SBCCOM
Homeland Defense Initiatives

Mr. J. H. Zarzycki
Technical Director
SBCCOM

SBCCOM

U.S. Army Soldier and Biological Chemical Command

- This nation's warfighters have relied on SBCCOM and its Edgewood predecessors since 1917
- The Technical Escort Unit has supported chemical operations since World War II
- Since 1996, SBCCOM has been assisting the nation's responders prepare for WMD incidents

SBCCOM Spectrum of Operations

U.S. Army Soldier and Biological Chemical Command

A Tailored, Flexible & Ready Force Provider

CB-RRT

Manage & Coordinate CB Defense Technical Response Capabilities

SBCCOM Operations Center

Linkage to DoD Experts

Technical Escort Unit

Provide CB Assessment, Sampling, Detection, Mitigation, Render Safe, Limited Decon, Packaging, Escort, and Remediation Worldwide

SBCCOM

Edgewood CB Center

Unique CB defense SME expertise Fly-away Lab

- **Anthrax hoaxes**
- **State of the Union Addresses**
- **Papal Visit 1999**
- **TOPOFF exercise, NH & CO - 2000**
- **Winter Olympics, Salt Lake City , UT - 2002**

Leveraging Warfighter RDA Mission for Homeland Defense

U.S. Army Soldier and Biological Chemical Command

DoD Warfighter Needs

Research

Development

Engineering & Prototyping

Warfighter Products

CB Incident Response

Emergency Responder Needs

Counterterrrorism and Forensic Services

Fixed Site/Building Protection

National Protection Center

Support to Federal Agencies

Equipment Consultation

WMD Installation Preparedness

Department of Justice

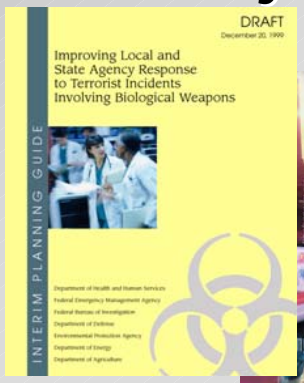
U.S. Army Soldier and Biological Chemical Command

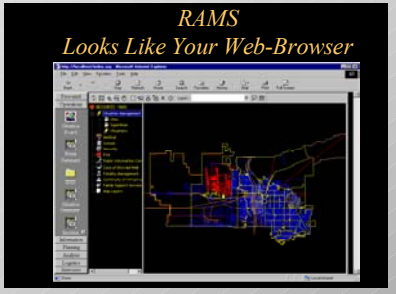
- Inter-Agency Agreement established with DOJ
- SBCCOM supports the Center for Domestic Preparedness, Anniston, Alabama
  - Chemical agent transport and application
  - Chemical surety program
  - Safety/security/reliability/environmental support
  - Industrial hygiene / medical surveillance
  - Protective clothing / equipment testing and consultation

Department of Justice

U.S. Army Soldier and Biological Chemical Command

- SBCCOM supports the Office of State and Local Domestic Preparedness Support via:
  - Knowledge transfer - lessons learned
  - Technical and operational assistance for the CB Domestic Preparedness HelpLine
  - Improved Response Program (Civilian) - Working through SBCCOM to:
    - Update Guide Books and Planning Guides
    - Complete the *Responder Asset Management System* (RAMS)





Department of Justice

U.S. Army Soldier and Biological Chemical Command

Federal Bureau of Investigation

- MOA Established for support
- Designed, fabricated and assembled the *state-of-the-art*
- Fly Away Lab
  - Store, maintain and provide personnel to operate
  - Registered ISO 9000; Accredited to ISO Guide 25 /
  - ISO STD 17025
  - Developed and validated analytical methods
  - Provide supportive forensic laboratory services

- Can deploy within 4 hours of notification

Department of State

U.S. Army Soldier and Biological Chemical Command

- Consequence Management (CoM) Support Team (CMST)
  - Provide subject matter expertise for CoM actions resulting from WMD incidents
- Building protection and analysis
  - Vulnerability assessments
  - Testing
  - Consultation

Environmental Protection Agency

U.S. Army Soldier and Biological Chemical Command

- Initially supported EPA with environmental challenges and concerns
- Expanding assistance to homeland defense issues
  - Selection criteria development for PPE
  - Assisting with health and safety SOPs
  - Providing technology evaluation assistance for CB detectors
  - Provide monitoring and technical field support

Inter-Agency Agreement

SBCCOM

U.S. Army Soldier and Biological Chemical Command

Equipment Consultation

National Protection Center

U.S. Army Soldier and Biological Chemical Command

Protecting Those Who Protect Us…

The National Protection Center is a joint agency, alliance-driven center of expertise that conducts research, develops and accelerates fielding of advanced protective technologies that save lives and reduce injuries to personnel (military and civilian) engaged in high-risk occupations or conducting missions in extreme environments on earth or encountered in space.

National Protection Center

U.S. Army Soldier and Biological Chemical Command

- Ballistic
- Explosives
- Fire/Thermal Flash
- Laser (to eye)
- Hazardous Materials
- Environmental Contaminants / Pollutants (e.g. pesticides, detergents, other)
- Weapons of Mass Destruction
- Hearing Protection
- Blunt Trauma
- Stabbing
- Extreme Environment/Climate Conditions

NPC
NATIONAL PROTECTION CENTER

Standards Development

- SBCCOM provides technical support to the National Institute of Standards and Technology (NIST) in developing standards
  - Commercial respirators, protective suits and detectors
  - Working in conjunction with NIOSH (CDC / DHHS)
  - Work funded through Oklahoma City National Memorial Institute for the Prevention of Terrorism - GEN Dennis Reimer (Ret), Director

NBC Equipment Evaluation

U.S. Army Soldier and Biological Chemical Command

- Test NBC equipment to determine performance (Tested over 120 items)
  - Detectors
  - Material swatches
  - Mask / filter canister
  - Protective suits

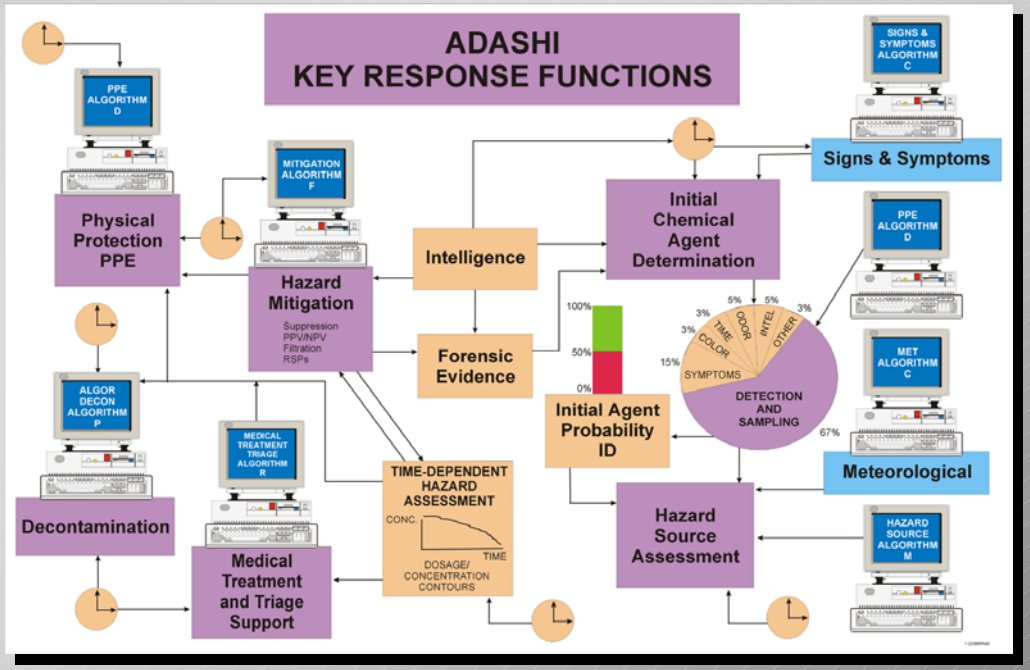
- Post test results on Web page
  - Available to first responders
  - Data only, no recommendations

http://www2.sbccom.army.mil/hld/index.htm

Automated Decision-Aid System for Hazardous Incidents (ADASHI)

U.S. Army Soldier and Biological Chemical Command

- Provide the emergency responders, decision makers and support personnel with a user-friendly, intelligent, PC-based tool to support decisions and courses of actions
- Enhance timely tactical decision making of operational responders in life-threatening hazardous incidents



WMD-Civil Support Teams (CST)

U.S. Army Soldier and Biological Chemical Command

Mission

- Assess a suspected nuclear, biological, chemical or radiological (NBCR) event in support of a local incident commander.

- Advise civilian responders regarding appropriate action.

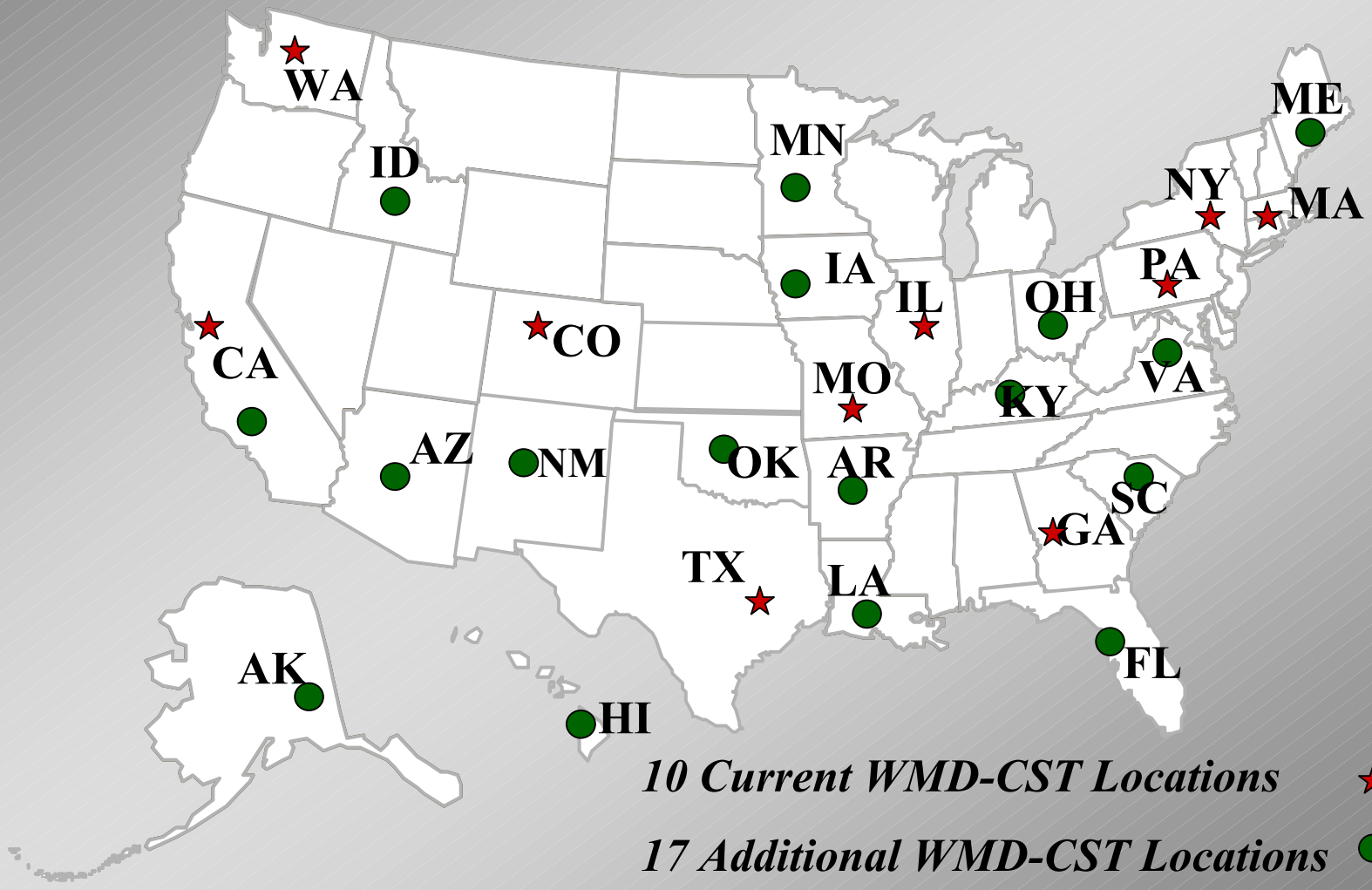
- Facilitate requests for assistance to expedite arrival of additional state and federal assets.

What is it?

- 22 Full Time personnel per team
- Army and Air National Guard Members
- Self-sustaining entity (72 hours)
- HAZMAT certified
- OSHA Level A certified
- High tech reachback capability
- Air deployable

WMD-CST Unit Locations

U.S. Army Soldier and Biological Chemical Command



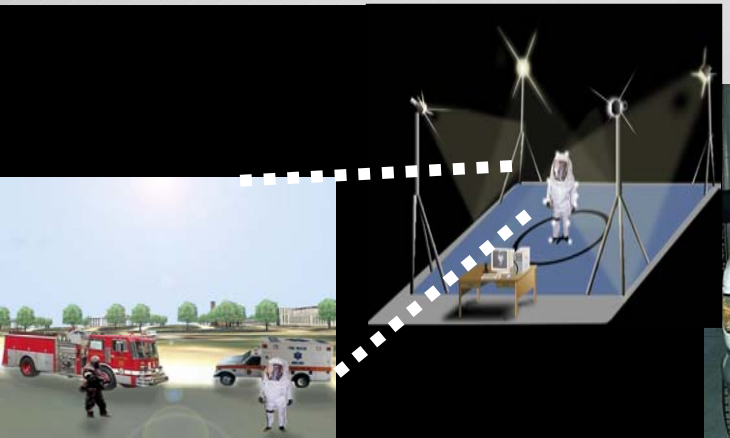
10 Current WMD-CST Locations ★

17 Additional WMD-CST Locations ●

Acquisition for WMD-CST

U.S. Army Soldier and Biological Chemical Command

- Personal protective equipment (PPE)
- Personnel decontamination equipment
- NBCR detection equipment
- Mobile Analytical Laboratory System
- Virtual Emergency Response Training Simulation (VERTS)
- Communication equipment
- Supplies & incidentals



WMD CST

- Consequence Management - Program Integration Office initiated the process
- Moving towards a more structured approach
- Comes under Joint RDA
- PM established

JOINT FUNDING

JOINT FOCUS

TOTAL CoM RDA Integration

WMD Installation Preparedness (IP)

- WMD IP process
- Technical Assistance focused on WMD IP
- Military Improved Response Program

WMD Installation Preparedness

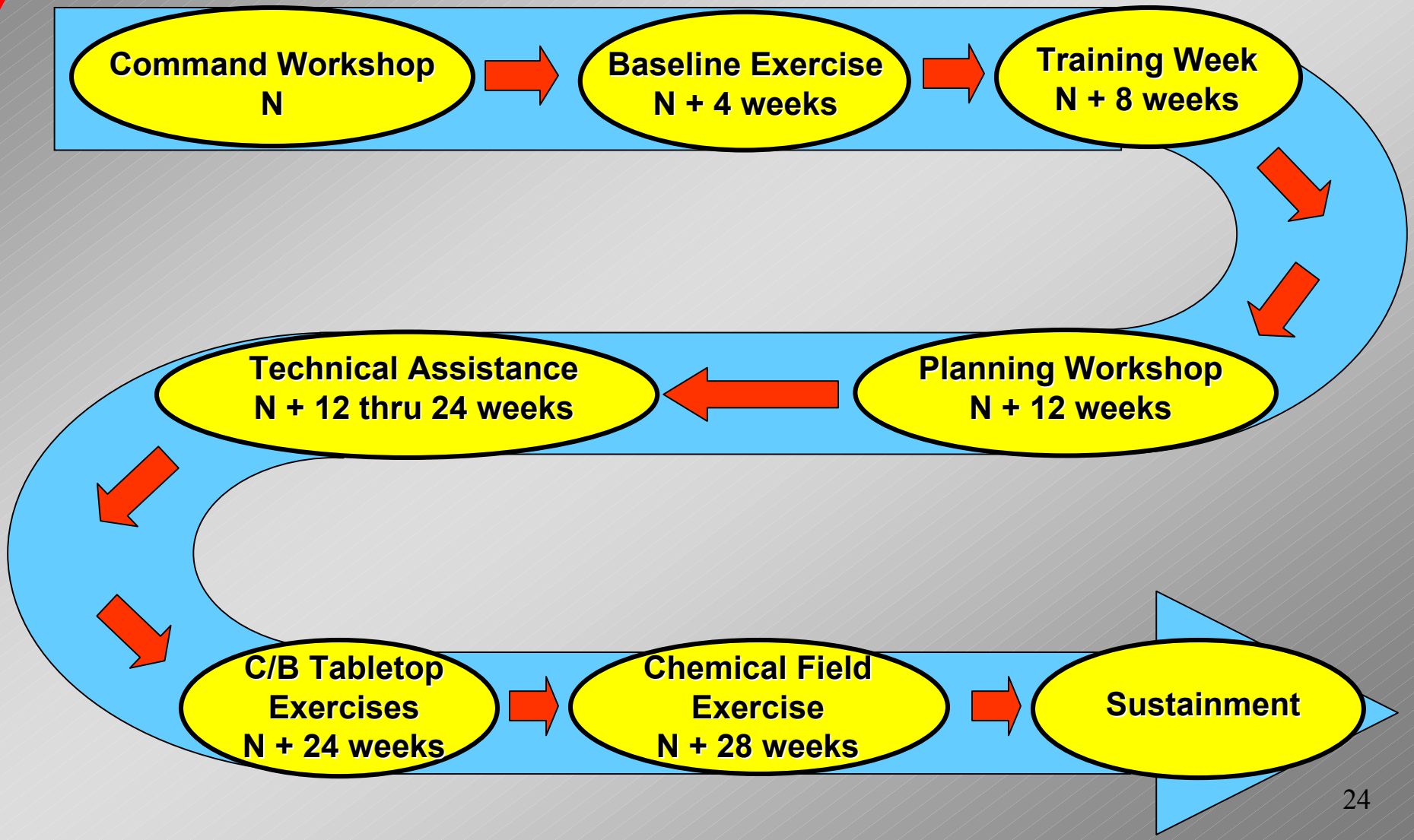
U.S. Army Soldier and Biological Chemical Command

- **Pope/Bragg Study (1998)**
  - **Demonstrated the impact of a CB attack on mission operations**
- **Pope/Bragg Pilot (1999)**
  - **Demonstrated a 45% reduction on the deployment delay resulting from a hypothetical chemical terrorist attack**

*Mar 00 Fort Bragg received a "**GREEN**" rating from FORSCOM for WMD Preparedness - the First FORSCOM Installation*

WMD Installation Preparedness Process

U.S. Army Soldier and Biological Chemical Command



Technical Knowledge Transfer

2001 Efforts:

- CINCPACFLT
- U.S. Coast Guard
- Fort A.P. Hill

WMD Installation Preparedness

U.S. Army Soldier and Biological Chemical Command

Technology Transfer - Building / Fixed Site Protection

- Vulnerability assessments
- Generate requirements based on need
- Recommend protective hardware & provide rapid customized prototypes
- Provide technical interface with A&E firms for installation
- Provide equipment certification / periodic testing
- Logistics assistance

Military Improved Response Program

U.S. Army Soldier and Biological Chemical Command

- Establish focus workgroups within DoD to identify military responder issues and coordinate IRP activities
- Integrate with the Service WMD Installation Preparedness programs
- Address the tough problems identified during installation planning, training, and exercise efforts
- Apply solutions developed under DP IRP to military installations & responders

Conclusion

U.S. Army Soldier and Biological Chemical Command

SBCCOM

- Always focused on the warfighter and demonstrated operational capability
- Possess a wealth of resident CB defense information
- Is satisfying a critical national security need by transferring / applying knowledge, technology and experience for homeland defense

"The grave threat from nuclear, biological, and chemical weapons has not gone away with the cold war... We have no higher priority than the defense of our people against a terrorist attack."

President
George W. Bush
13 February 2001