



32nd CST



Weapons of Mass Destruction Capabilities Brief





Agenda

- Mission
- Manning
- Equipment
- Training
- Capabilities





Civil Support Team Mission

On order (O/O) of the Adjutant General, the 32d CST (WMD) provides support to civil authorities at a domestic natural or man-made (CBRN-WMD) disasters by identifying CBRN agents/substances, assessing current and projected consequences, advising on response measures, and assisting with appropriate requests for state and federal support.



Civil Support Team



We are capable of:

- **Identifying** CBRNE agents & substances
- **Assessing** current and projected consequences
- **Advising** on response measures
- **Assisting** with appropriate requests for additional state and federal (DoD) support

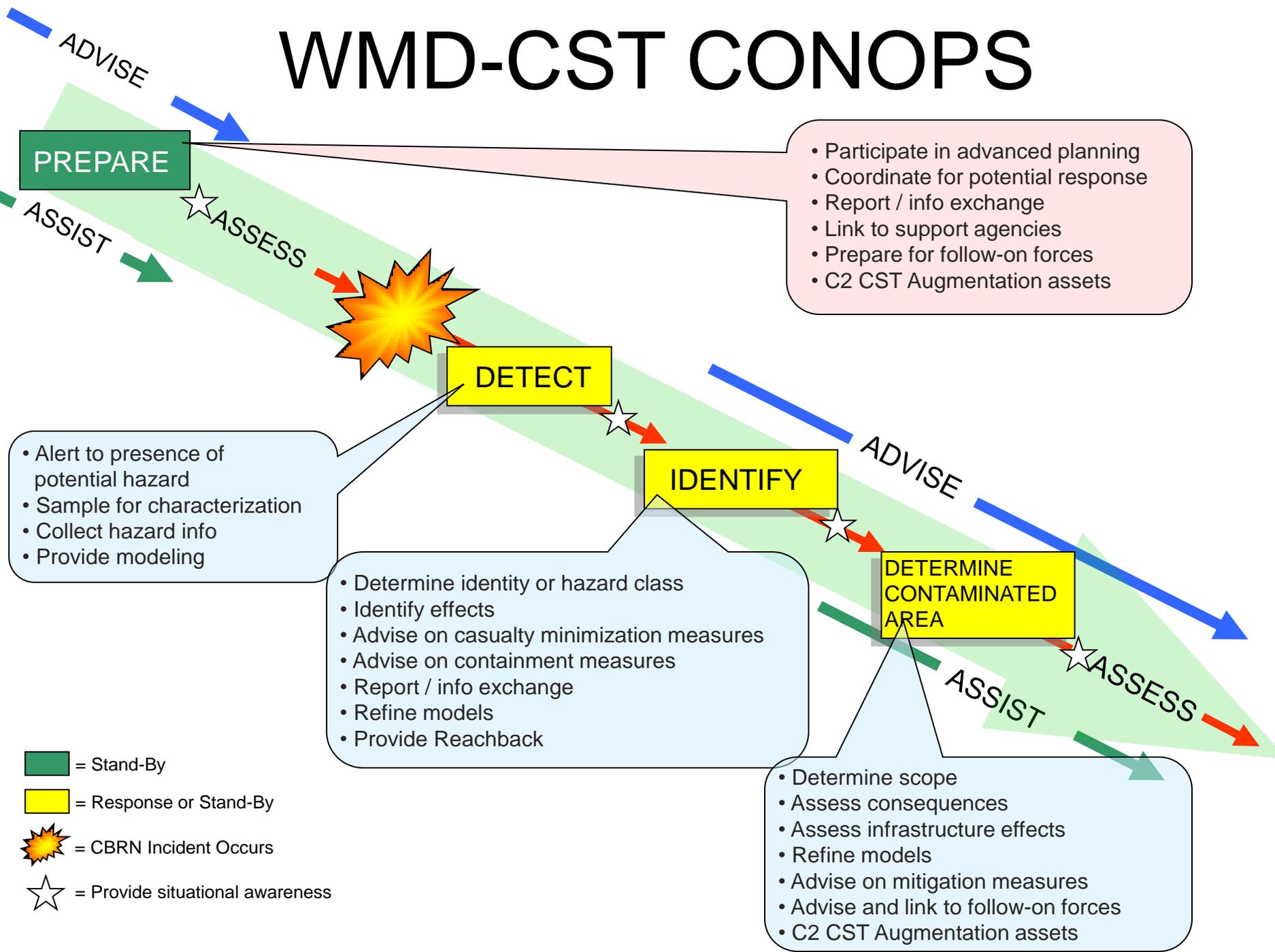


Mission Types

- **Respond**
 - Full Unit
 - Tailored, Partial Unit
- **Standby**
 - Pre-Stage at Special Events
 - Support Fed, State, Local Security/Emergency Response
- **Assist**
 - WMD Vulnerability Assessment
 - Emergency Planning
 - Training



WMD-CST CONOPS





Manning

- Composed of 22 full-time 24/7 personnel
 - Active Guard and Reserve (AGR) status
- Secret or Top Secret security clearances
- Employs non-military equipment & tactics
- Operates in Contaminated Environments
- Self Decontamination / Medical
- Self Sustaining for 72 hours
- A State Agency
 - Deploy within 90 minutes
- Federal Funding
 - No reimbursement required for services
- Supports Incident Commander (IC)
 - Roll into local Incident Command System
 - Respond at Request of IC when advanced capabilities needed





Equipment

Tactical Vehicle Fleet



2 x Survey Truck and Trailer
With Detection Equipment



Unified Command Suite
(UCS)



Mobile Lab



Command / Advanced Echelon



Ops Center



Identify Unknown Substances

- Examples
 - Terrorist Chemical, Biological, Radiological Agent
 - Suspicious Substances (“White Powders”)
 - Explosives
 - ID Liquid Explosives
 - Determine if Explosion Disseminated CBR
- Entry into Hot-Zone for Detection and Sample Collection
 - Military and Civilian PPE
 - Direct Reading Detection
 - GC/MS
 - Radiological Detection and Isotope Identification
- On-Scene Laboratory Analysis
 - Class III Glovebox
 - GC/MS
 - Polarized Light Microscope





Radiological Detection



- AN/PDR-77



- AN/VDR-2

- AN/UDR-13



- ADM-300



- Gamma Spectrometer





Radiological Detection Cont.



- **HRM** (Handheld Radiation Monitor)

self contained gamma ray and thermal neutron radiation detector for use in the interdiction and location of nuclear materials.

- **SAFESITE**

Gamma radiation detection



- **AREA RAE Gamma**

Gamma -1 to 4000 $\mu\text{R}/\text{h}$ (0.01 to 40 $\mu\text{Sv}/\text{h}$)





Communications



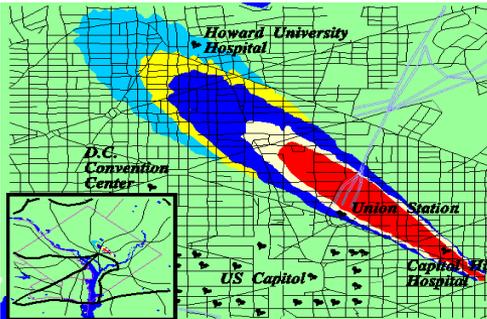
- Interoperability
 - Facilitate Interagency Comm with Local, State, and Federal responders

Advanced Communications Requirements for CST and other Emergency Responders

- Secure and Non-Secure Voice
 - Secure and Non-Secure Internet
- Reachback
 - Technical Experts from DoD, DoE, DoJ
 - Send Analytical Data and Photos for Consultation



Risk Assessment



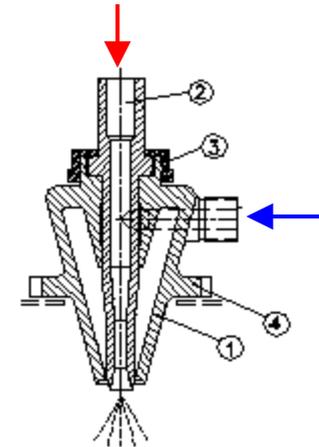
- Modeling and Hazard Prediction
 - HPAC
 - Continuously updated
- Delineate Extent of Contamination
 - Area Chem/Bio/Rad Monitoring and Analysis
 - Ground Data to Collaborate Models
- Assess Health Risks to Responders and Civilians
 - Based on ID of unknown substance, quantity, concentration, particle size, and properties
 - General Population Exposure Guidelines
 - Advise on Shelter in Place vs. Evacuation





Subject Matter Expertise

- Scientific
 - CBRNE Agent Production Processes
 - CBRNE Dissemination
 - Advanced Training in Chem/Bio/Rad Analysis and Results Interpretation
 - Decontamination
- Medical
 - Adverse Health Effects of CBRNE Agents
 - Coordinate with Scientific Assessment of Dissemination and Properties of Agent ID'ed
 - Triage Advice
 - Treatment, Decon, and Transport
 - Expertise in Risk Management for Responders in Contaminated Environment





CST Training



- Individual Training
 - 500-1200 Hours (ICS included)
 - All Hazmat Tech (Sampling focus)
 - All Certified Combat Lifesaver
- Team Training
 - 1-2 Exercises per month with local, state, and Federal agencies



Trained by:

- DOD – USA Chem School, USAMRICD, USAMRIID, AFRRRI, OMEMS, ECBC
- FEMA, NFPA, EPA, FBI, DOE
- State and Local Agencies
- Universities and Contractors



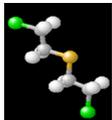
Capabilities

Modeling / Hazard Prediction

- Pre-event scenario modeling for plans development
- Immediate post-attack assessment
- Immediate action recommendations for protection of crowd based on technical assessment of agent type, amount, and delivery system

Detection and Area Monitoring

- **C** Chemical
- **B** Biological
- **R** Radiological
- **N** Nuclear



On-Scene Laboratory Analysis

- Advanced identification of suspicious substances collected in pre-event screening, during the event, or from continuous air sampling is conducted in a Mobile Laboratory.
- GC/MS to ID Volatile Organic Compounds
- FTIR to ID solids and liquids
- Real-time PCR for DNA matching of select biological agents
- Polarized Light Microscope to ID particles

Communications

- Cross-banding to connect up to seven separate frequencies
- Secure and non-secure voice, data, and fax
- PC Workstations
- Reach-back to multiple Subject Matter Experts





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