

Test and Evaluation in the Department of Homeland Security

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**Homeland
Security**

Science and Technology

Vision

A homeland that is safe, secure, and resilient against terrorism and other hazards, where American interests, aspirations, and way of life can thrive.



Jeh Charles Johnson

Fourth Secretary of Homeland Security

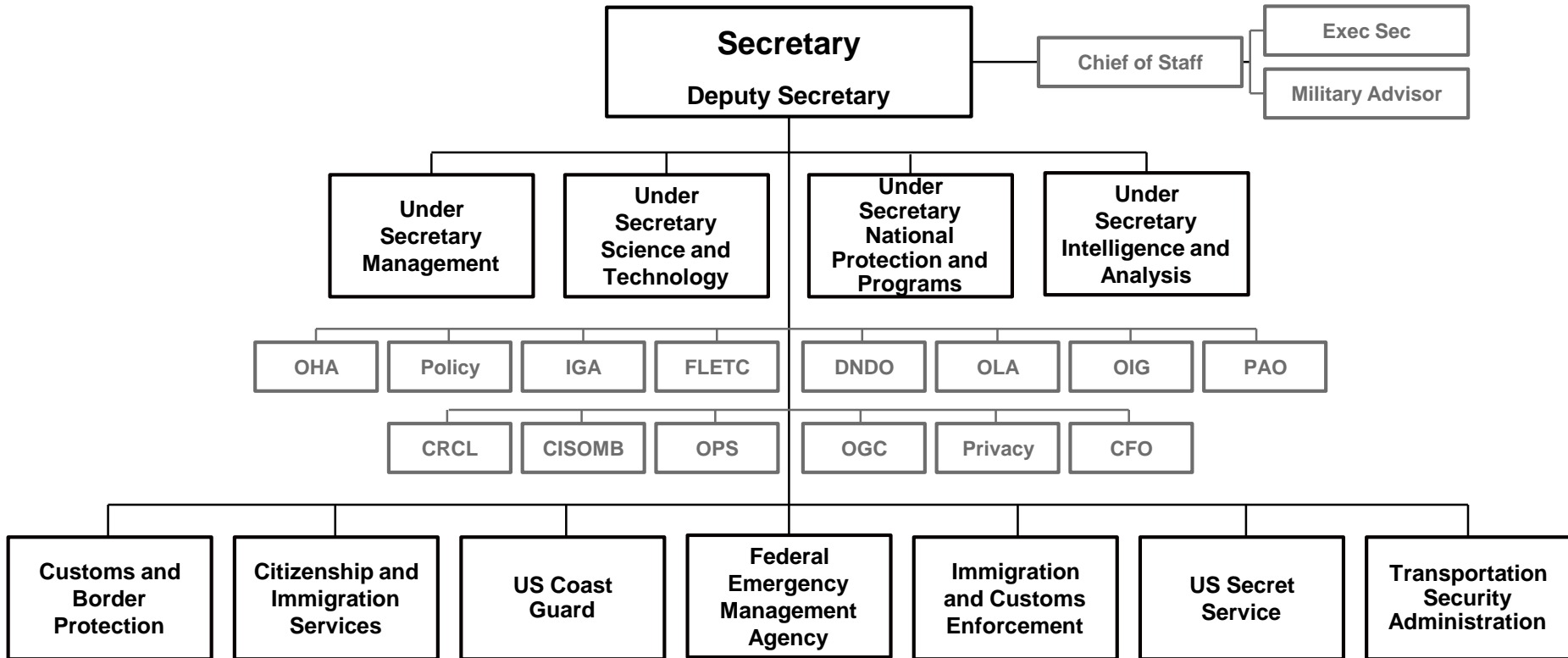
Mission

The 2014 Quadrennial
Homeland Security Review



- Prevent Terrorism and Enhance Security
- Secure and Manage Our Borders
- Enforce and Administer Our Immigration Laws
- Safeguard and Secure Cyberspace
- Strengthen National Preparedness and Resilience

Organization





Homeland
Security

Science and Technology

The Operating Components



United States Coast Guard
U.S. Department of Homeland Security



**U.S. Customs and
Border Protection**

The Operating Components

Federal Emergency Management Agency



Immigration and Customs Enforcement

Transportation Security Administration



The Operating Components



US Secret Service



Citizenship and
Immigration Services

S&T Initiative: Visionary Goals

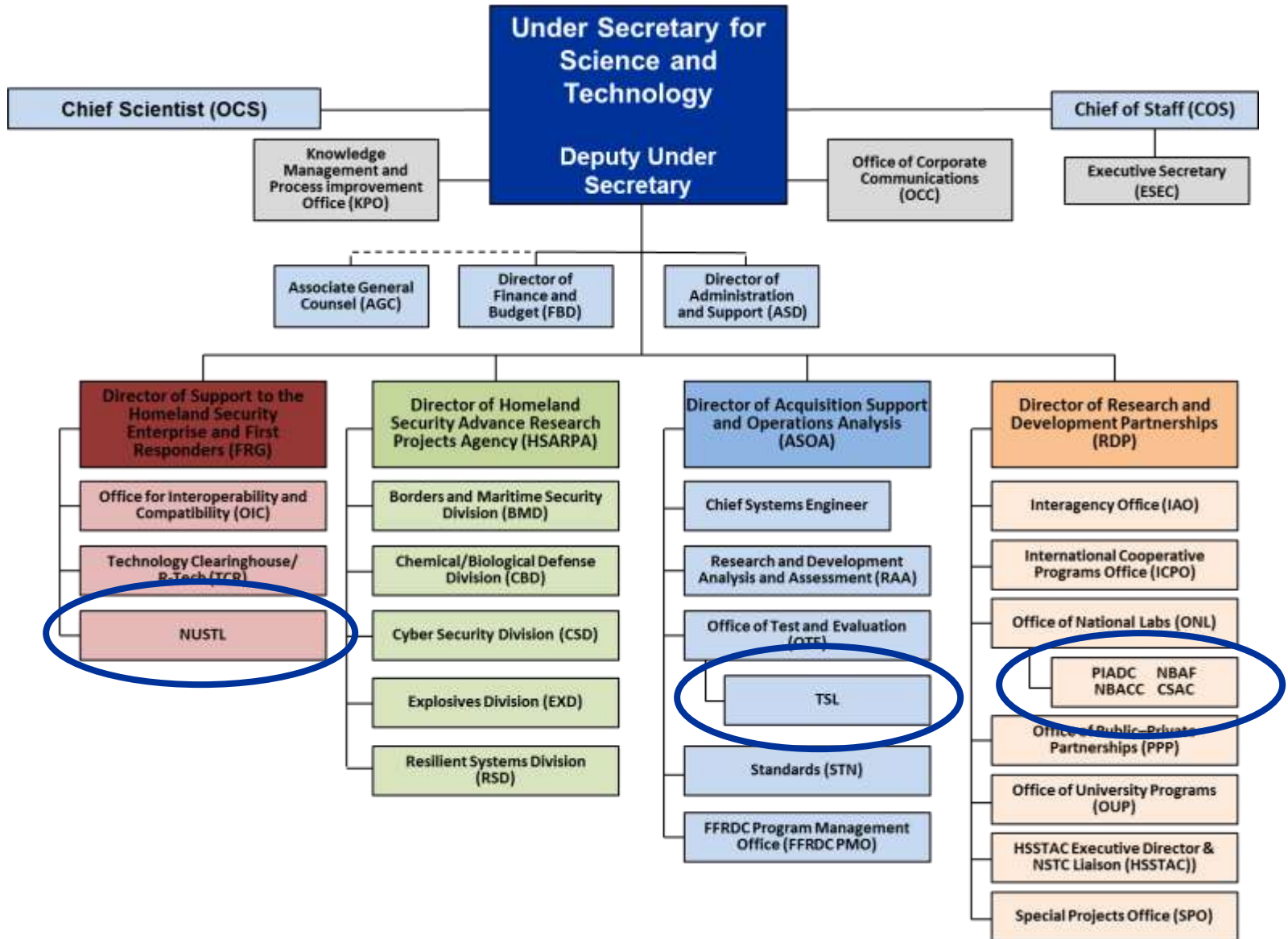


Dr. Reginald Brothers
Under Secretary

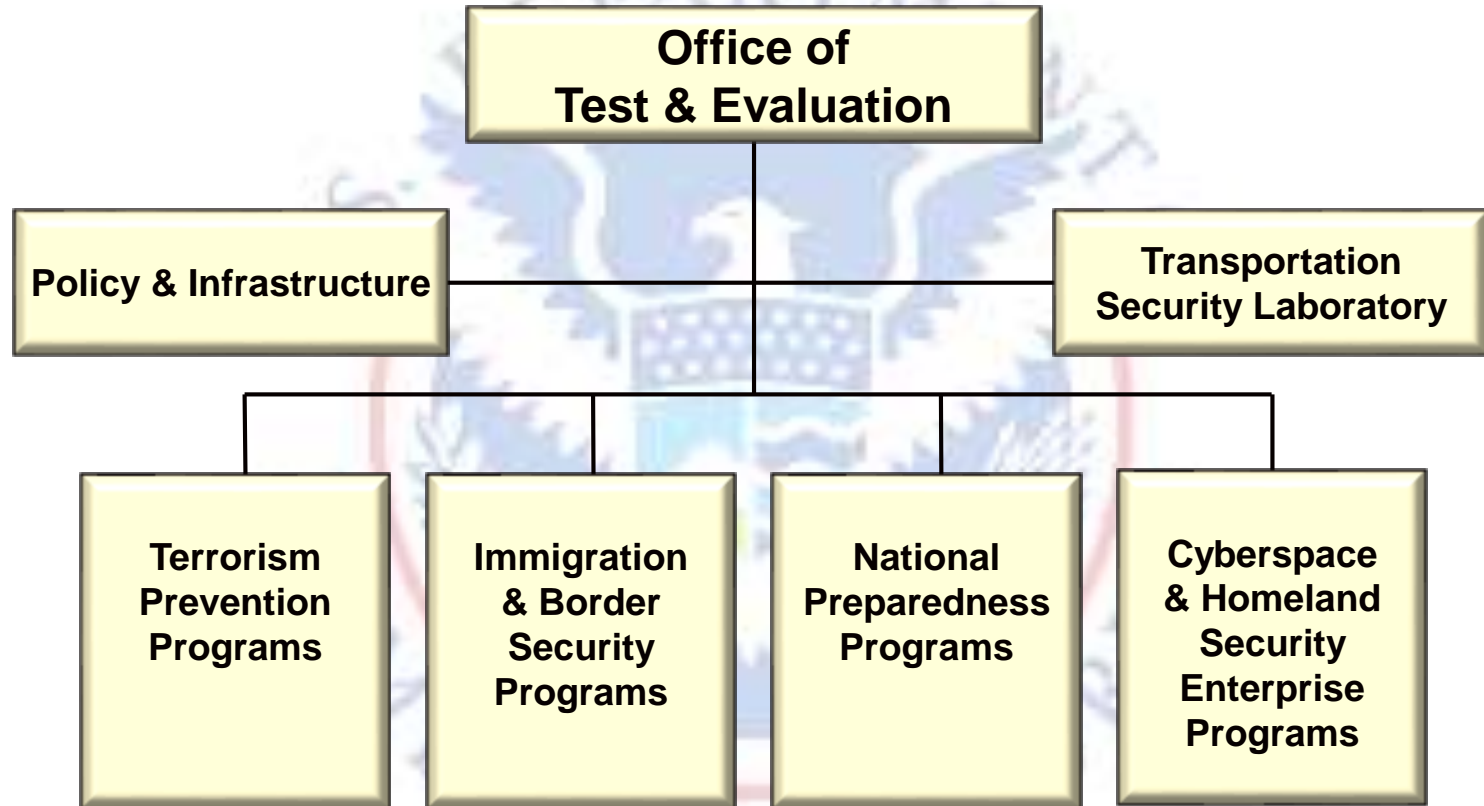
- Screening At Speed: Matching the Pace of Life
- A Trusted Cyber Future: Protecting Privacy, Commerce, & Community
- Enable the Decision Maker: Providing Actionable Information Ahead of Incident Speed
- Responder of the Future: Protected, Connected, & Fully Aware



Science and Technology



DHS Office of Test & Evaluation



T&E Policy

Department of Homeland Security
DHS Directive System
Directive Number: 026-06
Revision Number: 00
Issue Date: May 22, 2006
TEST AND EVALUATION

I. Purpose

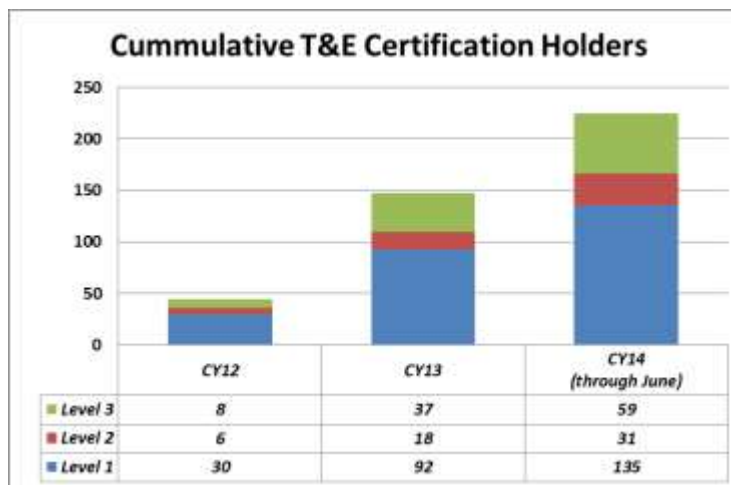
This Directive prescribes implementing policies and procedures and assigns responsibilities for Test and Evaluation (T&E) activities to be performed throughout the system acquisition process.

II. Scope

This Directive applies throughout the Department of Homeland Security (DHS). Additionally, this Directive applies to the research, development and acquisition of all systems and subsystems.

III. Authorities

- A. Title 5, U.S.C., Section 181, "Under Secretary for Science and Technology," and Section 182, "Responsibilities and authorities of the Under Secretary for Science and Technology"
- B. Title 5, U.S.C., Section 188, "Conduct of research, development, demonstration, testing and evaluation"
- C. Title 5, United States Code (U.S.C.), Section 341, "Under Secretary for Management"
- D. DHS Delegation 10001, "Delegation to the Under Secretary for Science and Technology"
- E. DHS Directive 102-01, "Acquisition Management"
- F. DHS Management Directive 10100, "Organization of the Office of the Under Secretary for Science and Technology"



Acquisition Workforce T&E Competency

T&E Center of Excellence



http://coe.dhs.gov/TE_COE/SitePages/TE_Home.aspx

Terrorism Prevention Programs



Advanced Imaging



Radiation Detection



Explosives Detection



Biodetection

Immigration and Border Security Programs

ELectronic Immigration System (ELIS)



Tactical Communications Modernization (TACCOM)

Integrated Fixed Tower (IFT)



Automated Commercial Environment (ACE)

National Preparedness Programs

National Security Cutter



HC-144A



Fast Response Cutter

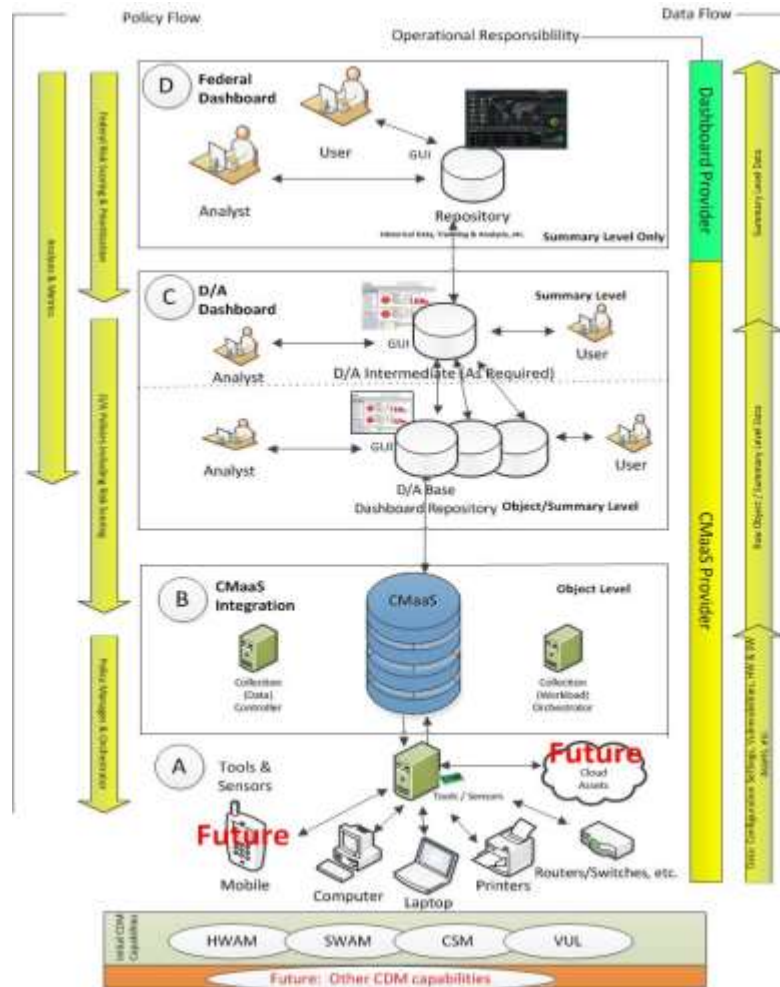
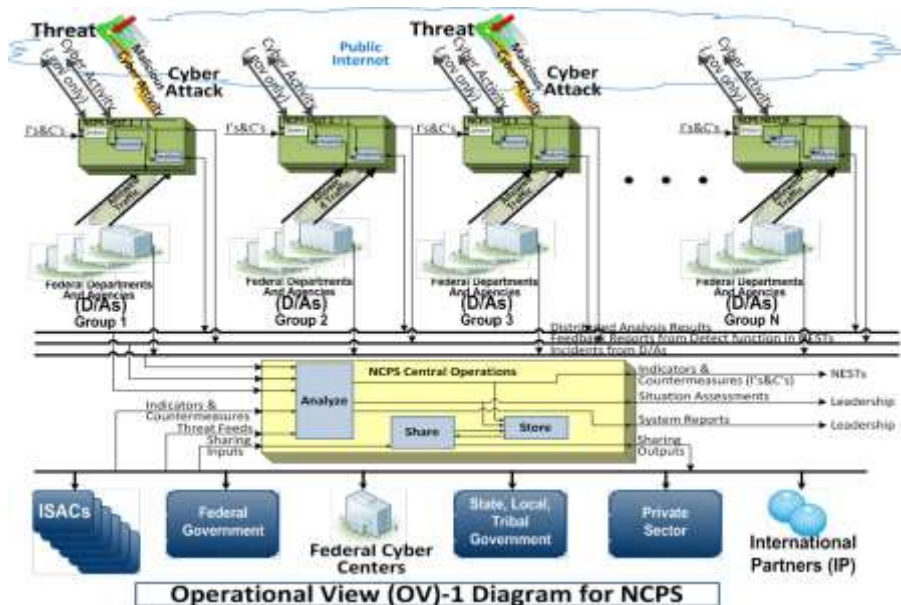


Offshore Response Cutter



Cyberspace and Homeland Security Enterprise Programs

National Cybersecurity Protection System (NCPS)



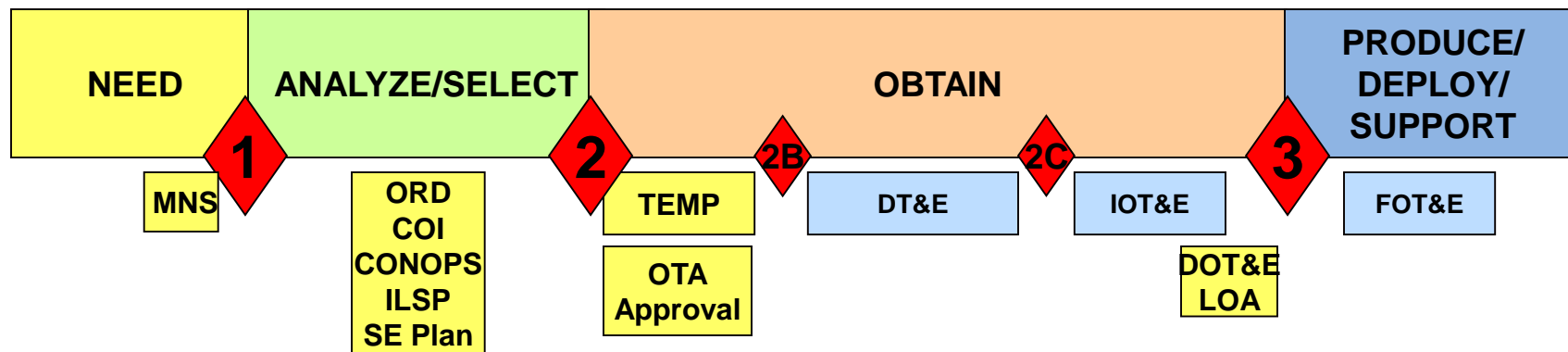
Continuous Diagnostics Monitoring (CDM)

Transportation Security Laboratory

- Independent Test & Evaluation Provides Certification/Qualification Services In Support of TSA.
- Developmental Test, Evaluation and Assistance
- Expertise In Testing, Explosives Handling, Physics and Chemistry of Detection, and Blast Mitigation
- Rapid Response Team Capabilities
- Extensive Explosive Inventory and Specialized Facilities



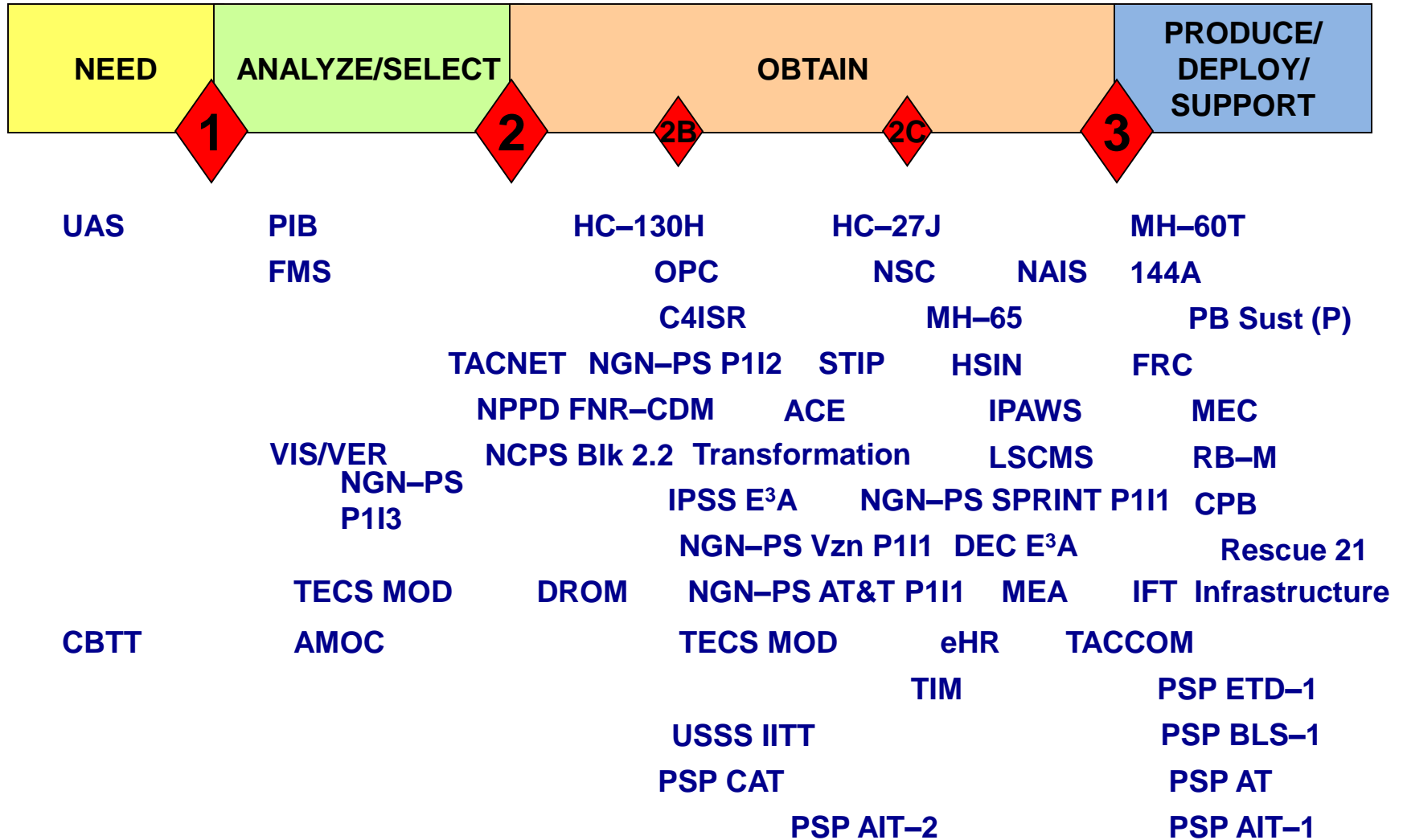
DHS Acquisition Lifecycle Framework



- 3 Program Levels
 - Level 1: > \$1B
 - Level 2: \$300M - \$1B
 - Level 3: <\$300M
- Master Acquisition Oversight List
 - 112 Programs
 - › 72 Major (Level 1 or 2)
 - › 40 Component (Level 3)
 - 2/3 Information Technology

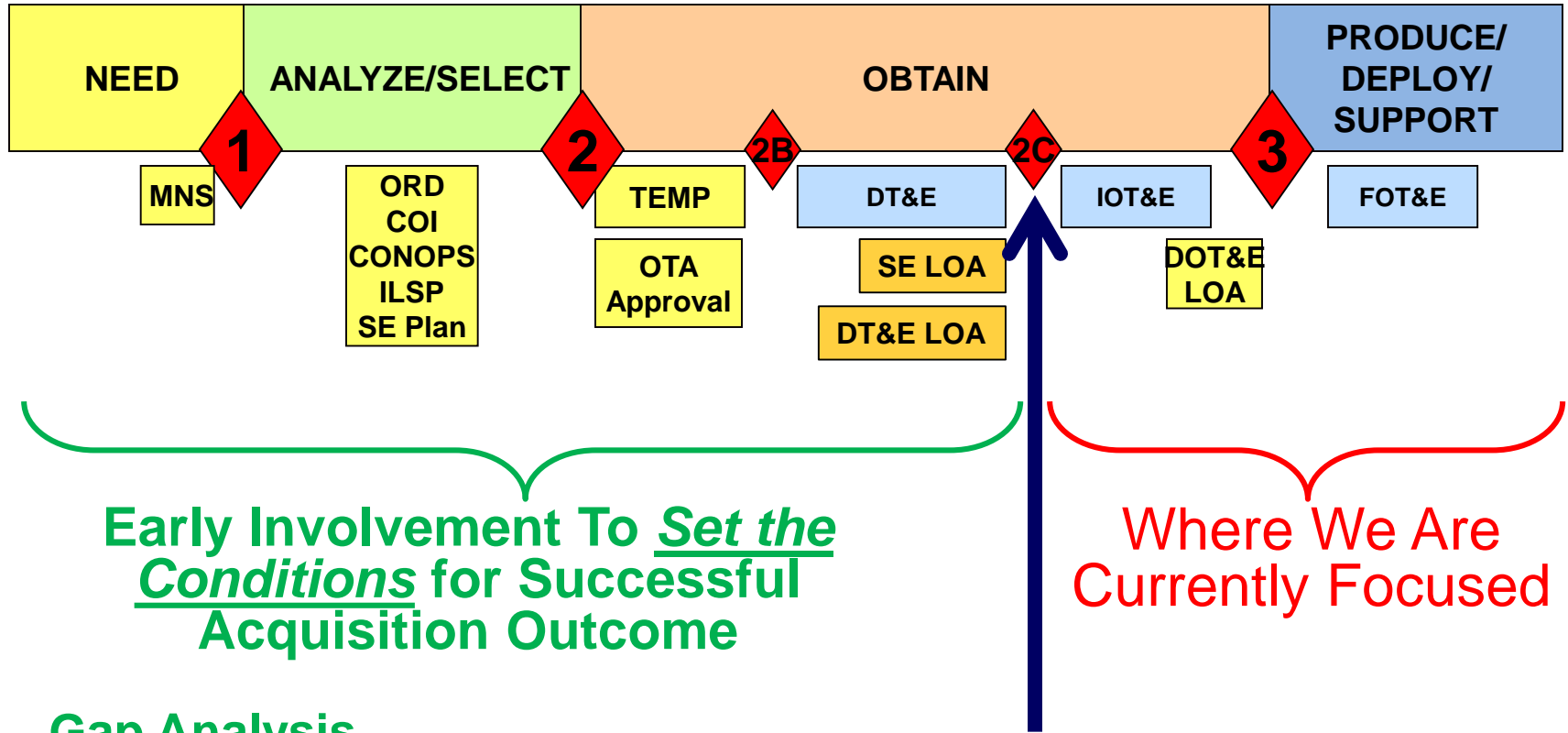


DHS Programs





Shift Left!



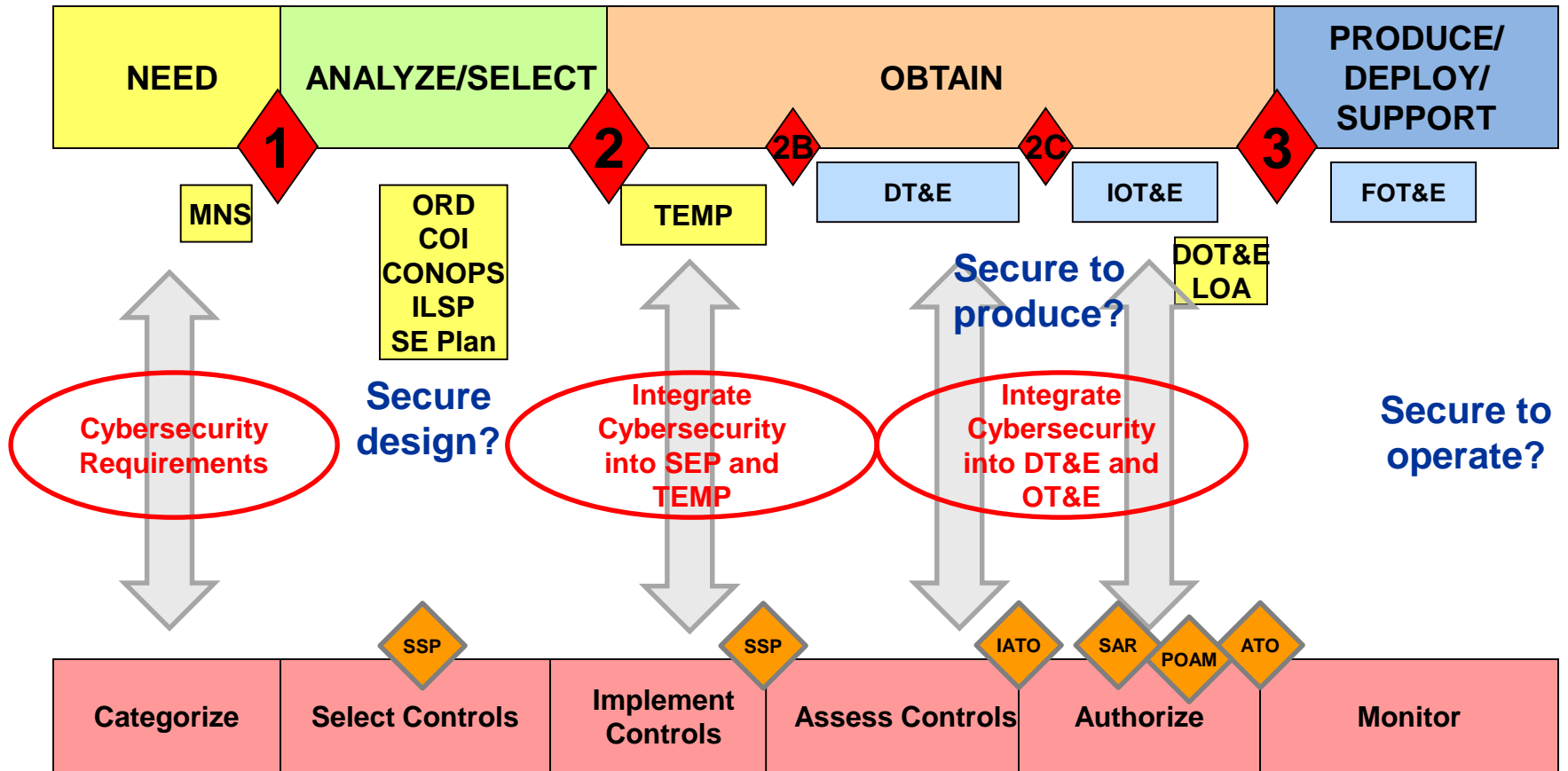
Early Involvement To Set the Conditions for Successful Acquisition Outcome

Where We Are Currently Focused

Most Important Decision in Acquisition Lifecycle

- Gap Analysis
- Requirements Engineering
- Standards Compliance
- Systems Engineering
- Developmental T&E
- Transition Planning

Cybersecurity-Informed Acquisition Decisions



Risk Management Framework

- *Shift Left!*
- Cybersecurity T&E
- Smart TEMP
- Support and Strengthen DHS Component T&E efforts
- Improve Support to Acquisition Programs and R&D efforts
- Enhance Training and Infrastructure



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