

**BSL3 Planning, Programming, and Operations
Symposium
El Sokhna, Egypt
November 17, 2008**



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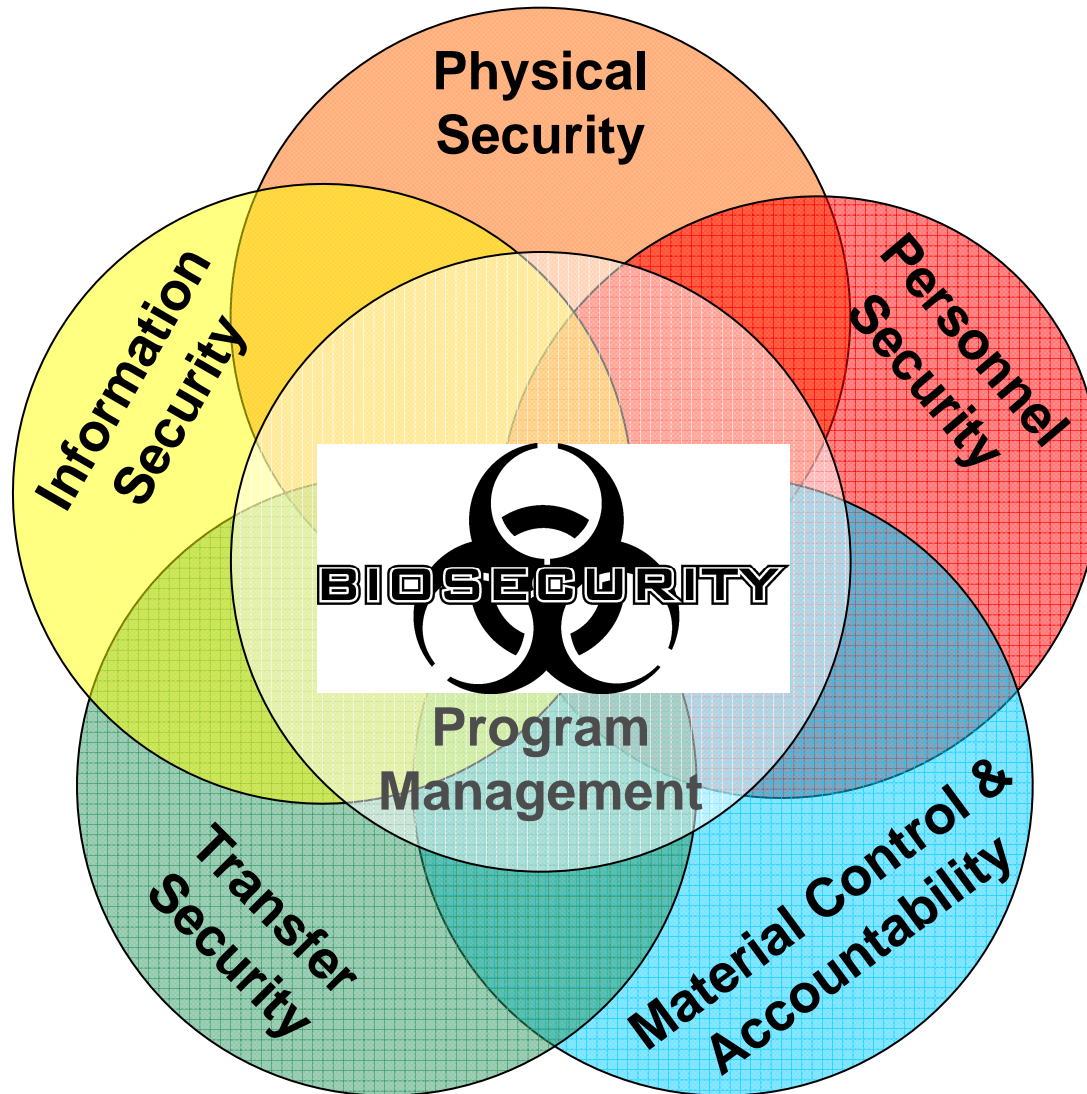
LABORATORY & LAW ENFORCEMENT PARTNERSHIPS

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Components of Biosecurity



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LABORATORY BIOSAFETY & BIOSECURITY

- **Common strategy**
 - Implement graded levels of protection based on a risk assessment
- **Methods of implementation must be carefully considered**
 - Avoid compromising necessary infectious disease research and diagnostics
- **Reduce the risk of crime and bioterrorism**



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RISK

- Function of the likelihood an adverse event will occur
- Laboratory work with pathogens will always involve some level of safety and security risk
- Resources for risk mitigation are not infinite



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LAW ENFORCEMENT'S ROLE

- **Minimize risk of material theft, diversion, and malicious use**
 - Background investigations
 - Train and augment existing security force
 - Respond to criminal and suspicious activity



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RELATIONSHIP: LABORATORIES & LAW ENFORCEMENT

- Very important to establish relationship **early**
- Familiarity of facility
- Who needs what?
- Lab protocol?
- Rules of engagement and thresholds
- Biosecurity risk assessment



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COMMUNICATION LINKAGES

- Establishing mutually beneficial partnerships
- Establishing trust
- Developing trusted processes
- Identifying thresholds to take action



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SYNTHETIC BIOLOGY

- New gene arrangements
- Dual-use challenge
 - Benefits
 - Harm
- Outreach to industry
- Suspicious customers or orders



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SELECT AGENT PROGRAM

- HHS/CDC
 - Regulates possession, use, and transfer of biological agents and toxins that could pose a severe threat to *public health* and safety
- USDA/APHIS
 - Regulates possession, use, and transfer of select agents that could pose a severe threat to *animal or plant health* and/or animal or plant products



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SELECT AGENT PROGRAM

- Criminal Justice Information Services Division (CJIS)
 - Conducts security risk assessments of non-governmental entities and personnel needing access to select agents



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SHARED ISSUES

- The “responsibility and authority” problem
- Needs:
 - Create authority and responsibility for investigation of bioterrorism investigations
 - Provide for threat based information sharing
 - Standardize and improve reporting statutes



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TRAINING

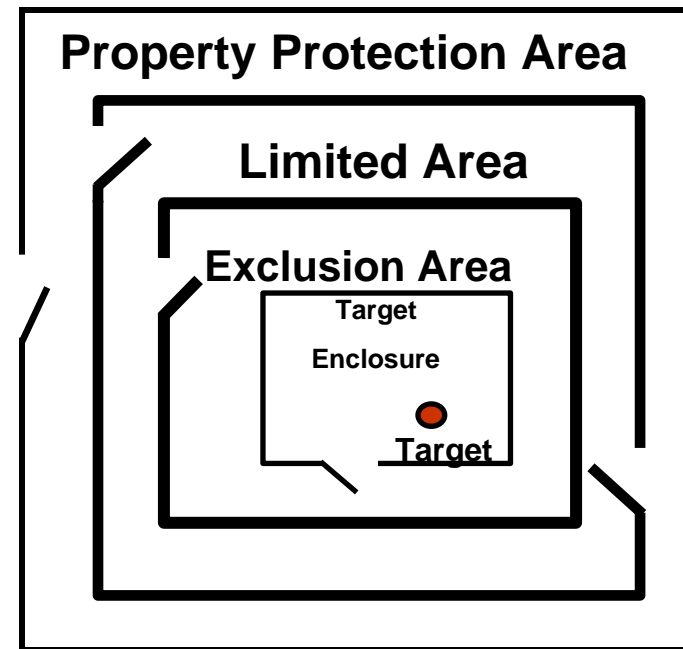
- Recognition of dual use equipment and process
- Table Top Exercises (TTX)
 - Identify local leaders in the lab facility, public health, and law enforcement
 - Develop locally adaptable strategies
- Sharing resources
 - Linkage of indicators of bioterrorism across the labs, public health, and law enforcement
 - Use referenced details to support thresholds for action



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PHYSICAL PROTECTION AREAS

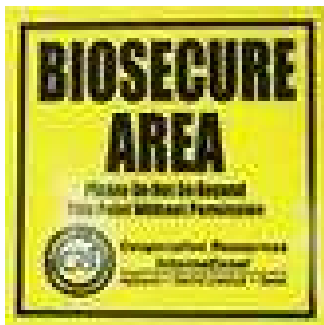
- Property protection areas
 - Grounds
 - Public offices
 - Low risk pathogens or toxins
- Limited areas
 - Moderate risk pathogens or toxins
 - Offices containing sensitive information
 - Healthy animal care facilities
 - Hallways surrounding exclusion areas
- Exclusion areas
 - High or extreme risk pathogens or toxins and contaminated animals
 - Computer network hubs
 - Electronic security system hubs



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ACCESS CONTROL

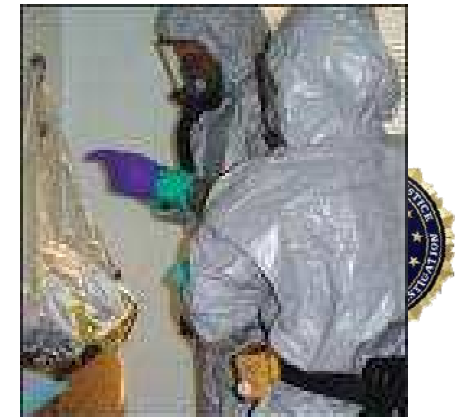
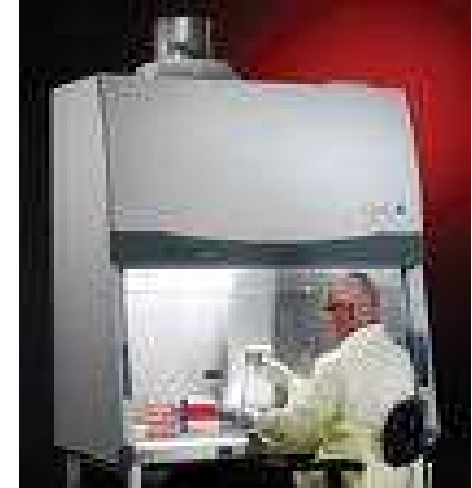
- Authorized individuals allowed entry
- Authorized access to materials
- Implement stricter controls for highest risk assets
- Examples of access control measures
- Law enforcement potential involvement



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PERSONNEL SECURITY

- Personnel screening
- Badges
- Visitor control
- Training
- Potential roles for law enforcement



MATERIAL CONTROL & ACCOUNTABILITY

- Documentation
- Control
- Responsible individual
- Potential law enforcement efforts



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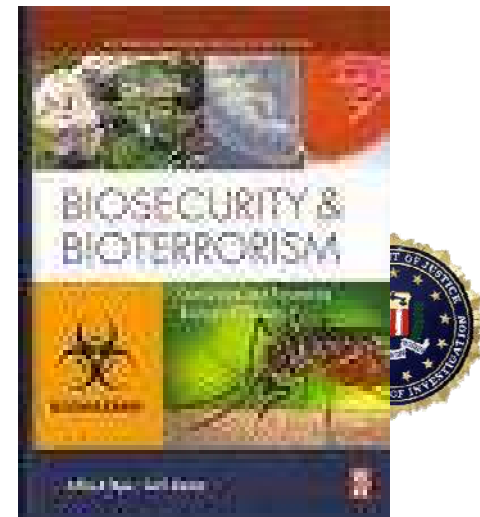


INFORMATION SECURITY

- Protect information that is too sensitive for public distribution
- Types of sensitive information
- Potential law enforcement involvement



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**“The boss is worried about information security,
so he sends his messages one alphabet letter
at a time in random sequence.”**



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TRANSPORTATION SECURITY

- What are Dangerous Goods?
 - “Dangerous goods are articles or substances which are capable of posing a risk to health, safety, property, or the environment and ... which meet the criteria from one or more of the nine UN hazard classes”
- Know who is transporting dangerous goods and who is receiving them
- Establish shipping, receiving, and disposal areas



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CHAIN OF CUSTODY

- “Paper trail” of bacterial agent transport and delivery
- Keep a running record of each individual who has possession of the biological agent en route
- Confirm receipt of biological agent at destination
- Documentation includes



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CASE EXAMPLE

- Newark, New Jersey, USA
- Lab animals missing
- Lab contacted WMD Coordinator
- WMD Operations Unit notified
- Investigation
- Conclusion



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QUESTIONS?

Thank you



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