



Biosecurity Components

SNL Biosecurity Team

National Workshop on Biosecurity

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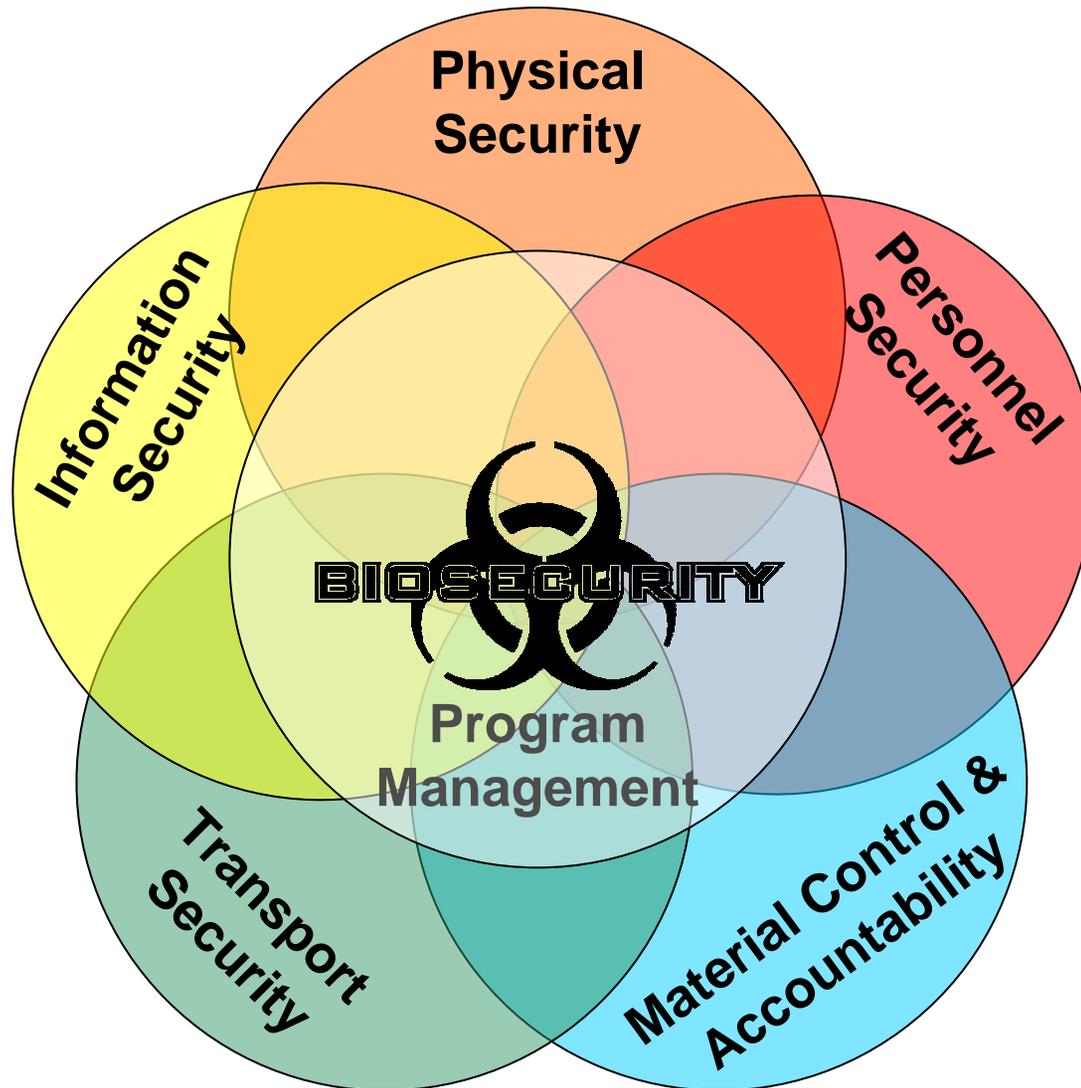
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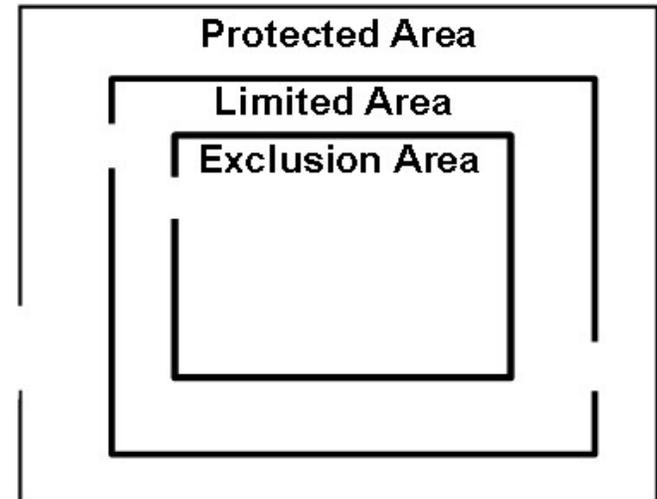
Components of Biosecurity





Physical Security

- **Graded protection**
 - Increasingly strict controls from one protection area to another
- **Access control**
 - Ensures only authorized individuals are allowed entry
- **Intrusion detection**
 - Detect unauthorized access





Personnel Security

- **Personnel Screening**
 - Conduct screening for authorized individuals
 - Increasing level of scrutiny for high risk positions
- **Badges**
- **Visitor Control**
- **Training**



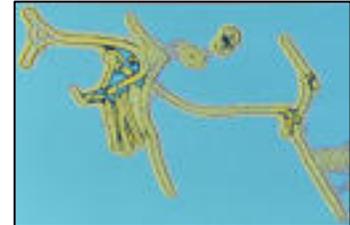


Material Control and Accountability

- **Responsibility**
 - **Accountable individual**

- **Documentation**
 - **Agent name and description**
 - **Quantity**
 - **Based on containers or other “units” NOT the number of microbes**
 - **Location**

- **Control**
 - **Physical, personnel, information, and transfer security**
 - **Biosafety/Biocontainment**





Transport Security

- **Transport may occur:**
 - Across international borders
 - Within a country
 - Within a facility or building
- **Chain of Custody**
 - Keep a running record of each individual who has possession of the biological material en route
 - Confirm receipt of biological material at destination





Information Security

- **Protect information that is too sensitive for public distribution**
 - Label information as restricted
 - Limit distribution
 - Restrict methods of communication
 - Implement network and desktop security

- **Types of sensitive information**
 - Security of dangerous pathogens and toxins
 - Risk assessments
 - Security system design
 - Access authorizations
 - Personnel records
 - Financial records





Conclusions

- **Biosecurity should be implemented in a graded manner based on risk**
- **Biosecurity can be high or low technology**
- **Much of biosecurity depends on relatively low cost policies and procedures**