

51ST



WEAPONS OF MASS DESTRUCTION CIVIL SUPPORT TEAM

Capabilities Overview

51st WMD Civil Support Team

Quick Overview

- ▣ Federally funded
- ▣ Full time
- ▣ Twenty-two person
- ▣ Army & Air National Guard
- ▣ Designed to support local and state authorities at an actual or potential terrorist event.



Mission

“On order, the 51st WMD-CST deploys to a suspected or actual Chemical, Biological, Radiological, Nuclear, and/or Explosive (CBRNE) incident, intentional or unintentional release of toxic or poisonous chemical materials, or natural or man-made disaster, in order to support civil authorities by identifying CBRNE agents/substances, assessing current and projected consequences, advising on response measures, and assisting with appropriate requests for additional support.”

- from the CST regulation

En ingles, what is your mission?

- Support civil authorities at a domestic CBRNE incident site to identify agents/ substances
- Assess what the hazards are
- Advise on response measures
- Assist with mitigation and additional help



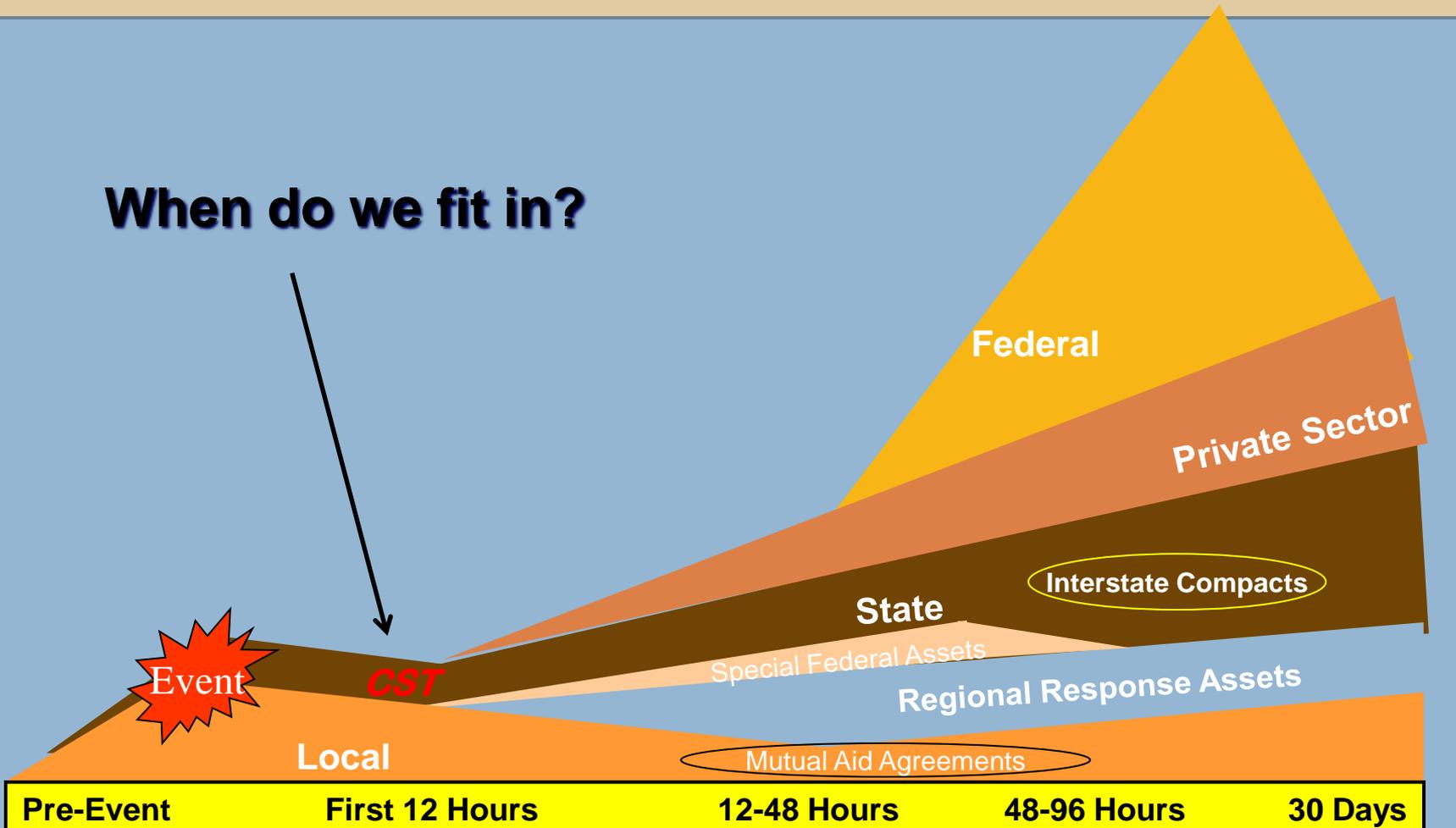
51st WMD Civil Support Team

What caused the creation of the CSTs?

- ▣ 93-World Trade Center bombing
- ▣ 95-Oklahoma City bombing
- ▣ 96-Congress mandates Defense Against Weapons of Mass Destruction Act
- ▣ May 97-Secretary of Defense recommends National Guard be assigned role of responding to chemical/biological terrorism in the US

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When do we fit in?



Alert and Notification

- **Types of missions:**
 - Response (pre or post incident) - full or limited response
 - Liaison – event and contingency planning
- **Alert and notification:**
 - Michigan National Guard Joint Operations Center
 - Michigan State Police Emergency Management District Coordinators

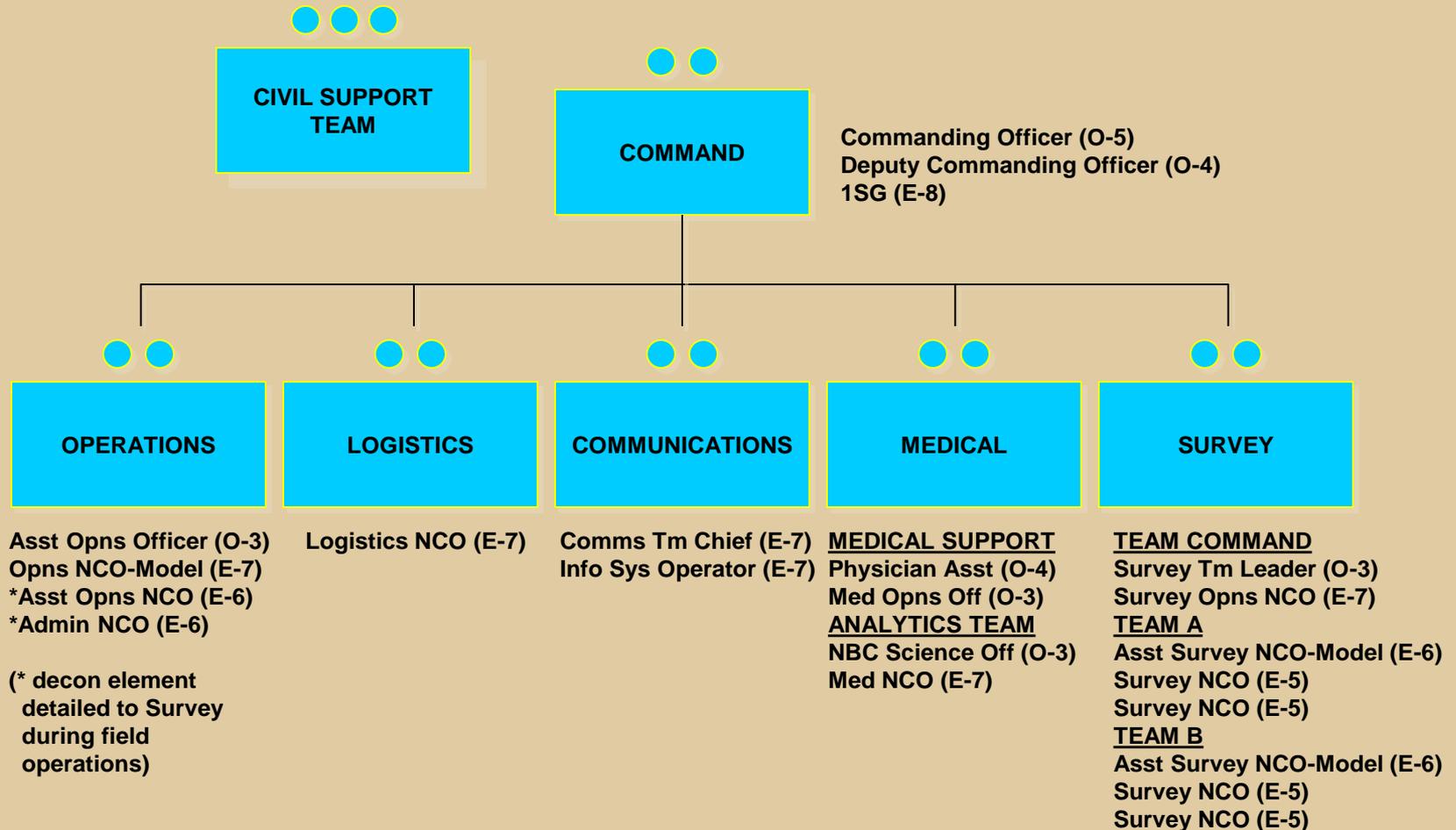
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- What are some things we can do?
 - Conduct reconnaissance (identify the hazard)
 - Collect samples
 - Conduct hazard modeling
 - Analyze and identify unknown substances
 - Establish and maintain an operations center
 - Establish communications
 - Operate within the NIMS structure
 - Provide medical treatment advice
 - Provide training assistance, planning and documentation support

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- What are some things we can't do?
 - ▣ Instant Response Time
 - ▣ Medical Treatment of the Public
 - ▣ Search and Rescue
 - ▣ Mass Decontamination
 - ▣ Explosive Ordnance Disposal
 - ▣ Long Term Sustainment

How are we organized?



WHAT CAN WE IDENTIFY?



- **All standard chemical warfare agents**
- **Limited range of 12 biological agents**
- **10,000 Industrial VOC's**
- **5,000 other solid and liquid chemicals (including “white powders”)**
- **Limited chem and bio characterization/classification**
- **Alpha, Beta, Gamma and X-ray radiation**
- **Specific radioactive isotopes**

A SMALL PORTION OF OUR EQUIPMENT...

Hapsite



Arrays



ICAM



Identifinder



UCS



HHAs



PROTECTIVE CLOTHING

LEVEL A / B

CAPABILITIES

- **Level A - Fully encapsulated to protect against liquid and/or vapor contamination.**
- **Level B - Provides protection against liquids and some protection against vapors.**
- **Military JSLIST (charcoal impregnated suit)**
- **One hour 4500psi Drager SCBA, 4 hour Drager rebreathers, full face military respirators**



TRAINING

- **400 – 2400 Hours of HazMat/WMD training per person**
 - **Unified/Incident Command System**
 - **NFPA/IFSAAC HazMat Technician**
 - **Microbiology for WMD Responders**
 - **Incident Response to Terrorist Bombings**
 - **Radiation HazMat Technician**
 - **WMD HazMat Technician**
 - **Medical Effects of Ionizing Radiation**
 - **HazMat Site Operating Practices**
 - **Radiation Accident Command, Control and Communications**
 - **Clan Lab Technician**
 - **HazMat Site Safety Officer**
 - **Confined Space Entry and Rescue**
- **Military Specialty Training and other military/civilian courses**

National CST Responses

❑ **9/11/2001**

The NY CST was on the scene immediately. CST provided communications for Mayor Giuliani for the first 3 days after the attacks.

❑ **2001 Anthrax attacks**

CSTs deployed to various locations to confirm/deny presence of anthrax across the USA.

❑ **2005 Hurricane Katrina**

Three CSTs form the initial communications network for responders after the hurricane.

❑ **2010 Fishermen catch mustard gas**

CSTs asked to assist fishing boat that hauled in containers of mustard gas.

Michigan CST Responses

- ❑ **2002 Pennfield**
 - ❑ Meth lab thrown down well explodes
- ❑ **OCT 04 Kazoo paper plant**
 - ❑ ATF requests due to crystals in a cache
- ❑ **DEC 05 Kalkaska courthouse**
 - ❑ Man coats himself in substance prior to entering hearing
- ❑ **DEC 05 Bay City**
 - ❑ Radiation survey requested
- ❑ **JUL 06 Mattawan**
 - ❑ Home improvement store finds suspicious substance

Michigan CST Responses

- ❑ **DEC 06 East Tawas**
 - ❑ Ammonium nitrate prills discovered
- ❑ **Fall 07 I-94**
 - ❑ Car pulled over filled with various HAZMAT
- ❑ **MAR 08 Michigan State Police**
 - ❑ Bag of unknown substance investigated
- ❑ **JUN 08 Kazoo stripping plant**
 - ❑ Sulfuric acid spill causing hydrogen gas leak
- ❑ **SEP 09 Oshtemo**
 - ❑ White powder mailroom response

Michigan CST Responses

- ❑ **JUL 10 Enbridge oil spill in Marshall**
 - ❑ Provided air and water sampling
- ❑ **APR 11 Ann Arbor Hospital**
 - ❑ Man emitting phosgene gas while being treated
- ❑ **NOV 11 Detroit Metro Area**
 - ❑ Well believed to be poisoned investigated

QUESTIONS???

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