



International

BIOLOGICAL THREAT REDUCTION

Innovative Solutions for Countering Biological Threats Globally

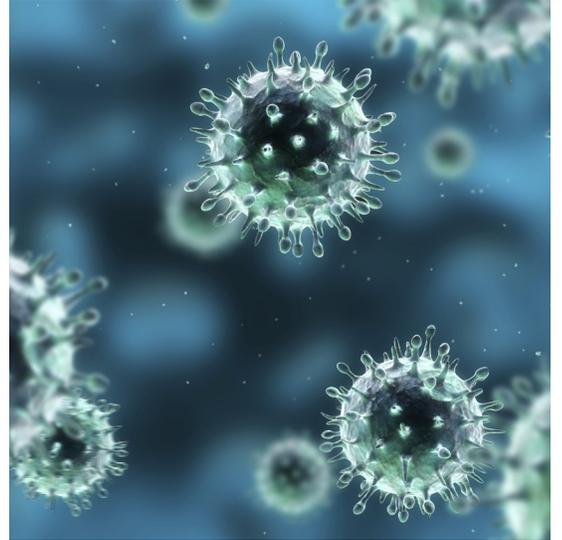
Overview

Sandia National Laboratories develops innovative, science-based solutions to solve the most challenging national and global security problems.

Sandia's Global Security Programs reduce proliferation and terrorism threats to US national security through global technical engagement.

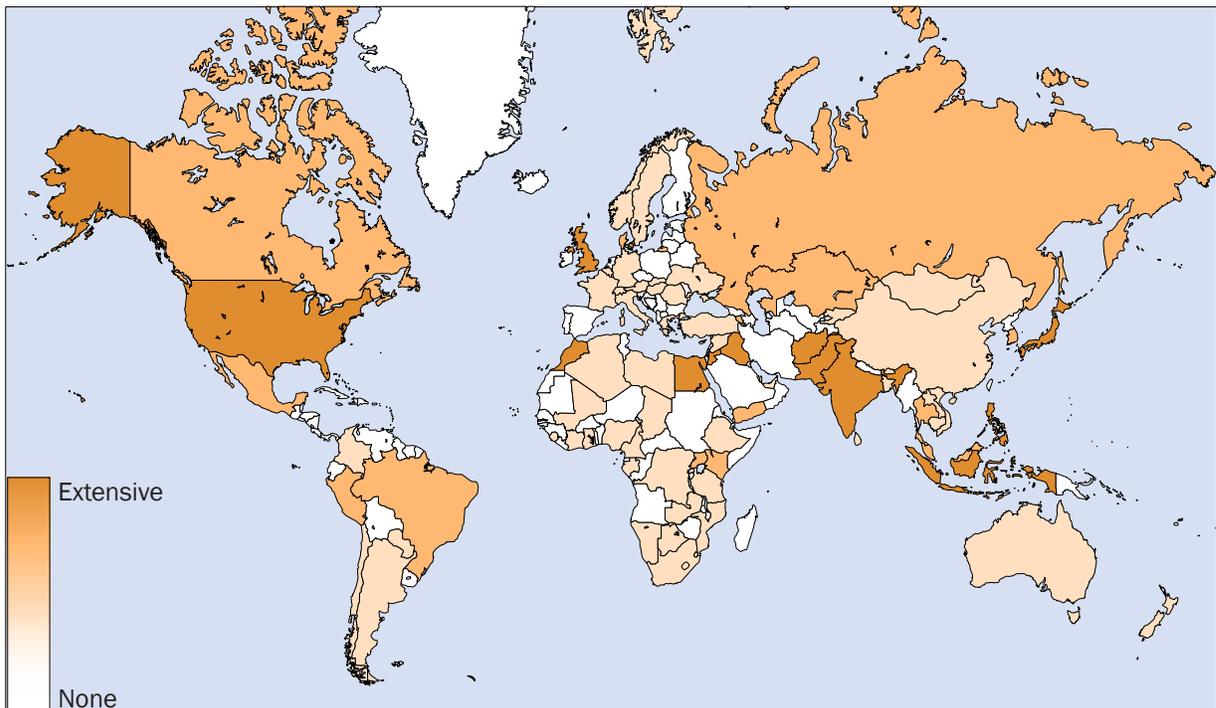
Since 1999, the International Biological Threat Reduction (IBTR) program, a division of Sandia's Global Security Programs, has worked to advance international threat reduction goals by promoting safe, secure, and responsible use of dangerous biological agents around the globe.

IBTR leverages advanced technical resources and expertise, coupled with strategic alliances, to meet its core objectives. In cooperation with US agencies, host country governments, and other international collaborators, IBTR promotes sustainable and transparent bioscience capacity, while identifying and reducing global biological threats.



IBTR Goals

- Promote the responsible use of biological agents, equipment, and expertise globally.
- Strengthen capacities to safely, securely, and responsibly detect, handle, and control biological agents.
- Improve understanding and management of the risks associated with accidental and deliberate misuse of biological agents.



For more information, visit us online at <http://biosecurity.sandia.gov/ibtr>



Sandia National Laboratories

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Global Engagement

IBTR engages multiple sponsors, collaborators, and in-country stakeholders to understand needs on a local, regional, and global scale. Global engagement capabilities to develop local and/or regional strategies for biorisk management tailored to the local context based on:

- Country status, needs, and gaps in biorisk management
- Solutions tailored to local context
- Potential barriers to biorisk management within a system
- Lessons learned from previous engagements
- Establish or foster collaborations among regional, national, and international partners



Technical Capabilities & Tools



Laboratory Biorisk Management

- Risk assessment methodologies for laboratory biosafety and biosecurity risks
- Laboratory biorisk standards development and implementation
- Library of core documents for biorisk management
- Risk-based design of containment laboratories and facilities
- Improving biosafety and biosecurity at facilities



Biothreat Identification, Prevention, and Response

- Robust, transparent, and reproducible methodology for collaborative identification and prioritization of biorisks in a country or region
- Prioritization of biological threats worldwide
- Identification of the best technical solutions to mitigate those threats



Capacity Building & Outreach

- Library of biorisk management training curriculum for various stakeholders, including policy makers, top management, biorisk management advisors, scientists, laboratory management, and laboratory workforce
- Training implementation strategies including regional training centers, train-the-trainer programs, workshops
- Training on biothreats and biorisk mitigation strategies for law enforcement officials



Public and Animal Health Security

- Modern molecular diagnostics to enhance infectious disease detection and reduce reliance on live, dangerous biological agents
- Methodologies to detect the release of dangerous biological agents, including mitigation strategies for response
- Engagement with public and veterinary health professionals to enhance awareness of biothreats and biorisk mitigation strategies
- Engagement of key global disease surveillance stakeholders to enhance detection, reporting, and response efforts
- Full scale functional exercises to support emergency preparedness and response

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