

Assuring Safe and Secure Operations

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**Homeland
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NBACC Was Formed In Response To National Security Needs In Biodefense

- NBACC created to address unmet biodefense needs
 - 9/11 Amerithrax letters
 - Bioterror and biotech advances
- Significant progress
 - Operational bioforensic analysis
 - Bioforensic methods for novel and genetically engineered agents
 - Scientific data to address risk and hazard uncertainties
- “Advances within the life sciences hold extraordinary potential for beneficial progress, but they also can empower those who would use biological agents for ill purpose ... We will continue to face new and emerging biological threats”*

*President Obama, Nov. 23, 2009



The National Security Biocontainment Laboratory Science, Operations And Outreach

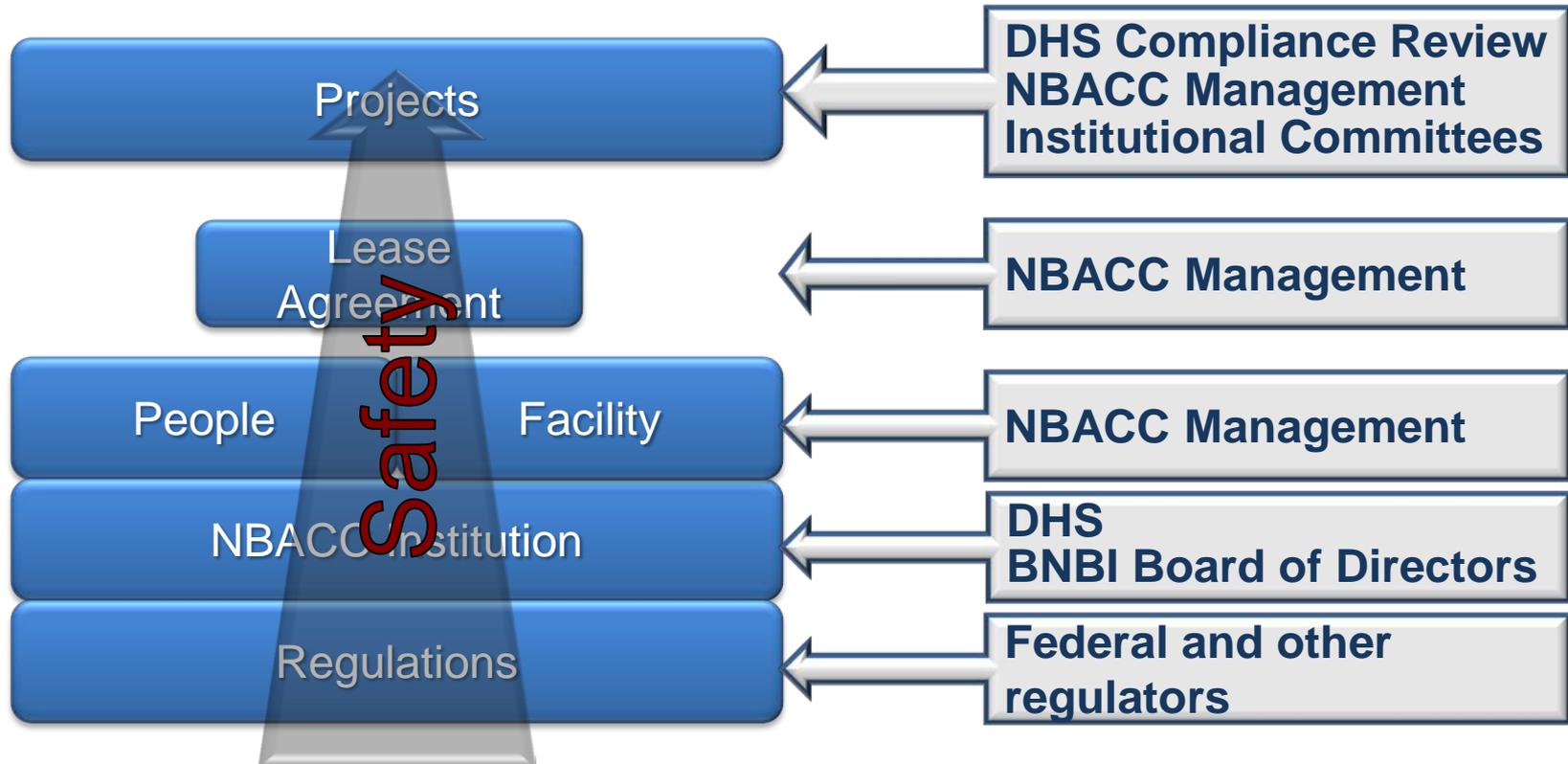


Programs	Operations	Outreach
<ul style="list-style-type: none"> ▪ National Bioforensic Analysis Center (NBFAC) ▪ National Biological Threat Characterization Center (NBTCC) ▪ National Capability 	<ul style="list-style-type: none"> ▪ Safety ▪ Security ▪ Quality ▪ Compliance ▪ Facilities ▪ Business Ops 	<ul style="list-style-type: none"> ▪ Science and community stakeholders ▪ Engagement and transparency ▪ Science, Technology, Engineering, and Math (STEM) education

NBACC Safety Integration and Oversight



Oversight



Oversight Embraced as Part of Quality Management Programs

External Oversight, Licenses, Registrations, etc.

- BNBI Board of Directors
- DHS Contract, Compliance Review, etc.
- Centers for Disease Control and Prevention
- United States Department of Agriculture
- Nuclear Regulatory Commission
- Department of Transportation
- Occupational Safety and Health Administration
- Defense Security Service
- Fort Detrick Fire Department
- Association for Assessment and Accreditation of Laboratory Animal Care International
- The American Association for Laboratory Accreditation
- US Environmental Protection Agency
- Department of Justice
- Department of Commerce
- Maryland's Biological Agents Registry
- Institutional Biosafety Committee
- Bureau of Alcohol, Tobacco, Firearms and Explosives
- Drug Enforcement Agency

Internal Oversight

- Management (Science and Operations)
- Quality Management (ISO)
- Institutional Committees
- Personnel Reliability Program
- Generalized Process with graded implementation to support a learning organization
 - Set expectations
 - Self-audit, inspection
 - Independent audit, inspection
 - Event, near-miss, and improvement identification
 - Corrective/Improvement action tracking



Set Expectations for Safety and Security

Annual Incident Goal:



For Additional Information

- **BNBI: <http://www.bnbi.org>**
 - FAQ (Biosafety)
 - Strategic Plan
 - Employment opportunities
- **Personnel Reliability**
 - J.J. Higgins, et al, “Implementation of a Personnel Reliability Program as a Facilitator of Biosafety and Biosecurity Culture in BSL-3 and BSL-4 Laboratories ,” *Biosecurity and Bioterrorism: Biodefense Strategy, Practice, and Science*, vol. 11, No. 2, pp. 130-137, 2013
- **Facility Testing**
 - J. Colella, et al, “The Endurance Testing Process: A Methodology to Verify the Functionality of Biocontainment, Security, and Life Safety Systems in BSL-3 and BSL-4 Laboratories ,” *Applied Biosafety*, vol. 18, No. 1, pp. 18-23, 2013





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