

DEPARTMENT OF DEFENSE FORENSIC CAPABILITIES



Larry C. Chelko Director U.S. Army Criminal Investigation Laboratory (USACIL)



DOD's FORENSIC CHALLENGE

Traditional:

Criminal Investigations

• New uses are emerging

- Casualty Identifications
- Medical Examiner Functions
- Network Intrusions
- Forensic Expert Testimony
- Repositories
- Research & Development
- Consulting Services

• Forensic requirements are growing **Emerging/Non-Traditional:** Intelligence

- Counter-Intelligence
- Support to GWOT
- Expeditionary Forensics
- Foreign Language Forensic
- Site Exploitation
- DOD forensic capabilities are stand-alone. There is no integrating or coordinating how • UUU Torensic capapinnes are stand-ating body. • There is no integrating or coordinating body. Support to "significant"
 - investigations
- Education/Training
- Contracting Forensics

Future:

- DOD/Fed Agency Integration
- DOD/Intl Agency Integration
- DOD/Natl Databasing
- Forensics/Biometrics Integration
- Support to WMD
- Technology Transfer
- •Long-Term Evidence Storage
- Nation Building
- Accident Investigations
- **Documents Capability** Accident Reconstruction



- Established by DODIG (CIPO)
- Review and resolution of forensic science issues
- Primarily focused on criminal investigation
- Committee has no regulatory or policy authority



DOD'S FORENSIC CAPABILITIES (TRADITIONAL)

- The DOD possesses one of the most powerful forensics toolsets in the U.S.
 - Nuclear DNA
 - Drug Chemistry
 - Digital Evidence
 - Latent Prints
 - Forensic Pathology
- Trace Evidence
- Forensic Documents
- Forensic Odontology
- Forensic Toxicology
- Others

- Firearms & Toolmarks
- Forensic Anthropology
- Mito-DNA
- Forensic Databases
- DOD's enduring forensic capability exists in the institutional forensic laboratories within DOD & forensic examiners comprise a high-demand/low-density skill set.
- DOD's institutional forensic laboratories were designed, equipped, and manned to provide a specific type of forensic support (traditional missions) to specific functional area (normally criminal investigative, judicial or medical).
- All of DOD's institutional forensic laboratories are nationally accredited.
- Additionally, there are other agencies that can provide unique capabilities to the forensic effort, e.g., NAVEODTECHDIV, TEDAC, BFC, NGIC, research labs, etc.



DOD's FORENSIC ORGANIZATIONS



U.S. Army Criminal Investigation Laboratory (USACIL: Army) Larry C. Chelko Tel (404) 469-7107 Larry.chelko@us.army.mil



Department of Defense Cyber Crime Center (DC3: Air Force) Lt Col Jeff Salyards Tel (410) 981-1181 Jeff.salyards@dc3.mil



Armed Forces Institute of Pathology (AFIP: Army) LTC Louis N. Finelli Tel (301) 319-0124 Finelli@afip.osd.mil



Joint POW/MIA Accounting Command Central Identification Laboratory (JPAC-CIL: PACOM) Thomas D. Holland, Ph.D. D-ABFA Tel (808) 448-1725 Thomas.Holland@jpac.pacom.mil



DOD Cyber Crime Center

Mission:

• Digital evidence processing and electronic media analysis for criminal law enforcement and DOD counterintelligence.

• Investigations and forensic training to DoD members to ensure info systems are secure from unauthorized use.

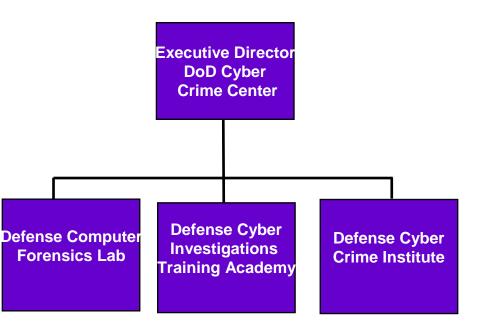
• Research, development, testing and evaluation (RDT&E).

Size: ~20 Mil, ~35 Gov, ~138 Contractors

Location: Lithicum, MD

Affiliation: Air Force







Armed Forces Medical Examiner System

Mission:

- Conduct forensic investigations to determine the cause & manner of death
- Perform forensic toxicology services (including drug testing quality control programs, proficiency testing programs, and consultation services to the DoD for the Military Drug Testing program)
- Perform psychological autopsies in cases of equivocal manner of death
- Perform other forensic services, including epidemiologic analysis of military deaths; and

• Provide consultation and support to other governmental agencies on a reimbursable basis.

<u>Size:</u>

- Forensic Pathologists (13)
- Photographers (6)
- Investigators (4)
- Forensic Anthropologists (2)

Location: Rockville, MD & Dover AFB

Affiliation: Armed Force Institute of Pathology

EA: Surgeon General







Armed Forces DNA Identification Laboratory

Mission:

- Provides human remains identification;
- Provides forensic DNA analytical services;
- Provides bio-informatic analysis and management services;
- Provides mass fatality specimen collection and management services;
- Provides human reference specimen collection, cataloging, archival, and retrieval repository services.
- Supports AFMES & AFIP through consultation, education and research.
- Supports JPAC-CIL in the identification of human remains recovered from personnel missing from previous American armed conflicts.

Size: 1 Mil, ~10 Gov, ~127 Contractors

Location: Rockville, MD

Affiliation: AFME







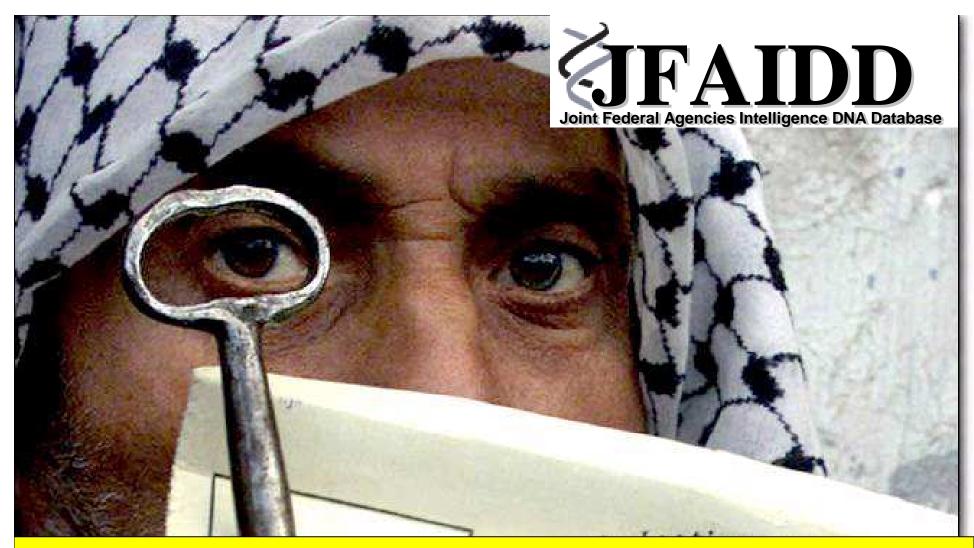
Armed Forces Repository of Specimen Samples for the Identification of Remains (AFRSSIR)

• Repository of 5 million DNA samples, primarily from military service members

Casualty identification







 Searchable database of DNA profiles from detainees and known or suspected terrorists
 Partnership with defense, intelligence, and law enforcement programs



Joint POW/MIA Accounting Command Central Identification Laboratory

Mission:

JPAC

• Achieve the fullest possible accounting of US service personnel missing from past conflicts

- Perform humanitarian missions as directed CIL
- Direct field recovery of human remains
- Conduct laboratory analyses of remains to support identifications
- Provide expert consultation to DOD and other government agencies in the area of human recovery and identification
- Conduct scientific research

<u>Size:</u> 25 forensic anthropologists, 3 forensic odontologists, 8 Life Support Investigators, 10 photographers, and administrative staff

Location: Hawaii

Affiliation: Pacific Command

JPAC-CIL is the largest forensic Anthropology laboratory in the world





U.S. Army Criminal Investigation Laboratory

Mission:

• Provide worldwide forensic laboratory services, training, and R&D to all DOD investigative agencies, in:

- Trace Evidence
- DNA/Serology
 Firearms & Toolmarks
- Latent Prints

Digital Evidence

- Drug Chemistry
- Forensic Documents

• DeFacto Executive Agent for Crime Lab Support to the Military Criminal Investigation Organizations (MCIOs)

• DOD Executive Agent for the Military Convicted Offender Program / DNA Profile Databasing

Size: FY09: 157 Rqmts / 137 Auth

Location: Atlanta, GA

Affiliation: Army



USACIL provides the widest range of services of all of the DOD accredited forensic laboratories



USACIL Services

- **☑** Evidence Examination
- ☑ Crime Scene Support
- **☑** Court Testimony
- **☑** Training
- **Research And Development**
- ☑ Field Investigative Equipment Acquisition
- ☑ Clearing House For Non-traditional Forensic Services
- ✓ Consultation
- ☑ Support To The Warfighter
- ☑ Database Development & Access



USACIL SUPPORT TO THE WARFIGHTER

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Military Criminal Investigative Organizations (MCIO) Forensic Consultant Programs

- Investigators with degrees in Forensic Science
- Provide advice and assistance to investigators
- Review of major cases and triage evidence prior to submission to labs
- Help optimize and standardize evidence collection and submissions
- Help optimize and standardize utilization of laboratory reports and services



DOD Forensics – The Positive

☑ Institutional labs have a broad, robust set of capabilities

☑ Institutional labs "relatively" well resourced

☑ Funding

☑ Staffing

☑ Training

Equipment

All institutional labs nationally accredited
 DOD personnel very active in professional forensic

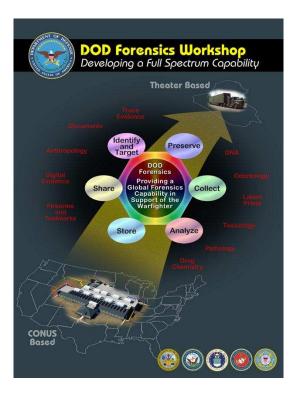
organizations, national certification / accreditation bodies, and

national scientific working groups



DOD Forensics – The Negative

- Ø Not centrally managed, integrated or coordinated
- Ø Not resourced for emerging missions



Currently developing the "Defense Forensic Enterprise System"



QUESTIONS?