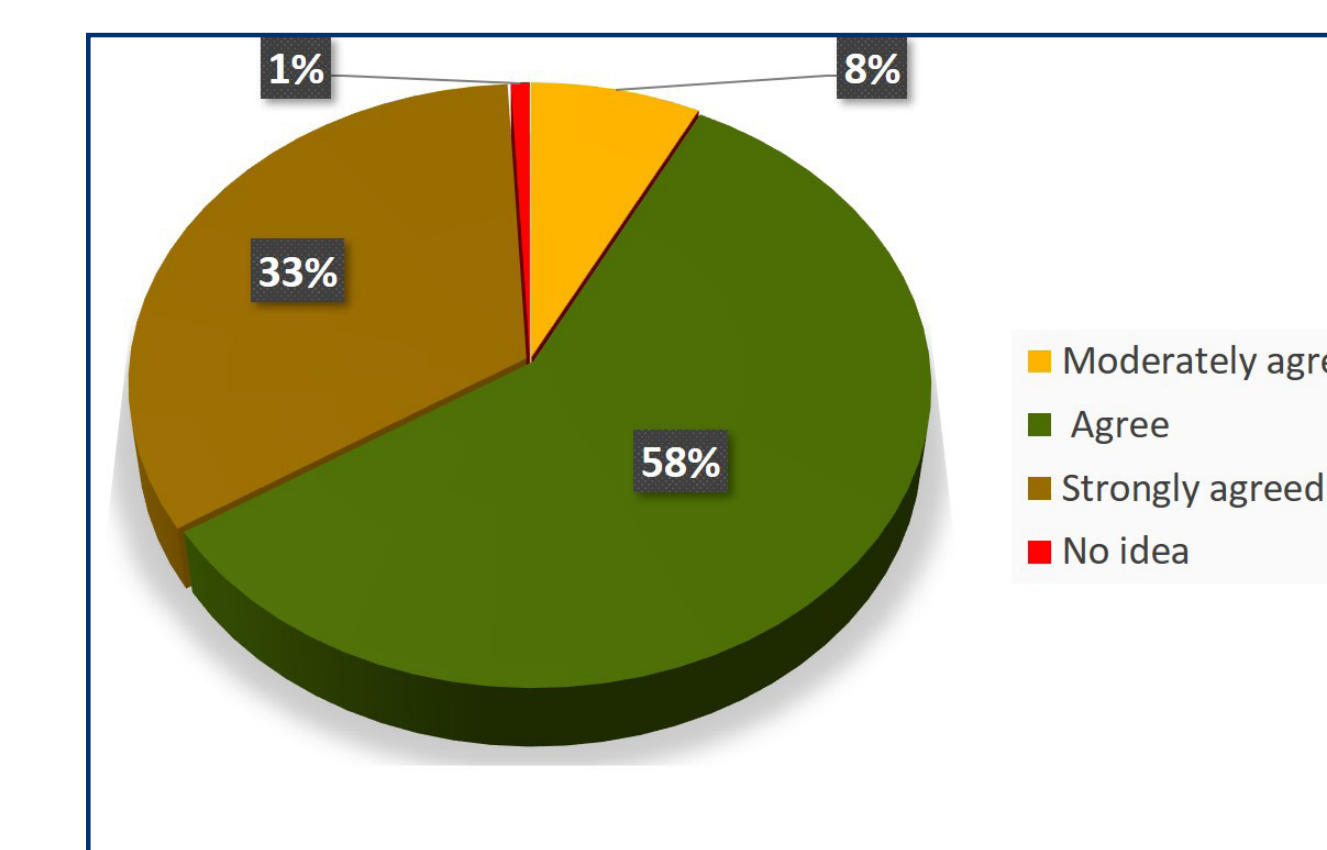
### Results Objective 4. Evaluate Laboratory Biosafety & Biosecurity Manual and Institutional BRM Policy



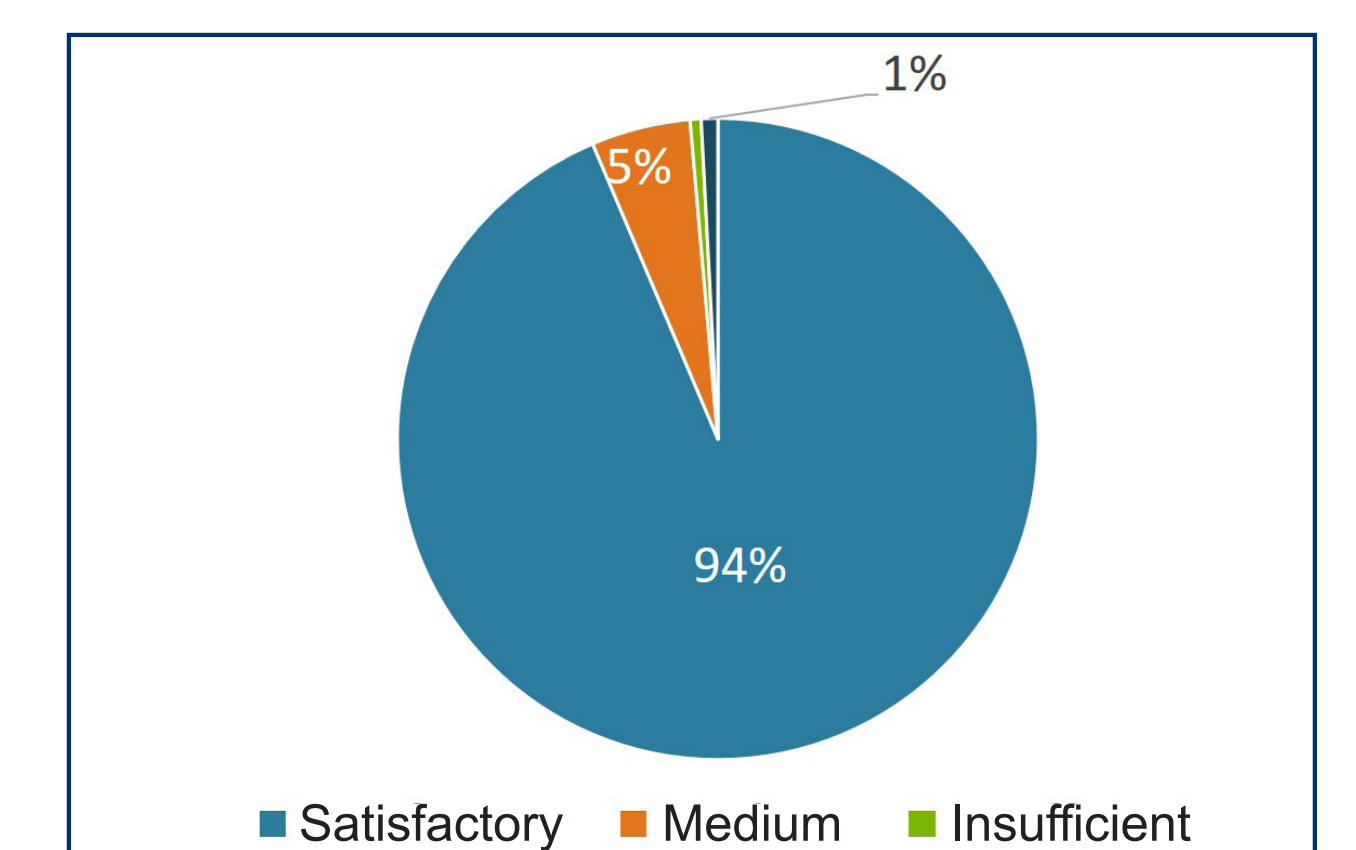
Most Participants thought the Documents were useful



Most Participants Mastered the Knowledge provided in the Documents and Policy



Most Participants Strongly Agreed with the Presentations and Documents Quality



Most Participants had a Satisfactory Perception of the Workshops Progress

## Conclusions

- The Laboratory B&B Manual will assist in guiding our mission as well as prevent laboratory acquired infections.
- Participants really believe in the measures enacted by the B&B for effective protection against biological risks in all its forms.
  - which is the guarantee of a certain progress of the promotion of B&B and its massive adoption by the different institutions
- Institutional Policy and Manual of Procedures reviewed and validated constitute a basis for the establishment of a system of biological risk management at the level of the establishments which participated in their validation as soon as they take ownership of it.
- Workshop organizers are satisfied with the results and commit to finalize documents.

## Moving Forward & Acknowledgements

- Add into the manual procedures: 1-The event of a spill in a refrigerator, freezer and water bath; 2-Pictograms; 3-Images of some equipment and scenarios.
- Share the documents by Training

## Acknowledgements

- Thanks to:
  - Mali GHSA Biosecurity component of MSHP
  - INSP Direction/IBC
  - Sandia National Laboratories (SNL)
  - Malian Association for Biosafety and Biosecurity (MABB)
  - US Department of State Biosecurity Engagement Program
  - Iowa State University