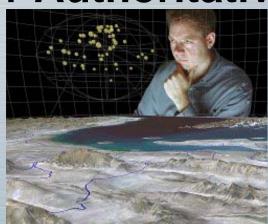


The Chemical and Biological Defense Information Analysis Center (CBIAC), a Knowledge Management Source for Authoritative Information





Donald McGonigle KM Program Manager October 2005



CBIAC Overview

 Chartered by DoD to generate, collect, analyze and disseminate scientific and technical information to Gov't and their contractors

 Provides comprehensive databases, technical analysis, and analytical tools and techniques in the CBRNE domain

Inquiries (Free)

 CBIAC Website http://www.cbiac.apgea.army.mil

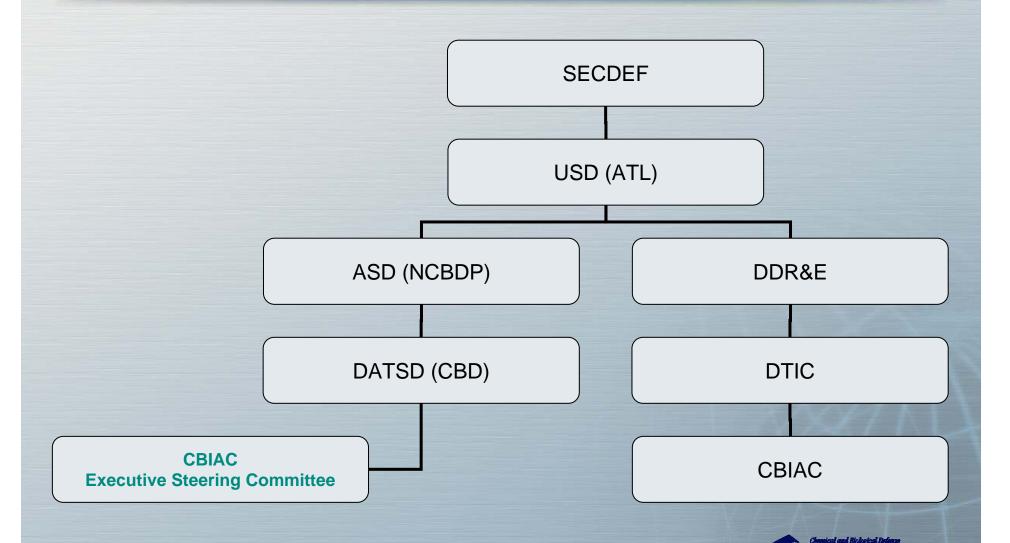
 Contractor operated; administered by Defense Technical Information Center (DTIC)







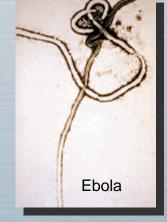
CBIAC Relationships



Technical Scope

- Chemical and Physical Properties of CW/CBD Materials
- Toxicology
- Warning and Identification
- Medical Effects and Treatment
- Treaty Verification
- International Technology, Proliferation and Control
- Individual and Collective Protection
- Chemical Identification
- Environmental Fate and Effects
- Decontamination
- NBC Survivability
- Combat Effectiveness
- Smoke and Obscurants
- Sarin

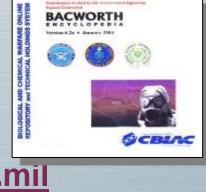
- Demilitarization
- Analysis of Manufacturing Processes for NBC Systems
- Defense Conversion & Dual use Technology Transfer
- Domestic Preparedness / Homeland Security
- Force Protection
- Counterterrorism
- Counterproliferation
- Toxic Industrial Chemicals/Materials (TICs/TIMs)





Core Program Services and Products

- Inquiries (Free)
 - Gateway to CBIAC expert reach-back
 - Informational, Technical, Bibliographic
 - Referrals
- CBIAC Website http://www.cbiac.apgea.army.mil
 - Access to Bibliographic Database (85,000 documents/128,000 citations)
 - Access to Inquiries, Products, Newsletters, etc.
 - Newsletters/Brochures
- Products (examples)
 - Criminal and Epidemiological Handbook
 - Sensing of CB Agents
 - Medical Biological Risk Assessment
 - CB Terminology Handbook
 - Susceptibility of Aerospace Materials to CW Agents



POSSIBLE TERRORIST USE OF MODER BIOTECHNOLOGY TECHNIQUES



Security

- DSS Inspection: 3 Consecutive Superior Ratings
- CI Support Recognized
- Collateral Open Shelf Storage
- Self Certification for selected AIS
- SIPRnet Accreditation
- TS Closed Storage

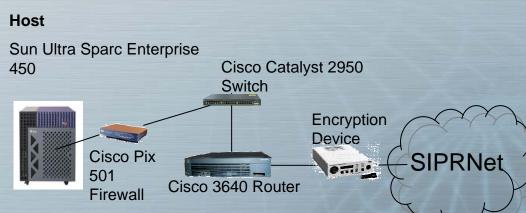


Application Management and Hosting Services

CBIAC Data Center

- Partnership with Aberdeen Proving Ground, DTRA, JRO, and DTIC
- Physical Security
- Backup Power/PDU
- NIPRnet, SIPRnet
- Multiple Carriers to Internet Backbone





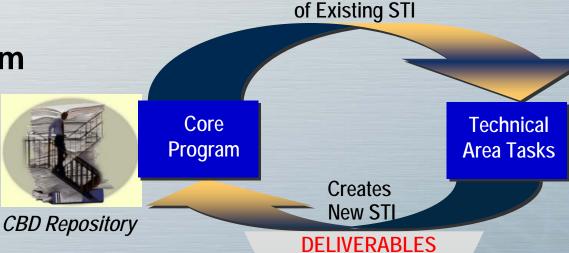
Off-site Backup

- Dugway Proving Ground
- Commercial Facility



Technical Area Task (TAT) Program

- Utilize existing CBD Repository to support TAT program
- Create new Authoritative information to meet immediate user needs
- Ensure TAT deliverables incorporated into CBIAC CBD repository
- Leverage TAT data to support broader user needs/ applications



Promote Use





Effective User Community Support



CBIAC TATs - Customer Focus

- Client controlled incremental funding
- Cost Plus Fixed Fee (you are only charged for work performed)
- Flexibility to change focus (within scope)
 - Award provides a "menu" of relevant sub tasks
 - Broad Technical Scope
- Work can be performed without Fiscal Year limitations
- Client provides on going direction and focus
- Can accept any "color" dollars
- Can accept dollars from multiple funding sources

Knowledge Management

- Provide science-based subject matter expertise to communicate, analyze, and distribute critical information assembled from multiple sources:
 - -Secure digital communications
 - -Expert content development and distribution
 - Information visualization and discovery
 - -Data acquisition and processing (animal tracking)
 - -Epidemiologic mapping GIS/GPS
 - Database repository systems



CBIAC Knowledge Management Elements

- ► Information Collection & Analysis ► Taxonomy
- ► Taxonomy Development
- ▶ Data Management

People (

- **▶** Biologists
- **▶** Chemists
- Intelligence Analysts

Management

O, CEIAG KI

Process

► COTS Integration,
Battelle Products
(Starlight, Inspire, etc)

► Battelle Development (BACWORTH2, DART)

Technology

Decision making requires information that is

- Authoritative
- High quality
- Relevant



KM Problem Areas/Client Challenges

- Need to improve data quality to support and manage performance and enforcement of safety, project, and fiscal management business areas
- Share and collaborate amongst and between organizations
- Large volumes of distributed data in various formats and states

Age old problems that exist in many government agencies...

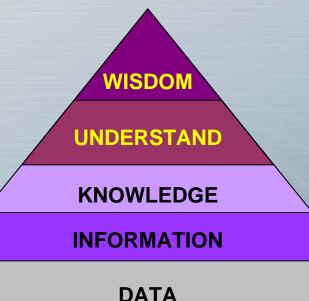
... some driven by legacy applications and technologies...

... others driven by culture differences or leadership



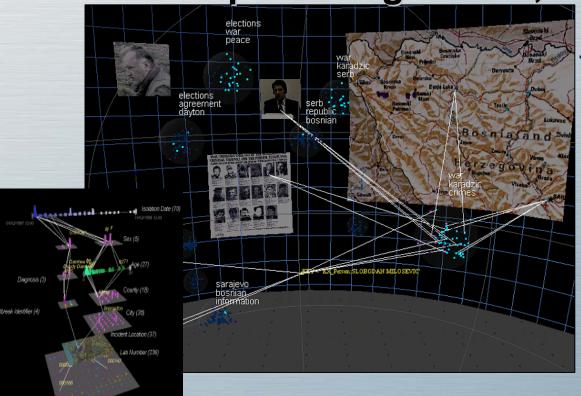
Data and Taxonomy Problem Space

- Two general data types
 - -Structured: generally numeric or E-R based
 - Unstructured: text based
 - -Structured data is:
 - Easily machine readable
 - Countable and algorithmic
- Unstructured data is:
 - -Human readable
 - -Contextual and semantic
- Large volumes / quantities of data



Starlight Information Visualization System

Organizes, characterizes, and integrates a variety of structured and unstructured information types, for analysis to find patterns and to identify relationships among events, actors and locations.



Key Features/Benefits:

- Advanced information model
- Text information extraction
- Integrated GIS
- XML-based
- Information Integration
- Holistic Analysis
- Accelerated Interpretation
- Improved Understanding



Disaster Management Interoperability-Services

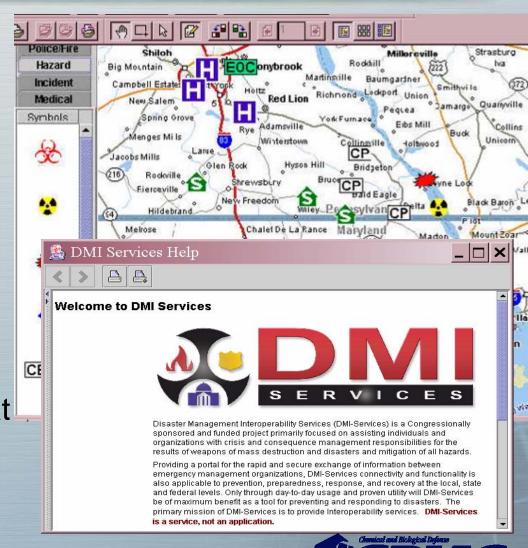
Primary Mission:

 Facilitate digital information sharing (interoperability) among the consequence mgt domains for all hazards

Secondary Mission:

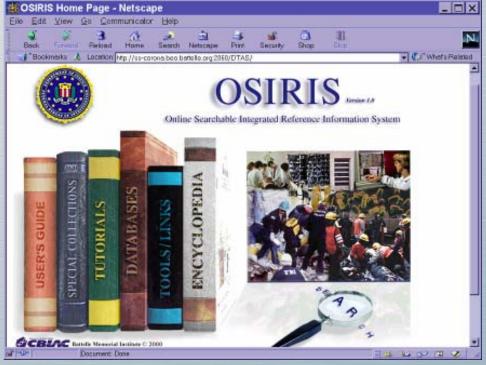
 Provide basic tools at no cost for organizations that choose to use them

www.dmi-services.org



OSIRIS-BACWORTH2-BTCP

CB Repository - CBD Doc Collections, Analyst tools, indepth Agent Encyclopedia, **Threat Characterizations** leverages CBIAC for CB recipe sources (FBI, DIA, DHS)



BTCP DOCUMENT REPOSITORY Biological Threat Characterization Program • Department of Homeland Security

WELCOME TO THE BTCP REPOSITORY. The Biological Threat Characterization. Program Repository is a highly focused collection of finished reports, scientific studies, and reference documents in the domain of chemical and biological warfare. It comprises a document database ("The Documents") and reference tools ("The Reference Desk"), which may be searched separately or together. Click here to see a summary of BTCP'S contents and features.

The DOCUMENTS

Documents can be searched by words and phrases anywhere in the document. Click on the Advanced Search link to view more options.

"Quick Tips" that help you use BT

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Agra Country Profile System

- AGRA profiles foreign facilities and people linked to select animal diseases worldwide
- WIKI system supports collaborative input





Summary

- CBIAC addresses CBD and HLS issues
- Core Program
 - No Cost Inquiry Support
 - Comprehensive Databases
 - Newsletters
 - State-of-the-Art Products
 - Gateway to CBIAC reach-back
 - "One-Stop Shop" Website
- Technical Area Tasks
 - Responsive
 - Easy to Use
- Knowledge Management Capabilities
- CBIAC Focuses on Customer Service



Your "One Stop Shop" for CBD/HLS Support

