



### DoD Maintenance FACT BOOK

The Fact Book's cover shows the two sides of the coin of the Office for the Deputy Assistant Secretary of Defense for Maintenance. The bottom view, the reverse side of the coin, is a representation of the phoenix, the symbol shared by the award of the same name that is presented annually to the top field-level maintenance unit. The iconic phoenix is surrounded by the seals for the Joint Staff, Army, Navy, Air Force, and Marine Corps.



#### OFFICE OF THE ASSISTANT SECRETARY OF DEFENSE (LOGISTICS AND MATERIEL READINESS) 3500 DEFENSE PENTAGON WASHINGTON DC 20301-3500

DoD maintenance consumes a considerable amount of the total DoD resource allocation—about \$83.7 billion in FY2010.

It required the combined effort of approximately 657,000 military and civilian maintainers and thousands of commercial firms—all devoted to the maintenance of roughly 13,900 aircraft, 800 strategic missiles, 350,000 ground combat and tactical vehicles, 283 ships, and myriad other DoD weapon systems to maintain strategic materiel readiness.

The *DoD Maintenance Fact Book* contains a broad range of information about DoD maintenance capabilities and programs that span major depots and shipyards as well as intermediate- and organizational-level units throughout the world.

This 2011 Fact Book also identifies the winners of the 2010 Phoenix Award and 2011 Secretary of Defense field-level maintenance awards, and the current and past winners of the Robert T. Mason Award for Depot Maintenance Excellence.

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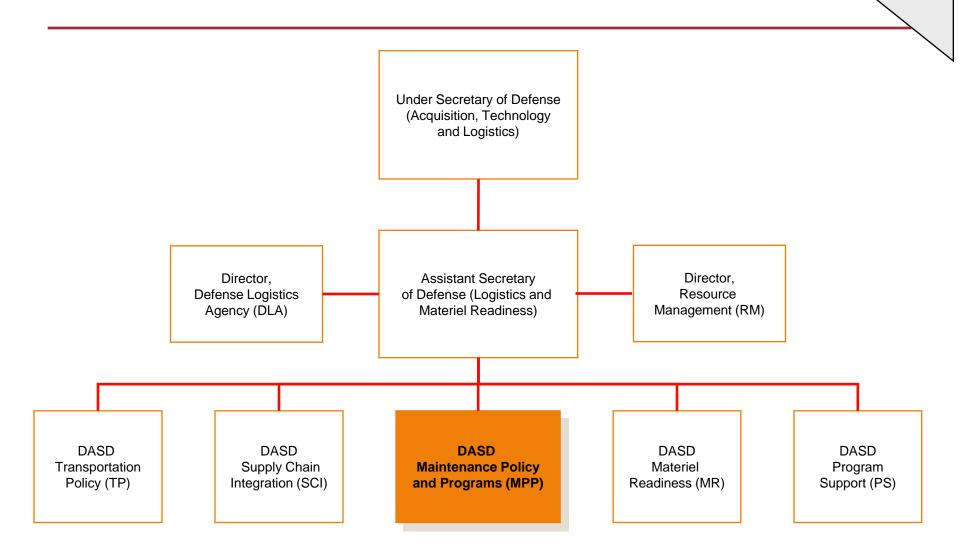
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### **OSD Logistics Organization**

Overview.



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### **OSD Maintenance Mission Statement**

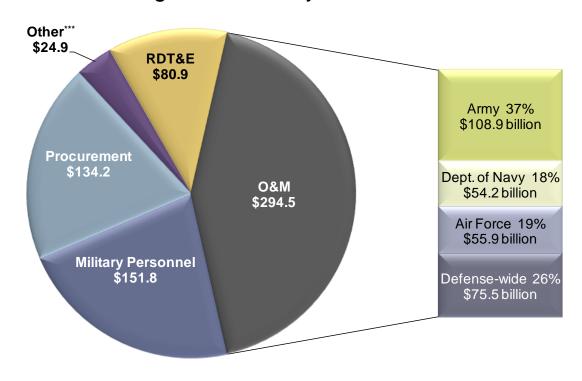
#### The Deputy Assistant Secretary of Defense for Maintenance

- serves as the principal advisor for policies and procedures for maintenance support of major weapon systems and military equipment;
- provides the functional expertise for centralized maintenance policy and management oversight for all weapon systems, military equipment maintenance programs, and related resources within the Department of Defense; and
- establishes and maintains materiel maintenance policies and programs that are managerially and technologically sound and adequately resourced to maintain the desired levels of weapon system and military equipment readiness to accomplish the Department's missions.

# FY2011 Funding for the Department of Defense\*

Overview

Total obligation authority: \$686.3 billion\*\*



- \* Based on FY2011 Continuing Resolution for the Department of Defense
- \*\* Includes Base and Overseas Contingency Operations (\$159 billion) Continuing Resolution as of the February 2011 President's Budget Request
- \*\*\* Includes military construction, family housing, and revolving and management funds

# Systems Supported by DoD Maintenance

39,000 Combat Vehicles

800 Strategic Missiles









283 Ships

13,900 Aircraft

- + 311,000 tactical vehicles
- + Communications/electronics equipment
- + Support equipment
- + Other systems

#### Maintained by:

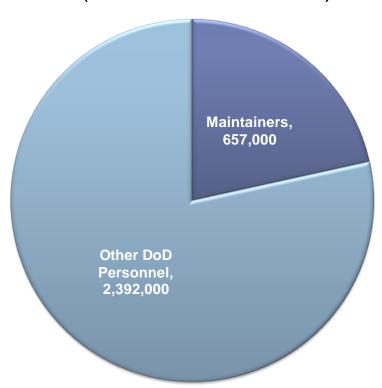
- 657,000 DoD personnel
- Private-sector companies

Maintenance cost: \$83.7 billion

### Scope of DoD Maintenance—FY2010

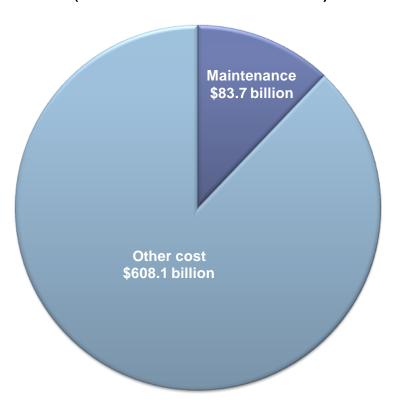
Maintenance Overview

DoD Personnel (Total = 3.049 million)



22% maintainers

DoD actual spending (Total = \$691.8 billion)



12% spent on maintenance

### Levels of DoD Maintenance







Field

Organizational Intermediate

**Depot** 

Increasing volume of maintenance

More frequent tasks that require less facilitization and skills

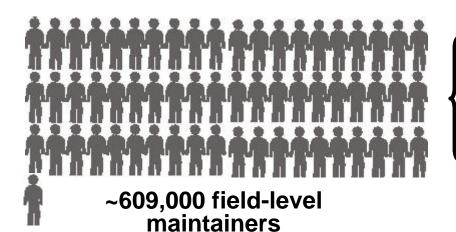
Less frequent tasks that require more facilitization and skills

Increasing *complexity* of maintenance

### Personnel Strength

of Field- and Depot-Level Maintenance

Waintenance Workforce



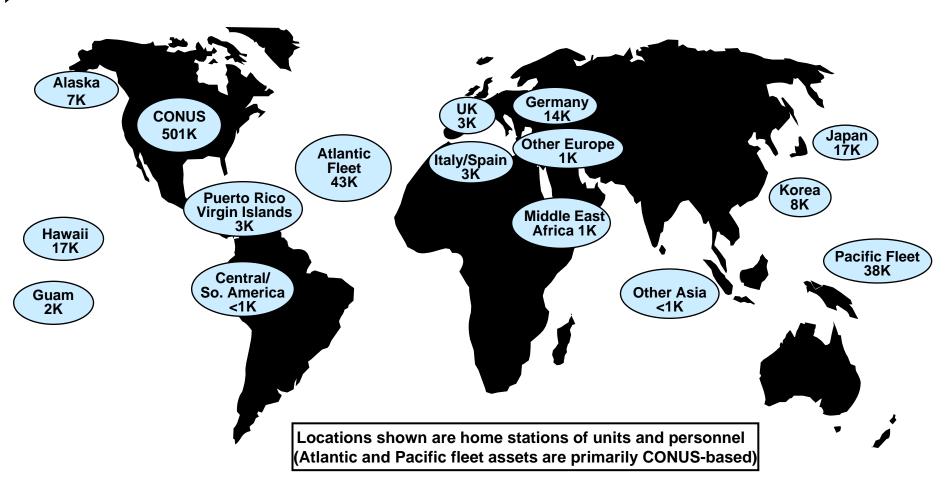
Includes approximately 29,000
National Guard technicians,
6,000 Reserve technicians, and
49,000 other civilian maintainers.



~80,000 depot-level personnel

Includes approximately 32,000 engineers, scientists, analysts, supply specialists, and other civilian non-maintainers essential to maintenance production.

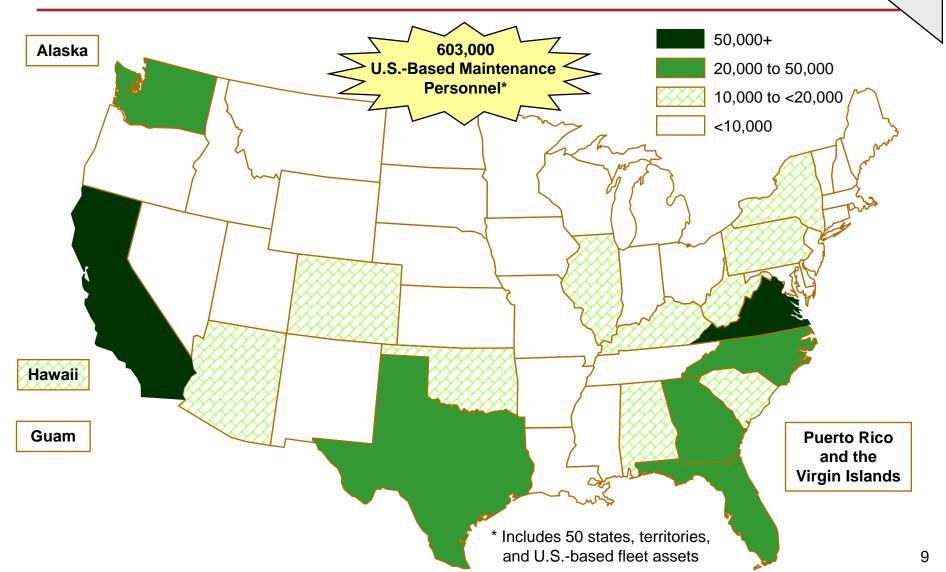
## DoD Maintainers Worldwide



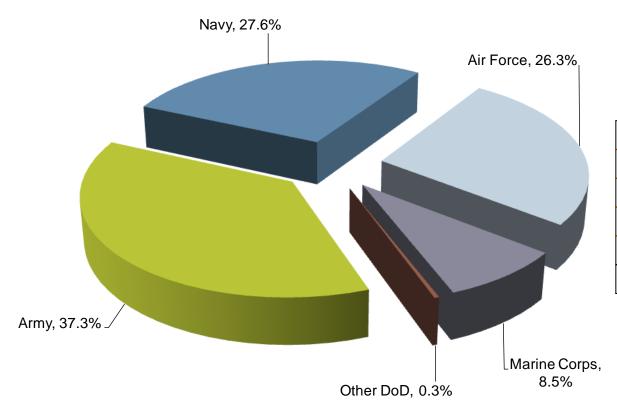
Numbers shown are approximate

# DoD Maintainers by State and Territory





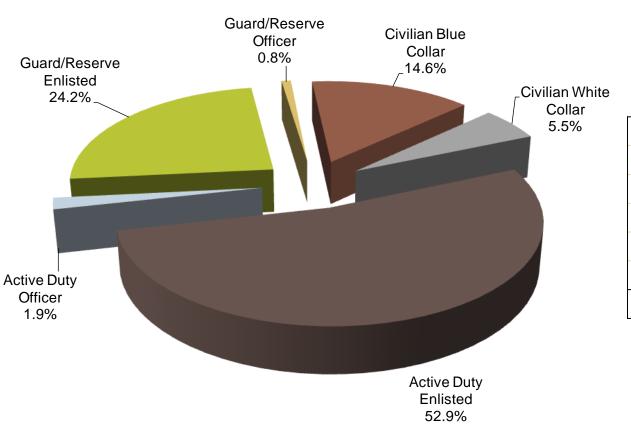
# DoD Maintainers by Military Service



Army	245,000
Navy	181,000
Air Force	173,000
Marine Corps	56,000
Other DoD	2,000
Total DoD Maintainers	657,000

# DoD Maintainers by Personnel Category

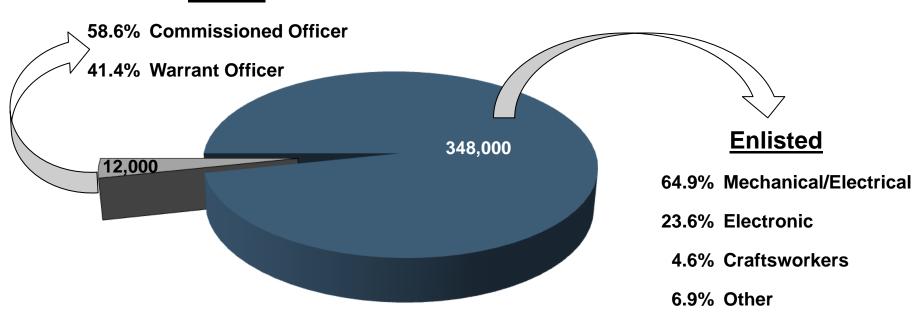
Maintenance Workforce



Active Duty Enlisted	348,000
Active Duty Officer	12,000
Guard/Reserve Enlisted	159,000
Guard/Reserve Officer	6,000
Civilian Blue Collar	96,000
Civilian White Collar	36,000
Total DoD Maintainers	657,000

### Active Duty Maintainers

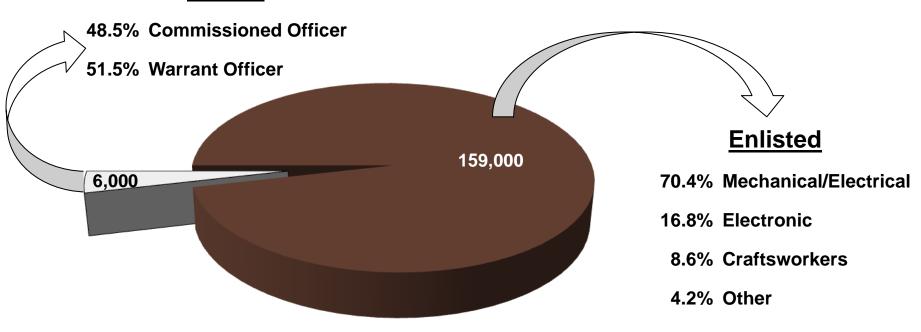
#### **Officer**



### National Guard and Reserve Maintainers

Maintenance Workforce

#### **Officer**

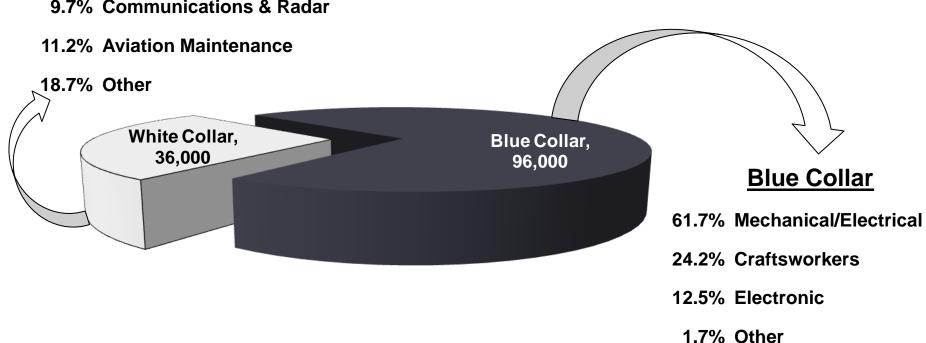


### DoD Civilian **Maintainers**

#### **White Collar**



- **17.4% Production Management** 
  - 9.7% Communications & Radar



# Major Intermediate Maintenance Activities, Active Component

Maintenance

#### Army

- 51 aviation maintenance companies
- 263 ground maintenance companies
- 1 watercraft maintenance company

#### Navy

- 12 shore-based aircraft intermediate maintenance departments (AIMDs) located within 6 fleet readiness centers (FRCs)
- 6 shore-based overseas AIMDs
- 21 shipboard AIMDs
- 8 ship/submarine intermediate maintenance activities (IMAs)

#### Air Force

60 aircraft, missile, and munitions maintenance groups (MXGs)

#### Marine Corps

- 11 marine aviation logistics squadrons (MALSs)
- 3 maintenance battalions



### Major Intermediate Maintenance Activities, Reserve Components

#### Army National Guard

- Maintenance companies: 31 aviation, 233 ground
- Approximately 15,500 civilian maintainers primarily assigned to field maintenance shops, training equipment set sites, and aviation support facilities in each state or territory
- 4 aviation classification and repair depots (AVCRADs)

#### Army Reserve

- Maintenance companies: 3 aviation, 39 ground, 1 watercraft
- Approximately 3,000 civilian maintainers assigned across the four regional support commands, working primarily at dispersed equipment concentration sites (ECSs), or area maintenance support activity (AMSA) locations.
- Navy Reserve 4 shore-based AIMDs
- Air National Guard/Air Force Reserve
  - 116 aircraft, missile, and munitions MXGs.
- Marine Corps Reserve
  - 3 MALSs
  - 1 maintenance battalion

# Major Depot-Level Activities by Location





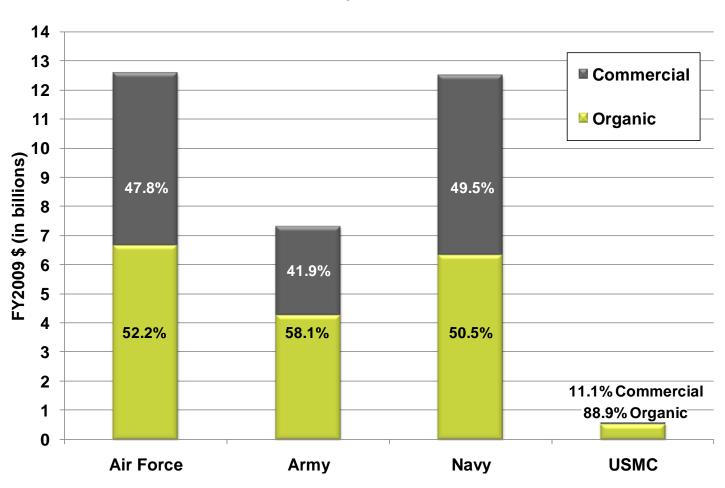
### Depot-Level Maintenance

# Major Depot-Level Activities by Category

- Shipyard Navy (4)
- Vehicle and Armament
  - Army (2)
  - Marine Corps (2)
- Aviation
  - Army (1)
  - Navy (3)
  - Air Force (3)
- Missile Army (1)
- Communications and Electronics Army (1)

# Organic-Commercial Mix of DoD's Depot Maintenance Workload

DoD-wide: 53.7% Organic and 46.3% Commercial





#### 2010 Phoenix Award Winner

The Highest Award for Field-Level Maintenance in DoD

Winner:

Marine Aviation Logistics Squadron 40, 2<sup>nd</sup> Marine Aircraft Wing Marine Corps Air Station Cherry Point United States Marine Corps

While deployed to Afghanistan, MALS-40 supported the 2<sup>nd</sup> Marine Expeditionary Brigade:



- Provided intermediate-level maintenance, supply, and ordnance support at 3 operating bases for 79 aircraft from 14 tactical squadrons
- Inside 177 mobile maintenance facilities, sustained aviation repair capabilities for 271 systems with 350 pieces of support equipment
- Enabled 2<sup>nd</sup> MEB to log over 35,000 flight hours and conduct almost 30,000 sorties in a hostile environment
- Issued more than 60,000 aviation parts and 500,000 rounds of ammunition, and built more than 1,400 bombs and rockets

#### Past Winners of the Phoenix Award

for Field-Level Maintenance

2009	1st Squadron, 3rd Armored Cavalry Regiment, USA
2008	1st Special Operations Maintenance Group, USAF
2007	1st Maintenance Battalion, USMC
2006	3D Materiel Readiness Battalion, USMC
2005	3 <sup>rd</sup> Battalion, 7 <sup>th</sup> Field Artillery Regiment, USA
2004	Combat Service Support Battalion 10, Air Ground Combat Center, USMC
2003	3 <sup>rd</sup> Battalion, 7 <sup>th</sup> Infantry Regiment, USA
2002	USS ENTERPRISE (CVN 65), USN
2001	USS DWIGHT D. EISENHOWER (CVN 69), USN
2000	555 <sup>th</sup> Fighter Squadron, USAF
1999	Shore Intermediate Maintenance Activity, Naval Station Norfolk, VA, USN
1998	68th Transportation Battalion, USA
1997	1st Maintenance Battalion, USMC
1996	48 <sup>th</sup> Fighter Wing, USAF
1995	51st Maintenance Battalion, USA
1994	1st Maintenance Battalion, 1st Force Service Support Group (FMFPAC), USMC
1993	Shore Intermediate Maintenance Activity, Charleston, SC, USN
1992	Marine Fighter Attack Squadron 235, USMC
1991	Marine Aviation Logistics Squadron 16, USMC
1990	1st Battalion, 29th Infantry Regiment, USA
1989	363 <sup>rd</sup> Tactical Fighter Wing (TAC), USAF
1988	USS ACADIA (AD 42), USN
1987	50th Tactical Fighter Wing (USAFE), USAF
1986	416 Bombardment Wing (SAC), USAF

USS JOHN F. KENNEDY (CV 67), USN

1985

Maintenance Awards

### 2011 Secretary of Defense Field-Level Maintenance Award Winners

#### **Small Category**



Marine Tactical Electronic Warfare Squadron 1
Marine Corps Air Station Cherry Point, North Carolina, USMC



Strike Fighter Squadron ONE FOUR THREE Naval Air Station Oceana, Virginia, USN

#### Medium Category



D Company, 6-101 Aviation Regiment, 101st Combat Aviation Brigade Fort Campbell, Kentucky, USA



Fleet Readiness Center Southwest Naval Base Coronado, California, USN

#### **Large Category**



1st Maintenance Battalion
Camp Pendleton, California, USMC



31st Maintenance Group Aviano Air Base, Italy, USAF

# 2011 Robert T. Mason Award for Depot Maintenance Excellence

Maintenance Awards oce

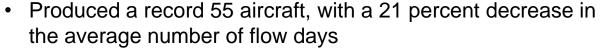
Winner: KC-135 Programmed Depot Maintenance Team

**Oklahoma City Air Logistics Center** 

Tinker Air Force Base, Oklahoma

**United States Air Force** 

During 2010, the KC-135 Programmed Depot Maintenance Team:



- Made significant achievements in every segment of the production line, including numerous kitting programs that improved materiel availability and technician efficiency, and continuous process improvements that affected maintenance procedures
- Performed extraordinary maintenance feats to keep the 50+year-old jets flying nearly 50,000 annual sorties
- Achieved early production of 31 aircraft and a record fourth quarter surge of 18 aircraft, which allowed Air Mobility Command (AMC) support for multiple deployed operations



Maintenance Awards

## Past Winners of the Robert T. Mason Award

2010	Emergent Repair Program Pearl Harbor Naval Shipyard and Intermediate Maintenance Facility Joint Base Pearl Harbor, Hickam, Hawaii
2009	Mine-Resistant, Ambush-Protected Vehicle Program Red River Army Depot, Texarkana, Texas
2008	H-1 Aircraft Production Program Fleet Readiness Center East Marine Corps Air Station Cherry Point, North Carolina
2007	Dedicated Design and Prototype Effort Marine Corps Maintenance Center, Albany, Georgia
2006	High Mobility Multipurpose Wheeled Vehicle (HMMWV) Recapitalization Program, Red River Army Depot, Texarkana, Texas
2005	Vehicle Armor Protective Kits Program, Marine Corps Maintenance Center, Albany, Georgia

Acronyms

Reference

AD Army Depot

AIMD Aircraft Intermediate Maintenance Department

ALC Air Logistics Center
AMC Air Mobility Command

AMSA Area Maintenance Support Activity

AVCRAD Aviation Classification and Repair Depot

CONUS Continental United States

DASD Deputy Assistant Secretary of Defense

DLA Defense Logistics Agency DoD Department of Defense

ECS Equipment Concentration Site FMFPAC Fleet Marine Force, Pacific FRC Fleet Readiness Center

FY Fiscal Year

HMMWV High Mobility Multipurpose Wheeled Vehicle

IMA Intermediate Maintenance Activity
MALS Marine Aviation Logistics Squadron

MCLB Marine Corps Logistics Base MEB Marine Expeditionary Brigade

MPP Maintenance Policy and Programs

MR Materiel Readiness

MRAP Mine-Resistant, Ambush-Protected

Reference

### Acronyms (Cont.)

MXG Maintenance Group NSY Naval Shipyard

OCO Overseas Contingency Operations
OSD Office of the Secretary of Defense

PS Program Support

RDT&E Research, Development, Test, and Evaluation

RM Resource Management
SAC Strategic Air Command
SCI Supply Chain Integration

SE Southeast SW Southwest

TAC Tactical Air Command
TP Transportation Policy
UK United Kingdom
USA United States Army
USAF United States Air Force

USAFE United States Air Forces in Europe

USMC United States Marine Corps

USN United States Navy
USS United States Ship

### **Explanatory Notes**

- All facts and statistics depicted in the DoD Maintenance Fact Book relate
  to materiel maintenance, a category that includes maintenance of weapon
  systems and related components and equipment but excludes
  maintenance of real property, installations, and utilities. The cost of
  materiel maintenance in FY2010, including overseas contingency
  operations (OCO), was \$83.7 billion.
- As depicted on page 6, DoD materiel maintenance is performed at several levels, ranging in complexity from daily system inspections to rapid removal and replacement of components to complete overhaul or rebuild of a weapon system. The following terms are used throughout the Fact Book:
  - Depot level for the most complex and extensive work.
  - Intermediate level for less complex maintenance performed by operating unit back-shops, base-wide activities, or consolidated regional facilities.
  - Organizational level for more time-sensitive work performed in the field, on the flight line, or at the equipment site.
  - Field level signifying the combination of the organizational and intermediate levels.

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### Explanatory Notes (continued)

- All financial charts in the *Fact Book*, unless otherwise noted, depict FY2010 year-end data.
- An electronic version of this document, as well as other information about the responsibilities and functions of the DoD Maintenance Policy and Programs office, is located on the following website: <a href="http://www.acq.osd.mil/log/mpp/">http://www.acq.osd.mil/log/mpp/</a>.
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