

Tomorrow's Technologies

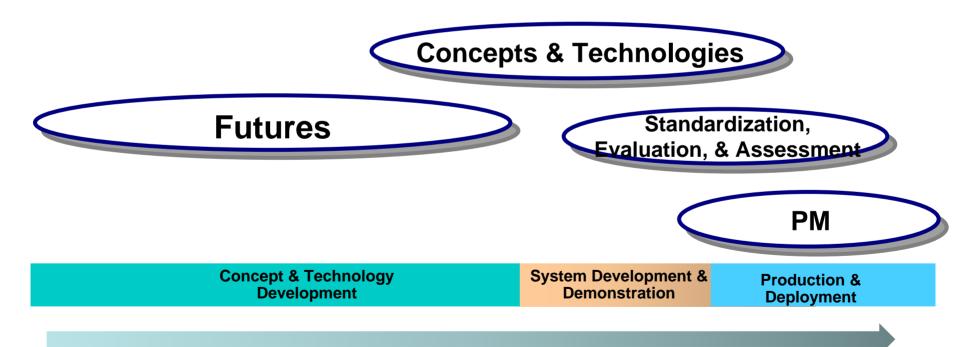
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Purpose

BTF's involvement in developing tomorrow's biometric technologies



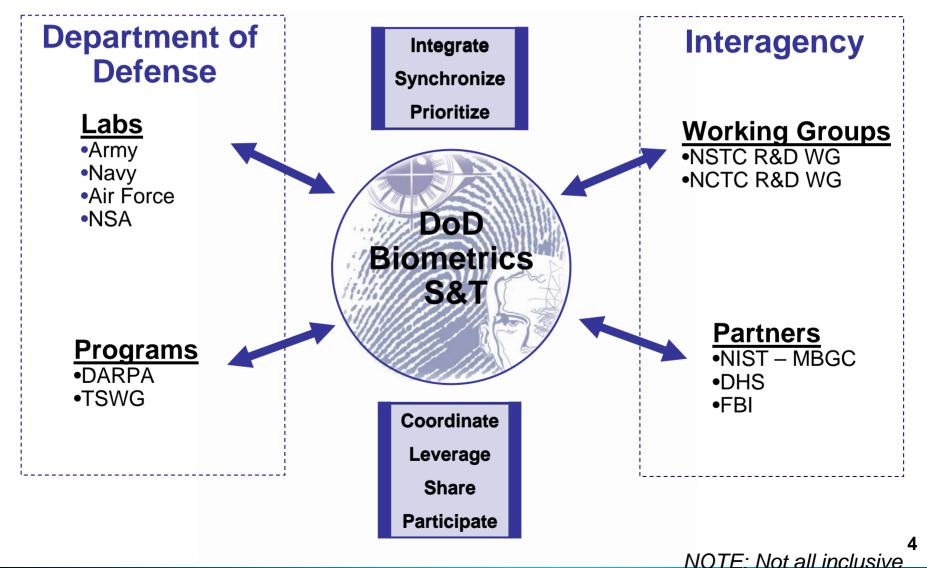
Futures

Identify and guide development and transition of biometric technologies to enhance DoD capabilities

Objectives:

- Coordinate efforts across DoD and share information with other departments and agencies
- Leverage the best technology available from both government and commercial sources to develop capabilities and maintain the advantages that our warfighters need throughout the life of developed systems
- Transition technology into new and current systems with minimal burden to the warfighter

Biometrics S&T Partners





S&T Requirements Generation

Requirements Pull

- Operational Challenges
 - Link to warfighter and user requirements
- Technical Challenges
 - Link to acquisition program
- Technology Push
 - Disruptive Innovation
 - Emerging technologies that are used in new or novel ways
 - Challenge Statements
 - Pushes the limits of what is available today





Leverage mature and experimental technologies to produce new capabilities that address operational requirements

Objectives:

- Interface with government, industry, and academia to develop and assess new biometric capabilities
- Provide technical expertise in support of DoD and other USG biometric technology activities
- Provide education and awareness support as biometrics training is institutionalized throughout DoD



- DoD Biometric Test Database (DBTDB)
 - Multimodal Matching
- Technology Experimentation and Pilots
- Educational Materials
- Remote Examination Services

Current Efforts

Ongoing Support for DoD Biometrics C&T

- Collection Systems
- Sub-Optimal Data Enhancement
- Next Generation Algorithms
- Biometrics Data Fusion
- Biometrics Architecture
- CITeR
- NSF and NIST
- Long-range Iris Research

- Enterprise Level Data Sharing
- New Biometric Modalities
- Cross-Cutting Technologies



Standardization, Evaluation, & Assessment Laboratory

Ensure data integrity and interoperability of biometric-enabled devices and systems for DoD

- Conduct functionality, standards conformance, and integration testing for all biometric-enabled devices and systems exchanging data with the DOD ABIS
- Provide a biometric modeling and simulation capability to support concept exploration and future capabilities experimentation
- Evaluate biometric-enabled information technology products, programs, and services to guide and support research and development, assess readiness for deployment, and monitor performance of systems in the field

Customers

DoD Warfighter/User

 Coordinate biometric efforts with the operational community to identify, prioritize, and synchronize non-materiel solutions to resolve interoperability and supportability issues

DoD Organizations

 Provide reimbursable support to DoD test agencies and acquisition organizations for test and evaluation activities that determine system effectiveness, survivability, and suitability

Industry

 Maintain awareness of the biometric marketplace and evaluate COTS/GOTS products that may be useful to government agencies

So What?

- Futures Branch
 - Understand the requirements sources to anticipate solicitations
- Concepts and Technologies Branch
 - Become familiar with the tools used by DoD and other departments to solicit ideas and advance technology (e.g., BAA, MURI, SBIR, STTR)

SEAL

 Products that interface with the DoD biometrics enterprise infrastructure must be approved by SEAL



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FY07/08 Events

FY 07 PEG Metric P/A GOAL: 22 Completed: 30	FY 08 PEG Metric P/A GOAL: 22
Advanced Vehicle/Driver ID System (AVIDS)	Completed (6)
Biometric Automated Toolset (BAT) V4.0 (SP3, SP4, SP5, SP5 (hot fix))	BAT/HIIDE Latent Matching Capability
BAT Latent Print Capability (ESE)	 Tactical Biometrics Collection and Matching System (TBCMS)
Biometric Identification System for Access (BISA) CMS 1.7.1 (Tier I)	AVIDS
 BISA Tier II 	BISA CMS 1.8
BISA CMS 1.7.2 (Tier I & II)	 BISA Tier II
BISA LSMS 1.8	BISA CMS 1.8.1
Defense Biometric Identification System (DBIDS) SWA Build 2.5 S/W V 2.2	
DBIDS SWA Build 2.5 S/W V 2.5.0.9 (regression effort)	In-Progress (2)
Hand-held Interagency Identity Detection Equipment 4.0 (HIIDE)	Cogent-Blackbird Multi-Modal Handheld Device
 HIIDE 4.0 (regression effort) 	 AVIDS (regression effort)
Expanded Maritime Interception Operations (EMIO) (x2)	
Cross Match MAFIS (x2)	Planned (9)
Retica Algorithm	• BAT SP6
HVI Identification In-theater System	• BAT V5.0
CrossMatch Guardian V1.0	BISA Tier II E2E
USSTRATCOM's NextgenID 9750	 BISA Day Worker
Transaction Manager x5 (LM; BISA; Prototype, Encounter Protection)	• HIIDE 4.0.1
 Biometric Collection and Identification Equipment (BCIE) 	• DBIDS 2.5.1
Integrated Defense Source Registry System (IDSRS)	• SOID
	• TNT 08-2
	 CollabID (USMC)

TASK