



**BIOMETRICS**  
DEPARTMENT OF DEFENSE

# **DoD Biometrics Mission & Roles**

**Presented by  
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Director**

**Department of Defense Biometrics**

**DoD Biometrics Management Office  
DoD Biometrics Fusion Center**

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**[www.biometrics.dod.mil](http://www.biometrics.dod.mil)**



## Outline

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- 1. 19th Century Biometric History**
- 2. 21st Century Biometric Status**
- 3. National Security Needs & Biometric Reality**
- 4. BMO Activities**
- 5. Summary**





## But “Bertillonage” Was No “Silver Bullet”

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### System administration issues

- **Complicated enrollment system**
  - **Highly-trained Bertillon operators, supervisors, and special equipment required for precision**
  - **Deployment difficult in rural, remote regions lacking police resources**
- **No latent capability**
  - **Anthropometrics not left behind at crime scenes**
- **High error rates**



# What are the Advantages of Biometrics?

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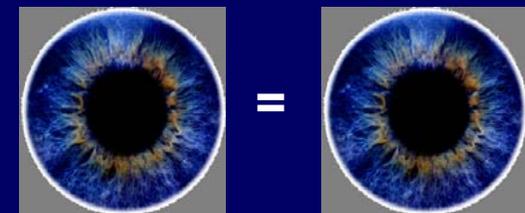
**We have a need to identify people**

- Link identity to person
  - Such that John Doe = John Doe

- Such that



- Such that



- Link past to present
- Link present to future



## Paradigm Shift: The Case for Biometrics

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### Benefits (alleged) of biometrics:

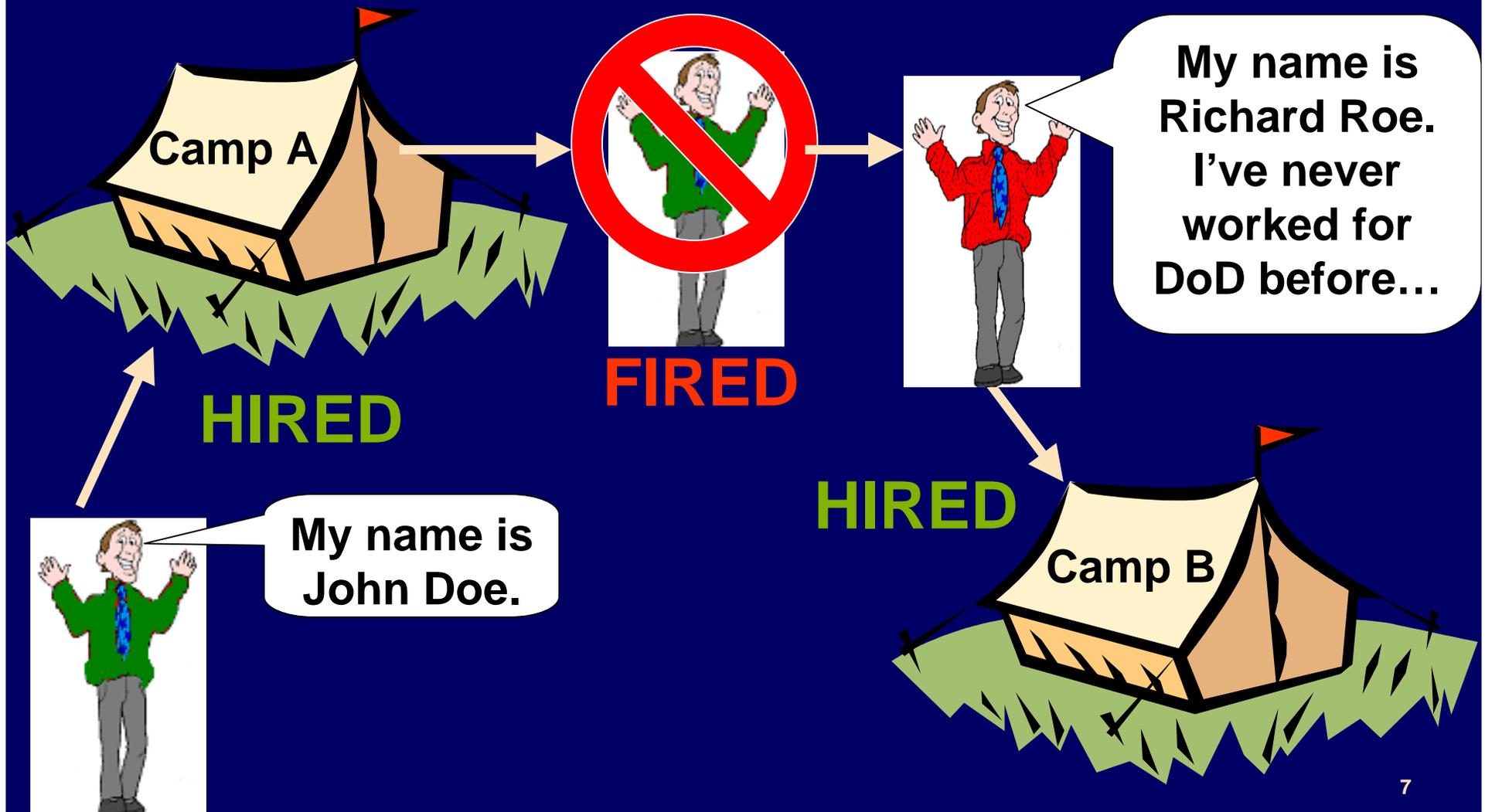
- Increasing security
- Increasing convenience
- Decreasing costs
- Freezing / fixing identity

**New & Needed  
Capability!**



# Example of Problem in a National Security Context

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# The Building Blocks for Biometrics

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**Business Process  
(Track Personnel & Assets)**

**National Security Threats  
(Deter, Prevent)**

**Resource Optimization  
(\$\$\$, Manpower)**

**Drivers**

**Logical Access**

**Physical Access**

**Accountability**

**Applications**

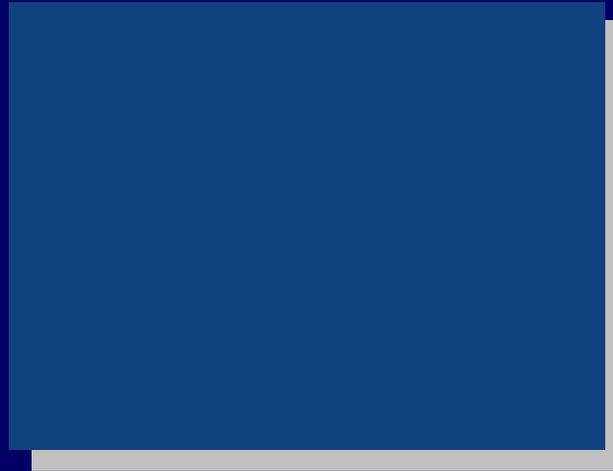
**Identity Authentication  
(Vetting and Fixing Identity)**

**Foundation**



# Hand Geometry at Scott AF Base

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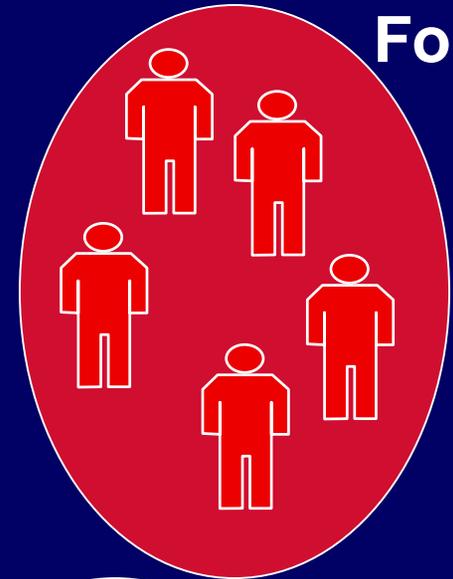




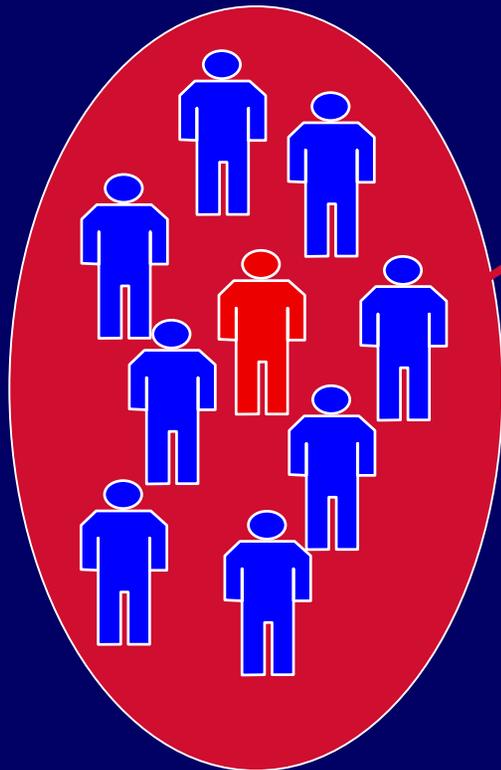
# Identity Management Issues

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**Red  
Force**



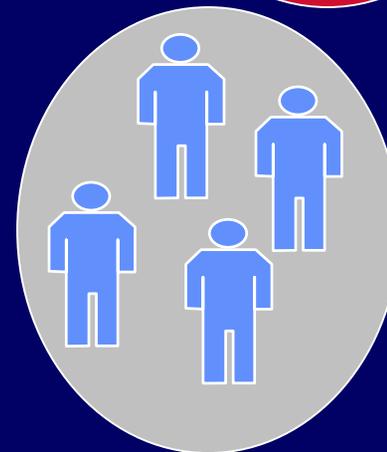
**Logical  
Access**



**Blue Force**



**Physical  
Access**



**Unknowns**



# DoD Biometrics Organization

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## Chain of Command

**ASD (NII)**  
Assistant Secretary of Defense,  
Network & Information  
Integration

**Identity Management  
Senior Coordinating  
Group**



**Secretary of the  
Army**

**CIO/G-6**



**BMO**

**BFC**



*Liaison Personnel  
To Various Organizations*

- ❑ Oversight
- ❑ Planning / Budgeting
- ❑ Policy & Standards Development
- ❑ Acquisition Process
- ❑ DoD Requirements Gathering
- ❑ Public Outreach
- ❑ Liaison with Other Organizations

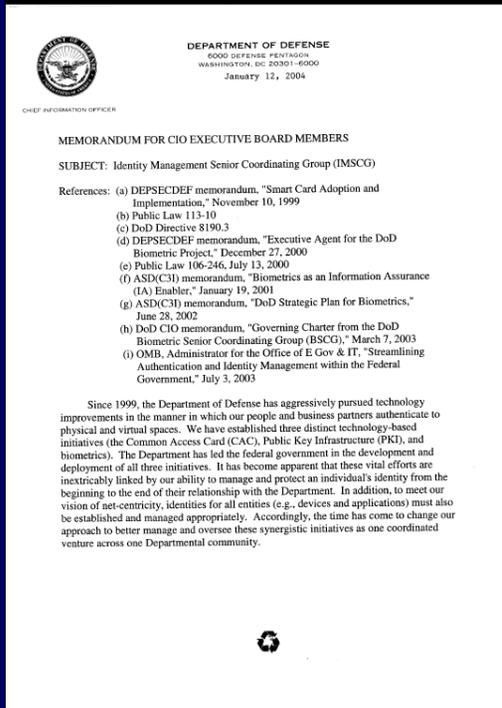
- ❑ Test & Evaluation
- ❑ Biometric Knowledgebase
- ❑ Biometric Product List Development
- ❑ Repository Management, as required
- ❑ Industry/Academia Interface
- ❑ Common Access Card (CAC) Support
- ❑ Technical Expertise



# Identity Management in DoD

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## Mr. David M. Wennergren Department of Navy Chief Information Officer Chairman, IMSCG



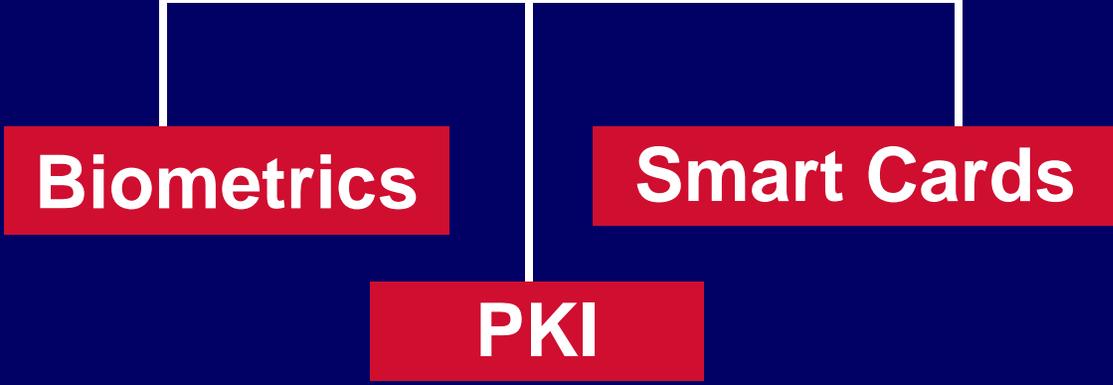
Senior Steering bodies meet our belief in efforts, I CG). This f the ating CIO.

Armed tary of licy, irtual er entities IMSCG shall and ways to ss processes, nformation.

in the DoD id DoD PKI her ups and te and report d with the r (DON CIO)

to serve as chairperson of the IMSCG. Recognize and appreciate the efforts to date and solicit your support and cooperation in transforming the manner in which we view and manage identities within the Department.

*John P. Stenbit*  
John P. Stenbit





## Director's Priorities

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- **Support US efforts in the Global War on Terrorism (GWOT)**
- **Support the warfighter**
- **Promote biometric interoperability in DoD and throughout US Government (USG) with policy and standards**
- **Leverage existing DoD and USG systems**
- **Continue to build the BFC's technical capabilities**



## Completed Initiatives

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- **Support for GWOT and the Warfighter**
  - **2 Feb 2004, DoD CIO Memo, Subject, “DoD Compliance with the Internationally Accepted Standard for Electronic Transmission and Storage of Fingerprint Data from ‘Red Force’ Personnel”**
  - **6 May 2004, BMO Director accompanied the Assistant Secretary of Defense, Homeland Defense (ASD (HD)) to brief the President's Deputy Homeland Security Advisor and the Homeland Security Council Deputies Committee on what DoD is doing to expedite collecting, storing, using, and sharing fingerprint data taken from detainees**
- **Promote biometric interoperability**
  - **25 May 2004 USG Workshop on “Biometric Standards in Support of the Global War on Terrorism” Conference (71 participants representing 28 different USG organizations)**



# Way Ahead: Stress Interoperable Approach

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## Identity authentication-foundation for DoD biometrics

- Red Force biometrics
- Blue Force biometrics
- Priority of the USG & DoD



## Tactical requirements

### Physical access

### Logical access

### Business case articulation

- Increased security
- Increased convenience
- Decreased cost
- The ability to fix or freeze identity



## Way Ahead: Force Protection, Security, Counterterrorism

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**Person**

**Linked to**

**Previous Acts/  
Previous Identities**

- Presumed Good?
  - Presumed Bad?
  - Bad?
    - Terrorist / Criminal?
- 
- Previously detained?
  - Previously arrested in US or other countries?
  - User of alias identities?
  - Fingerprints matched to terrorist crime scenes?

**Bottom-line: Without using biometric data taken to standard:**

- We don't know
- We won't know in the future



## Summary

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- **Biometrics:**  
High Tech Word for Old Concept
- **Biometrics:**  
Enabling Technology for Identity Management
- **National Security Needs:**
  - Freezing & fixing identity: the underappreciated power of biometrics?
  - Can biometrics rise to the challenge?
- **DoD Building Blocks for Biometric Uses**



## Contact Information

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