



Background and Capability Overview

Metabiota is the pioneer in comprehensive risk analytics that help protect global health. Built on a strong foundation of scientific expertise, including a worldwide network of on-the-ground experts, Metabiota delivers actionable, data-driven analytics to help countries and corporations mitigate complex health issues. With a strategic global presence and sustained partnerships, Metabiota's agile approach helps identify, analyze, and transfer the risk associated with biological threats. The company's international footprint includes operations in 30 countries and offices in San Francisco, Washington, China, Canada, Sierra Leone, Cameroon, and the Democratic Republic of the Congo.

Metabiota is a leader in epidemic disease mitigation and risk analytics solutions, and key to our success is applying an integrated approach to building capability that considers the entire range of biological event dynamics. Metabiota has deep expertise on development projects and scientific programs centered on laboratory capacity building, biosurveillance, risk and gap analysis, and augmentation of infectious disease technical knowledge for USG biosecurity and biodefense initiatives. Our key capabilities include full spectrum biorisk management; biosurveillance; diagnostics and pathogen discovery; risk analytics, modeling, and mitigation; infectious disease situational awareness and biothreat analysis; biosecurity and biosafety capacity building; outbreak support and investigation; program M&E; medical anthropology; specimen repositories; public health emergency management; criticality assessment; vulnerability assessment; capability assessment; contingency plan development; and subject matter expertise.

Metabiota has vast experience training more than 4,500 government personnel, physicians, veterinarians, resource managers, and laboratory technicians in over 15 countries and covering a spectrum of topics, including biosafety training (for biosafety levels [BSL] 3 and 4), surveillance, laboratory techniques and diagnostics, grantsmanship, and disease outbreak investigation, and can provide a customized development plan and curriculum that speaks to emerging demands, both locally and regionally. Metabiota can also provide partners with access to a decade's worth of unique and unpublished clinical and laboratory data on multiple emerging infectious diseases and select agents through our long-standing collaborations and research activities. Our global activities conducting and supporting laboratory diagnostics, research, biosurveillance, biosafety and biosecurity, and building capacity funded by USAID, the Department of Defense (DoD), DTRA CBEP and BTRIC, the Department of Homeland Security (DHS), and the Department of State (DoS) have allowed us unprecedented access through our long-term relationships with host country ministries of health, as well as internationally recognized research facilities and networks.

A Risk Focused, Systems Based Approach

Metabiota creates actionable insight into biological threats with the Metabiota software platform, which tracks and visualizes biological threats in order to improve and accelerate critical responses, and currently serves USG agencies, the global insurance market, and the US agricultural industry. Our platform provides near real-time and historical disease information for unprecedented situational awareness, and incorporates simulations for users to understand the full range of possible future outcomes. In addition to biological data, the platform includes geopolitical, economic, and societal datasets, allowing users to explore the subtle differences of spreading disease within differing populations and geographies. With open APIs, defined data formats, and standardized model inputs, the platform is both flexible and extensible, and provides a firm foundation for a variety of environments that required a customized solution. Our easy-to-use interface dramatically cuts the typical required training and accelerates the time for users to make an impact. Using this platform, Metabiota has also developed the Metabiota Preparedness Index (MPI), which quantifies the relative capability of countries to respond to a public health emergency. The index ranks 203 countries and territories worldwide, and can be disaggregated to model five critical public capacities: public health infrastructure, physical infrastructure, institutional capacity, economic resources, and public health communications.

In addition to providing extensive experience and an understanding of the operational environment that comes from years of scientific and technical engagement with USG and international partners, Metabiota provides access to a deep pool of scientific, technical, academic, and partner governmental resources that can facilitate long term, sustainable engagement.

