



***Joint Service Installation  
Pilot Project (JSIPP)  
Program Presentation***

**CDR Roland Garipay**

**May, 2003**



*Making the World Safer*

# *History of the JSIPP*



- **History (November 2001)**

- Issue Paper highlighted need for installation protective measures
- Citing higher priorities, Services slow to budget for installation protection against CB attacks
- Optimized approach needs to be taken regarding equipment types and quantities based on capabilities, not threat scenarios
- Joint Staff determined an average protection package consisting of CB detection arrays, Medical post-attack protection, individual protection and support



- **PBD-289 (December 2001)**

- Specific requirements and funding for installation protection
- Training and exercises are the means to improve readiness

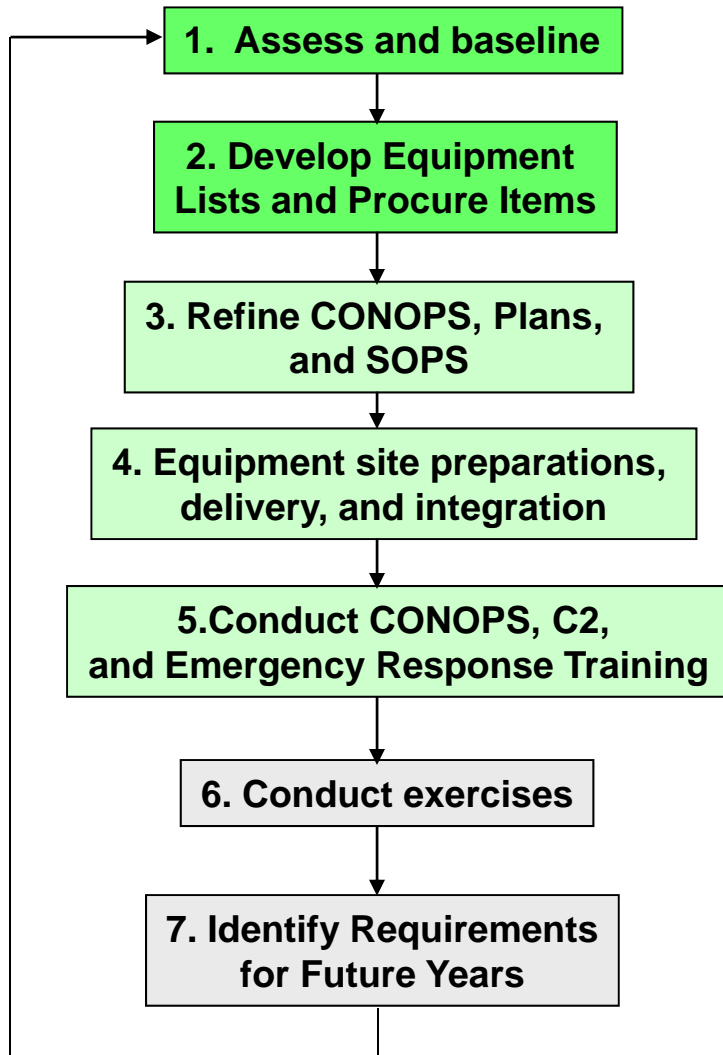
- **JSIPP Implementation Plan (September 2002)**

- Joint Pilot Program (DTRA managed)
- Expected outcome should produce recommended requirements for the Services & JRO



*Making the World Safer*

# JSIPP Process



- Assessments (complete)
- Equipment lists and Procurement (Complete Jan 03)
- CONOPS Refinement (on-going)
- Site preparations, delivery, & integration (on-going)
- Equipment and operations training (on-going)
- Exercises, Quick Look Reports, and Utility assessment
- Recommendations & lessons learned to JRO



# *JSIPP – Equipment and Capabilities*

- **Chemical detection arrays**

- Automatic Chemical Agent Detector Alarms
- Remote Chemical Detectors



- **Biological Detection Arrays**

- Portal Shield units
- Dry Filtration Units
- Polymerase Chain Reaction devices



- **Medical Post-Attack protection**

- Medical protection kits, including antibiotics (does not include vaccine)
- Medical surveillance capability

- **Individual Protection**

- Masks and suits for essential personnel
- Emergency Responder equipment (includes consequence management equipment)



- **Support for the first year of operations**



*Making the World Safer*

## *JSIPP – Tiered Approach & CBRNE Capabilities*

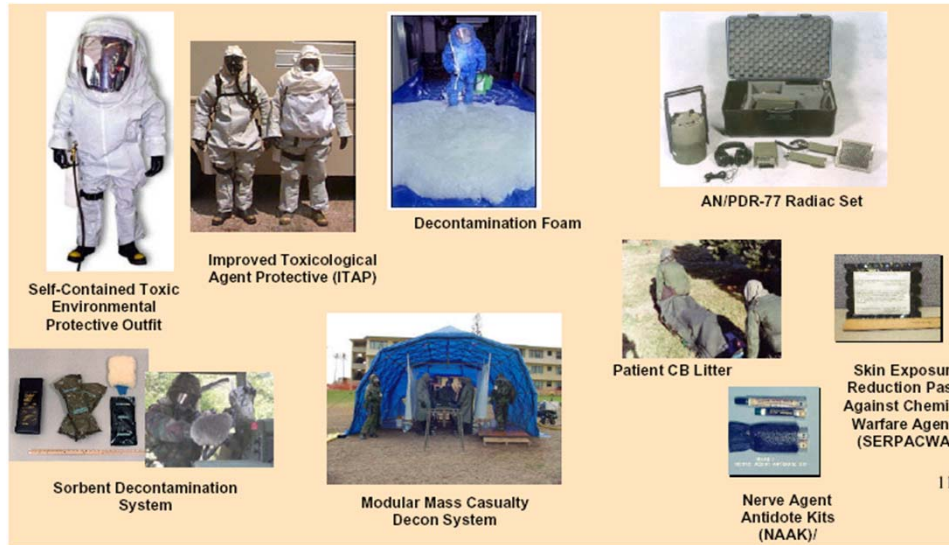


- **One size does not fit all – optimize CB & ER equipment at each installation**
- **Need varied equipment sets to provide multiple data points for requirements analysis**
- **PEO-CBD modeled equipment sets- provides good range of options for future planning**
- **Initial efforts (FY03) assesses technical adequacy-- expect to adjust equipment configurations**
- **Funds support to CB detection equipment operations**
- **Current approach reduces technical and cost risks while providing useful data**



# Tier 1 Installations

Emergency Responder equipment, CONOPS refinement and training



CONOPS refinement, ER equipment training, and planned exercises to evaluate plans & SOPs developed

Tier 1 locations will not have CB Detection equipment installed under JSIPP



Dahlgren



Pope AFB



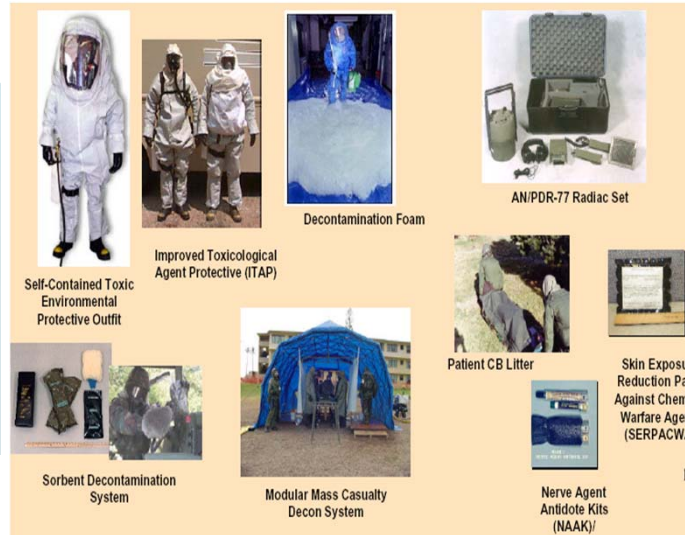
Fort Gordon



Making the World Safer

# Tier 2 Installations

ER & limited CB detection equipment, CONOPS refinement and training



CONOPS refinement including procedures & SOPs, ER & CB detection equipment training, & planned exercises

Limited integration of sensors into existing installation Emergency Response network



Barksdale AFB



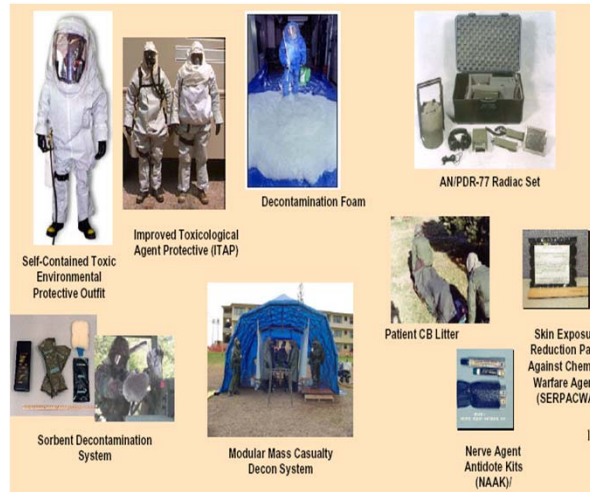
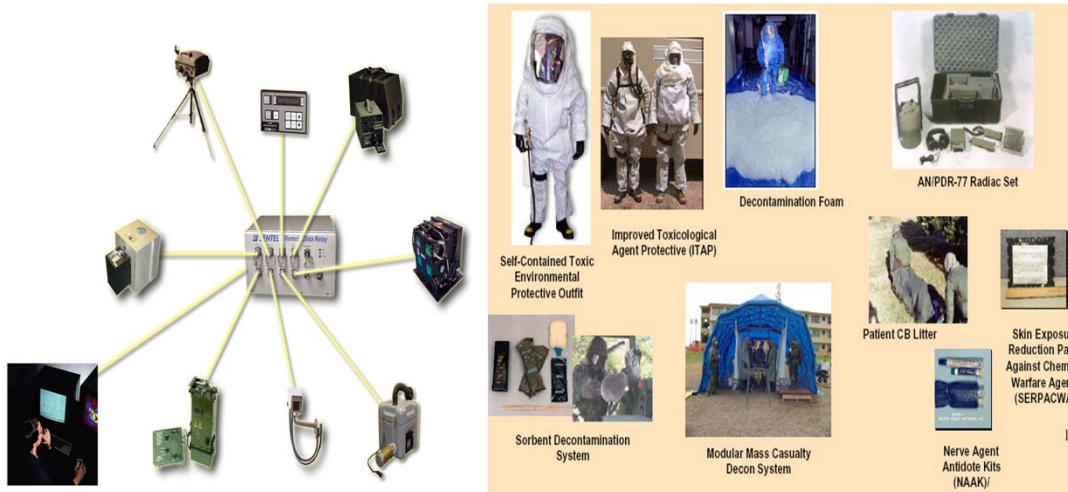
Fort Lewis





# Tier 3 Installations

ER & CB Detection equipment, integration, CONOPS refinement and training



CONOPS refinement including procedures & SOPs, ER & CB detection equipment training, & planned exercises

Full integration of sensors into existing installation  
Emergency Response network



Point Loma Peninsula, home of SSC San Diego

San Diego



Camp Lejeune



Warner Robins AFB



Fort Campbell



Making the World Safer



# *JSIPP Installations and Tiers*

<b><u>Installation</u></b>	<b><u>Tier</u></b>	<b>Detection Equipment Fielding</b>	<b>CBRNE Functional Exercise*</b>
<b>San Diego NB</b>	<b>3</b>	<b>4Q 03</b>	<b>1Q04</b>
<b>Camp Lejeune</b>	<b>3</b>	<b>4Q 03</b>	<b>4Q03</b>
<b>Pope AFB</b>	<b>1</b>	<b>n/a</b>	<b>1Q04</b>
<b>Fort Campbell</b>	<b>3</b>	<b>1Q 04</b>	<b>2Q04</b>
<b>Fort Lewis</b>	<b>2</b>	<b>1Q 04</b>	<b>3Q04</b>
<b>Fort Gordon</b>	<b>1</b>	<b>n/a</b>	<b>3Q04</b>
<b>Robins AFB</b>	<b>3</b>	<b>1Q 04</b>	<b>3Q04</b>
<b>Barksdale AFB</b>	<b>2</b>	<b>1Q 04</b>	<b>4Q04</b>
<b>Dahlgren NB</b>	<b>1</b>	<b>n/a</b>	<b>4Q04</b>

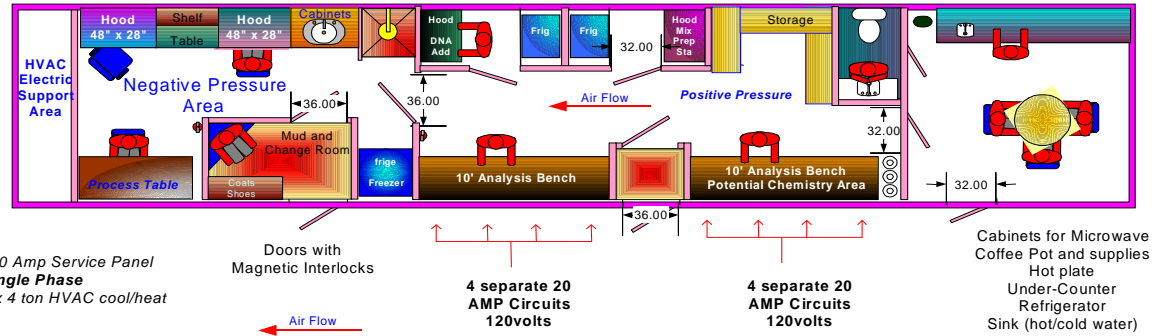
\* Exercise dates proposed/tentative



# On-site Lab

## Tier 2&3 Installations

60' x 12' Trailer



- **Location**

- Six Installations receive semi permanent analysis laboratory
- Located in fixed area at installation

- Staffed by minimum of 5 contract personnel

- Labs capable of processing 25-35 samples daily

- **DNA-Based**

- Primary method of detecting bacteria and viruses
- Real Time PCR
- ABI 7900 instrument

- **Antibody-Based**

- Toxins
- Confirm Molecular (PCR) results
- IGEN Immuno-based instrument

- **No culturing of live bacteria or viruses**

- **No live BW agents / insignificant amounts of toxins**

- **Can accommodate Chemical analytical capability**



# *Medical Surveillance*

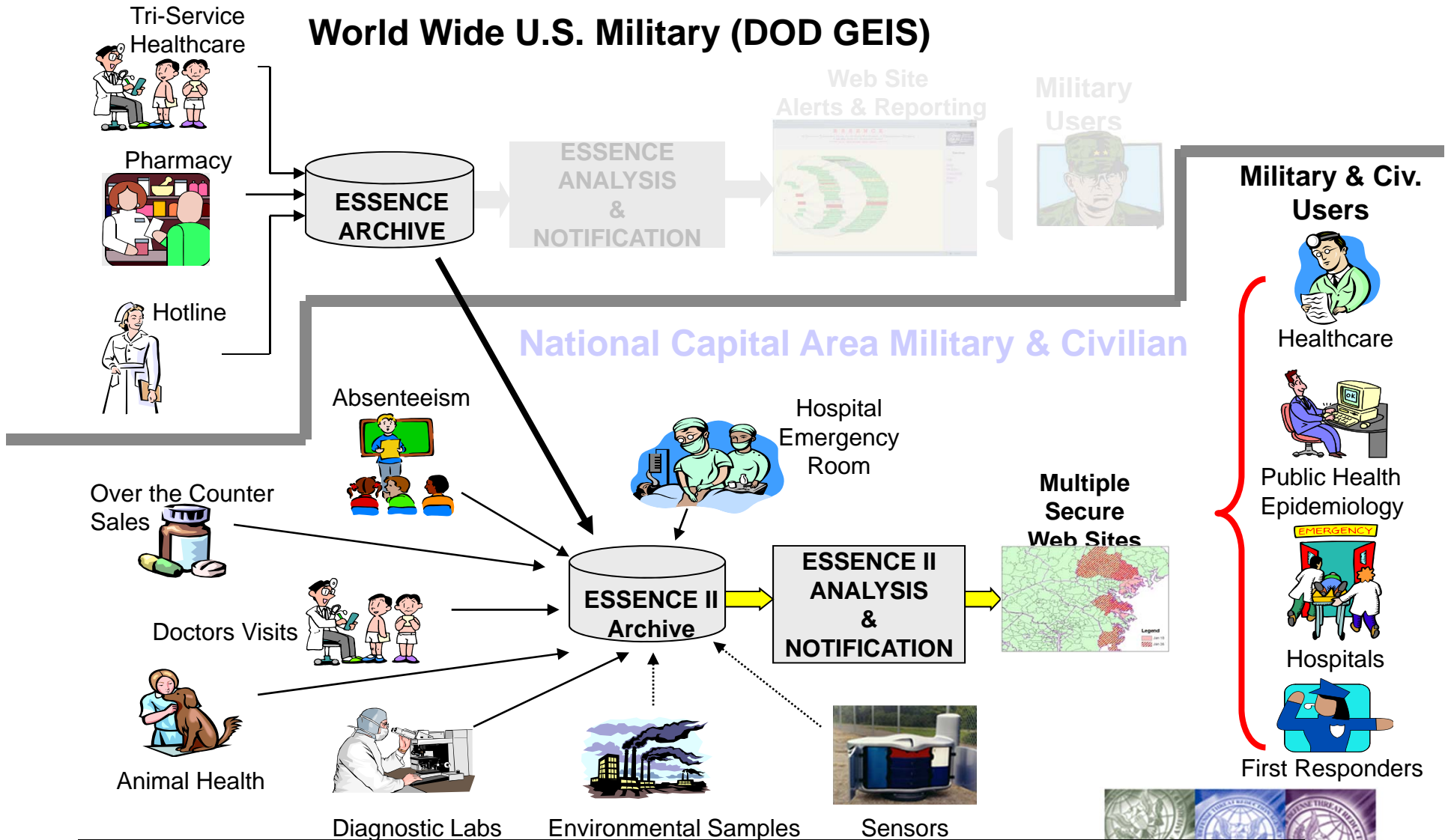
- Provide Medical Surveillance component of an integrated BioDefense capability at JSIPP sites .... with minimal long-term sustainment costs

## *What is ESSENCE?*

- **E**lectronic
- **S**urveillance
- **S**ystem for the
- **E**arly
- **N**otification of
- **C**ommunity-based
- **E**pidemics
- **Uses existing data submitted by military treatment facilities (MTF) to the Ambulatory Data System**
  - December 1999: National Capital Area (NCA)
  - September 2001: All permanent MTFs
- **Syndrome groups based on ICD-9-CM codes**
  - Respiratory, Gastrointestinal, Neurological, etc
- **Information available via secure website**



# ESSENCE I and ESSENCE II

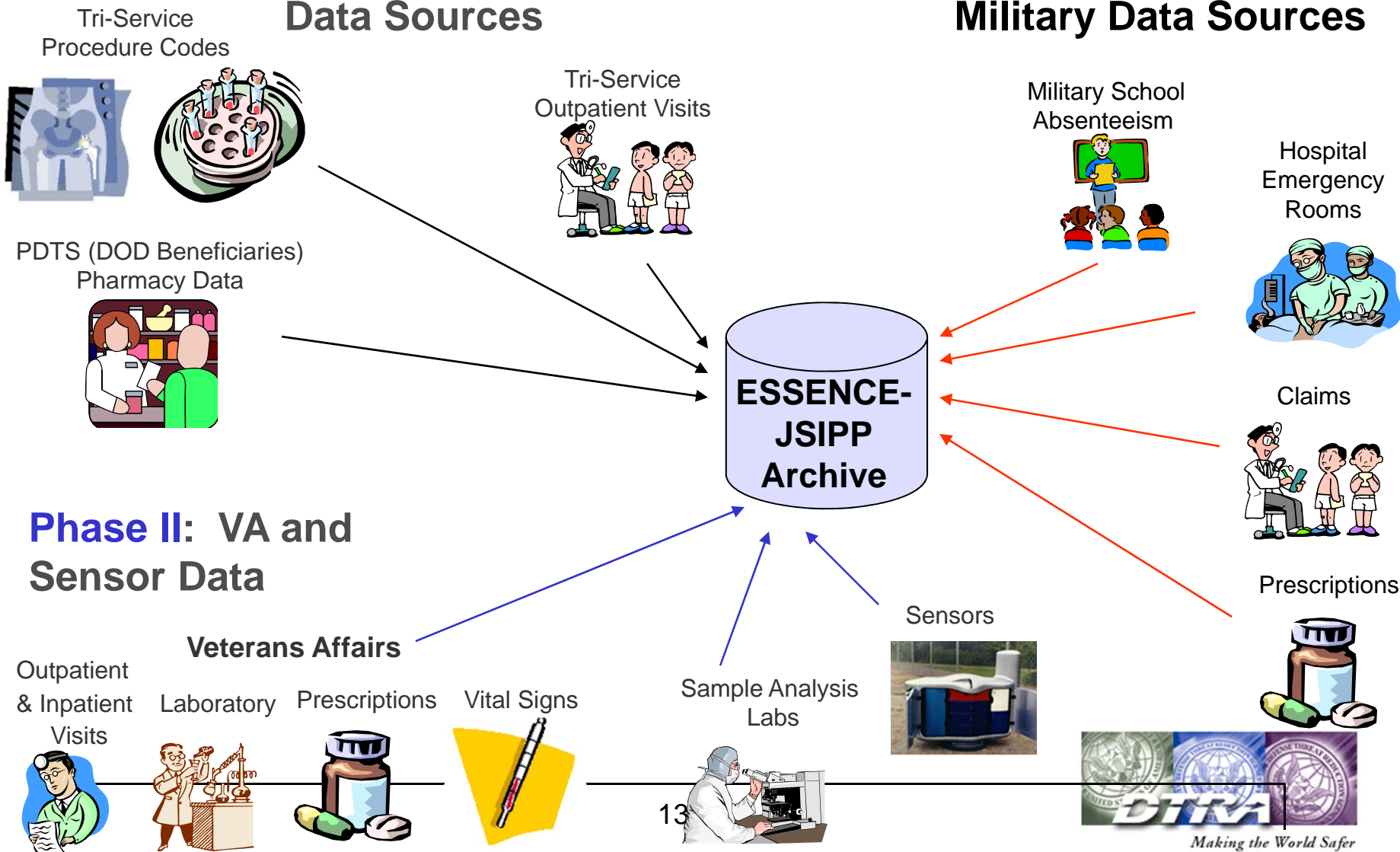




# Phased Incorporation of ESSENCE Data Sources

## Phase I: Military Data Sources

## Phase III: Civilian & Military Data Sources



## *JSIPP FY 03 Goals*

- **Provide “quick-look” data for POM submission based on initial JSIPP deployments**
  - **Build a POM wedge for Jan-Feb 03 submission- follow up with actual data to support planning efforts**
  - **San Diego NB (North Island), Camp Lejeune and Pope AFB - provide initial data**
  - **Remaining six installations provide follow on data**
- **Assist in developing requirements for Installation CBRNE defense and consequence management**
  - **Tiered or uniform approach based on modeling efforts**
  - **Validate the optimized design approach to specific locales**
  - **Integration of other activities into JSIPP (UNWD, BDI, etc)**
  - **Refinements to equipment and CONOPS/TTPs at multiple levels**





# *Questions*



*Making the World Safer*