



DoD Maintenance

FACT BOOK

2008



ACQUISITION, TECHNOLOGY
AND LOGISTICS

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

Defense maintenance is big business, costing more than \$84 billion (including wartime supplemental funding) in FY2007 and involving more than 650,000 military and civilian maintainers who—along with several thousand commercial firms—support approximately 280 ships, 14,000 aircraft, 800 strategic missiles, and 370,000 ground combat and tactical vehicles.

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.

It also includes the winners of the 2007 Phoenix Award, 2008 Secretary of Defense field-level and depot-level maintenance awards, and the past winners of the Robert T. Mason Award for Depot Maintenance Excellence.

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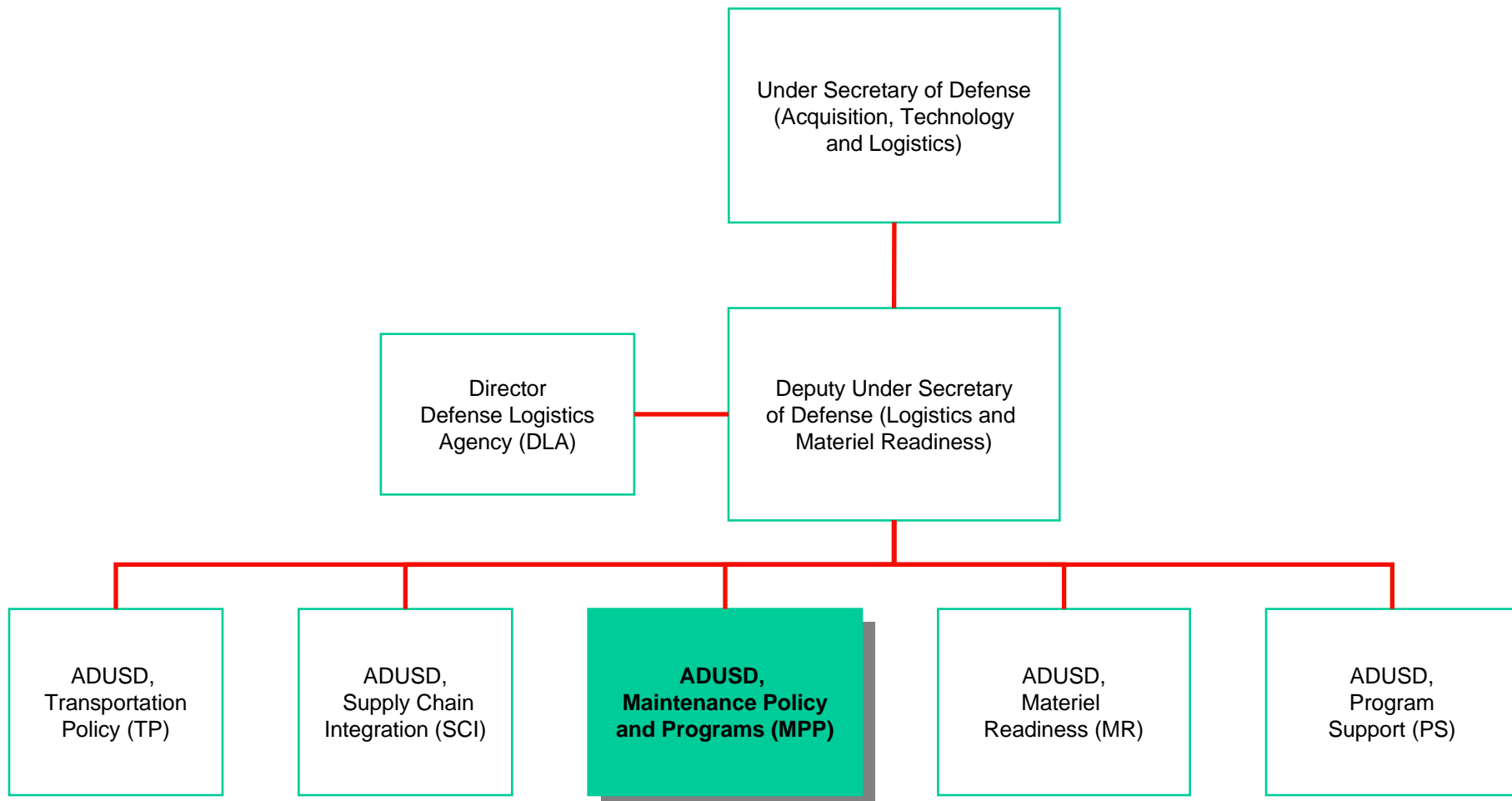
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OSD Logistics Organization



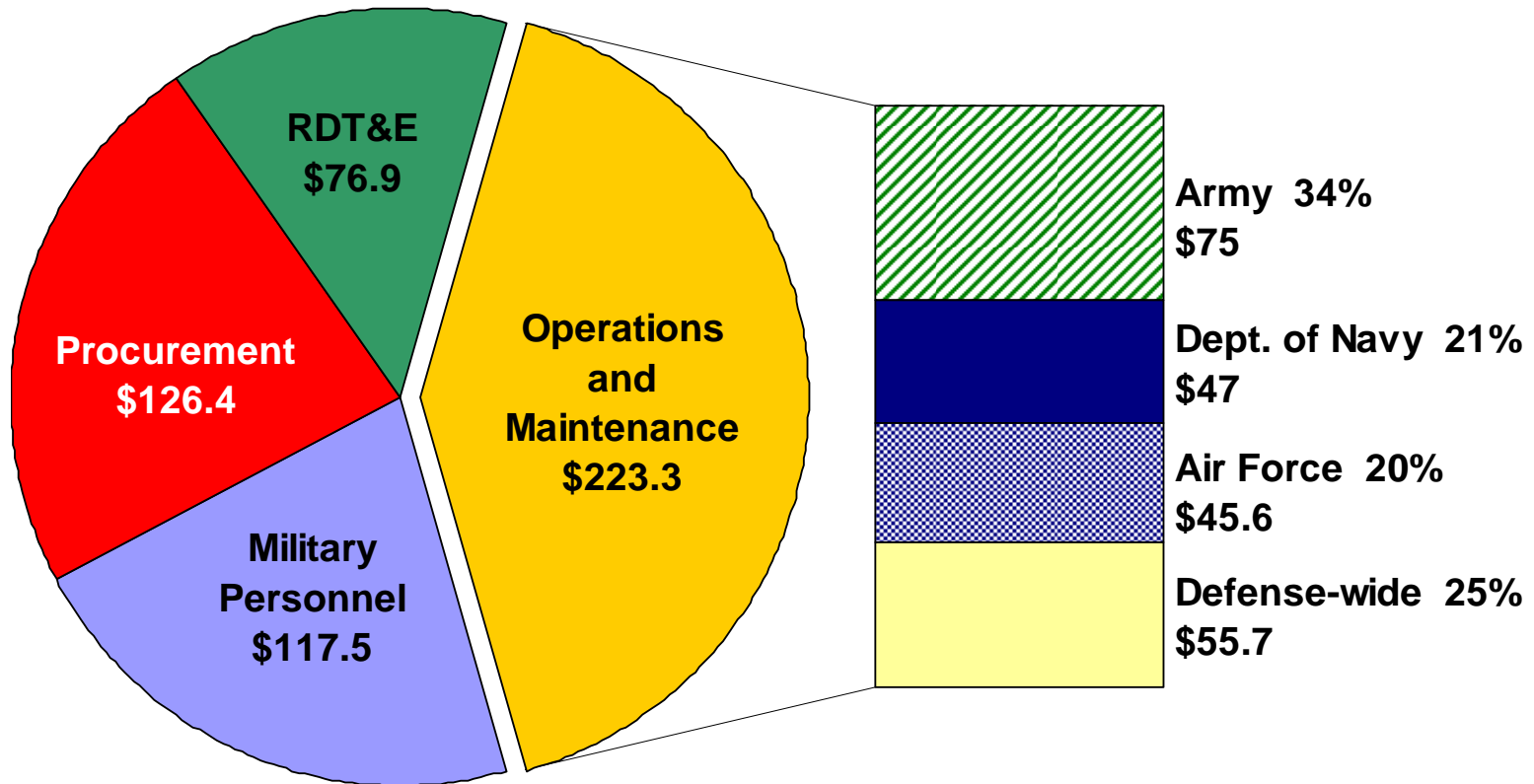
ADUSD(MPP) Mission Statement

The Assistant Deputy Under Secretary of Defense for Maintenance Policy and Programs

- 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 and military equipment maintenance programs and related resources within the Department of Defense.
- Establishes and maintains maintenance policies and programs that are managerially and technologically sound, and are adequately resourced to maintain the desired levels of weapon system and military equipment readiness to accomplish the Department's missions.

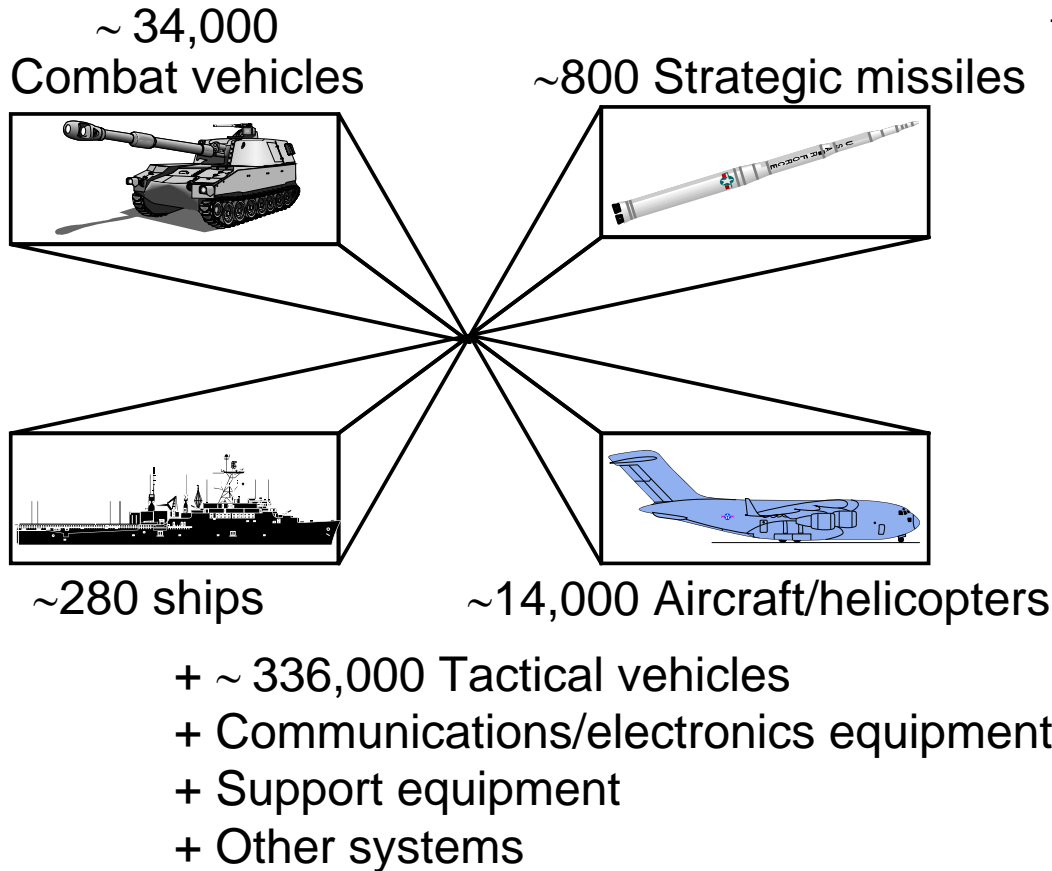
FY2008 Appropriations for the Department of Defense*

Total - \$544 Billion



* Does not include military construction, family housing, revolving and management funds, and some FY2008 supplemental appropriations.

Systems Supported by DoD Maintenance



Maintained by:

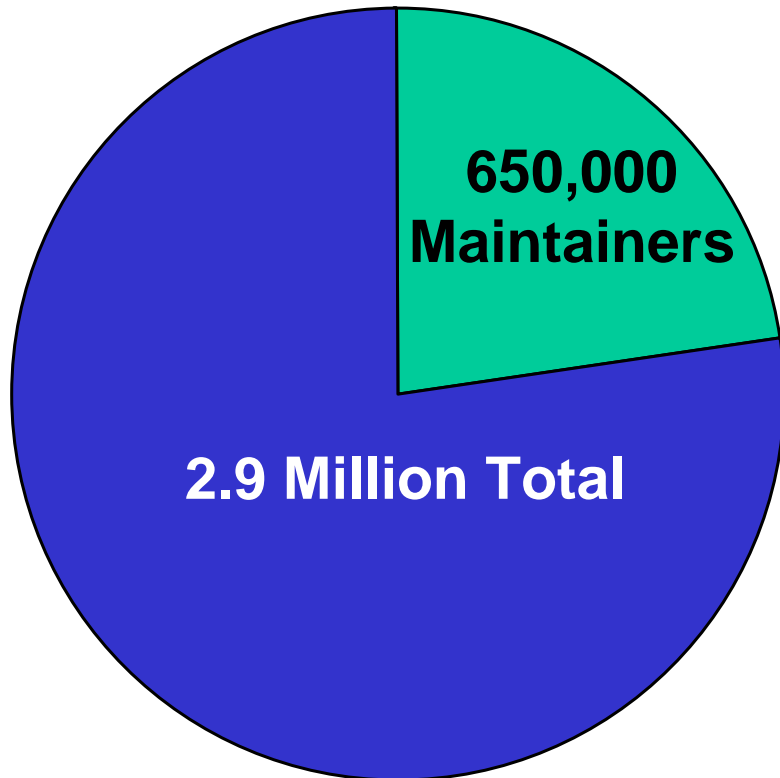
- 650,000 DoD personnel
- Private-sector companies

Maintenance cost:
~\$84 billion (FY2007)

DoD's military equipment is valued at ~\$345 billion

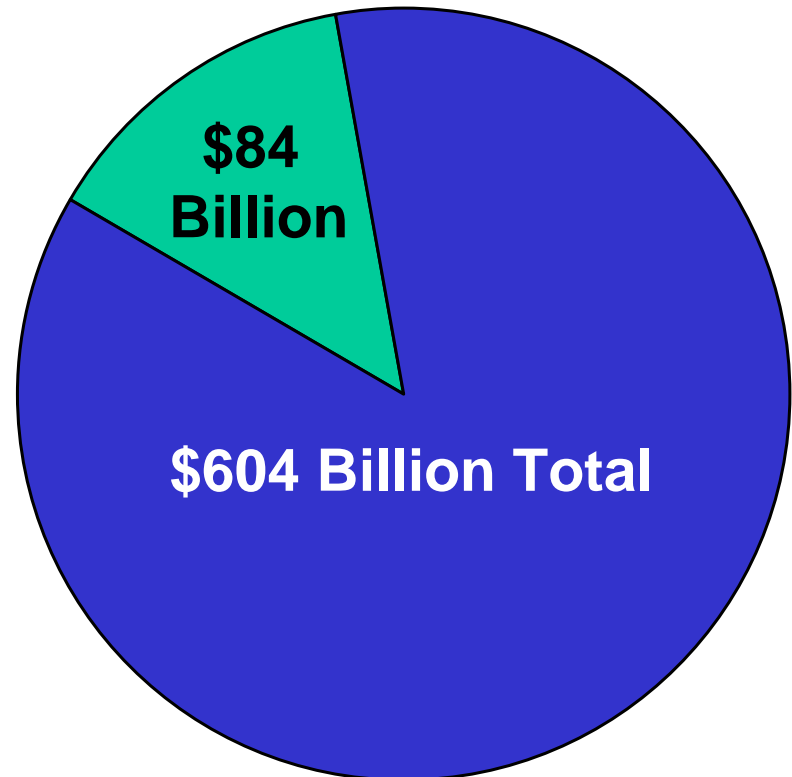
Scope of DoD Maintenance—FY2007

DoD Personnel



23% maintainers

DoD Budget



14% spent on maintenance

Levels of DoD Maintenance



Organizational

Intermediate

Depot

Increasing *volume* of maintenance



More frequent tasks that require less facilitization/skills

Less frequent tasks that require more facilitization/skills



Increasing *complexity* of maintenance

Personnel Strength of Field- and Depot-Level Maintenance



Includes 29,000 National Guard technicians and 51,000 other civilian maintainers.

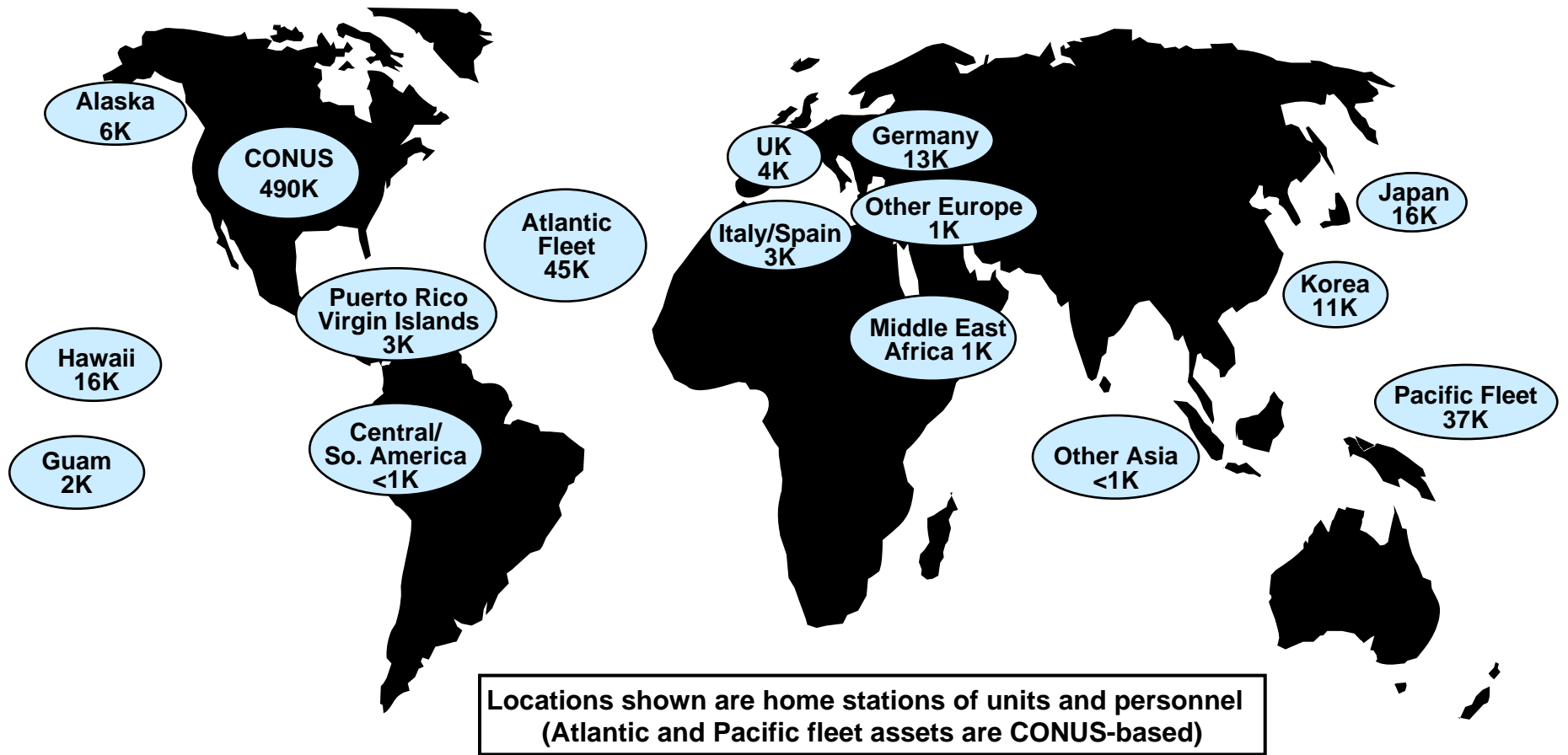
~605,000 field-level maintainers



~75,000 depot-level personnel

Includes 30,000 engineers, scientists, analysts, supply specialists, and other civilian non-maintainers essential to maintenance production.

DoD Maintainers Worldwide*

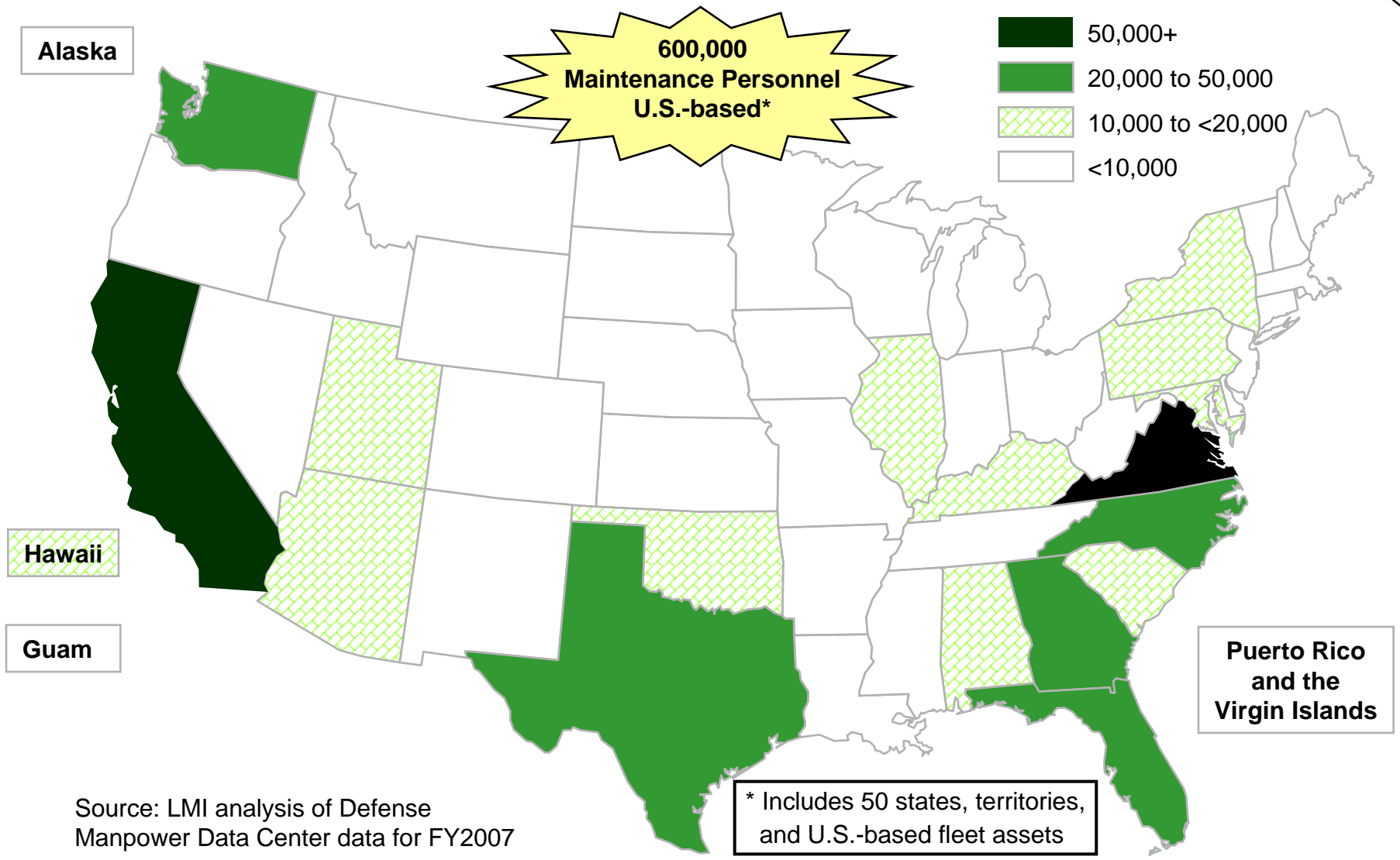


* Numbers shown are approximate and in 000s (K).

Source: LMI analysis of Defense Manpower Data Center data for FY2007

DoD Maintainers by State and Territory

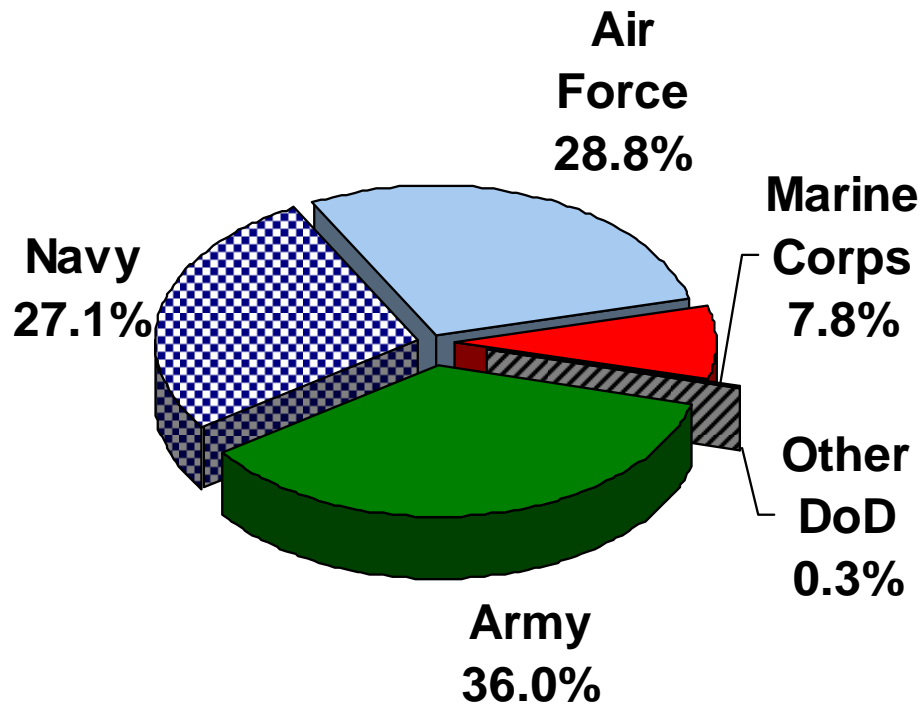
Maintenance
Workforce



Source: LMI analysis of Defense Manpower Data Center data for FY2007

* Includes 50 states, territories, and U.S.-based fleet assets

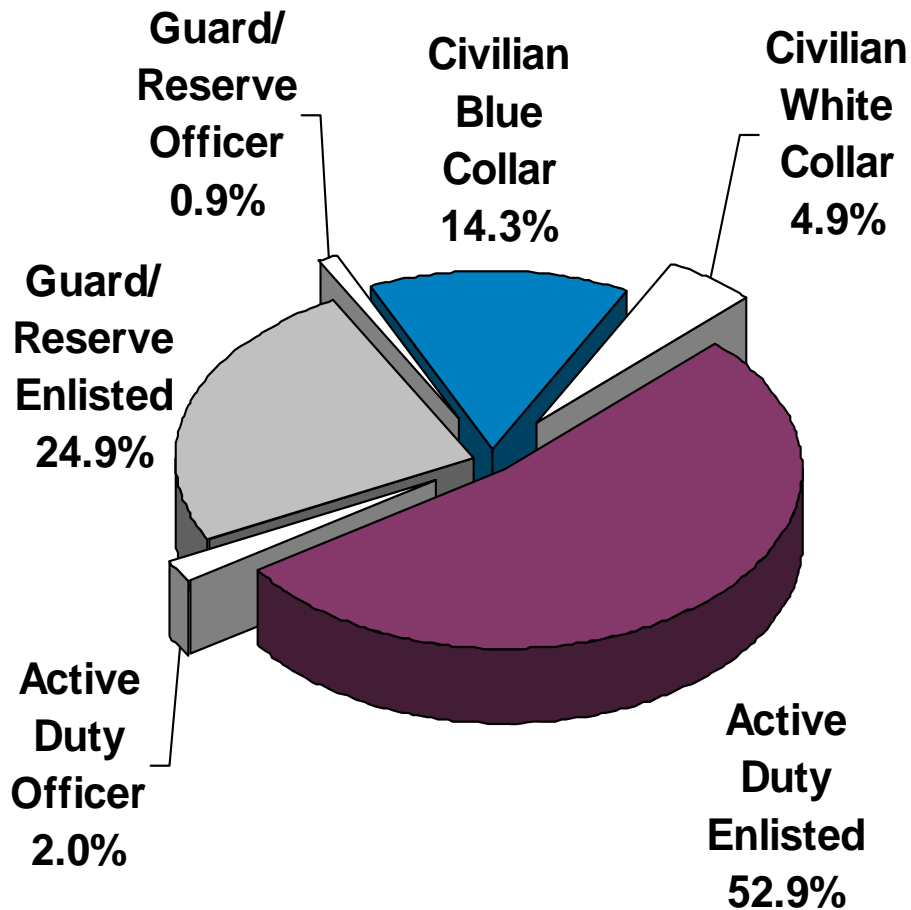
DoD Maintainers by Military Service



Army	234,000
Navy	176,000
Air Force	187,000
Marine Corps	51,000
Other DoD	2,000
Total DoD Maintainers	650,000

DoD Maintainers by Personnel Category

Maintenance
Workforce

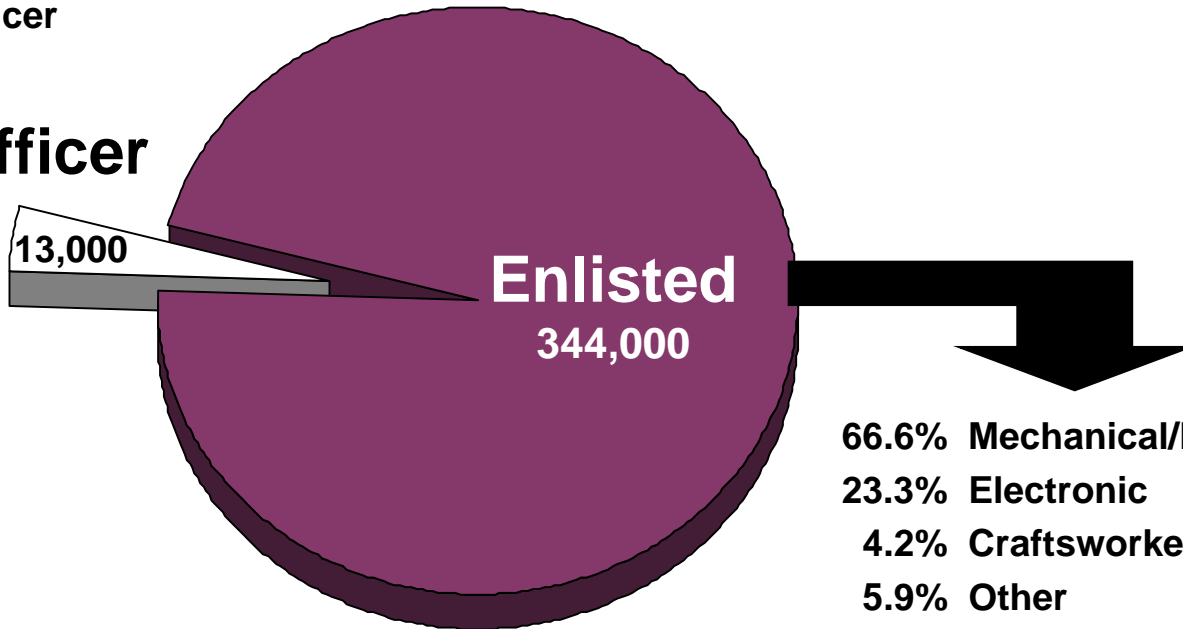


Active Duty Enlisted	344,000
Active Duty Officer	13,000
Guard/Reserve Enlisted	162,000
Guard/Reserve Officer	6,000
Civilian Blue Collar	93,000
Civilian White Collar	32,000
Total DoD Maintainers	650,000

Active Duty Maintainers

66.3% Commissioned Officer
33.7% Warrant Officer

Officer

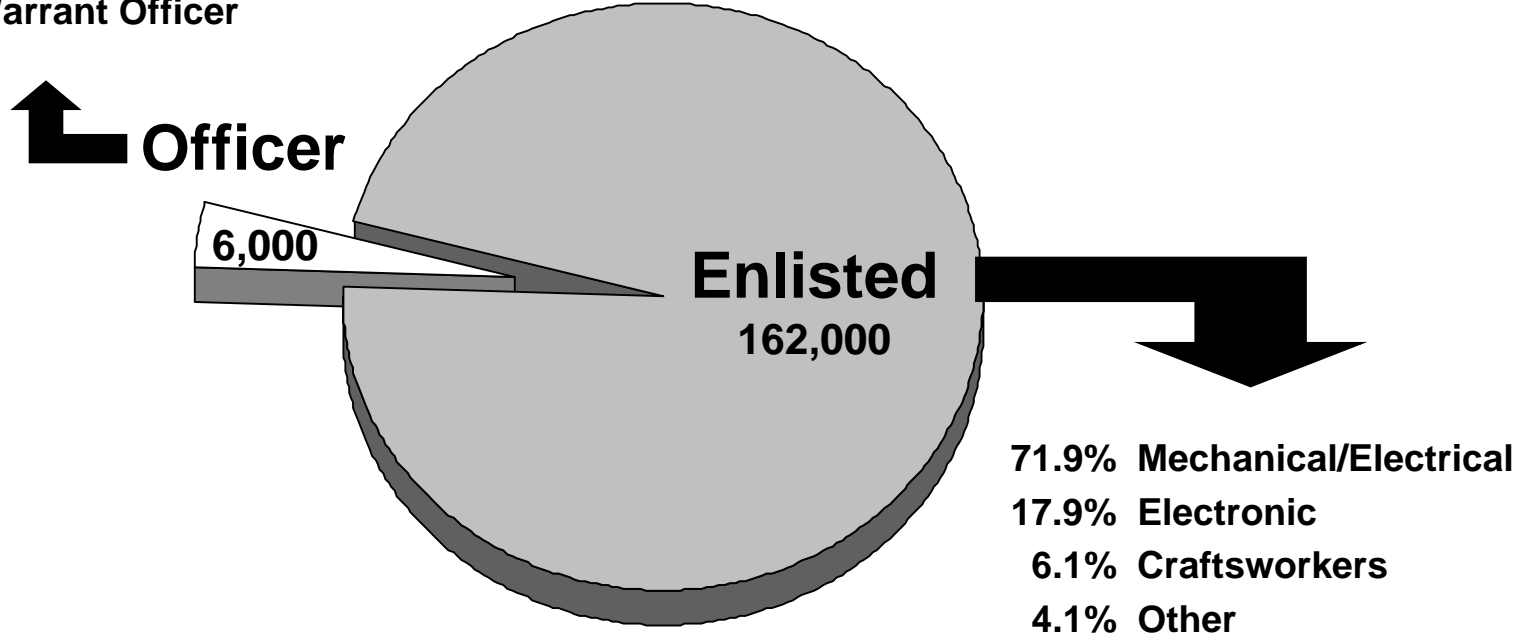


66.6% Mechanical/Electrical
23.3% Electronic
4.2% Craftworkers
5.9% Other

National Guard and Reserve Maintainers

Maintenance
Workforce

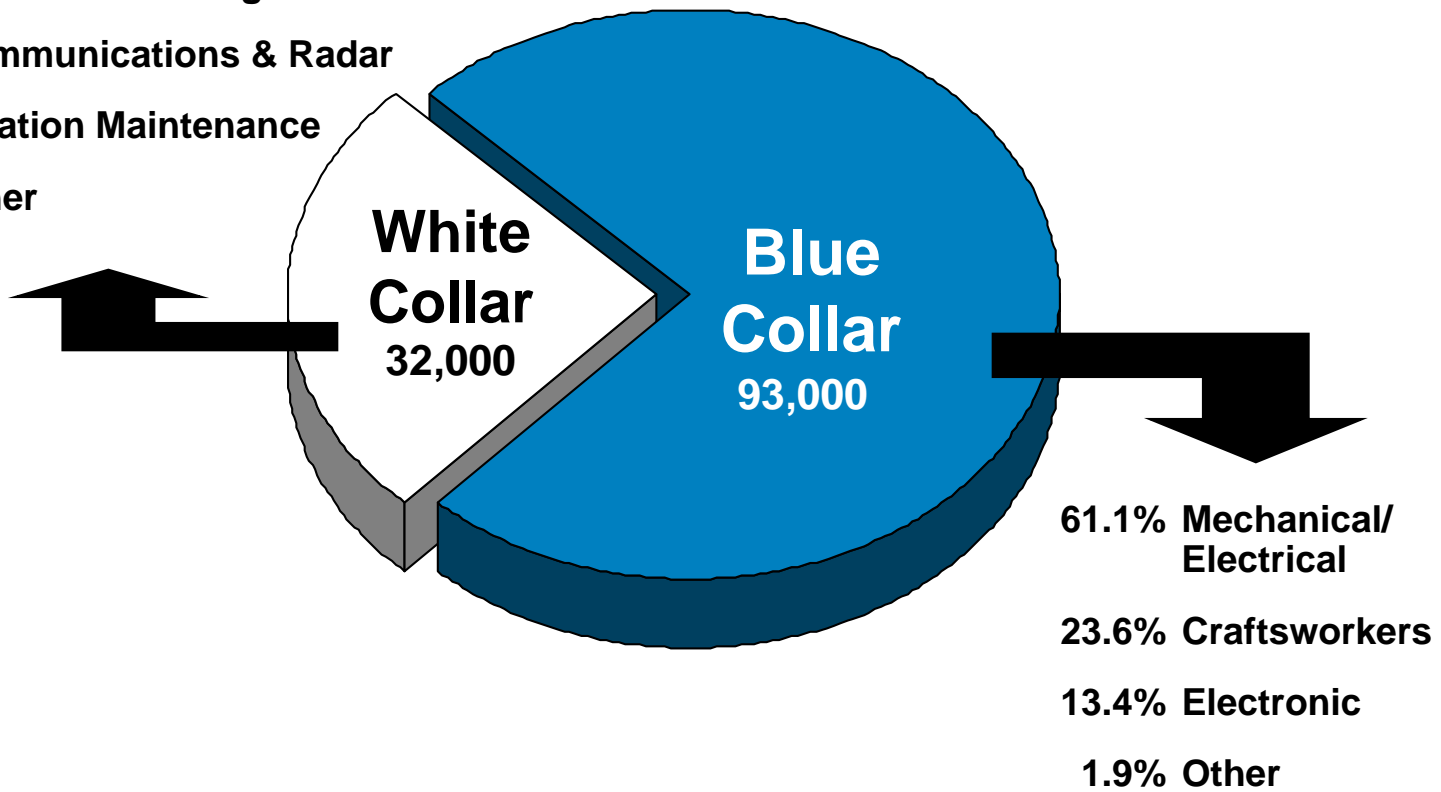
60.7% Commissioned Officer
39.3% Warrant Officer



Source: LMI analysis of Defense Manpower Data Center data for FY2007

DoD Civilian Maintainers

- 43.0% Electrical/Mechanical & Electronic**
- 14.2% Production Management**
- 9.6% Communications & Radar**
- 10.8% Aviation Maintenance**
- 22.4% Other**



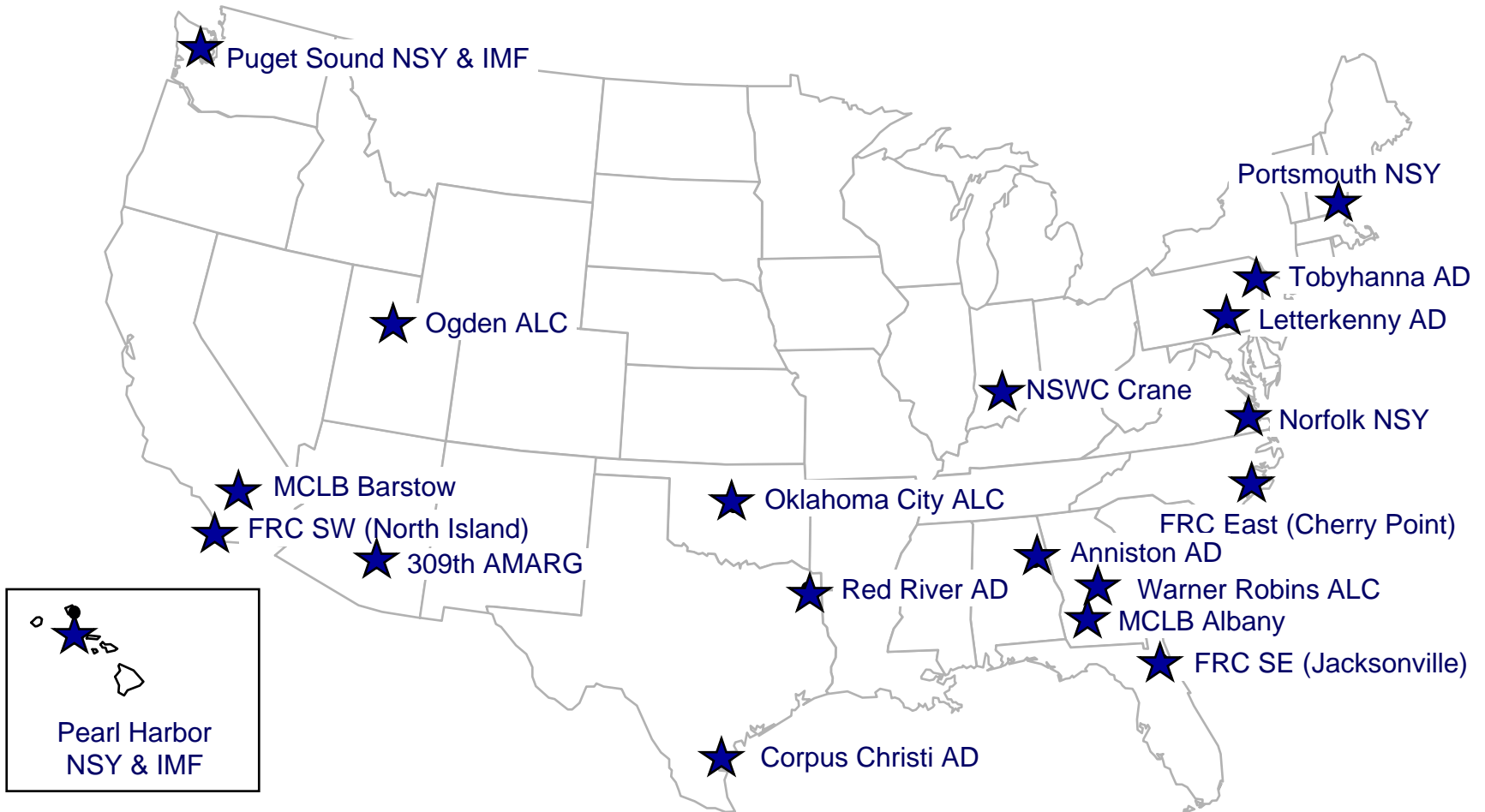
Major Intermediate Maintenance Activities*

Field-Level Maintenance

- **Army**
 - 14 aviation field- and sustainment-level repair sites
 - 64 field-level maintenance companies
 - 19 sustainment-level maintenance activities (company level and larger)
- **Navy**
 - 12 shore-based aircraft intermediate maintenance departments (AIMDs) organized into 6 fleet readiness centers (FRCs)
 - 22 shipboard AIMDs
 - 9 ship/submarine intermediate maintenance facilities (IMFs)
- **Air Force**
 - 59 aircraft and missile maintenance groups (MXGs)
- **Marine Corps**
 - 11 marine aviation logistics squadrons (MALS)
 - 3 maintenance battalions.

* Excludes National Guard, Reserve, and provisional units.

Major Depot-Level Activities* by Location



* Activities with 400 or more depot-level maintainers.

Major Depot-Level Activities by Category and Number*

Principal categories of major organic depot:

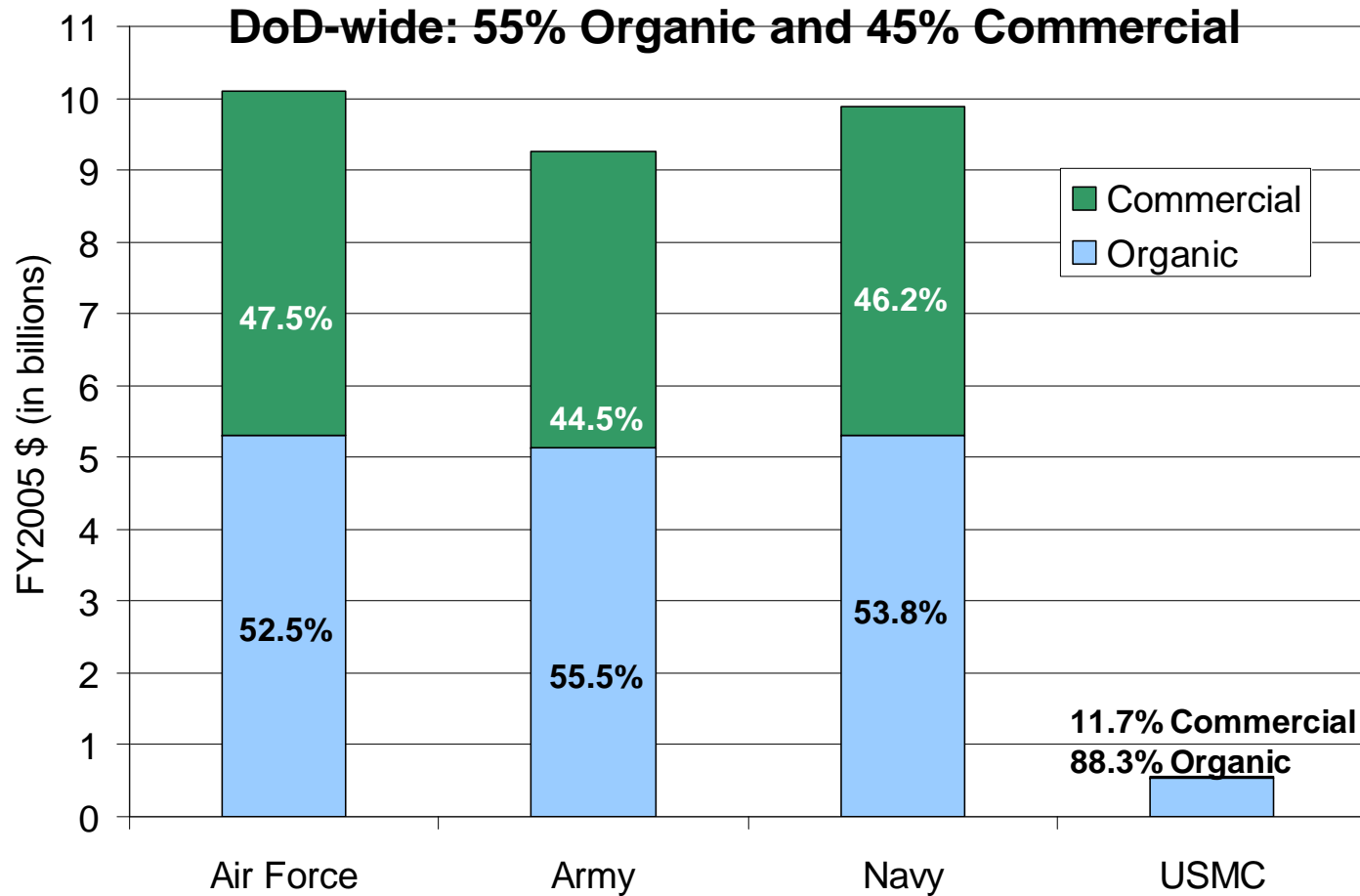
- Shipyard – Navy (4)
- Vehicle and Armament – Army/Marine Corps (4)
- Aviation – Army/Navy/Air Force (7)
- Missile – Army (1)
- Communications and Electronics – Army (1)

Others:

- Storage and Reclamation (aircraft removed from active inventories) – Air Force (1)
- Warfare Center (includes missile flight and launcher systems and nuclear weapons security systems) – Navy (1)

* Numbers exclude arsenals, laboratories, and field maintenance facilities.

Organic-Commercial Mix of DoD Depot Maintenance Workload

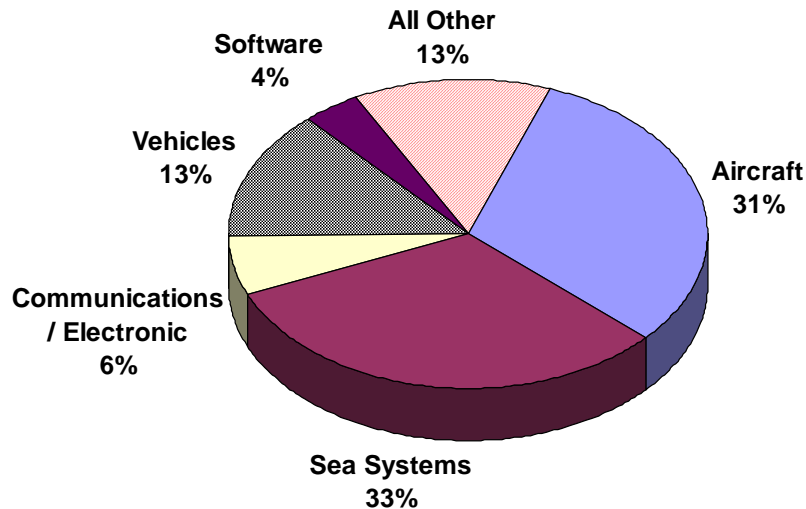


Source: DUSD(L&MR) *Distribution of DoD Depot Maintenance Workloads:*
Fiscal Years 2007 through 2009, April 2008

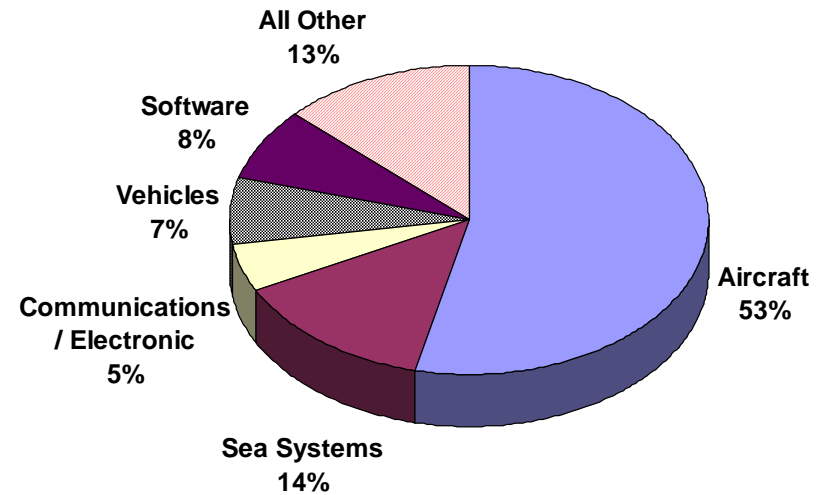
Workload Distribution by Major System Category

Depot
Maintenance

**Depot Maintenance Performed
by DoD Organic Depots
(Direct Labor Hours)**



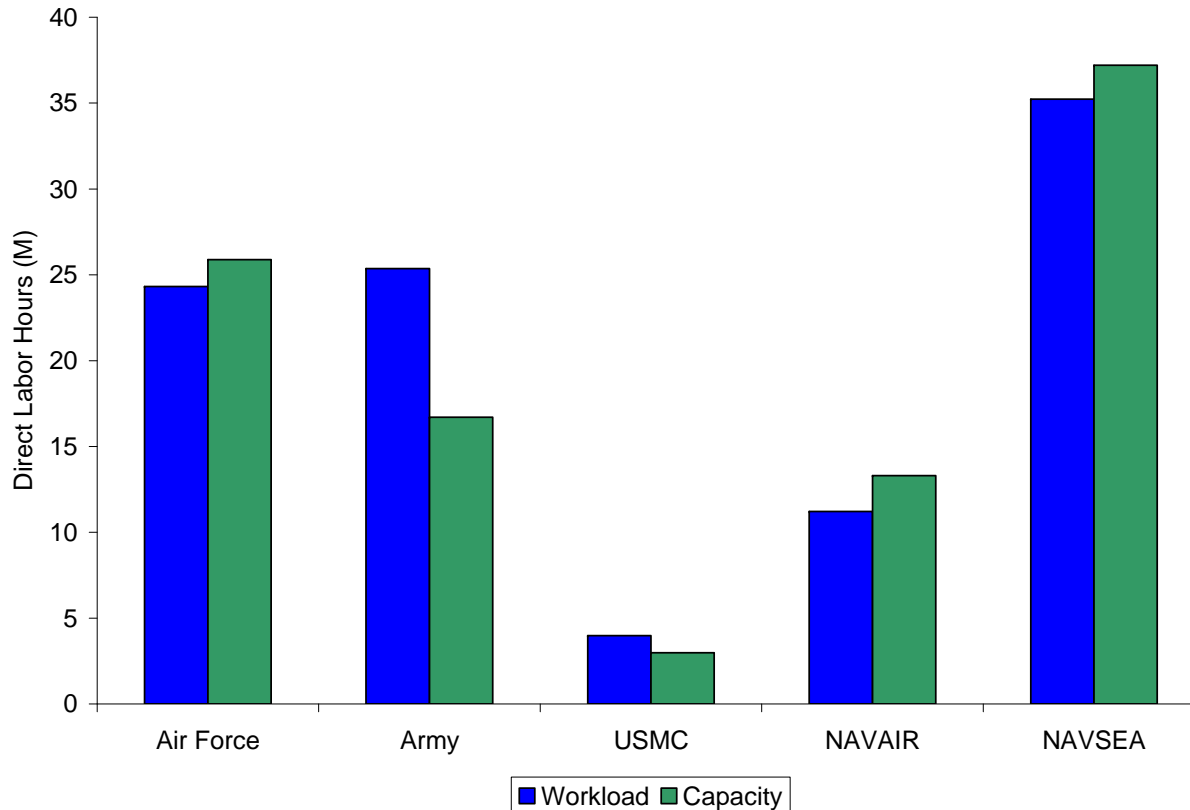
**Depot Maintenance Performed
by Defense Contractors
(Cost)**



Source: FY2007 estimates from the Joint Depot Maintenance Activity Group's
Depot Maintenance Business Profile 2006–2009

Capacity Utilization of Organic Depot Maintenance*

Overall Organic Depot Capacity Utilization: ~104%



* FY2007 estimated data for DoD's 19 major depots; capacity metrics are based on single-shift operations without overtime or surge.

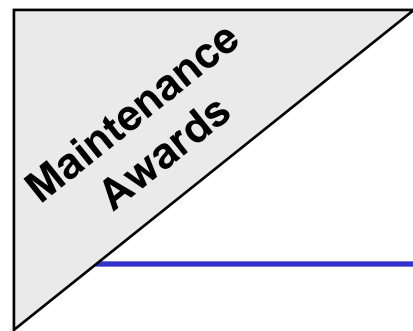
2007 Phoenix Award Winner

The Highest Secretary of Defense Award
for Field-Level Maintenance

Maintenance
Awards

***1st Maintenance Battalion
I Marine Expeditionary Force
Camp Pendleton, California
United States Marine Corps***

- In FY2006, the Battalion:
 - Installed fragmentation protection kits on 112 vehicles
 - Increased readiness rates for deployed I MEF equipment from 94 to 97 percent in 6 months
 - Conducted 825 Maintenance Support Team visits to I MEF garrison units
 - Detailed personnel to II MEF to fill Operation Iraqi Freedom shortfalls
 - Deployed 2 maintenance companies for separate 7-month rotational assignments to Iraq.



2008 Secretary of Defense Field-Level Maintenance Award Winners

- 3rd Battalion, 43rd Air Defense Artillery
Fort Bliss, Texas, USA
- 1st Special Operations Maintenance Group
Hurlburt Field, Florida, USAF
- Fleet Readiness Center Northwest
Naval Air Station Whidbey Island, Washington, USN
- 31st Aircraft Maintenance Squadron
Aviano Air Base, Italy, USAF
- B Company, 610th Brigade Support Battalion
Fort Riley, Kansas, USA
- Marine Fighter Attack Squadron 312
Marine Corps Air Station Beaufort, South Carolina, USMC

2008 Robert T. Mason Award for Depot Maintenance Excellence

**Winner: H-1 Aircraft Production Program
Fleet Readiness Center East
MCAS Cherry Point, North Carolina**

During FY2007, the FRC East H-1 Aircraft Production Program:

- Returned 52 H-1 aircraft to the warfighters
- Achieved 100 percent on-time delivery for aircraft directly supporting OIF/OEF operations
- Saved more than \$20 million through innovative logistics process solutions
- Completed 122 inspection and repair events, accumulating more than 7,800 hours in direct support of unplanned and unscheduled warfighter requirements.

Since 2004, FRC East also shortened H-1 turnaround time to 51 days, a 46 percent improvement.

Past Robert T. Mason Awards for Depot Maintenance Excellence

2007 Winner Dedicated Design and Prototype Effort
 Marine Corps Maintenance Center
 Albany, Georgia

2006 Winner High Mobility Multipurpose Wheeled Vehicle
 Recapitalization Program
 Red River Army Depot
 Texarkana, Texas

2005 Winner Vehicle Armor Protective Kits Program
 Marine Corps Maintenance Center
 Albany, Georgia

Acronyms

AIMD	Aircraft Intermediate Maintenance Department
AD	Army Depot
ADUSD	Assistant Deputy Under Secretary of Defense
ALC	Air Logistics Center
AMARG	Aerospace Maintenance and Regeneration Group
CONUS	Continental United States
DLA	Defense Logistics Agency
DoD	Department of Defense
DUSD(L&MR)	Deputy Under Secretary of Defense for Logistics and Materiel Readiness
FRC	Fleet Readiness Center
FY	Fiscal Year
IMF	Intermediate Maintenance Facility
MALS	Marine Aviation Logistics Squadron
MCAS	Marine Corps Air Station
MEF	Marine Expeditionary Force
MCLB	Marine Corps Logistics Base
MPP	Maintenance Policy and Programs
MR	Materiel Readiness
MXG	Maintenance Group
NSWC	Naval Surface Warfare Center
NSY	Naval Shipyard

Acronyms (Cont.)

OIF/OEF	Operation Iraqi Freedom/Operation Enduring Freedom
OSD	Office of the Secretary of Defense
PS	Program Support
RDT&E	Research, Development, Test, and Evaluation
SCI	Supply Chain Integration
TP	Transportation Policy
UK	United Kingdom
USA	United States Army
USAF	United States Air Force
USMC	United States Marine Corps
USN	United States Navy

Explanatory Notes

- As depicted on page 6, DoD maintenance is performed at several levels of complexity, ranging from the 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 in operating unit backshops, base-wide activities, or in 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** is a term signifying the combination of the organizational and intermediate levels.
- All charts in this document show FY2007 year-end data unless otherwise noted.
- 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: <http://www.acq.osd.mil/log/mpp/>.
- This document is published for information only and does not constitute official DoD correspondence.

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