



# *Office of the Assistant Secretary of Defense for Homeland Defense*

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## ***Biometrics in Support of Homeland Defense***



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# Report Documentation Page

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# Roles and Definitions



**Homeland defense** is the protection of US sovereignty, territory, domestic population, & critical defense infrastructure against external threats and aggression or other threats as directed by the President.

- DoD roles within the United States:
  - Homeland Defense (HD)
    - DoD exercises its core warfighting mission – to defend U.S. territory and interests
    - Missions include: Maritime Interception Operations, Air Patrols over U.S. airspace, Land-based defense of critical infrastructure and assets, and Use of military forces, when directed by the President or Secretary of Defense, to protect the U.S. and territories from attack
    - Threats can be from states or non-state actors
  - Defense Support of Civil Authorities (DSCA)
    - Typical DoD DSCA missions include support to law enforcement, support to the U.S. Coast Guard, wildland firefighting, etc.



# Roles and Definitions



**Homeland security** is a concerted **National** effort to prevent terrorist attacks within the United States, reduce the vulnerability of the US to terrorism, and minimize the damage & assist in the recovery from terrorist attacks.

*National Strategy for Homeland Security*

- The Department of Homeland Security (DHS) is responsible for the homeland security of the United States.
- DHS also has responsibilities beyond the prevention of terrorism, including leading the US Government response to mitigation and recovery of natural disasters, WMD attacks, and other emergencies.
- Other federal agencies, such as the FBI, also have critical roles in combating terrorism (e.g., FBI is responsible for terrorist crisis management in the U.S.)

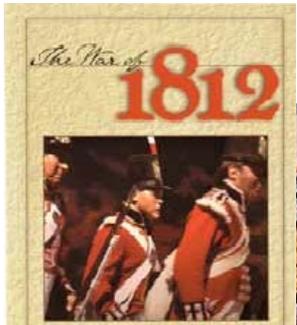


# *Homeland Defense and Civil Support* *Strategic Goal*

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- A modern goal, with important historical roots:

## **Secure the United States from attack**





# *Employing an Active, Layered Defense*

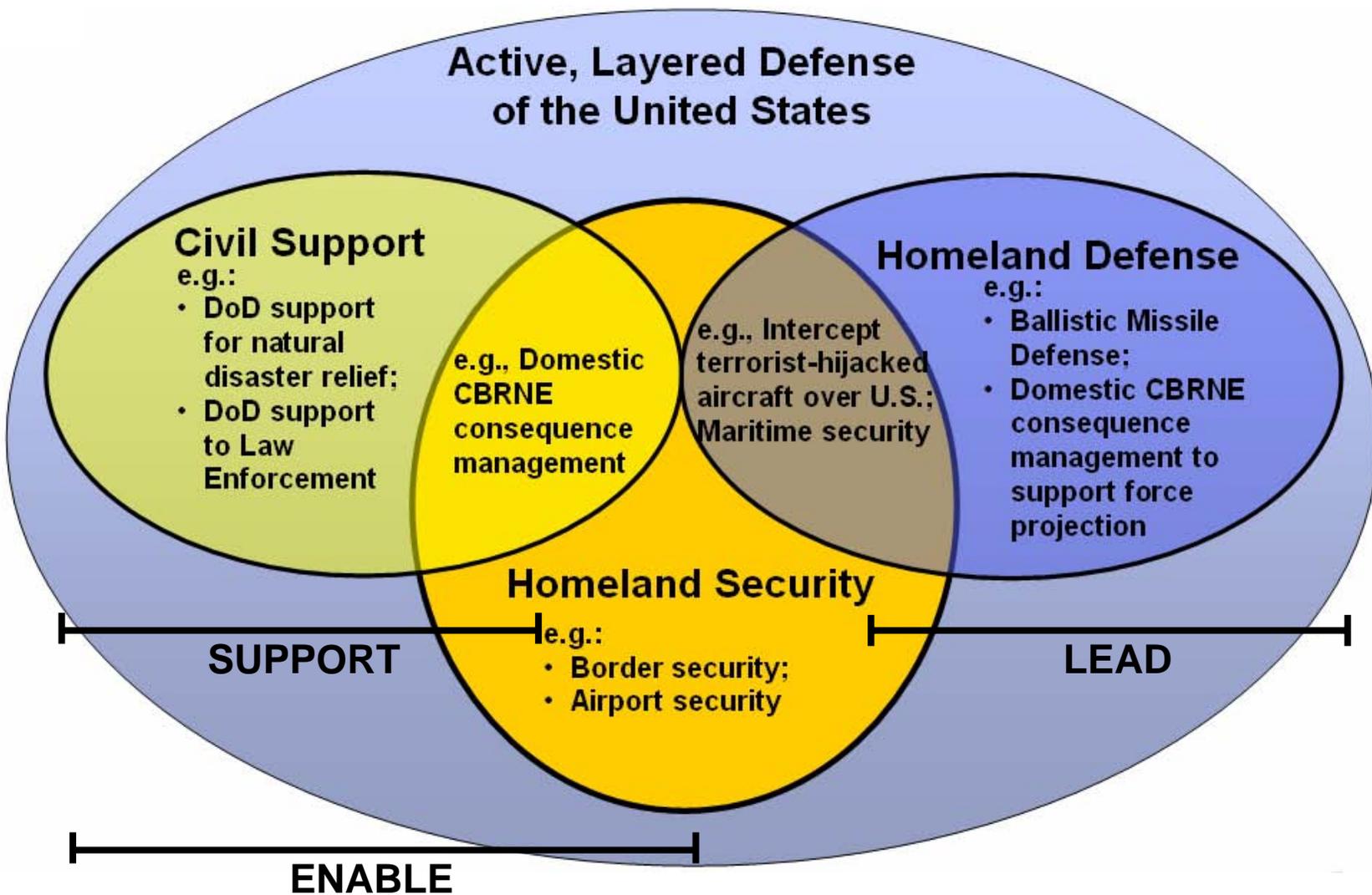
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- **Homeland defense is an integral part of an active, layered defense**
  - The openness of US society creates many points of vulnerability
  - We cannot depend on passive or reactive defenses
    - Instead, we must seize the initiative from adversaries
- **Active, layered defense entails global operations, encompassing activities in:**
  - Forward Regions
  - Approaches
  - U.S. Homeland and territories
  - Global Commons
- **It relies on US asymmetric advantages**
  - Superior intelligence and information sharing
  - Agile forces able to operate across land, sea, air, and cyber domains
  - Close cooperation with US allies and other friendly nations and unity of effort among domestic agencies



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# Homeland Security / Homeland Defense Paradigm





# Strategic Construct

## ***Lead***

Military missions that dissuade, deter, and defeat attacks upon the United States, our population, and our defense critical infrastructure

## ***Support***

Defense support to civil authorities

## ***Enable***

DoD efforts to improve the homeland defense and homeland security contributions of our domestic and international partners



# Strategic Objectives

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<b><i>Lead</i></b>	<b><i>Support</i></b>	<b><i>Enable</i></b>
<p>Achieve maximum awareness of potential threats ----- Deter, intercept, and defeat threats at a safe distance ----- Achieve mission assurance</p>	<p>Support civil authorities in minimizing the damage and recovering from domestic chemical, biological, radiological, nuclear and high-yield explosive mass casualty attacks</p>	<p>Improve national and international capabilities for homeland defense and homeland security</p>



# Strategy Objectives and Capabilities (Ways and Means)

<b>CONSTRUCT</b>	<b>OBJECTIVES (Ways)</b>	<b>CORE CAPABILITIES (Means)</b>
<b>LEAD</b>	Achieve Maximum Awareness of Threats	<ul style="list-style-type: none"> <li>•Maintain agile and capable defense intelligence architecture</li> <li>•Analyze and understand potential threats</li> <li>•Detect, identify, and track emerging threats in all operational domains</li> <li>•Ensure shared situational awareness within DoD and with domestic and foreign partners</li> </ul>
	Deter, Intercept and Defeat Threats at a Safe Distance	<ul style="list-style-type: none"> <li>•Deter adversaries from attacking the US homeland</li> <li>•Intercept and defeat national security threats in the maritime and air approaches and within US territory</li> </ul>
	Provide Mission Assurance	<ul style="list-style-type: none"> <li>•Prepare DoD installations, especially against the threat of CBRNE attacks</li> <li>•Ensure DoD crisis management and continuity preparedness</li> <li>•Prepare and protect defense critical infrastructure</li> <li>•Ensure preparedness of the Defense Industrial Base</li> <li>•Prepare to protect designated national critical infrastructure</li> </ul>
<b>SUPPORT</b>	Support Consequence Management for CBRNE Mass Casualty Attacks	<ul style="list-style-type: none"> <li>•Manage consequences of CBRNE mass casualty attacks</li> </ul>
<b>ENABLE</b>	Improve National and International Capabilities for Homeland Defense and Civil Support	<ul style="list-style-type: none"> <li>•Effective interagency planning and interoperability</li> <li>•Capable federal, state, and local partners and effective domestic relationships</li> <li>•Capable international partners and effective defense-to-defense relationships</li> </ul>



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# *Biometric Functions*

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- Deny/permit physical access
- Deny/permit logical access
- Account for access, denial, & activity
- Detect individual or activity
- Identify individual or activity
- Enroll individual or activity
- Enable:
  - Search & retrieval
  - Linkage to enrolled individual or activity
  - Linkage to other data (e.g., biographical, geospatial, date/time, intelligence, & criminal)
  - Tracking
  - Prediction



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# Biometric Support to Homeland Defense

CONSTRUCT	OBJECTIVES	APPLICABLE SUPPORTING BIOMETRIC FUNCTIONS
LEAD	Achieve Maximum Awareness of Threats	<ul style="list-style-type: none"> <li>•Detect individual or activity</li> <li>•Identify individual or activity</li> <li>•Enroll individual or activity</li> <li>•Enable: search &amp; retrieval; linkage to enrolled individual or activity; linkage to other data; tracking; and prediction</li> </ul>
	Deter, Intercept and Defeat Threats at a Safe Distance	<ul style="list-style-type: none"> <li>•Deny/permit physical or logical access</li> <li>•Detect individual or activity</li> <li>•Identify individual or activity</li> <li>•Enroll individual or activity</li> <li>•Enable: search &amp; retrieval; linkage to enrolled individual or activity; linkage to other data; tracking; and prediction</li> </ul>
	Provide Mission Assurance	<ul style="list-style-type: none"> <li>•Deny/permit physical or logical access</li> <li>•Account for access, denial, &amp; activity</li> <li>•Enable: search &amp; retrieval; linkage to enrolled individual or activity; linkage to other data; and prediction</li> </ul>
SUPPORT	Support Consequence Management for CBRNE Mass Casualty Attacks	<ul style="list-style-type: none"> <li>•Deny/permit physical or logical access</li> <li>•Account for access, denial, &amp; activity</li> <li>•Enable: search &amp; retrieval; linkage to enrolled individual or activity; linkage to other data; and prediction</li> </ul>
ENABLE	Improve National and International Capabilities for Homeland Defense and Civil Support	<ul style="list-style-type: none"> <li>•Deny/permit physical or logical access</li> <li>•Account for access, denial, &amp; activity</li> <li>•Detect individual or activity</li> <li>•Identify individual or activity</li> <li>•Enroll individual or activity</li> <li>•Enable: search &amp; retrieval; linkage to enrolled individual or activity; linkage to other data; tracking; and prediction</li> </ul>



# Key Concerns

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- **Improved capabilities**
  - Remote detection/identification/enrollment
  - Activity/behavior detection/identification/enrollment
  - Reliability
- **Information sharing**
  - Compliance with HSPD-6, HSPD-11, and E.O. 13356
  - Availability of biometric data
- **Biometric standards**
  - Systems interoperability
  - Data interoperability
- **Architecture**
  - Fast, reliable, global access to biometric data
  - Fast, reliable, global access and linkage to other data
  - Ensured data integrity and quality
  - Secure
- **Privacy**
  - Protection of U.S. citizens' privacy in accordance with the law
  - Privacy implications of aggregated data



# *Department of Defense Initiatives*

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- **Advisory Policy Board**
  - Currently being established
  - Will facilitate and coordination policy development and recommendations
- **Automated Biometric Identification System (ABIS)**
  - Built with FBI technologies in FY04
  - Program of record and authoritative database for biometric information on persons of interest
- **Biometric Automated Tool (BAT) Set**
  - Rapid fielding of an Advanced Concept Technology Demonstration in FY04
  - Enables warfighters to collect biometric and personal information on persons of interest
- **Military Entrance Processing Command (MEPCOM)**
  - Biometric capability (fingerprint) to validate recruit identity during all phases on military induction
- **First Responder Passports**
  - Assist Department of Homeland Security in providing secure credentials to first responders to enable access control in a disaster area



# *Conclusion*

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- Our first priority is the security of our nation and its people
- The front line in the Global War on Terrorism is abroad stopping terrorists before they can reach our nation
- Terrorists view our nation as a lucrative part of the battlefield in the Global War on Terrorism
- Defense of our nation is part of an active, layered defense that spans the globe
- The Strategy for Homeland Defense and Civil Support provides a strategic context for the application of biometric capabilities
- Biometric capabilities can play a significant role in the active, layered defense of our nation
- We need your help in developing and applying these capabilities



***Questions?***



# *Hurricane Katrina Operational Highlights*

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## **For 14 Sept. 2005:**

- **68,451 (- 3,810)** Active Duty and National Guard personnel are on the ground or aboard ships supporting relief operations.
  - **18,276 (- 4,163)** Active Duty.
  - 1,895 Reserves (573 Marine Corps, 53 Army, 450 Air Force, 819 Navy)
  - **45,871 (+ 468)** National Guard. (**2,409 (- 115)** outside area ready to assist)
- 19 US Navy ships are in the area.
- Total aviation support in area:
  - **271 (-75)** helicopters (Active Duty and National Guard).
  - **75 (+7)** airplanes (Active Duty and National Guard).
- DoD has provided extensive search and rescue, evacuation, and medical support:
  - **2,911 (+128)** Active Duty sorties flown.
  - **9,313 (+73)** National Guard sorties flown.



# *DoD Support for Hurricane Katrina*

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## **Command and Control**

- U.S. Northern Command Commander is Admiral Keating in Colorado Springs, Colorado.
- Joint Task Force Katrina East (Forward) is located at Camp Shelby, Mississippi – Lieutenant General Honore is on the USS IWO JIMA pier side in New Orleans, Louisiana.
- Joint Task Force Commander for the Louisiana National Guard is Major General Landreneau, at New Orleans.
- Joint Task Force Commander for the Mississippi National Guard is Major General Cross, at Stennis Space Center, Mississippi.



# *Snapshot of DoD Impact*

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## Search and Rescue/Evacuations

- Approximately 80,000 people evacuated
- Approximately 15,000 people rescued

## Medical Aid

- More than 2,500 patients transported by USAF aero medical flights
- 5,800 patients treated by DoD personnel at the Louis Armstrong Airport – 700 in the first 24 hours of the operation.
- 2,037 DoD medical personnel provided aid to the affected population and relief workers.

## Engineering

- More than 1,600 U.S. Army Corps of Engineers (USACE) actively engaged in the recovery efforts.
- USACE assigned \$2.9 billion in missions, which include providing ice and water, temporary roofing and housing, power assessments, dewatering and breach repairs in New Orleans, and debris removal.

## Logistical Support

- USAF has moved over 23,000 passengers and over 10 tons of supplies
- Seven DoD installations provided transportation staging areas for ice, water, food, and medical supplies.
- Delivery of 21 million Meals Ready to Eat (MREs) ordered by FEMA.
- Little Rock AFB, Arkansas, serving as the central collection point for supplies donated by foreign countries – 119 nations and 12 international organizations.



# *The Security Environment*

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- Nation-state threats will continue:
  - “Traditional” ballistic and cruise missile threats
  - Rogue states employing asymmetric means
  - Potential emergence of a regional peer competitor
- Transnational threats will be the most pressing
  - Terrorists will seek to:
    - Attack Americans at home and abroad
    - Attack multiple targets simultaneously
    - Inflict mass casualties or cause mass panic



# *The Security Environment*

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- Transnational threats will be the most pressing (cont):
  - Numerous trends signal continued terrorist threats through the decade:
    - Failed states
    - Proliferation of chemical, biological, radiological, nuclear, and high-explosive (CBRNE) weapons and their means of delivery
    - Success in raising funds through illicit activity (e.g., weapons/drugs)
- High probability of continued attacks, although improved intelligence will help mitigate uncertainty about the form and timing of attacks.