

## Chapter 1 - Introduction

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prehensive source document for modernization, achieving a fully coordinated effort of all organizations involved. It provides a common direction for air and missile defense (AMD) modernization to meet an uncertain and challenging future. The AMDMP furnishes *a proactive process and a plan that focuses AMD modernization and the AMD strategy to overmatch evolving, worldwide aerial threats*. Implementation of the AMDMP achieves the AMD force that will assist the Army and the joint force in gaining Full Spectrum Dominance.

### **PURPOSE**

This chapter provides an overview of the Air and Missile Defense Master Plan (AMDMP) and introduces the terminology and thought process used in developing the AMD modernization strategy. The AMDMP serves as the single, com-

### **PROCESS**

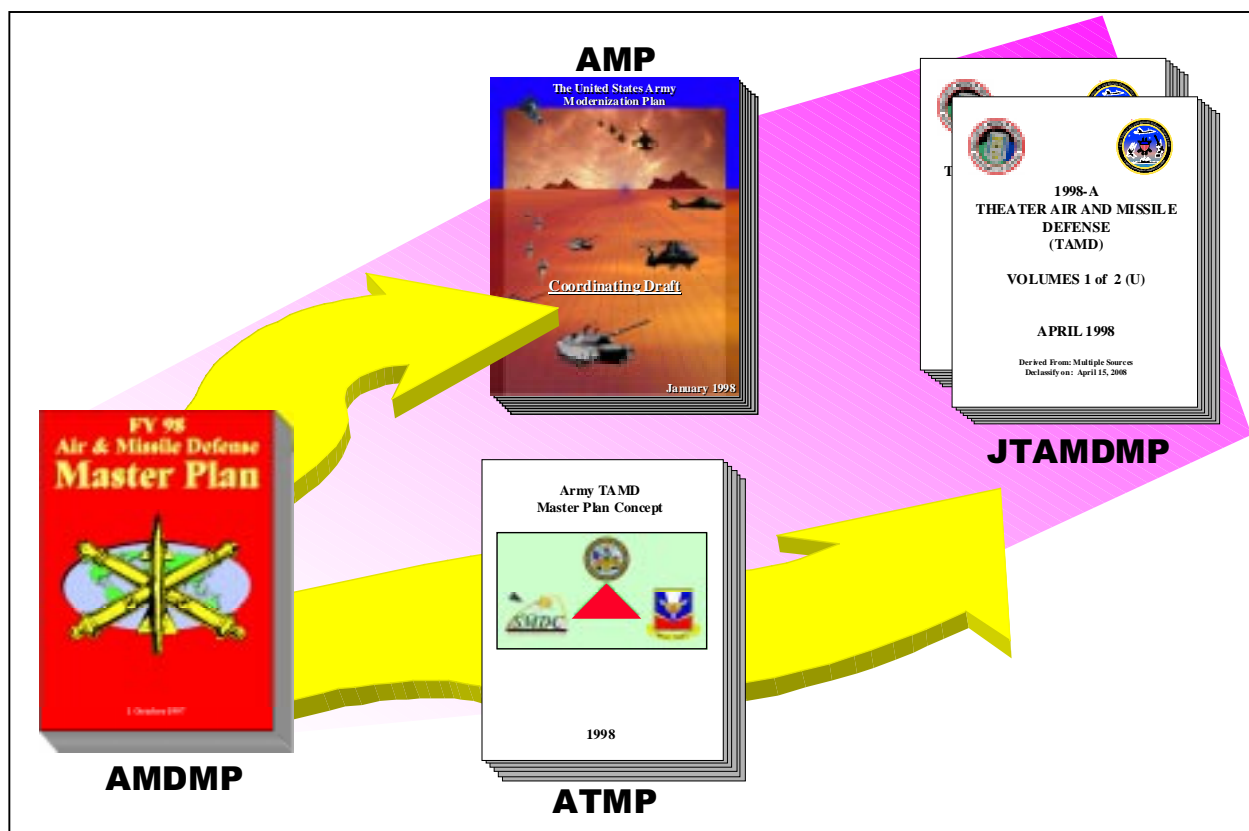
The AMDMP uses a disciplined process to integrate and focus the AMD modernization community's efforts to develop the right materiel for Army Vision 2010 and beyond. A series of meetings throughout the year, at the action officer (working group) and colonel levels (executive committee), allows the organizations responsible for AMD modernization to coordinate information

and develop an evolving modernization strategy, which they then present to the AMD leadership for guidance and approval. The AMDMP documents the AMD modernization decisions.

The AMDMP is a key reference document for other AMD modernization plans. The AMDMP provides source information for the AMD section of the Army Modernization Plan

### **Chapter 1 Key Points**

- AMDMP is the one-source reference document for AMD modernization.
- AMDMP addresses 2000 through 2025 but focuses on FY00, the Budget Year, and FY01-05, the mini-POM.
- Army Vision 2010 is the conceptual focus for the AMDMP.
- AMDMP addresses modernization using the Army investment categories: Information Dominance, Combat Overmatch, Science & Technology/Leap-ahead Capabilities, and Recapitalization.



**Figure 1-1. Modernization Plan Flow**

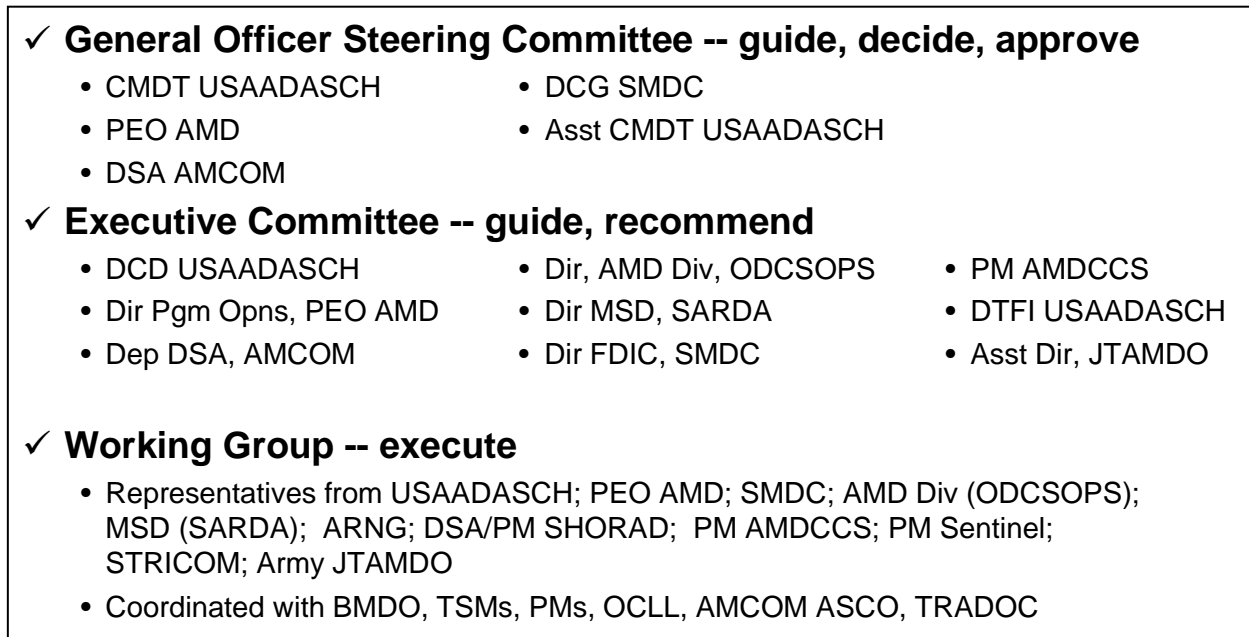
(AMP). It also serves as a source document for the theater AMD (active defense) portion of the Army Theater Air and Missile Defense Master Plan (ATMP). The ATMP, in turn, will provide input to

the Joint Theater Air and Missile Defense Master Plan (JTAMDMP). Figure 1-1 illustrates the relationships of the modernization plans that address AMD.

## **PARTICIPATION**

Army organizations responsible for AMD modernization develop the AMDMP. A three-tier management structure (Figure 1-2) directs the participation of these organizations. The General Officer Steering Committee provides guidance, direction and approval; the Executive Committee guides and recommends; and the Working Group executes the guidance to produce the AMDMP. The signatures of the four general officers – Com-

mandant, U.S. Army Air Defense Artillery School (USAADASCH); Program Executive Officer (PEO), AMD; Deputy for Systems Acquisition (DSA), U.S. Army Aviation and Missile Command (AMCOM); and the Deputy Commanding General, U.S. Army Space and Missile Defense Command (SMDC) – on the AMDMP demonstrate the extensive level of the modernization community’s involvement.



**Figure 1-2. AMDMP Management Structure**

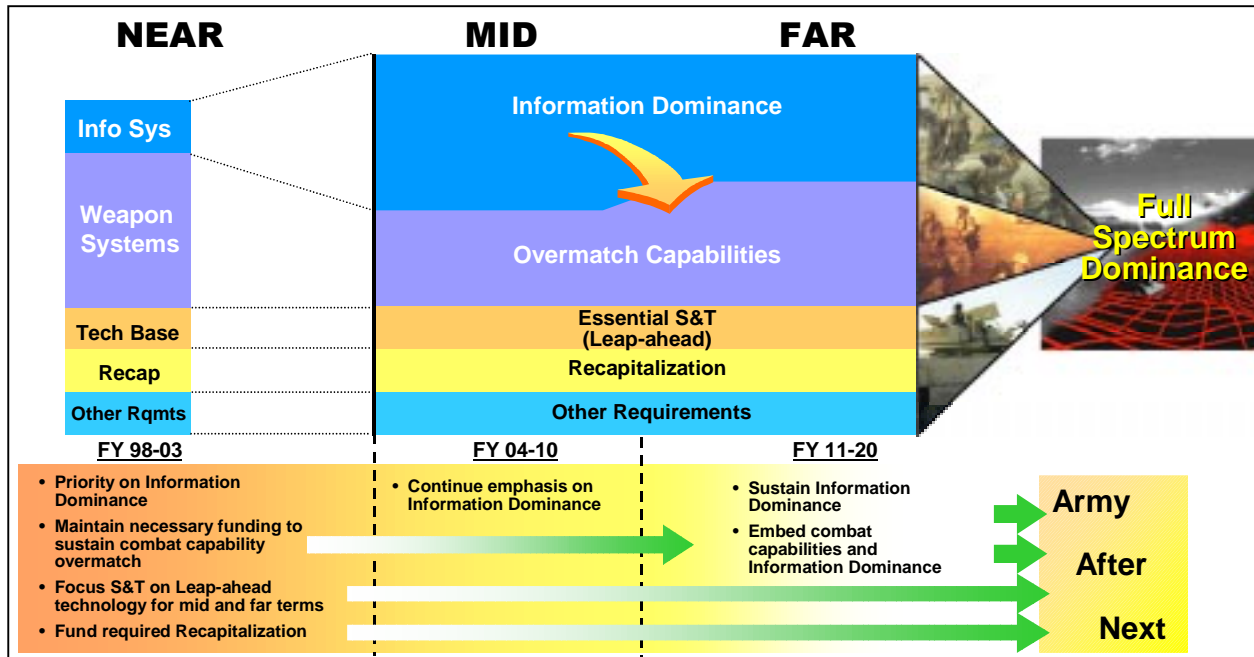
**APPROACH**

The AMDMP identifies and documents AMD system modernization planning from FY99 through FY25, but focuses on the Budget Year (FY00) and the mini-Program Objective Memorandum (POM) period (FY01-05). AMDMP guidelines are derived from Army concepts and modernization plans. The AMDMP uses Army Vision 2010, the blueprint for the Army’s contribution to Joint Vision 2010, and the Army investment strategy as its key reference documents.

Army Vision 2010 furnishes the conceptual focus of the AMDMP and serves as the linchpin for evolving Force XXI to the Army After Next (AAN). The Army modernization vision for the 21st century and beyond is to *enable Army Vision 2010 by equipping a capabilities-based Army to achieve full-spectrum dominance in con-*

*ducting prompt and sustained joint operations while protecting the essential elements of the science and technology and industrial bases.*

To achieve this vision, the Army developed a strategy that prioritizes investments over time. The Army investment strategy defines investment categories to support achieving Army Vision 2010: Information Dominance, Combat Overmatch, Science and Technology (S&T)/Leap-ahead Capabilities, and Recapitalization. Information Dominance consists of offensive and defensive efforts to achieve dominant battlespace awareness, while denying this to the enemy. Information Dominance, the priority of the investment strategy, provides the foundation for Full Spectrum Dominance. Combat Overmatch is the advantage of superior combat systems using



**Figure 1-3. Army Investment Strategy**

advanced technologies, such as PATRIOT Advanced Capability-3 (PAC-3), over potential opponents. The Essential S&T/Leap-ahead Capabilities category will provide the high-level or critical capabilities when needed to support the Future Army. Recapitalization of worn or dated equipment maintains its usability and effectiveness.

As depicted in Figure 1-3, the near-term Army investment priority is Information Dominance. The mid-term maintains the emphasis on

Information Dominance and focuses S&T on leap-ahead technologies. The far-term sustains the ongoing investments – Information Dominance and S&T the keys – to achieve Full Spectrum Dominance and lead to AAN.

The AMD modernization strategy follows the precepts of the Army modernization strategy. AMD investment recommendations are grouped by these Army categories.

## **ORGANIZATION**

In general, the FY99 AMDMP replicates the format of the FY98 AMDMP. It addresses the same key modernization subjects; however, discussions of training, soldiers, and organization and distribution are presented in chapters instead of annexes in recognition of their significant contribution to AMD.

This year's AMDMP contains an executive summary, ten chapters and a glossary for acronyms and abbreviations. The AMDMP's organization reflects the methodology in developing a modernization plan. Chapter 2, Threat, describes the air and missile threats facing U.S. military forces. Theater air and missile threats appear first, fol-

lowed by a brief discussion of the strategic threat to the United States and examinations of selective countries whose current or emerging capabilities could present regional challenges to the United States and its allies. Chapter 3, Warfighting Concept and Required Capabilities, addresses the role of the AMD force in the early 21st century, focusing on its support of Army Vision 2010, and identifies the required capabilities it must possess to fulfill the AMD mission. Chapter 4, Army AMD Initiatives, discusses the science and technology process and how it supports AMD modernization; technologies, experiments, and demonstrations under investigation for the near term; and research and development underway for application to AMD for AAN. Chapter 5, Research, Development, and Acquisition Modernization Strategy, describes the systems required to protect the force and selected geopolitical assets against the current and evolving threat identified in Chapter 2. Programmed and planned system improvements are identified, and their funding “scorecard” is captured in the “FY00-05 POM Does Fund” and

“FY00-05 POM Does Not Fund” sections. Chapter 6, Capabilities Assessment, presents a subjective assessment of the AMD force’s ability to meet the required operational capabilities presented for the Army Vision 2010 patterns of operation in Chapter 3. The assessments are the basis for the operational shortfalls identified at the conclusion of Chapter 6 and the investment recommendations found in Chapter 10. Chapter 7, Training, describes the future of AMD training and identifies the tools needed to train soldiers as they will fight on the Force XXI battlefield. Chapter 8, Soldiers, articulates the ongoing initiatives and potential future opportunities for the Air Defense Artillery (ADA) soldier. Chapter 9, Organization and Distribution, identifies the projected organizational changes and fielding schedules for systems and system improvements during the FY98-03+ time frame. Chapter 10, Conclusions, reviews the AMDMP process and the AMD modernization strategy and provides modernization investment recommendations.

