





2010 Strategic Plan for DoD T&E Resources

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Discussion



- National Defense Authorization Act
- Strategic Plan Law and Guidance
- Strategic Plan Purpose
- Products and Effects of the Strategic Plan
- Strategic Plan Systems Engineering Requirements Traceability Process
- Strategic Plan Systems Engineering Approach
- Systems Engineering Approach Example –
 Space
- Domains and Focus Areas
- Questions



National Defense Authorization Act

(FY2003) (Public Law 107-314)





Established TRMC

- DoD Field Activity
- Direct Report to USD(AT&L)



Oversee **T&E Budgets**

Major Range & Test Facility Base (MRTFB); Other T&E Facilities Within & Outside DoD

Biennial 10-Year Strategic Plan for DoD T&E Resources

Administer Centrally-Funded T&E **Investment Programs CTEIP** T&E/S&T

Annual T&E Budget Certification Military Departments & Defense Agencies



Strategic Plan Law and Guidance





U.S. Code Title 10, Section 196 (d)

"...The strategic plan shall be based on a comprehensive review of the test and evaluation requirements of the Department and the adequacy of the test and evaluation facilities and resources of the Department to meet those requirements...."

DoDD 5105.71

"6.2.2.2. The strategic plan shall be based on a comprehensive review of the Department's T&E requirements..."



Strategic Plan for DoD T&E Resources





- Ensure adequate T&E capability and capacity with optimum effectiveness and efficiency to support the testing of future warfighting capabilities
- Assess T&E Resources from DoD T&E, non-DoD Government, Commercial, Academia, and International
- Include requisite Workforce, Infrastructure, and Funding resulting in a T&E Capability, by means of the T&E Processes

NOTE: 2010 Strategic Plan awaiting signature by USD(AT&L) on September 15, 2010



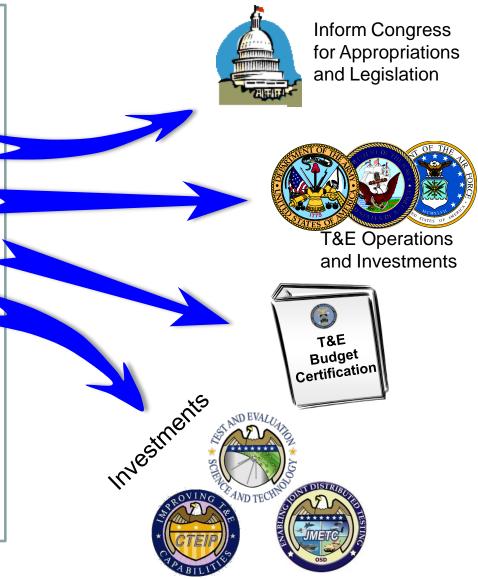
Products and Effects of the Strategic Plan



Strategic Plan



- T&E Requirements
- Performance Measures
- T&E Facility and Resource needs
- Investment needs
- Budgetary Resource needs





Strategic Plan Traceability Comprehensive Systems Engineering Review Process



Presidential Guidance, COCOM Needs, DoD Strategies

Capabilities/Requirements

Rapid/Long Term Acquisitions address Warfighter Capabilities

Test Requirements



Funding

Test Infrastructure Test Workforce

- Investments
- Modernization
- Divestments
- Sustainment
- Operations

Major Range and Test Facility Base

All Other T&E Infrastructure

T&E Capability Needs

Strategic Plan provides a comprehensive and traceable review of T&E requirements as they affect T&E resources, including funding, infrastructure, and workforce.



Strategic Plan Systems Engineering Approach



Institutionalize approach establishing a standard to link:

Warfighter requirement needs → testing → back to mission capability



Stakeholder & Interests

OSD, Executive, DIA, S&T

What are the emerging trends and threats? AT&L, COCOMs

What are the capability requirements and warfighter needs?

DT&E, DOT&E, Experts

What tests are needed given likely missions and future demands?

SE, MDAP, T&E Users

What resources and facilities are required to facilitate T&E?

Services, OMB, CAPE, Congress

What investments are being made to fulfill resource demands?

Global Context & Challenges

Threats & Trends
Strategic Objectives
Complex Operating
Environments

Warfighter Missions / Needs

Technology Development (ACTD) Acquisition T&E Capability Requirements

Current (available)
vs. Future Need
(for current
acquisition
programs and future
warfighter needs)

T&E Resource Enablers

Funding Infrastructure Skill sets Processes Programs & Investments

T&E S&T Service POM CTEIP

Systematically Map End-to-End

Partial / illustrative depiction



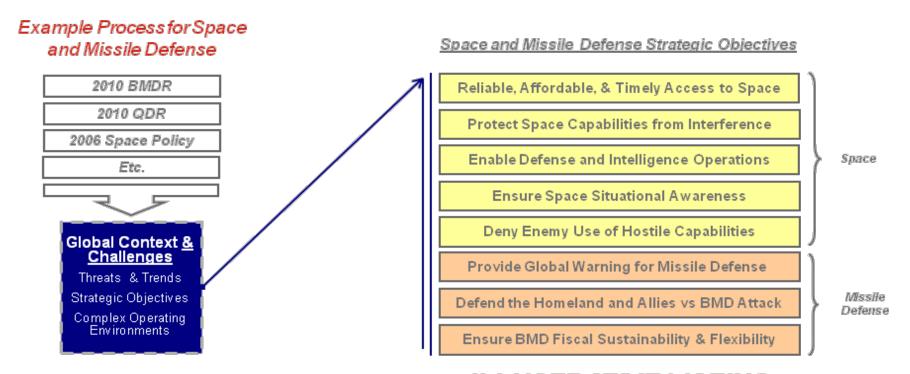


National Strategy to Strategic Objectives Mapping



Step 1: Use national strategic documents to extract, decompose, and communicate major strategic objectives.

Various national strategic documents (DoD, Executive) identify and sometimes prioritize US strategic thrusts, important global trends, and possible threats to national security.



ILLUSTRATIVE LISTING (PARTIAL)

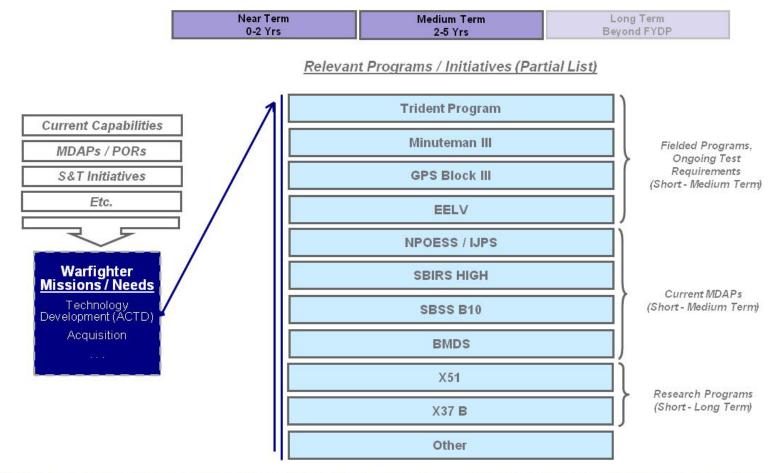




Testing Resource Driver Identification



Step 2: Identify the major drivers (programs, technologies, initiatives, etc) which determine potential required test capabilities, by time period.



Short-term and medium-term priorities will tend to be driven primarily by current programs for some areas





T&E Capability Identification & Mapping



Step 3: Map strategic objectives to warfighter needs/programs to determine T&E capability requirements.

Warfighter missions/needs most likely support at least one strategic objective. T&E capabilities for each need (or program) may be identifiable based on tactical roadmaps, TEMPS, and so forth.







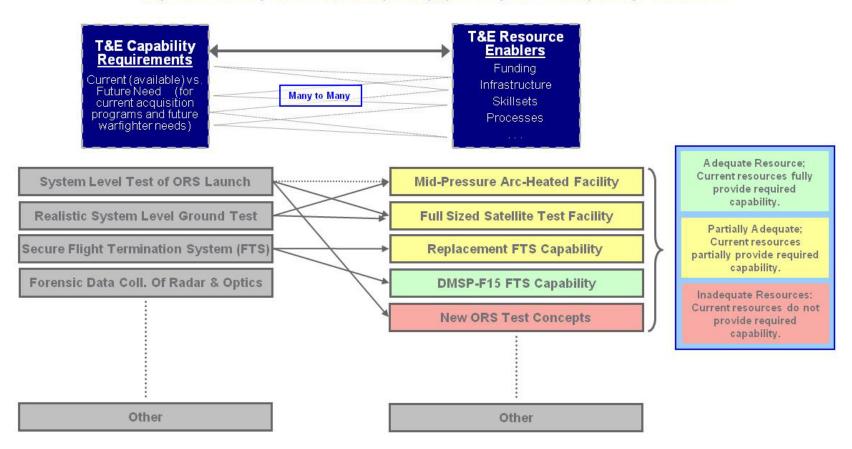
Capability Resource Assessment



Step 4: Identify T&E resources required to completely fulfill the T&E capability requirements. Separate out current and needed capabilities.

Capabilities present resource requirements in terms of infrastructure, processes, and manpower.

Capabilities may either be adequately, partially, or inadequately resourced.



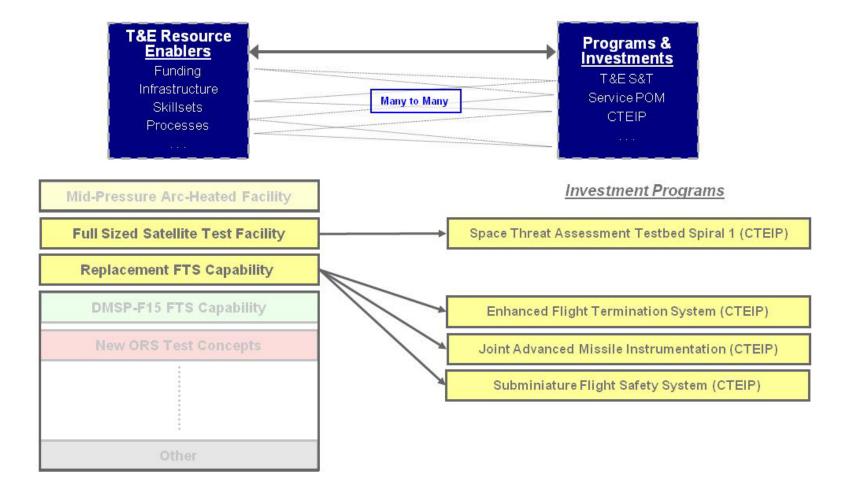




Current Investment Assessment



Step 5: Map T&E Resource needs with relevant investment programs (CTEIP, TE/ST, Services) and the expected availability.

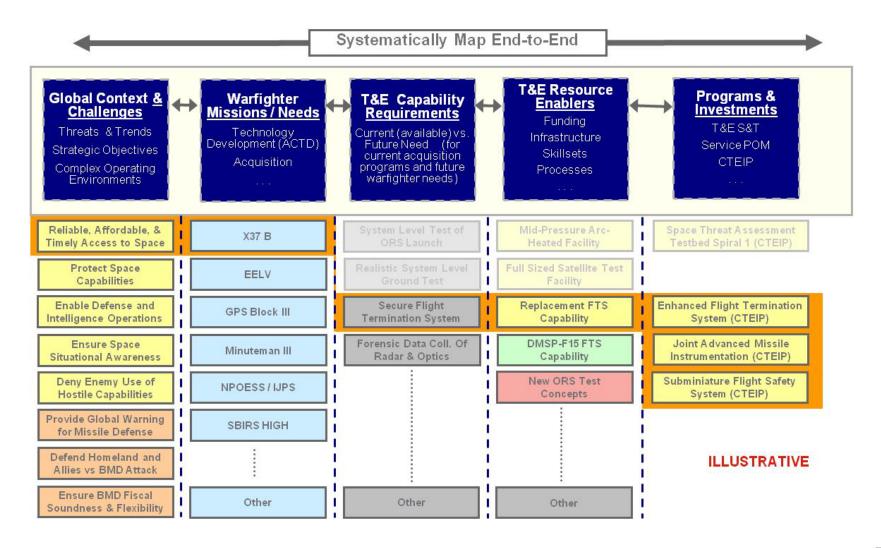




An Integrated Approach



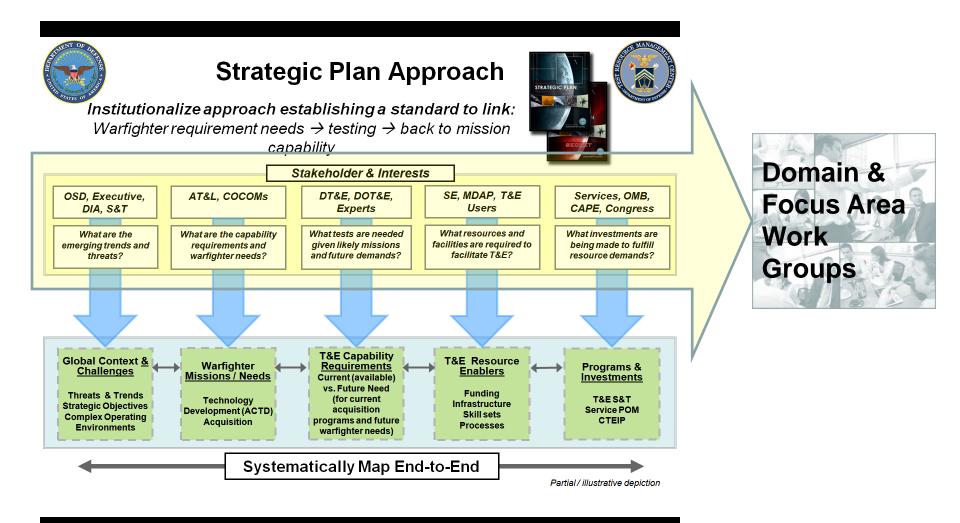
One strategic objective, reliable access to space, provides an example of the disciplined integrated approach.





Formation of Work Groups







Domains and Focus Area Work Groups



- Develop each domain/focus area
 - Collect T&E requirements
 - Assess current T&E capability to support those requirements
 - Identify any known T&E resource gaps
 - Guide review of current capability for certification
- Regularly held meetings
- Led by TRMC Strategic Planning Focus Area POCs
 - Focus areas nominated by Service, Defense Agency, or OSD
 - SP Focus areas determined by February of the odd year
- Comprised of Service SMEs, OSD Agencies (DDR&E, DOT&E, DT&E, DISA, DARPA, etc...), and Academia





Areas of Focus



Strategic Plan Work Areas

- Domains
 - Air, Land, Sea & Cyberspace Combat; Space and Missile Defense
- Focus Areas
 - Artificial Intelligence, Biometrics, Counter-IED, Electronic Combat/Directed Energy, Environments, Hypersonics, Joint Capability Testing, Net-Centric, Nuclear Weapons Effects, Spectrum Management and Stewardship, Targets and Threats, Unmanned and Autonomous Systems

Future Areas

 International, Intelligence, Sensors and Intelligence Surveillance & Reconnaissance, Medical, Science and Technology





Strategic Plan for DoD T&E Resources Questions



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