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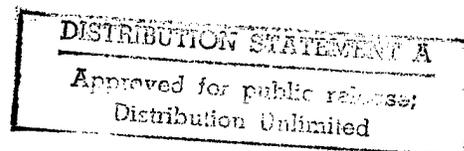
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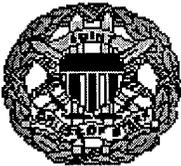
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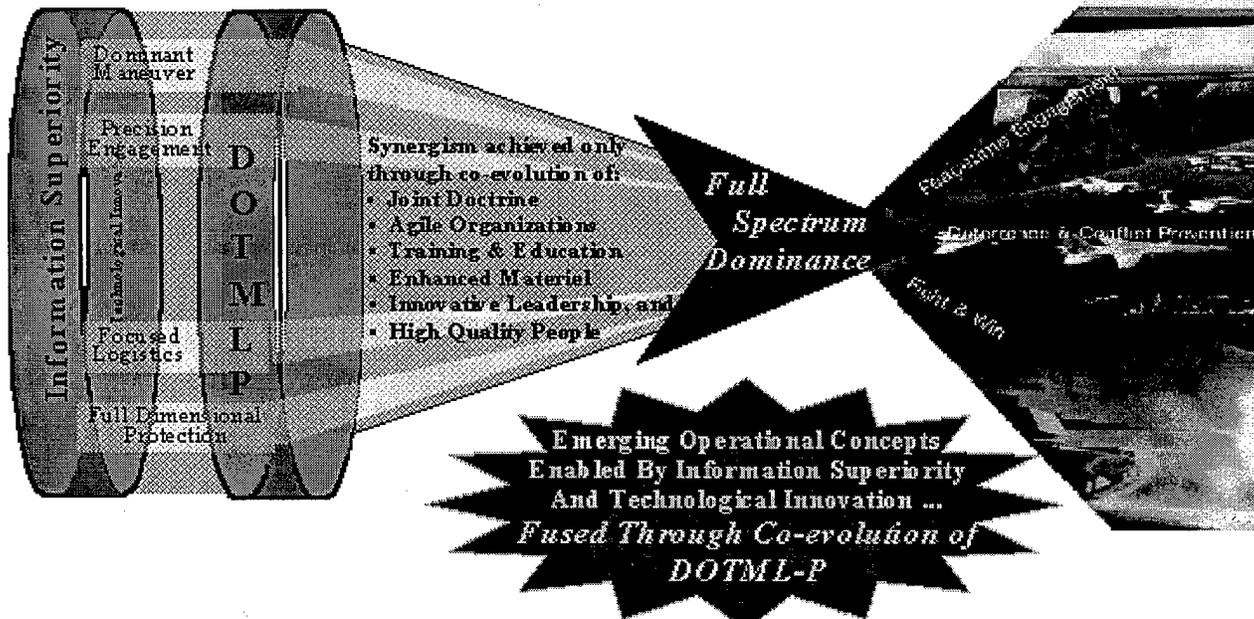
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# The Journal of Joint Vision 2010

Volume 1, Number 2, Fall 1997



## Full Spectrum



## A Forum Dedicated to Turning Joint Vision 2010 into Reality

*Full Spectrum* is your journal. Such an open forum necessarily limits us to unclassified information, but within that sole constraint, considered opinion and commentary from all sources is welcome and indeed essential. Send your electronic comments to: [jv2010@jwfc.js.mil](mailto:jv2010@jwfc.js.mil)

**You can help build the future !**

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## FOREWORD

*by Major General Hal Hornburg  
Commander, JWFC*



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JWFC MAIN

Welcome to the second issue of Full Spectrum, an electronic journal dedicated to the implementation of Joint Vision 2010.

It has been over a year since the Chairman provided us with his vision for how joint forces will fight by the year 2010. This vision is rooted in the realities of the present while considering future conditions and expectations for enhanced future capabilities.

The Concept for Future Joint Operations (CFJO), published last May, amplifies JV 2010's new operational concepts and other ideas. The CFJO provides an intellectual foundation within which to explore different combinations of technological and operational variables in seminars, wargames, simulations, exercises, and other experiments. This will help us find the best combination of joint force capabilities to facilitate JV 2010's Full Spectrum Dominance.

The joint community is moving ahead to identify the capabilities we need for 2010 joint operations. An aggressive assessment process is underway to establish "roadmaps" of events that will focus assessment efforts in the key areas of information superiority, dominant maneuver, precision engagement, full-dimensional protection, and focused logistics. Investigating "desired operational capabilities" in these key areas will eventually help our senior leaders decide what "required operational capabilities" should be pursued. This, in turn, will lead to changes in doctrine, training, leader development programs, organizations, materiel, and individual warrior qualifications that will provide Full Spectrum Dominance in 2010.

Please read and scrutinize this electronic journal. Think about it and discuss the emerging concepts that will shape our future operational capabilities. Your ideas can help us to transition from a vision to an operational force capable of achieving Full Spectrum Dominance.

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# National Military Strategy

September 1997

*Shape, Respond, Prepare Now -- A Military Strategy for a New Era*

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This document conveys my advice and that of the Joint Chiefs of Staff on the strategic direction of the Armed Forces in implementing the guidance in the President's A National Security Strategy for a New Century and the Secretary's Report of the Quadrennial Defense Review.

We have just completed a year-long assessment of the strategic environment that underscored the continuing importance of robust American military power. While we no longer face the threat of a rival superpower, there are states and other actors who can challenge us and our allies conventionally and by asymmetric means such as terrorism and weapons of mass destruction. The rise of regional powers is leading to a multipolar world that can be either more secure or more dangerous -- hence the importance of the President's "imperative of engagement" described herein.

The military has an important role in engagement -- helping to shape the international environment in appropriate ways to bring about a more peaceful and stable world. The purpose of our Armed Forces, however, is to deter and defeat threats of organized violence to our country and its interests. While fighting and winning two nearly simultaneous wars remains the foremost task, we must also respond to a wide variety of other potential crises. As we take on these diverse missions, it is important to emphasize the Armed Forces' core competence: we fight. That must be the primary consideration in the development and employment of forces.

The Chiefs and I strongly agree that the force levels recommended by the Secretary in the QDR are the minimum necessary to carry out this strategy at prudent military risk. Further, we must begin to transform them now by exploiting technological advances that are changing warfare. To do this with forces that will remain committed to operational readiness, contingency operations and engagement activities requires a stabilized investment program and a fundamental re-engineering of support infrastructure. It also requires that we sustain the high quality men and women serving in the Armed Forces. They are the indispensable and decisive element in any strategy.

Our best judgment is that this strategy, Shape, Respond, Prepare Now: A Military Strategy for a New Era, and the forces for which it calls, will protect the Nation and its interests, and promote a peace that benefits America and all like-minded nations.

**JOHN M. SHALIKASHVILI**  
Chairman of the Joint Chiefs of Staff

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## Executive Summary

### **Introduction**

The National Military Strategy provides the advice of the Chairman of the Joint Chiefs of Staff (CJCS) in consultation with the Joint Chiefs of Staff and the Combatant Commanders on the strategic direction of the Armed Forces over the next three to five years. In formulating the 1997 *National Military Strategy*, the CJCS derives guidance from the President's 1997 National Security Strategy and from the *Quadrennial Defense Review* (QDR) report prepared by the Secretary of Defense.

In both the 1997 *National Security Strategy* and the QDR report, the President and the Secretary of Defense introduced an integrated strategic approach embodied by the terms Shape, Respond and Prepare Now. The 1997 *National Military Strategy* is based on these concepts. It builds on the premise that the United States will remain globally engaged to Shape the international environment and create conditions favorable to US interests and global security. It emphasizes that our Armed Forces must Respond to the full spectrum of crises in order to protect our national interests. It further states that as we pursue shaping and responding activities, we must also take steps to Prepare Now for an uncertain future.

### **The Strategic Environment**

The United States has entered a period that presents both opportunities and challenges. Our nation is at peace and much of the world embraces the democratic ideals we cherish. The threat of nuclear war has diminished and diplomatic efforts continue to reap benefits in creating a more stable and peaceful world. Nonetheless, there remain a number of uncertainties, including potentially serious threats to America's security. Principal among these are regional dangers, asymmetric challenges, transnational threats, and "wild cards." This uncertain environment would be even more threatening without the American engagement and leadership that this strategy supports.

### **The Strategy**

#### **National Military Objectives**

To defend and protect US national interests, our national military objectives are to Promote Peace and Stability and, when necessary, to Defeat Adversaries. US Armed Forces advance national security by applying military power as directed to help Shape the international environment and Respond to the full spectrum of crises, while we also Prepare Now for an uncertain future.

## **Elements of Strategy**

**Shaping the International Environment.** US Armed Forces help shape the international environment through deterrence, peacetime engagement activities, and active participation and leadership in alliances. Critical to deterrence are our conventional warfighting capabilities and our nuclear forces. Deterrence rests on a potential adversary's perception of our capabilities and commitment, which are demonstrated by our ability to bring decisive military power to bear and by communication of US intentions. Engagement activities, including information sharing and contacts between our military and the armed forces of other nations, promote trust and confidence and encourage measures that increase our security and that of our allies, partners, and friends. By increasing understanding and reducing uncertainty, engagement builds constructive security relationships, helps to promote the development of democratic institutions, and helps keep some countries from becoming adversaries tomorrow.

**Responding to the Full Spectrum of Crises.** The US military will be called upon to respond to crises across the full range of military operations, from humanitarian assistance to fighting and winning major theater wars (MTW), and conducting concurrent smaller-scale contingencies. Our demonstrated ability to rapidly respond and to decisively resolve crises provides the most effective deterrent and sets the stage for future operations if force must be used. Should deterrence fail, it is imperative that the United States be able to defeat aggression of any kind. Especially important is the ability to deter or defeat nearly simultaneous large-scale, cross-border aggression in two distant theaters in overlapping time frames, preferably in concert with allies. The ability to rapidly defeat initial enemy advances short of their objectives in two theaters in close succession reassures our allies and ensures the protection of our worldwide interests. We must also be prepared to conduct several smaller-scale contingency operations at the same time, as situations may dictate the employment of US military capabilities when rapid action is required to stabilize a situation.

**Preparing Now for an Uncertain Future.** As we move into the next century, it is imperative that the United States maintain the military superiority essential to our global leadership. Our strategy calls for transformation of our doctrine and organizations and a stabilized investment program in robust modernization that exploits the Revolutions in Military Affairs (RMA) and Business Affairs (RBA).

## **Strategic Concepts**

The National Military Strategy describes four strategic concepts that govern the use of our forces to meet the demands of the strategic environment. Strategic Agility is the timely concentration, employment and sustainment of US military power anywhere, at our own initiative, and at a speed and tempo that our adversaries cannot match. It is an important hedge against the uncertainty we face. It allows us to conduct multiple missions, across the full range of military operations, in geographically separated regions of the world. Overseas Presence is the visible posture of US forces and infrastructure strategically positioned forward, in and near key regions. Forces present overseas promote stability, help prevent conflict, and ensure the protection of US interests. Our overseas presence demonstrates our determination to defend US, allied, and friendly interests while ensuring our ability to rapidly concentrate combat power in the event of crisis. Power Projection is the ability to rapidly and effectively deploy and sustain US military power in and from multiple, dispersed locations until conflict resolution. Power projection provides the flexibility to respond swiftly to crises, with force packages that can be adapted rapidly to the environment in which they must operate, and if necessary, fight their way into a denied theater. Decisive Force is the commitment of sufficient military power to overwhelm an adversary, establish new military conditions, and achieve a political resolution favorable to US national interests. Together, these four strategic concepts emphasize that America's military must be able to employ the right mix of forces and capabilities to provide the decisive advantage in any operation.

## **The Joint Force**

**Our Armed Forces are the preeminent military force in the world, persuasive in peace and decisive in war. To successfully implement our strategy of shaping, responding, and preparing, the forces and capabilities recommended in the QDR report are essential. Equally critical to the success of our strategy are the men and women who comprise our military forces. We must continue to recruit, train, and maintain a high quality force to ensure our nation's security. Our forces must maintain the high state of readiness that is essential to global leadership; thus the means by which we achieve, maintain, and evaluate our readiness demand continued emphasis. Our military must be ready to fight as a coherent joint force - fully interoperable and seamlessly integrated. Capitalizing on technology will also be central to maintaining military superiority. Our modernization effort will focus on those technologies that improve the combat effectiveness of our Armed Forces while enhancing the interoperability and integration of the Total Force. Modernization is not an end in itself, but a means to improve the capabilities of our warfighters across the full range of military operations - from peacetime engagement activities to war.**

## **Conclusion**

**The National Military Strategy of Shaping, Responding, and Preparing Now addresses the challenges and opportunities that confront us now as well as those that await us as we approach the next century. Working with our allies, partners, and friends, we will promote peace in an increasingly complex and potentially more dangerous world. This strategy will ensure that the US military will remain capable of performing whatever tasks we are called upon to perform around the world in the years ahead.**

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## **Introduction**

**The National Military Strategy (NMS) provides advice from the Chairman of the Joint Chiefs of Staff (CJCS), in consultation with the Joint Chiefs of Staff (JCS) and the Combatant Commanders, to the National Command Authorities (NCA) on the strategic direction of the Armed Forces. Based on A National Security Strategy for a New Century, approved by the President in May 1997, and the report of the Secretary of Defense to Congress of the 1997 QDR, the NMS describes the strategic environment, develops national military objectives and the strategy to accomplish those objectives, and describes the military capabilities required to execute the strategy. As an unclassified document, it makes this advice accessible to the widest range of government officials, interested citizens, and foreign leaders.**

### **Purpose of the Armed Forces**

**The President's 1997 National Security Strategy advances the Nation's fundamental and enduring security needs: protection of the lives and safety of Americans; maintenance of the sovereignty of the United States, with its values, institutions and territory intact; and provision for the prosperity of the Nation and its people. It further establishes as a core objective "to enhance our security with effective diplomacy and with military forces that are ready to fight and win."**

**The Armed Forces are the Nation's military instrument for ensuring our security. Accordingly, the primary purpose of US Armed Forces is to deter threats of organized violence against the United States and its interests, and to defeat such threats should deterrence fail. The military is a complementary element of national power that stands with the other instruments wielded by our government. The Armed Forces' core competence is the ability to apply decisive military power to deter or defeat aggression and achieve our national security objectives.**

### **Fighting and Winning Our Nation's Wars**

**Our Armed Forces' foremost task is to fight and win our Nation's wars. Consequently, America's Armed Forces are organized, trained, equipped, maintained, and deployed**

primarily to ensure that our Nation is able to defeat aggression against our country and to protect our national interests.

### **Protecting US National Interests**

US national interests fall into three categories. First in priority are our *vital interests* - those of broad, overriding importance to the survival, security, and territorial integrity of the United States. At the direction of the NCA, the Armed Forces are prepared to use decisive and overwhelming force, unilaterally if necessary, to defend America's vital interests. Second are *important interests* - those that do not affect our national survival but do affect our national well-being and the character of the world in which we live. The use of our Armed Forces may be appropriate to protect those interests. Third, armed forces can also assist with the pursuit of *humanitarian interests* when conditions exist that compel our nation to act because our values demand US involvement. In all cases, the commitment of US forces must be based on the importance of the US interests involved, the potential risks to American troops, and the appropriateness of the military mission.

Throughout our history, America's Armed Forces have responded to a variety of national needs other than waging wars. The security environment we face includes threats to our country and to our interests that are not "war" in the classical sense, and yet may call for military forces. Terrorism, weapons of mass destruction (WMD), illegal drug-trafficking, and other threats at home or abroad may exceed the capacity of other agencies and require the use of military forces, depending upon applicable law, the direction of the NCA, and the national interest involved. In addition, military resources will continue to support civil authorities in executing missions such as civil works, disaster relief, and domestic crises.

### **The Imperative of Engagement**

*The President's National Security Strategy for a New Century* stresses "the imperative of engagement" and enhancing our security through integrated approaches that allow the Nation to Shape the international environment; Respond to the full spectrum of crises; and Prepare Now for an uncertain future. Our strategic approach uses all appropriate instruments of national power to influence the actions of other states and nonstate actors, exert global leadership, and remain the preferred security partner for the community of states that share our interests. The Armed Forces play a key role in this effort. The United States' unparalleled military capabilities form the foundation of mutually beneficial alliances and security partnerships, undergird stability in key regions, and buttress the current worldwide climate of confidence that encourages peace, economic growth, and democratization. Our global engagement makes the world safer for our Nation, our citizens, our interests, and our values.

### **A Posture of Global Engagement**

Because America is engaged worldwide, even in peacetime, significant portions of our Armed Forces are present overseas or readily available to deploy overseas, where many of our interests are found. This posture of global engagement and the activities of our forces deployed around the world help shape the international environment by promoting stability and the peaceful resolution of problems, deterring aggression, and helping to prevent conflict. They also preserve our access to important infrastructure, position our military to respond rapidly to emerging crises, and serve as the basis for concerted action with others.

### **Peacetime Military Engagement**

Peacetime military engagement encompasses all military activities involving other nations intended to shape the security environment in peacetime. Engagement is a strategic function of all our Armed Forces, but it is a particularly important task of our forces overseas - those forward stationed and those rotationally or temporarily deployed. Engagement serves to demonstrate our commitment; improve interoperability; reassure allies, friends and coalition partners; promote transparency; convey democratic ideals; deter aggression; and help relieve sources of instability before they can become military

crises.

The text that follows describes our strategic ends, ways, and means. After summarizing the near-term strategic environment from a military perspective, it then describes the "ends:" the national military objectives that support the President's national security strategy and the Secretary's QDR defense strategy. Next, it outlines the "ways" by which the military pursues these objectives according to the integrated approaches of Shaping, Responding, and Preparing Now, and the supporting military strategic concepts. Finally, the NMS describes the necessary "means:" the joint forces required to carry out the strategy.

## **The Strategic Environment – Opportunities and Challenges**

Although the United States currently enjoys relative peace and security, the strategic environment remains complex and potentially dangerous. The threat of global war has receded. Former adversaries now cooperate with us across a range of security issues, and many countries view the United States as the security partner of choice. Our core values of representative democracy and market economics are embraced in many parts of the world, creating new possibilities for enduring peace, prosperity, and cooperation among nations. We are not confronted by a "peer competitor"- a hostile power of similar strength and capability-nor are we likely to be in the near future. Given the United States' military potential and ability to deploy to any region of conflict, it is also unlikely that any regional power or coalition could amass sufficient conventional strength to defeat our Armed Forces. We therefore have an unprecedented opportunity to shape the future security environment. We are successfully adapting our military alliances to new realities and building security relationships with new coalition partners. There are, nonetheless, significant challenges. Ethnic, economic, social, and environmental strains continue to cause instability and the potential for violence. Regional conflict remains possible, proliferation of weapons of mass destruction is a major concern, and we face a number of nontraditional, transnational, and unpredictable threats to our security.

### **Regional Dangers**

The potential for conflict among states and groups of states remains our most serious security challenge. Despite the best efforts of engagement, it is likely that more than one aspiring regional power will have both the desire and means to challenge the United States militarily. Iran, Iraq, and North Korea currently pose this challenge, with no guarantee that these threats will diminish significantly soon. Numerous other regional powers have increasing access to wealth, technology, and information, potentially giving them greater military capability and more influence. Some may attempt to become dominant in a region, intimidating US allies and friends, pursuing interests hostile to our own, and developing asymmetric capabilities, including nuclear, biological, and chemical weapons of mass destruction (WMD) and the means to deliver them. With instant global communications, geographically-separated aggressors could easily coordinate hostile actions. Failed and failing states, and conflict that is not directed against the United States, can also threaten our interests and the safety of our citizens.

### **Asymmetric Challenges**

Some state or nonstate actors may resort to asymmetric means to counter the US military. Such means include unconventional or inexpensive approaches that circumvent our strengths, exploit our vulnerabilities, or confront us in ways we cannot match in kind. Of special concern are terrorism, the use or threatened use of WMD, and information warfare. These three risks in particular have the potential to threaten the US homeland and population directly and to deny us access to critical overseas infrastructure. Other challenges include exploiting commercial and foreign space capabilities, threatening our space-based systems, interrupting the flow of critical information, denying our access to strategic resources, and environmental sabotage. Hostile actors may use such means by themselves or in conjunction with conventional military force. Such asymmetric challenges are legitimate military concerns. We must increase our capabilities to counter these threats and adapt our military doctrine, training, and equipment to ensure a rapid and effective joint and interagency response.

## **Transnational Dangers**

The security environment is further complicated by challenges that transcend national borders and threaten our national interests. Human emergencies other than armed conflict; extremism, ethnic disputes, and religious rivalries; international organized crime, including illegal trade in weapons, strategic materials or illicit drugs, as well as piracy; massive refugee flows; and threats to the environment each have the potential to put US interests at risk. These challenges can obstruct economic growth and democratic development and lead to conflict. Complicating the situation is the continued blurring of the distinction between terrorist groups, factions in ethnic conflicts, insurgent movements, international criminals, and drug cartels. Failure to deal with such security concerns early in their development may require a more substantial response to a more dangerous problem later.

### **"Wild Cards"**

We can never know with certainty where or when the next conflict will occur, who our next adversary will be, how an enemy will fight, who will join us in a coalition, or precisely what demands will be placed on US forces. A number of "wild card" threats could emerge to put US interests at risk. Such threats range from the emergence of new technologies that neutralize some of our military capabilities, to the loss of key allies or alliances and the unexpected overthrow of friendly regimes by hostile parties. While an individual "wild card" may appear unlikely, the number of possible "wild cards" make it more likely that at least one of them will occur with disproportionately high consequences. While asymmetric challenges and transnational dangers are serious in themselves, a particularly grave "wild card" is the combination of several such threats. Acting in collusion with other hostile entities, for example, an adversary might attempt to combine multiple asymmetric means with the seizure of a strategic objective before we could respond. Such an attack-- timed to avoid US forces while they are committed elsewhere, and supported by diplomatic and propaganda efforts -- could be directed against an important national interest. This could critically undermine US will, credibility, access, and influence in the world.

The strategic environment facing us is complex, dynamic, and uncertain. If the United States were to withdraw from international commitments, forsake its leadership responsibilities, or relinquish military superiority, the world would become more dangerous and the threats to US interests would increase. It is in this environment that US Armed Forces must carry out their tasks to protect America and its interests.

## **The Strategy – Shape, Respond, Prepare Now**

Our National Military Strategy depends first and foremost upon the United States remaining secure from external threats. A secure homeland is fundamental to US global leadership; however, it is not the only prerequisite. To protect and promote US national interests, our national military objectives are to Promote Peace and Stability and, when necessary, to Defeat Adversaries that threaten the United States, our interests, or our allies. US Armed Forces advance national security by applying military power to Shape the international environment and Respond to the full spectrum of crises, while we Prepare Now for an uncertain future.

## **National Military Objectives**

**Promote Peace and Stability.** Promoting peace and stability means creating and sustaining security conditions globally, and in key regions, allowing the peaceful pursuit of our interests and the just resolution of international problems through political means. This does not imply a resistance to change; rather, it underscores a desire for peaceful change. Pursuit of this objective supports the *President's 1997 National Security Strategy* by ensuring that no critical region is dominated by a power hostile to the United States and that regions of greatest importance to the US are stable and at peace. Such stability reduces the likelihood of widespread conflict and allows the pursuit of our interests by

other instruments of national power. Where a potential regional hegemon threatens our interests and those of our allies through the buildup or use of armed forces, US military power may be concentrated to assure allies and friends, redress the imbalance, and deter or defeat aggression. Where the risk to peaceful political intercourse stems from other sources, US forces may conduct operations or otherwise contribute to efforts that seek to prevent conflict and reduce threats. Our role as a global leader is underscored by US forces performing tasks that encourage other nations to resolve problems through negotiation and compromise rather than by aggression and intimidation.

**Defeat Adversaries.** In the event of armed conflict, US Armed Forces will render an adversary incapable of armed resistance through destruction of his capacity to threaten our interests or by breaking his will to do so. This sets the military conditions for winning the peace. In conducting combat operations, the United States will use all means available, commensurate with the national interest at stake, the risks involved, and international law. We will endeavor to commit decisive force to ensure that we achieve the objectives established by the NCA and conclude hostilities in the shortest time possible and on terms favorable to the United States.

**Elements of the Strategy: Shape, Respond, Prepare Now** US Armed Forces pursue these national military objectives in support of the President's integrated approaches of shaping, responding, and preparing now, which synchronize all elements of national power to achieve our security objectives. Our use of military force should be guided by several considerations. First, military force should be used judiciously and decisively. Military missions must be clearly stated, with achievable military objectives that support national political aims. Second, on most occasions, our forces will operate as a joint team, harmonizing the unique and complementary strengths and capabilities of each of our Services. Third, while retaining unilateral capability, whenever possible we must seek to operate alongside alliance or coalition forces, integrating their capabilities and capitalizing on their strengths. Finally, we must ensure that the conditions necessary for terminating military involvement and withdrawing military forces are clearly established.

**Shaping the International Environment.** US Armed Forces help shape the international environment primarily through their inherent deterrent qualities and through peacetime military engagement. The shaping element of our strategy helps foster the institutions and international relationships that constitute a peaceful strategic environment by promoting stability; preventing and reducing conflict and threats; and deterring aggression and coercion.

**Promoting Stability.** Through peacetime engagement activities, US Armed Forces promote regional stability, increase the security of allies and friends, build coalitions, and ensure a more secure global environment. The commanders-in-chief of our unified commands, based on guidance from the NCA and CJCS, develop plans and employ forces and personnel in peacetime to protect and promote US interests and regional security objectives.

Our international exercise program is one such activity. Exercises enhance interoperability and readiness and demonstrate our ability to form and lead effective coalitions. They demonstrate our capabilities and resolve to friends and potential adversaries alike. They provide realistic conditions for working with the technologies, systems, and operational procedures that will be crucial in times of crisis. International exercises also provide geographic familiarity and foster an understanding of cultures, values, and habits of other societies. Exercises encourage burden sharing on the part of friends and allies, and facilitate regional integration.

Through other engagement activities, such as information sharing and a wide range of contacts between our military and the defense establishments of other nations, we promote trust and confidence and increase the security of our allies, partners, and friends. Partnership for Peace, defense cooperation activities, foreign military sales, the International Military Education and Training (IMET) program, and other programs establish long-term professional relationships between our Armed Forces and the future military leadership of other countries. Military-to-military contacts with countries that

are neither staunch friends nor confirmed foes build constructive security relationships, help to promote the appropriate role of armed forces in a democratic society, and enhance stability.

**Preventing or Reducing Conflicts and Threats.** Conflict prevention means the reduction, mitigation, or neutralization of the causes of conflict. Though the military by itself can rarely address the root causes of conflict -- as it often stems from political, economic, social, and legal conditions that are beyond the core competence of the military to resolve -- military forces can provide a degree of fundamental security and use their unique operational and logistical capabilities to help civil initiatives succeed. Such military operations can have important strategic value when they promote the overall stability the US seeks, thus reducing the need for greater military effort later.

The US effort to prevent conflict and reduce threats includes arms control measures as an essential part. Verifiable arms control agreements, as well as confidence building and transparency measures, help reduce tensions and dangers. Military resources are an important component of this effort, particularly in the conduct of reciprocal inspection, verification, and, in some cases, enforcement activities. Bringing worldwide arsenals into conformity with international nonproliferation standards, helps to reduce uncertainty about potential threats, and allows countries to direct resources to safer, more productive relations. The United States remains committed to our obligations under bilateral and international arms control agreements. Expanding arms control efforts to address the use or possession of WMD, the development of WMD technology, and the control and transfer of fissionable materiel are also extremely important to enhancing US security.

**Peacetime Deterrence.** Deterrence means preventing potential adversaries from taking aggressive actions that threaten our interests, allies, partners, or friends. It is the military's most important contribution to the shaping element of the President's strategy. Deterrence rests in large part on our demonstrated ability and willingness to defeat potential adversaries and deny them their strategic objectives. Our deterrence capability gives allies and friends the confidence necessary for normal political discourse and peaceful resolution of differences. The critical elements of deterrence are our conventional warfighting capabilities: forces and equipment strategically positioned, our capability to rapidly project and concentrate military power worldwide; our ability to form and lead effective military coalitions; and our capacity to protect our homeland, forces, and critical infrastructure from the full range of potential threats. Our strategic nuclear forces complement our conventional capabilities by deterring any hostile foreign leadership with access to nuclear weapons from acting against our vital interests. Our nuclear forces may also serve to convince such leaders that attempting to seek a nuclear advantage would be futile.

**Responding to the Full Spectrum of Crises.** Given the strategic environment, the US military undoubtedly will be called upon to respond to crises across the full range of military operations, from humanitarian assistance to fighting and winning MTWs and conducting concurrent smaller-scale contingencies. US forces must be able to respond to crises from a posture of global engagement. In the event of a major theater war the United States will need to be extremely selective in undertaking substantial engagement activities and smaller-scale contingency operations. More than likely, we would have to disengage from activities and operations not deemed vital, in order to better posture our forces to deter or defeat aggression in a second major theater war. A credible US force-in-being, despite multiple demands, is a key stabilizing influence in the world. Responding to multiple concurrent contingencies requires careful consideration to ensure our forces are not dissipated and therefore either unable, or perceived as unable, to respond to more critical threats.

**Deterring Aggression or Coercion in Crisis.** The first response in any crisis normally consists of steps to deter an adversary so the situation does not require a greater US response. This generally involves signaling our commitment by enhancing our warfighting capability in a theater or by making declaratory statements to communicate US intentions and the potential cost of aggression to an adversary. We may also choose to emphasize our resolve by responding in a limited manner, for example, by enforcing sanctions or conducting limited strikes. The deterrent posture and activities of our armed forces ensure we remain prepared for conflict should deterrence fail.

**Fighting and Winning Major Theater Wars.** As a global power with worldwide interests, it is imperative that the United States be able to deter and defeat nearly simultaneous, large-scale, cross-border aggression in two distant theaters in overlapping time frames, preferably in concert with regional allies. For the time being, we face this challenge in the Arabian Gulf region and in Northeast Asia. However, even should these challenges diminish, this capability is critical to maintaining our global leadership role. Lack of such a capability would signal to key allies our inability to help defend mutual interests, thus weakening our alliances and coalitions. Because such weakness would not escape the attention of potential adversaries, it might make two simultaneous crises more likely. US commitment to one crisis would present the opportunity, otherwise unrealized, for another aggressor to act. Even more dangerous, it could inhibit the United States from responding to a crisis promptly enough, or even at all, for fear of committing our only forces and thereby making ourselves vulnerable in other regions of the world. The capability to fight two major theater wars initiated in rapid succession is of critical importance as it helps deter opportunism, promote stability, and provide the depth and flexibility to deal with unanticipated challenges.

In this regard, a particularly challenging requirement associated with fighting and winning major theater wars is being able to rapidly defeat initial enemy advances short of their objectives in two theaters in close succession, one followed almost immediately by another. Maintaining this capability is absolutely critical to our ability to seize the initiative in both theaters and to minimize the amount of territory we and our allies must regain from aggressors. Failure to halt an enemy invasion rapidly would make the subsequent campaign to evict enemy forces from captured territory much more difficult, lengthy, and costly. Such failure would also weaken coalition support, undermine US credibility, and increase the risk of conflict elsewhere.

**Conducting Multiple, Concurrent Smaller-Scale Contingency Operations.** Future challenges to our interests will likely require use of our forces in a wide range of concurrent operations short of major theater war. Swift action by military forces may sometimes be the best way to prevent, contain, or resolve conflict, thereby precluding greater effort and increased risk later. Using some of our unsurpassed capabilities in the pursuit of common interests and values demonstrates leadership and encourages confidence and greater contributions by others, reducing the demand on ourselves in the long run. US military forces provide a full array of capabilities that can be tailored to give the NCA many options in pursuing our interests. Our capacity to perform shows of force, limited strikes, opposed interventions, no-fly zone and sanctions enforcement operations, interposition or observation operations, and other missions allows us to deter would-be aggressors and control the danger posed by rogue states. US forces can perform peace operations and humanitarian assistance operations, and can evacuate noncombatants from dangerous situations, whether opposed or unopposed. US forces will act unilaterally and in concert with security partners, using all means authorized by the President and the Congress, to counter international terrorism at home and abroad. Unique military capabilities can also support domestic authorities in combating direct and indirect threats to the US homeland, such as the illegal drug trade, especially when the potential for violence exceeds the capability of domestic agencies.

**Preparing Now for an Uncertain Future.** As we move into the next century, it is imperative that the United States maintain the military superiority essential to our global leadership. To be able to respond effectively in the future, we must transform US combat capabilities and support structures, but while we do so, our forces must remain engaged worldwide and ready to fight and win two nearly simultaneous major theater wars. Success demands a stabilized investment program in robust modernization that exploits the RMA. It also requires fundamental reengineering of our infrastructure and streamlining of our support structures through the RBA to realize the cost efficiencies necessary to recapitalize the force. Though difficult to accomplish, such tasks are essential to reaching new levels of joint warfighting effectiveness.

JV 2010 is the conceptual template for joint operations and warfighting in the future. It provides the azimuth for the Services' visions, thus ensuring the future interoperability of the joint force. Because we will often act in concert with like-minded nations, as we implement JV 2010, we must also retain interoperability with our allies and potential

coalition partners. This vision of future capabilities guides our warfighting requirements and procurement, and focuses technological development. JV 2010's key enablers of information superiority and technological innovation will transform the current concepts of maneuver, strike, protection, and logistics into the new operational concepts of dominant maneuver, precision engagement, focused logistics, and full-dimensional protection. Turning these concepts into reality will help us to conduct decisive operations in any environment, a characteristic JV 2010 calls "full spectrum dominance." JV 2010 rests on the foundations of information superiority and technological innovation.

**Information Superiority.** Information superiority is the capability to collect, process, and disseminate an uninterrupted flow of precise and reliable information, while exploiting or denying an adversary's ability to do the same. While it is dependent upon superior technology, systems integration, organization and doctrine, it is not an inherent quality but, like air superiority, must be achieved in the battlespace through offensive and defensive information operations. Information superiority yields battlespace awareness, an interactive, shared and highly accurate picture of friendly and enemy operations as they occur. Information superiority allows our commanders to employ widely dispersed joint forces in decisive operations, engage and reengage with the appropriate force, protect the force throughout the battlespace, and conduct tailored logistical support.

**Technological Innovation.** As we reshape our forces to meet the challenges of a changing world, we will leverage emerging technologies to enhance the capabilities of our servicemen and women through development of new doctrine, organizations, material, and training. Development and acquisition of new systems and equipment will improve our ability to conduct decisive operations and achieve full spectrum dominance. However, they are not a panacea. We must recognize that each includes inherent vulnerabilities; each must be applicable across the range of operations; and each must enhance the human capability of our forces.

**Balanced Evolution.** The fundamental challenge for our Armed Forces is to shape and respond in the current and near-term security environment, while we concurrently prepare for the future. Because our forces are engaged worldwide every day, their transformation to achieve the new capabilities described in JV 2010 is necessarily evolutionary. Through a rigorous process of experimentation, assessment, refinement, and doctrinal development, we can meet our responsibility to maintain ready forces today while taking steps to transform those forces to be superior tomorrow. This transformation of our forces is not a choice between people or technology, but about how to integrate the strengths of both to give the Nation the best possible military capability. It involves much more than the acquisition of new military systems. It means harnessing new technologies to give US forces greater military capabilities through advanced concepts, doctrine, and organizations so that they can dominate any future battlespace.

## **Strategic Concepts**

Strategic concepts are key ideas that govern our use of military force and forces as we execute the strategy of Shape, Respond, Prepare Now. These ideas are also important considerations that guide how our forces are trained, equipped, and organized.

**Strategic Agility.** Strategic agility is the timely concentration, employment, and sustainment of US military power anywhere at our own initiative, at a speed and tempo that our adversaries cannot match. Our forces must be able to seize and maintain the momentum of operations rapidly to meet multiple demands in an uncertain and complex strategic environment. Strategic agility requires our Armed Forces to be versatile, that is, to conduct multiple missions simultaneously, across the full range of military operations, in geographically separated regions of the world. This versatility, and the equally important abilities to orchestrate, command, control and support dispersed joint forces permit the decisive application of our strengths against enemy weaknesses. Strategic agility is essential if we are to remain globally engaged but not find ourselves improperly positioned or otherwise unable to respond to crises.

**Overseas Presence.** Overseas presence is the visible posture of US forces and infrastructure strategically positioned forward, in or near key regions. Permanently

stationed and rotationally or temporarily deployed forces promote security and stability, prevent conflict, give substance to our security commitments, and ensure our continued access. Overseas presence enhances coalition operations by promoting joint and combined training and encouraging responsibility sharing on the part of friends and allies. Overseas presence contributes to deterrence by demonstrating our determination to defend US, allied, and friendly interests in critical regions while enabling the US to rapidly concentrate military power in the event of crisis. The presence of our forces provides commanders with a flexible array of options to respond promptly to aggression. Overseas presence forces embody global military engagement. They serve as role models for militaries in emerging democracies; contribute uniquely to the stability, continuity, and flexibility that protects US interests; and are crucial to continued democratic and economic development.

**Power Projection.** Power projection is the ability to rapidly and effectively deploy and sustain US forces in and from multiple, dispersed locations. Complementing overseas presence, power projection strives for unconstrained global reach. Power projection assets are tailored to regional requirements and send a clear signal of US commitment. Being able to project power means being able to act even when we have no permanent presence or infrastructure in a region. If necessary, it means fighting our way into a denied theater or creating and protecting forward operating bases. The ability to assemble and move to, through, and between a variety of environments, often while reconfiguring to meet specific mission requirements, is essential to offsetting an adversary's advantages in mass or geographic proximity. Global power projection provides our national leaders with the options they need to respond to potential crises.

**Decisive Force.** Decisive force is the commitment of sufficient military power to overwhelm all armed resistance in order to establish new military conditions and achieve political objectives. In cases not involving armed resistance, decisive force means that US forces will be wholly sufficient to accomplish the full scope of their military tasks. Decisive force in the early stages of a crisis can be critical to deterring aggression. The concept does not promise quick or bloodless solutions to military challenges, but does require that, where the actual commitment of military power is anticipated, such force will be clearly superior to that of any potential adversary.

## **The Joint Force**

To execute this strategy the United States requires forces of sufficient size, depth, flexibility, and combat power to defend the US homeland; maintain effective overseas presence; conduct a wide range of concurrent engagement activities and smaller-scale contingencies, including peace operations; and conduct decisive campaigns against adversaries in two distant, overlapping major theater wars, all in the face of WMD and other asymmetric threats. This section describes the "full spectrum" forces needed to meet these core requirements, including their three key characteristics; their general size and composition; their overseas posture and readiness; and the capabilities and strategic enablers essential to the execution of this strategy.

### **Characteristics of a Full Spectrum Force**

US Armed Forces as a whole must be multi-mission capable; interoperable among all elements of US Services and selected foreign militaries; and able to coordinate operations with other agencies of government, and some civil institutions.

**Multi-Mission Capable.** Our forces must be proficient in their core warfighting competencies and able to transition smoothly from a peacetime posture to swift execution of multiple missions across the full spectrum of operations. They require the correct mix of capabilities between and within the Services, and among conventional, nuclear, and special operations forces. In addition, our armed forces must strike an appropriate balance between the exploitation of advanced technology and the recognition that most military missions remain manpower intensive. The wide range of likely military operations demands that our forces be able to quickly shift from one type of operation to another. They must also retain their ability to operate successfully despite an adversary's use of asymmetric means. The leadership, discipline, organization, and training inherent

in maintaining our core warfighting competencies are the foundation of our ability to adapt readily and efficiently to the challenges peculiar to a wide variety of smaller-scale contingencies.

**Joint.** Each Service, including the US Coast Guard when assigned, brings its own set of capabilities and strengths to a mission. Some situations demand the unique capabilities of only one Service, but most will call for capabilities from all Services. The skillful and selective combination of Service capabilities into Joint Task Forces provides US commanders great flexibility in tailoring forces to meet national objectives given specific circumstances. As important, it presents an enemy with an overwhelming array of capabilities against which to defend. A fully joint force requires joint operational concepts, doctrine, tactics, techniques, and procedures -- as well as institutional, organizational, intellectual, and system interoperability -- so that all US forces and systems operate coherently at the strategic, operational, or tactical levels. Joint effectiveness does not mean that individual pieces of equipment or systems are identical, but rather that commanders are not constrained by technical or doctrinal barriers among the components of the joint force, and that the joint force's capability is dramatically enhanced by the blending of complementary Service capabilities.

**Interoperable.** All elements of US joint forces must be able to work together smoothly. Success on the battlefield will depend on the operational and tactical synergy of integrated, agile Service forces. Although we must retain the capability to act unilaterally, we prefer to act in concert with our friends and allies. Laying a solid foundation for interoperability with our alliance and potential coalition partners is fundamental to effective combined operations. We remain committed to doctrinal and technological development with our key allies and to combined training events and exercises that contribute to interoperability.

It is imperative that our Joint Forces also enhance their ability to operate in consonance with other US government agencies, and with Non-governmental Organizations (NGOs), International Organizations (IOs), and Private Voluntary Organizations (PVOs) in a variety of settings. The specialized access and knowledge these organizations possess can facilitate prompt, efficient action to prevent conflict, resolve a crisis, mitigate suffering, and restore civil government upon conflict termination. Achieving interagency and civil interoperability through the continuing development of our doctrine and interagency participation in our training exercises is important to the unity of effort upon which success in many missions depends.

## **Today's Force**

**The Total Force.** The Total Force requires the unique contributions of its Active and Reserve Components and its civilian employees. All elements of the Total Force must be appropriately organized, modernized, trained, and integrated. As described in the QDR report, the Total Force required to carry out the President's 1997 National Security Strategy and this supporting military strategy at prudent military risk includes:

**Army** -- Four active corps with ten active divisions (six heavy, two light infantry, one airborne, and one air assault); and two active armored cavalry regiments; fifteen National Guard enhanced separate brigades; the capability provided by appropriately restructured National Guard combat divisions; and other appropriate forces.

**Navy** -- Twelve aircraft carriers, eleven air wings, twelve amphibious ready groups, 116 surface combatant ships, 50 attack submarines, and augmentation forces of the Naval Reserve.

**Air Force** -- A total fleet of 187 bombers, just over 12 active fighter wing equivalents, eight reserve component fighter wing equivalents, and four National Guard dedicated continental air defense squadrons (other forces will be used to handle the US air sovereignty mission) together with the currently programmed tanker and airlift fleets.

**Marine Corps** -- Three active Marine Expeditionary Forces (MEF) each comprised of a command element, a division, an aircraft wing, and a service support group. The active

force will continue to be augmented and reinforced by one Reserve division/wing/service support group.

**Coast Guard** -- Approximately 50,000 active and reserve personnel and 43 medium- and high-endurance cutters.

**Civilians** -- Approximately 640,000 men and women whose support is essential to the maintenance of our readiness. From depot workers to senior level leaders, they work together to perform functions ranging from policy direction to maintenance of our total force.

**Special Operations Command** -- A joint special operations force consisting of approximately 47,000 Army, Navy and Air Force active and reserve personnel.

**Reserve Components.** The Reserve Components, in addition to being essential participants in the full range of military operations, are an important link between the Armed Forces and the public. Mobilization of the Reserve Components has always been an important indicator of the commitment of national will. Guardsmen and reservists are not only integrated into war plans, but also provide critical skills in carrying out contingency operations, as well as augmenting and supporting active units during peacetime. National Guard and other Reserve Component elements also provide the NCA with a strategic hedge against uncertainty and with an organized basis to expand our Armed Forces if necessary. Additionally, they also provide a rotational base to ease the tempo of unit and individual deployments for the Active Component.

**Posture.** Most US forces are based in CONUS but are continuously available for deployment. We will maintain roughly 100,000 military personnel in both the European and Pacific regions. Additionally, we will maintain an appropriate presence in the Arabian Gulf region to deter threats to our interests there. These forces signal our commitment to peace and stability in these regions. They affirm our leadership of important alliances and allow us to help shape allied defense capabilities. They underscore our commitment to remain engaged as a stabilizing influence, reinforce our bilateral relations with key partners, alleviate the potential for destabilizing arms races, underwrite deterrence in key regions and strengthen our voice in international forums.

**Readiness.** The readiness of US military forces to meet the full range of missions has never been more important. Ready forces provide the flexibility needed to shape the global environment, deter potential foes and, if required, to rapidly respond to a broad spectrum of crises and threats, including major theater wars. In addition, readiness instills in our people the confidence needed to succeed in a wide variety of challenging situations. Each Service has a different approach to readiness, due to unique force characteristics, contingency plans, response requirements, peacetime forward deployment levels, the availability of training infrastructure and perishable skills. The Services will maintain readiness sufficient to meet the most demanding deployment requirements while seeking sensible management practices that conserve resources and mitigate the potential negative effects of high operational and personnel tempos.

**Capabilities.** As noted throughout this NMS, the US military must have capabilities that give the national leadership a range of viable options for promoting and protecting US interests in peacetime, crisis, and war. The Joint Force must be able to defeat adversaries in two distant, overlapping major theater wars from a posture of global engagement and in the face of WMD and other asymmetric threats. It must respond across the full spectrum of crises, from major combat to humanitarian assistance operations. It must be ready to conduct and sustain multiple, concurrent smaller-scale contingency operations. In addition to these core requirements, US Armed Forces provide the NCA with several equally important capabilities.

**Strategic Deterrence.** Credible standing nuclear and conventional forces cause potential adversaries to consider the consequences of pursuing aggression. Although most nuclear powers continue to reduce their arsenals, our triad of strategic forces serves as a vital hedge against an uncertain future, a guarantor of our security commitments to our allies, and a deterrent to those who would contemplate developing or otherwise acquiring their own nuclear weapons. Strategic nuclear weapons remain the keystone of US deterrent

strategy. A mix of forward deployable non-strategic nuclear and conventional weapons adds credibility to our commitments. Deterrence is further enhanced by the ability of US forces to attack targets even when access to regional bases may not be feasible or assured. Geography and political constraints on access will not restrict our ability to conduct long range, stand-off attacks against a full range of targets in hostile territory. **Decisive Operations.** In situations such as an MTW, the Armed Forces must be able to gain the initiative quickly. Our forces must have the capability to halt an enemy; immediately initiate operations that further reduce his capacity to fight; and mount decisive operations to ensure we defeat him and accomplish our objectives. But wresting military initiative from the enemy is not the end of our commitment. From the onset of a crisis or conflict until termination, our forces must be able to conduct and sustain operations that accomplish US objectives, promote post-conflict stability, and prevent the recurrence of conflict.

**Special Operations.** The range of challenges to our security demands an ability to influence certain events with forces that are smaller and less visible than conventional formations, offering the NCA options that do not entail a major military commitment. Special Operations Forces provide this capability and offer unique skills, tactics, and systems for the execution of unconventional, potentially high-payoff missions.

**Forcible Entry.** The United States must be able to introduce military forces into foreign territory in a non-permissive environment. While the United States will pursue the cooperation of other governments to allow US forces access, it must not assume that such cooperation will always be forthcoming. A forced entry capability ensures that the US will always be able to gain access to seaports, airfields, and other critical facilities that might otherwise be denied. It reassures allies that our ability to come to their aid cannot be denied by an enemy. It also allows future joint force commanders to retain operational freedom of action and gives the United States the ability to go anywhere that US interests require.

**Force Protection.** Multiple layers of protection for US forces and facilities at all levels, beginning at home, enable US forces to maintain freedom of action from predeployment through employment and redeployment. Fluid battlefields and the potential ability of adversaries to orchestrate asymmetric threats against our forces require that we seek every means to protect our forces. Comprehensive force protection requires the employment of a full array of active and passive measures. The variety of challenges that we will face may also require less than lethal technology to meet demands at the lower end of the range of military operations. Force protection initiatives must thus address all aspects of potential threats, to include terrorism, WMD, information operations, and theater ballistic and cruise missiles.

**Countering Weapons of Mass Destruction (WMD).** The continued proliferation of WMD, particularly chemical and biological weapons (CBW), has made their employment by an adversary increasingly likely in both major theater war and smaller-scale contingencies. US forces must have a counterproliferation capability balanced among the requirements to prevent the spread of WMD through engagement activities; detect an adversary's possession and intention to use WMD; destroy WMD before they can be used; deter or counter WMD; protect the force from the effects of WMD through training, detection, equipment, and immunization; and restore areas affected by the employment of WMD through containment, neutralization, and decontamination. Since many operations will be conducted as part of an alliance or coalition, we must encourage our friends and allies to train and equip their forces for effective operations in environments where WMD usage is likely.

**Focused Logistics.** Military operations in today's environment require the ability to tailor logistics packages to meet operational and tactical requirements in hours or days. US forces must have the ability to link information, logistics, and transportation technologies together to permit continuous operations by leaner and more agile forces in any environment, including those contaminated by the effects of NBC agents. Joint sustainment initiatives such as Joint Total Asset Visibility, the Global Transportation Network, and the Global Combat Support System are deployable, automated supply and maintenance information systems that provide in-transit visibility, eliminate redundant requisitions and reduce delays in the shipment of essential supplies. In-transit visibility, in

particular, is key to realizing the benefits of focused logistics. Our efficient use of these systems produces a smaller logistics tail that reduces the burden on transportation systems, requires fewer resources to defend, is more difficult for an enemy to detect and target, and enhances our own mobility.

**Information Operations.** Success in any operation depends on our ability to quickly and accurately integrate critical information and deny the same to an adversary. We must attain information superiority through the conduct of both offensive and defensive information operations. Information operations are, however, more than discrete offensive and defensive actions; they are also the collection and provision of that information to the warfighters. Superiority in these areas will enable commanders to contend with information threats to their forces, including attacks which may originate from outside their area of operations. It also limits an adversary's freedom of action by disabling his critical information systems. We are developing joint doctrine for offensive and defensive information operations that assigns appropriate responsibilities to all agencies and commands for assuring committed forces gain and maintain information superiority. This emerging joint doctrine must fully integrate interagency participation allowing us to leverage all existing information systems.

**Strategic Enablers.** A number of assets - strategic enablers -- are critical to the worldwide application of US military power and our military strategy.

**People.** Our nation is committed to an All-Volunteer Force. Its people are the most important enabler of our strategy. The quality of this force is critical. Only the most dedicated, well-trained personnel with first class leaders will succeed in the complex and fast-paced environment of future military operations. While modern technology enables our forces to perform their missions more effectively, it cannot substitute for high quality people. To recruit and retain people who meet high military standards, the quality of life of our military personnel must be commensurate with the sacrifices we ask them to make. We must provide challenging career options, continual professional development, adequate compensation, medical care, housing, and a stable retirement system. To ensure the viability of the Reserve Components, we must work to safeguard their employment rights and provide employers with incentives for continued support. We must manage the tempo of operations, deployments and personnel transfers to avoid adverse effects on our people and their families. Sustaining core warfighting competencies while adopting new technologies and operational concepts also requires continuous training and education. Finally, the defense of our country and the lives and welfare of our people should be entrusted only to military leaders of honorable character who prove worthy of their profound responsibilities.

**Robust All-Source Intelligence.** A globally vigilant intelligence system that is able to operate in a complex environment with an increasing number of potential opponents and more sophisticated technology is critical. Our Armed Forces require the timely collection, evaluation, and assessment of a full range of geo-political, socio-economic, and military information throughout the full spectrum of conflict. Our intelligence system must be capable of maintaining its global warning capabilities even while focusing on one or more crises. It must overcome increasingly varied means of deception and protect and secure its information channels. It must respond to the warfighters' needs during compressed decision cycles, and accommodate "smart" and "brilliant" weapons systems that pass targeting information directly to weapons platforms. The technical ability to deliver large quantities of intelligence to all levels without overwhelming commanders and leaders has enormous promise. However, quality intelligence remains equally dependent upon subjective human judgment, from collection and processing to production and dissemination.

**Global Command and Control.** Robust intelligence and assured information systems are also critical to the command and control of our forces. Global communications must allow for the timely exchange of information, data, decisions, and orders. The ability to gather, process, and disseminate an uninterrupted flow of reliable and precise information under any conditions is a tremendous strategic and military advantage. A secure C4ISR (Command, Control, Communications, Computers, Intelligence, Surveillance and Reconnaissance) architecture must be designed and developed from the outset for rapid deployment and with joint and multinational interoperability in mind.

**Air and Sea Control.** The successful application of military power is dependent on uninhibited access to air and sea. Control of these mediums allows the United States to project power across great distances, conduct military operations, and protect our interests around the world. Our forces will seek to gain superiority in, and dominance of, these mediums to allow our forces freedom to conduct operations and to protect both military and commercial assets.

**Space Control.** As we will continue to do at sea and in the skies, we will also endeavor to maintain our current technological lead in space as more users develop their commercial and military capabilities. It is becoming increasingly important to guarantee access to and use of space as part of joint operations and to protect US interests. Space control capabilities will ensure freedom of action in space and, if directed, deny such freedom of action to adversaries.

**Strategic Mobility.** Robust strategic sealift, air mobility, and ground transportation combined with prepositioned supplies and equipment ashore and afloat, are critical to maintaining strategic agility. In addition our forces will normally require access to US and overseas support infrastructure to maintain our ability to project power in times of crises. Enroute infrastructure will assist our forces in rapidly establishing and positioning themselves to dominate any situation. Keeping pace with evolving technology in the transportation industry guarantees our mobility forces continued global reach. Strategic mobility enhancements like increased airlift capability, additional prepositioning of heavy equipment afloat and ashore, increased sealift surge capacity, and additional material handling equipment (MHE) will ensure strategic agility and facilitate our ability to protect our national interests and assist our allies when needed.

## **Conclusion**

This *National Military Strategy*, building on the foundation of previous editions, supports the *President's A National Security Strategy for A New Century* and the QDR report. It carries forward the theme that US military power is, and will continue to be, fundamental to ensuring our national security.

The United States will remain the world's only global power for the near-term, but will operate in a strategic environment characterized by rising regional powers, asymmetric challenges including WMD, transnational dangers, and the likelihood of wild cards that cannot be specifically predicted. The dangers we could face can be mitigated by military activities that Shape the strategic environment and Respond to the full spectrum of rises, while Preparing our Armed Forces now for an uncertain future. The force structure described in this document and our overseas presence, combined with our ability to rapidly project combat power anywhere in the world, provides the strategic agility we will require to meet the challenges we are likely to face.

As we pursue the President's strategy for enhancing our security in this new era, the demand for military capabilities and skills is unlikely to diminish, both to deter and defeat aggression in two distant and overlapping MTWs, and in roles other than traditional warfighting. Our Armed Forces' core competence - the ability to apply decisive military power to deter or defeat acts of aggression - must remain the primary consideration in determining the structure, training and employment of our military forces.

We cannot know with certainty who our foes will be or where our forces will be needed in the future. In a time of both uncertainty and promise, this National Military Strategy and our Armed Forces provide our Nation with the means to protect our interests and promote a peace that benefits America and all like-minded nations.

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## In this issue . . .

### GENERAL JOHN M. SHALIKASHVILI'S THOUGHTS

General John M. Shalikashvili provided his views and thoughts on the status of the Armed Forces and the challenges that lie ahead. (See Gen Shalikashvili's remarks at the National Press Club in Washington D.C., 24 September 1997, prior to his retirement on 30 September after 39 years of service.)



General Shalikashvili's Retirement Ceremony

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## 2010 JOINT COMMAND AND CONTROL

*Captain James W. Suhr, USN (Retired)*

"The goal of *Joint Vision 2010 (JV 2010)* is Full Spectrum Dominance for America's armed forces. Full Spectrum Dominance will be the ability to dominate any adversary and control any situation in any operation across the range of military operations. Technological innovation is a key enabler and is central to the ability to achieve Full Spectrum Dominance. We need to ensure, however, that we retain our focus on the human dimension of Full Spectrum Dominance and keep technology in its proper place as an enabler. In no area is this more important than in Command and Control (C2). C2 will be enabled by new technologies, but will always have a human element that is worthy of study and discussion. 2010 C2 is not just about systems and technology."

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## THE TIME HAS COME TO LEAP INTO THE FUTURE

*Remarks by Secretary of Defense William S. Cohen*

To the Brookings Institution Board of Trustees, Washington, May 12, 1997.

" Let me begin by describing a certain pivot point in history. It is a time of daunting security challenges both at home and abroad. In Europe, the United States proposes a bold plan to advance democracy, free markets and shared security across a divided continent, and we struggle with how Russia would fit into this plan." .....

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## **INVESTING IN HIGH-PAYOFF TECHNOLOGY, CONCEPTS**

*Remarks by Dir of DRPA, Larry Lynn*

Prepared remarks by Larry Lynn, director, Defense Advanced Research Projects Agency (DARPA), to the Acquisition and Technology Subcommittee, Senate Armed Services Committee, March 11, 1997. Discusses DARPA's approach, strategies, and FY [fiscal year] 1998 plans and to brief you on some of our recent accomplishments. It is the central research and development organization of the Department of Defense. Its primary responsibility is to maintain U.S. technological superiority over potential adversaries.

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## **JOINT VISION 2010: THE ROAD AHEAD**

*Col Wayne M. Gibbons, USMC (Ret.)*

" As we move toward the 21st century, the road ahead is filled with diverse challenges for our nation and, in particular, its armed forces. The period leading up to the year 2010, especially, will be an era of significant and dynamic change, marked by potential new roles, rapid technological advances and constrained resources. In July 1996, as a first step in preparing our Armed Forces to meet the challenges of this uncertain and challenging period ahead, the Chairman of the Joint Chiefs of Staff issued Joint Vision(JV) 2010 that centered on future joint warfighting." .....

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## **BRAVE NEW WORLD: KNOWLEDGED BASED OPERATIONS**

*Lt Col David C. Mock , USA (Ret.)*

*Lt Col Stanley C. Davis, USA (Ret.)*

"Victory in the Cold War ended nearly a half century in which the preeminent strategic focus of the United States was on potential conflict with a single, well defined opponent. Likewise, it signaled the end of a somewhat stable if not calculable operational environment. In its place, if our recent history provides us with a discernible pattern of operations, is a new strategic setting and an array of operational environments. Now we must be capable of executing a full range of missions within a wide variety of contingencies and conditions in a world of complex and unclear threats. " .....

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## **COMPARING AND CONTRASTING GLOBAL ENGAGEMENT AND JOINT VISION 2010**

*Col Phil Comstock, US Air Force, (Ret.)*

*Col Ron Mayer, US Air Force, Ret*

**"In June 1996, the Chairman of the Joint Chiefs of Staff released his "vision of the future" for the joint forces in Joint Vision 2010. This was followed shortly thereafter by the Secretary of the Air Force and the Air Force Chief of Staff releasing Global Engagement, their vision of the future for the first quarter of the 21st Century. How do these two visions match up? Are they consistent? Do they mesh? Should they? These and other questions are examined in this article." .....**

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## **PREPARING FOR THE 21ST CENTURY**

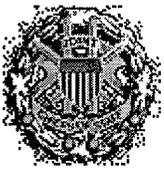
*Paul Van Riper & Robert H. Scales, Jr.*

© 1997 United States Strategic Institute. Reprinted with permission from *Strategic Review*, Summer 1997 and *Parameters*, Autumn 1997, pp. 4-14.

**"The US government has now embarked on its third major reassessment of current and future military requirements since the end of the Cold War. Given the lead-time involved in making any significant change in the nation's defense posture, the results of this review are likely to influence American military capabilities well into the next century. That's all the more reason to insist that any such reexamination of America's military requirements should reflect a clear understanding of the likely character of future war. Thus we are troubled by recent claims that technological supremacy will allow the United States in the future to abjure the use of ground combat forces in favor of delivering advanced precision weaponry from platforms remote from conflict areas." .....**



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# CONCEPTS

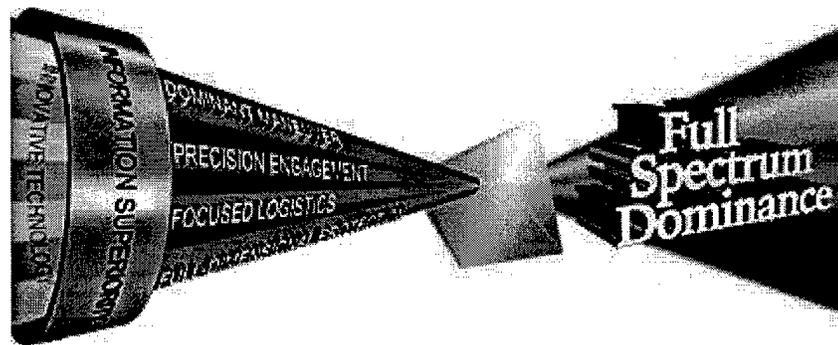
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## Joint Vision 2010 Promotes a Common View of the Future

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Four key ideas, dominant maneuver, precision engagement, focused logistics, and full-dimensional protection, concentrated through the lens of information superiority and enhanced by innovative technology, will enable us to dominate the full range of military operations.



To achieve such full spectrum dominance, new warfighting concepts will be developed that amplify and expand those key ideas. Concomitantly, strategic guidance will assure that the services and CINCs are moving in a common direction.

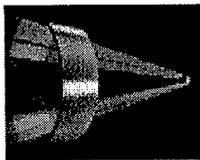
The new concepts will undergo an iterative assessment process by means of modeling, simulations, exercises, wargames, seminars; and in service and joint schools, as well as during military operations. This assessment process will result in refinement of the concepts and provide the basis for service leaders to determine necessary changes. The changes will be implemented through existing planning processes, doctrine development, and training and education systems.

In this way, the vision coalesces into new capabilities; capabilities that will allow the US military to achieve and sustain full spectrum dominance. Start with the link below for a guided tour of the concepts behind Joint Vision 2010.

### Innovative Technology

*Full Spectrum* is a publication of the  
Joint Warfighting Center, Fort Monroe, VA.  
It is a part of the Joint Vision 2010  
program of the Chairman of the Joint Chiefs of Staff.





# Dominant Maneuver

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Dominant Maneuver (DM) is the multi-dimensional application of information, engagement, and mobility capabilities to position and employ widely dispersed joint air, sea, land, and space forces to accomplish the assigned tasks.

At the JV 2010 Coordinating Authority (CAs) Integrating Conference held 21-23 October 1997 at the JWFC, the Joint Staff Coordinating Authorities with representation from the CINCs and Services reviewed some of the Dominant Maneuver Challenges we will face in the 21st Century -- A security challenge relevant to the future environment which serves as a compelling rationale for investigating desired operational capabilities (DOCs).

## CHALLENGES

- Rapid Joint Force Projection
- Battlespace Control
- Joint Forced Entry
- Weapons of Mass Destruction
- Coalition Warfare
- Post-hostilities (new challenge added to the list - 24 Oct)

The CAs are also reviewing "Postulates" to help explore their 2010 Challenges. Postulates are "if-then" statements that relate to core tasks and desired operational capabilities into 21st Century Challenges. An example for FDP follows:

### D M Challenge - Rapid Joint Force Projection

## POSTULATE

**IF** we can provide the CINC/CJTF with --

- Versatile, rapid force projection assets (air, land, sea)
- Strategic / operational interior lines of communications
- CONUS-to-combat lethality (or point of need)
- Sustainable force

**THEN** we can --

- Execute rapid deployment worldwide across the spectrum of operations
- Reduce halt / buildup phase
- Quickly occupy the battlespace - seize control of events
- Gain positional advantage vs. adversaries

We continue to refine the Core Tasks (A Core Task -- Describes what the Joint Force Commander must be able to accomplish and consists of a logical grouping of desired Operational Capabilities (DOCs). A DOC is a concept based statement of ways and means to satisfy the Joint Force Commander's Core Tasks stated in terms of subordinate tasks, conditions, and criteria for measurement.) The DOCs will be identified in an iterative process.

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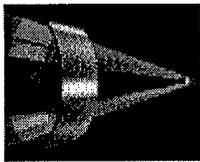
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# JV 2010 Precision Engagement

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Precision Engagement consists of a system of systems that enables our forces to accurately locate the objective or target, provide responsive command and control, generate the desired effect, assess our level of success, and retain the flexibility to reengage with precision when required. At the recently held JV 2010 Coordinating Authority Integration Conference held 21-23 October 1997 at the JWFC, the Joint Staff Coordinating Authorities and, with representation from the CINC's and Services reviewed some of the Precision Engagement Challenges we will face in the 21st Century. (A 21st Century Challenge -- A security challenge relevant to the future environment which serves as a compelling rationale for investigating desired operational capabilities.)

## CHALLENGES

- Integrating precision effects
- Mobile targets
- Counter WMD operations
- Hard and deeply buried targets
- Command and control warfare
- Non-traditional interdiction
- Flexible deterrence options
- Non-lethal
- Fire support
- Psyops
- Peace Operations

The CAs are also reviewing "Postulates" to help explore their 2010 Challenges. Postulates are "if-then" statements that relate to core tasks and desired operational capabilities into 21st Century Challenges. An example for P E follows:

### P E CHALLENGE - INTEGRATING PRECISION EFFECTS

Currently ISR, C2, and firepower limitations bound U.S. forces to concentrate massed, physical combat power to meet CINC/CJTF objectives

## POSTULATE

**IF** we can provide the CINC/CJTF with --

- Timely and accurate detection, location, location, ID and track of relevant objectives and targets
- Seamless, near-real-time command and control systems
- Agile and responsive forces capable of multidimensional engagement to achieve desired effects
- And timely and accurate combat assessment and reengagement capabilities

**THEN** we can --

- Rapidly set conditions for decisive operations with the integrated application of precision effects to shape the battlespace.
- Employ effects with agility across the battlespace
- Employ effects with agility across the battlespace and time, unconstrained by arbitrary procedures

- Avoid fratricide and collateral damage
- Blend individual firepower systems into well-integrated mass effects

We continue to refine the Core Tasks (A Core Task -- Describes what the Joint Force Commander must be able to accomplish and consists of a logical grouping of desired Operational Capabilities (DOCs). A DOC is a concept based statement of ways and means to satisfy the Joint Force Commander's Core Tasks stated in terms of subordinate tasks, conditions, and criteria for measurement.) The DOCs will be identified in an iterative process.

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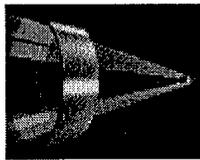
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# Focused Logistics

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Focused Logistics (FL) is the fusion of information, logistics, and transportation technologies to provide rapid crisis response, to track and shift assets even while enroute, and deliver tailored logistics packages and sustainment directly at the strategic, operational, and tactical level of operations.

At the JV 2010 Coordinating Authority (As) Integrating Conference held 21-23 October 1997 at the JWFC, the Joint Staff Coordinating Authorities with representation from the Cinches and Services reviewed some of the Focused Logistics Challenges we will face in the 21st Century -- A security challenge relevant to the future environment which serves as a compelling rationale for investigating desired operational capabilities (Docks).

## CHALLENGES

- Information Fusion
- Joint Deployment/Rapid Distribution
- Joint Theater Logistics Command and Control
- Joint Health Services Support
- Multinational Logistics
- Agile Infrastructure

The CAs are also reviewing "Postulates" to help explore their 2010 Challenges. Postulates are "if-then" statements that relate to core tasks and desired operational capabilities into 21st Century Challenges. An example for FL follows:

### FDP CHALLENGE - Information Fusion

## POSTULATE

**IF** we can provide the CINC/CJTF with --

- The ability to allow any user "one box" support by a single net with common network services, to see one picture
- A secure robust communications infrastructure operating in an intranet /internet environment that allows all authorized users access to shared data and applications, regardless of location, and
- Advanced decision support tools fuse asset visibility, operational awareness, and commanders intent into executable logistical support options.

**THEN** we can --

- Implement an information architecture to:
  - Have near real-time command and control of the logistics pipeline,
  - See one fused picture of combat support to the warfighter,
  - Maintain a close link between command and control and combat, support during critical execution of an operation, and
  - Establish a means to leverage information technology to meet the other 21st Century Challenges of Focused Logistics.

We continue to refine the Core Tasks (A Core Task -- Describes what the Joint Force Commander must be able to accomplish and consists of a logical grouping of desired Operational Capabilities (DOCs). A DOC is a concept based statement of ways and means

to satisfy the Joint Force Commander's Core Tasks stated in terms of subordinate tasks, conditions, and criteria for measurement.) The DOCs will be identified in an iterative process.

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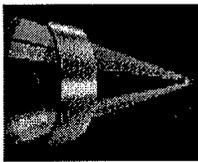
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# Full Dimensional Protection

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**Full Dimensional Protection (FDP) is the multi-layered offensive and defensive capability to better protect our forces and facilities at all levels from adversary attacks while maintaining freedom of action during deployment, maneuver, and engagements.**

**At the JV 2010 Coordinating Authority (CAs) Integrating Conference held 21-23 October 1997 at the JWFC, the Joint Staff Coordinating Authorities with representation from the CINCs and Services reviewed some of the Full Dimensional Protection Challenges we will face in the 21st Century -- A security challenge relevant to the future environment which serves as a compelling rationale for investigating desired operational capabilities (DOCs).**

## CHALLENGES

- Missile Defense (theater and national)
- Combating Terrorism
- Combat Identification
- Defensive Information Operations/Information Assurance
- Protection Against NBC Attacks

The CAs are also reviewing "Postulates" to help explore their 2010 Challenges. Postulates are "if-then" statements that relate to core tasks and desired operational capabilities into 21st Century Challenges. An example for FDP follows:

### FDP CHALLENGE - Missile Defense (Theater and National)

## POSTULATE

**IF** we can provide the CINC/CJTF with --

- Improve surveillance and queuing, robust joint battle management, effective anti-missile weapons and high capacity data links

**THEN** THEN we can --

- Achieve joint protective coverage with service weapons
  - Defense in depth
- Reduce our vulnerability in early stages of conflict, permit rapid force buildup
- Deter attacks and reassure friendly countries threatened by regional powers

We continue to refine the Core Tasks (A Core Task -- Describes what the Joint Force Commander must be able to accomplish and consists of a logical grouping of desired Operational Capabilities (DOCs). A DOC is a concept based statement of ways and means to satisfy the Joint Force Commander's Core Tasks stated in terms of subordinate tasks, conditions, and criteria for measurement.) The DOCs will be identified in an iterative process.

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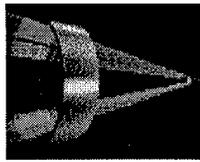
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# Information Superiority

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**Information Superiority (IS) is the capability to collect, process, and disseminate an uninterrupted flow of information while exploiting or denying an adversary's ability to do the same.**

**At the JV 2010 Coordinating Authority (CAs) Integrating Conference held 21-23 October 1997 at the JWFC, the Joint Staff Coordinating Authorities with representation from the CINCs and Services reviewed some of the Information Superiority Challenges we will face in the 21st Century -- A security challenge relevant to the future environment which serves as a compelling rationale for investigating desired operational capabilities (DOCs).**

## CHALLENGES

- Information Transport and Processing
- Battlespace Awareness
- Information Engagement

The CAs are also reviewing "Postulates" to help explore their 2010 Challenges. Postulates are "if-then" statements that relate to core tasks and desired operational capabilities into 21st Century Challenges. An example for IS follows:

### IS CHALLENGE - Information Transport and Processing

## POSTULATE

**IF** we can provide the CINC/CJTF with --

- The ability to perform superior information processing and transport

**THEN** we can --

- Meet a condition required to develop superior battlespace awareness and to dominate the enemy.

We continue to refine the Core Tasks (A Core Task -- Describes what the Joint Force Commander must be able to accomplish and consists of a logical grouping of desired Operational Capabilities (DOCs). A DOC is a concept based statement of ways and means to satisfy the Joint Force Commander's Core Tasks stated in terms of subordinate tasks, conditions, and criteria for measurement.) The DOCs will be identified in an iterative process.

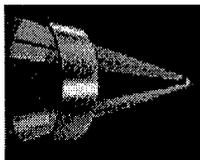
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# Innovative Technology:

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## Accelerating Technological Change Makes This an Era of Great Opportunities and Dangers

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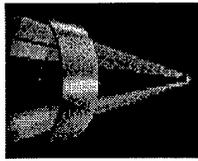
Successful adaptation of new technologies may greatly increase specific capabilities, but failure to adapt carries the risk that we may be unable to operate effectively against high tech forces. Advances to expect include:

- Long range, precision weapons will be a key factor by increasing the combat power available for use against selected objectives.
- A broader range of weapons effects, such as hard-target, sensor-fuzed, and directed energy weapons, will allow more discrete, precise and efficient targeting.
- Stealth will improve the ability to accomplish surprise and reduce overall force requirements.
- Detection of enemy targets will be made easier by multispectral sensing, automated target recognition, and other advances.
- Advances in computer processing, precise global positioning, and telecommunications will give accurate locations of friendly and enemy forces as well as collecting, processing, and distributing data to thousands of locations.

Adapting to the increasingly lethal battlespace is likely to require increased stealth, mobility, and dispersion, as well as a higher tempo of operations. Fortunately, the technology for improved communication and coordination among lower echelon units is at hand.

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# Full Spectrum Dominance

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Full Spectrum Dominance (FSD) is the ability to dominate and adversary and control any situation across the range of military operations.

At the JV 2010 Coordinating Authority (CAs) Integrating Conference held 21-23 October 1997 at the JWFC, the Joint Staff Coordinating Authorities with representation from the CINCs and Services reviewed some of the Full Spectrum Dominance Challenges we will face in the 21st Century -- A security challenge relevant to the future environment which serves as a compelling rationale for investigating desired operational capabilities (DOCs).

## CHALLENGES

- Shape the Environment (to deal with matters not covered under other CA's challenges.)
- Seamless Operations (to work relationships between various agencies, the NCA, and other organizations, such as multi-national, private, and international.)

The CAs are also reviewing "Postulates" to help explore their 2010 Challenges. Postulates are "if-then" statements that relate to core tasks and desired operational capabilities into 21st Century Challenges. An example for FSD follows:

### FSD CHALLENGE - SHAPE THE ENVIRONMENT

Establish Conditions for the Conduct and Success of Military Operations

## POSTULATE

**IF** we can provide the CINC/CJTF with --

- Optimal balance between overseas presence and power projection capabilities
- Global, immediate response capability
- Agile and responsive force capable of full spectrum operations
- Fully integrated space power, land, sea, and air operations across the full range of military operations

**THEN** we can --

- Establish the prerequisite conditions to be successful across the full range of military operations dominate the enemy.
- Reduce the frequency and need for military operations

We continue to refine the Core Tasks (A Core Task -- Describes what the Joint Force Commander must be able to accomplish and consists of a logical grouping of desired Operational Capabilities (DOCs). A DOC is a concept based statement of ways and means to satisfy the Joint Force Commander's Core Tasks stated in terms of subordinate tasks, conditions, and criteria for measurement.) The DOCs will be identified in an iterative process.

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## Joint Vision 2010 focuses the strengths of each individual Service on operational concepts that achieve Full Spectrum Dominance.

Despite flat budgets and increasing costs, the American people continue to expect us to win any engagement. We must wring every ounce of capability from every source through seamless of integration of service capabilities.

We must carefully examine the traditional criteria governing span of control and organizational layers for the Services, commands, and Defense agencies. We must develop organizations and processes agile enough to exploit emerging technologies and respond to diverse threats. Organizational flexibility must be increased to enhance our responsiveness, with less startup time between deployment and employment.

In 2010, we will meet these responsibilities with high quality people and leaders who are trained, equipped, and ready for joint operations.



Army Vision 2010 is the blueprint for the Army's contributions to the operational concepts identified in Joint Vision 2010. Global Engagement presents the Air Force vision into the first quarter of the 21<sup>st</sup> Century. Forward ... From the Sea updates and expands the strategic concept intended to carry the Naval Service beyond the Cold War and into the 21<sup>st</sup> Century. Operational Maneuver from the Sea is the Marine Corps's concept for the projection of naval power ashore.

*Full Spectrum* is a publication of the  
Joint Warfighting Center, Fort Monroe, VA.  
It is a part of the Joint Vision 2010  
program of the Chairman of the Joint Chiefs of Staff.





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## Downloads

Acrobat Reader 3.0 software from Adobe Systems Incorporated is required to view downloadable publications. **Important note: Due to the large file size of the Purple Book and the CFJO, we recommend that you download the files before opening them in Acrobat Reader. Right click on the link and select "Save Link As..." (Netscape) or "Save Target As..." (Internet Explorer) to download the file. Be sure to note where your system saves the file. Then start Acrobat Reader and open the file (Ctrl-O).**

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The "**Purple Book**" describes the Joint Vision 2010 conceptual template for how America's Armed Forces will channel the vitality of our people and leverage technological opportunities to achieve new levels of effectiveness in joint warfighting. (.pdf, 1712K)

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The *Concept for Future Joint Operations* (.pdf, 3625K) expands the new operational concepts and other ideas contained in Joint Vision 2010 to provide a more detailed intellectual foundation for follow-on assessment activities. As the assessment process matures and the community's thoughts continue to evolve, we will modify the concept accordingly so that the the CFJO becomes a living document — a marketplace of ideas to help us think about future operations. The continued involvement of the joint community in exploring these ideas is essential to ensure that we have the best conceptual foundation for the assessment process.

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The Joint Vision 2010 brochure summarizes the four new operational concepts and the service visions. (.pdf, 340K)

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## Links



The Quadrennial Defense Review is a very close and thorough examination of our entire defense structure.

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Joint Doctrine establishes the foundation of our ability as a joint team to fight and win the nation's wars. Commanders must understand and apply joint doctrine as they prepare, train and lead the men and women of America's Armed Forces. This Web Site was designed to make joint doctrine more accessible and to foster debate on doctrinal issues. It includes information on the Joint Vision 2010 program of the Chairman of the Joint Chiefs of Staff.

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DefenseLINK is the official World Wide Web Information Service of the Department of Defense. Within DefenseLINK, Defense Issues is a source of important speeches, DefenseLINK News contains current Defense Public Affairs press releases and maintains a searchable historical database of previous releases. DefenseLINK Publications, popular information resources published by the Department of Defense. They contain information about the department itself and about the issues and guidance important to the department.

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The Joint Warfare System will be a state-of-the-art, closed-form, constructive simulation of multi-sided, joint warfare for analysis. Users of JWARS will include the Combatant Commanders, Joint Staff, Services, Office of the Secretary of Defense (OSD), and other DoD organizations.

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The Institute for National Strategic Studies was established in July 1984 as an interdisciplinary research institute staffed by senior civilian and military analysts from all four Services. The Director of INSS reports through the President of the National Defense University to the Chairman and Vice Chairman of the Joint Chiefs of Staff, to the Secretary and Deputy Secretary of Defense, and to the Commanders-in-Chief of the Unified Commands.

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The Advanced Warfighting Working Group is an experimental entity organized by the virtual management model; the purpose of the group is to intellectually explore future warfare issues and the environment within which military operations will be conducted.

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The purpose of the Institute for the Advanced Study of Information Warfare ( a virtual nongovernmental organization) is to facilitate an understanding of information warfare with reference to both military and civilian life.

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Information security specialists Global Information Technology, Inc., provide a collection of recent Information Warfare Documents as a public service.

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The Strategic Studies Institute is the strategic level study agent for the Deputy Chief of Staff for Operations and Plans, Department of the Army. SSI's mission is to use independent analysis to conduct strategic studies that develop policy recommendations. Its research is concentrated in the strategic environment, national security strategy and national military strategy, strategic planning, and long-range planning, concentrating on the role of the U.S. Army today and in the world's strategic environment 10 to 20 years in the future.

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Parameters, the US Army War College Quarterly is a refereed journal of ideas and issues, providing a forum for mature professional thought on the art and science of land warfare, joint and combined matters, national and international security affairs, military strategy, military leadership and management, military history, military ethics, and other topics of significant and current interest to the US Army and the Department of Defense. It serves as a vehicle for continuing the education and professional development of USAWC graduates and other senior military officers, as well as members of government and academia concerned with national security affairs.

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There are six US Army Battle Labs. The program began in May 1992 to focus the doctrine, training, leader development, organization design, materiel and soldier systems efforts of Training and Doctrine Command on battlefield dynamics.

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Training and Doctrine Command (TRADOC) is leading the U.S. Army from a Cold War army to a smaller, tailored, modernized, more lethal army. TRADOC is now a partner in building the Army of the 21st Century — Force XXI. In order to do that, TRADOC will transform itself to TRADOC XXI.

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Air Power Journal is the professional journal of the United States Air Force. It is designed to serve as an open forum for the presentation and stimulation of innovative thinking on military doctrine, strategy, tactics, force structure, readiness, and other matters of national defense. Many Airpower Journal feature articles, past and present, are available.

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The New World Vistas is the latest study of the USAF Scientific Advisory Board under their mission to "search for the most advanced air and space ideas and project them into the future." It contains recommendations and guidance that address technologies and concepts for the future Air Force.

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Project Air Force is a division of RAND, an independent, nonprofit organization devoted to research and analysis of matters affecting national security and the public welfare of the United States. The mission of PAF is to conduct an integrated program of objective analysis on issues of enduring concern to the leaders of the Air Force. It is operated under a single contract between the Air Force and RAND.

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Air force 2025 looks into the future to identify the concepts, capabilities and technologies the United States will require to remain the dominant air and space force in the 21st century.

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The Naval War College Press a department of the Center for Naval Warfare Studies, publishes a variety of works, including one of the leading quarterly journals on international security, defense, and naval matters, the Naval War College Review. The Review, listed as "the government publication most frequently cited in the area of foreign affairs" by the 1993 Educational Rankings Annual, makes current thought on naval matters available to policy makers and a broad international readership. In addition, the Press publishes a monograph series, The Newport Papers, examining topics and pertinent issues in international, military, and naval affairs. The Press also periodically publishes books, especially works based on the Naval War College Library Historical Collection

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Strategic Studies Group Innovation Homepage. Chartered by the Chief of Naval Operations to develop and exploit innovative ideas, concepts and technologies that will carry the Navy successfully into the future. This homepage is part of an outreach effort designed to inculcate a culture of innovation within the Navy.

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Naval Doctrine Command is the authority for over-arching naval warfighting concepts directly affecting how the premier naval forces of the 21st century train, equip, and fight. It is the recognized authority for the creation, review, and evaluation of high quality naval concepts and doctrine.

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The Joint Force Quarterly is published for the CJCS by the Institute for National Strategic Studies, NDU, to promote understanding of the integrated employment of land, sea, air space, and special operations forces. The journal focuses on joint doctrine, coalition warfare, contingency planning, combat operations conducted by the unified commands, and joint force development.

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Help us out! Please let us know of any additional links that would be useful to students of joint operations. We'll check them out and add them to this list.

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Joint Warfighting Center, Fort Monroe, VA.  
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program of the Chairman of the Joint Chiefs of Staff.



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