

# STRATEGIC HIGHWAY NETWORK (STRAHNET) OVERVIEW

---

## Military Transportation System

Eric Randall  
TPB Transportation Engineer

TPB Systems Performance, Operations, And Technology Subcommittee (SPOTS)  
February 15, 2024



# Presentation Outline

---

- USDOT Planning Areas
- Strategic Highway Network (STRAHNET)
  - Local Maps
- Military Transportation System
  - TRANSCOM
  - SDDC Command Overview



# Federal Planning Emphasis Areas

---

- The FHWA and FTA Planning Offices issued a Planning Emphasis Areas (PEAs) letter on December 30, 2021
  - Key topics federal agencies want to see addressed in statewide, metropolitan, and other agency planning
  - Areas included: climate change, equity, complete streets, public involvement, data

## **#5 - Strategic Highway Network (STRAHNET)/U.S. Department of Defense (DOD) Coordination**

- “FHWA Division and FTA regional offices should encourage MPOs and State DOTs to coordinate with representatives from DOD in the transportation planning and project programming process on infrastructure and connectivity needs for STRAHNET routes and other public roads that connect to DOD facilities.”



# Why STRAHNET?

---

- Dwight D. Eisenhower National System of Interstate and Defense Highways (1956)
  - Historically (1950s) many of the highways were inadequate to meet the needs of national and civil defense.
    - Note: [1919 Motor Transport Corps convoy](#) (*Wikipedia*)
  - The DOD's facilities include military bases, ports, and depots. The road network that provides access and connections to these facilities is essential to national security.



# What is STRAHNET?

---

- The 64,200-mile STRAHNET system consists of public highways that provide access, continuity, and emergency transportation of personnel and equipment in times of peace and war.
  - It includes the entire 48,800 miles of the Interstate and Defense Highway system and 14,000 miles of other non-Interstate public highways on the National Highway System.
  - STRAHNET also contains approximately 1,800 miles of connector routes linking more than 200 military installations and ports to the primary highway system.
  - DOD's facilities are also often major employers in a region, generating substantial volumes of commuter and freight traffic on the transportation network and around entry points to the military facilities.



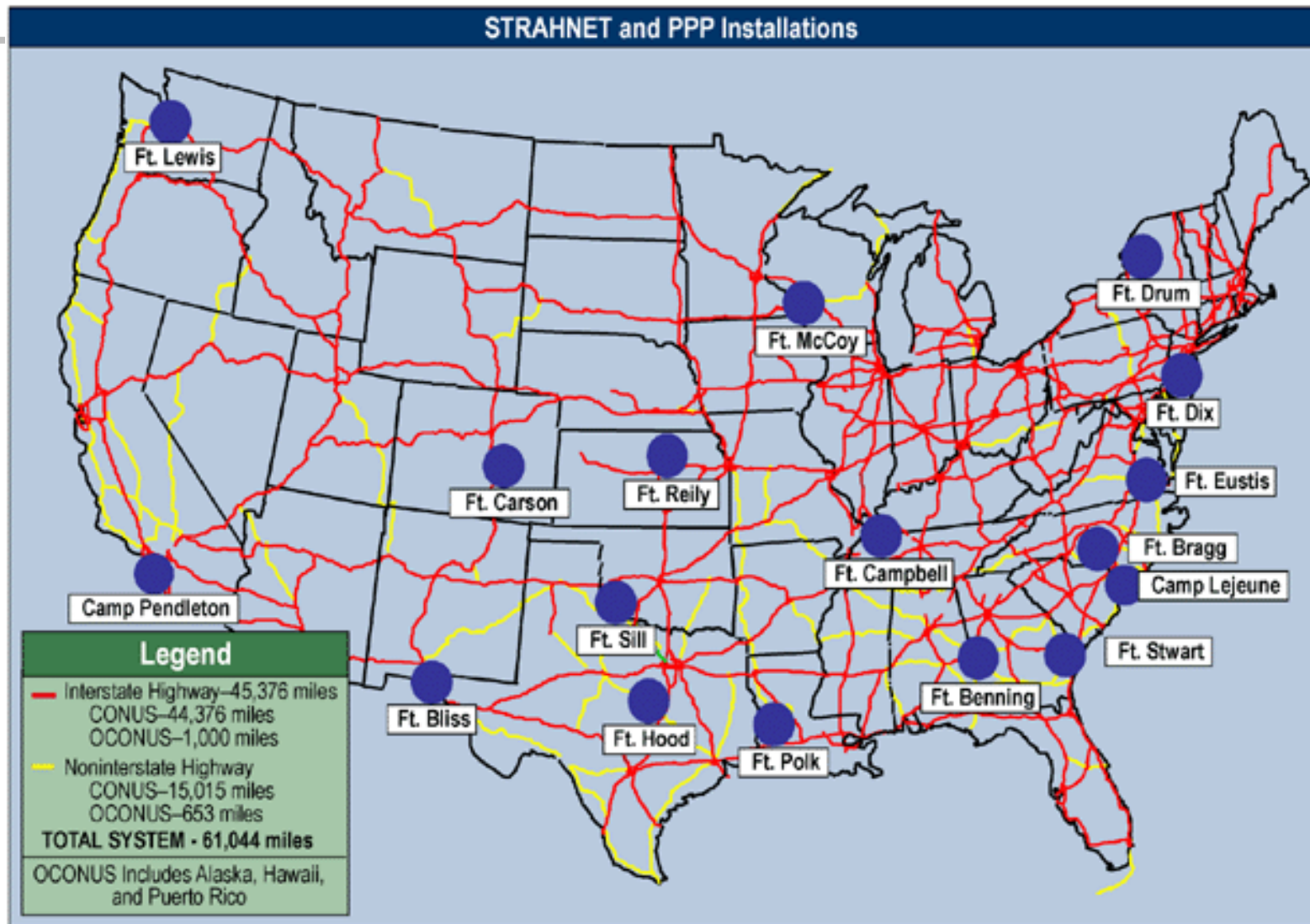
# STRAHNET Update

---

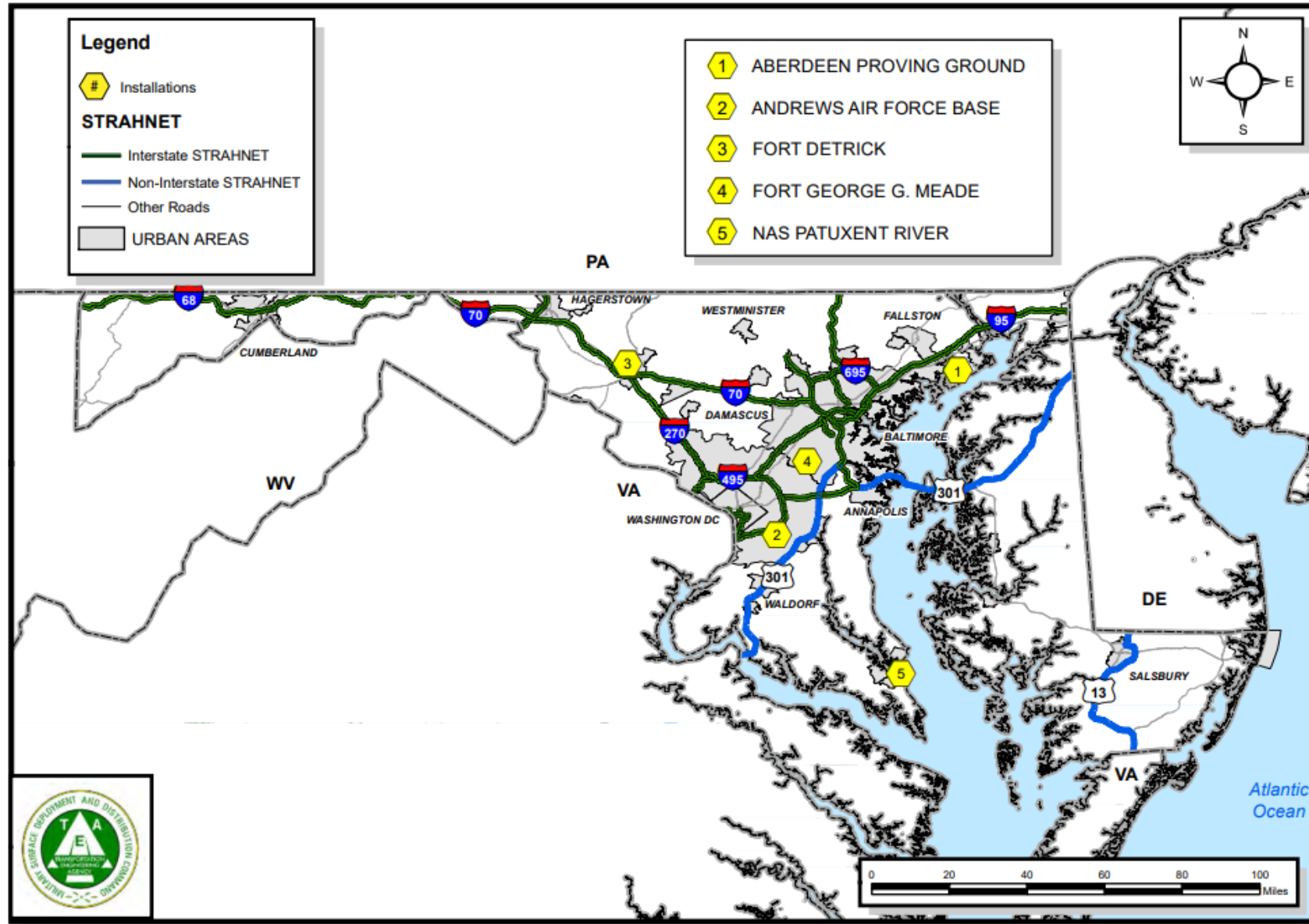
- The STRAHNET is tracked by the Transportation Engineering Agency (TEA) of the US Army's Surface Deployment and Distribution Command (SDDC).
- Maps available for each state and major bases in each:  
<https://www.sddc.army.mil/sites/TEA/functions/specialassistant/strahnet/forms/allitems.aspx>
- Most of the current network's maps date to early/mid-2010s.
- TEA has begun an update, with the first state to be reviewed, Florida, just completed.
  - In addition, a number of bases and facilities have been recently renamed, which will be updated as well.



# STRAHNET and Major Bases



# MARYLAND



Last Updated: June 28 2012

















# STRAHNET Virginia

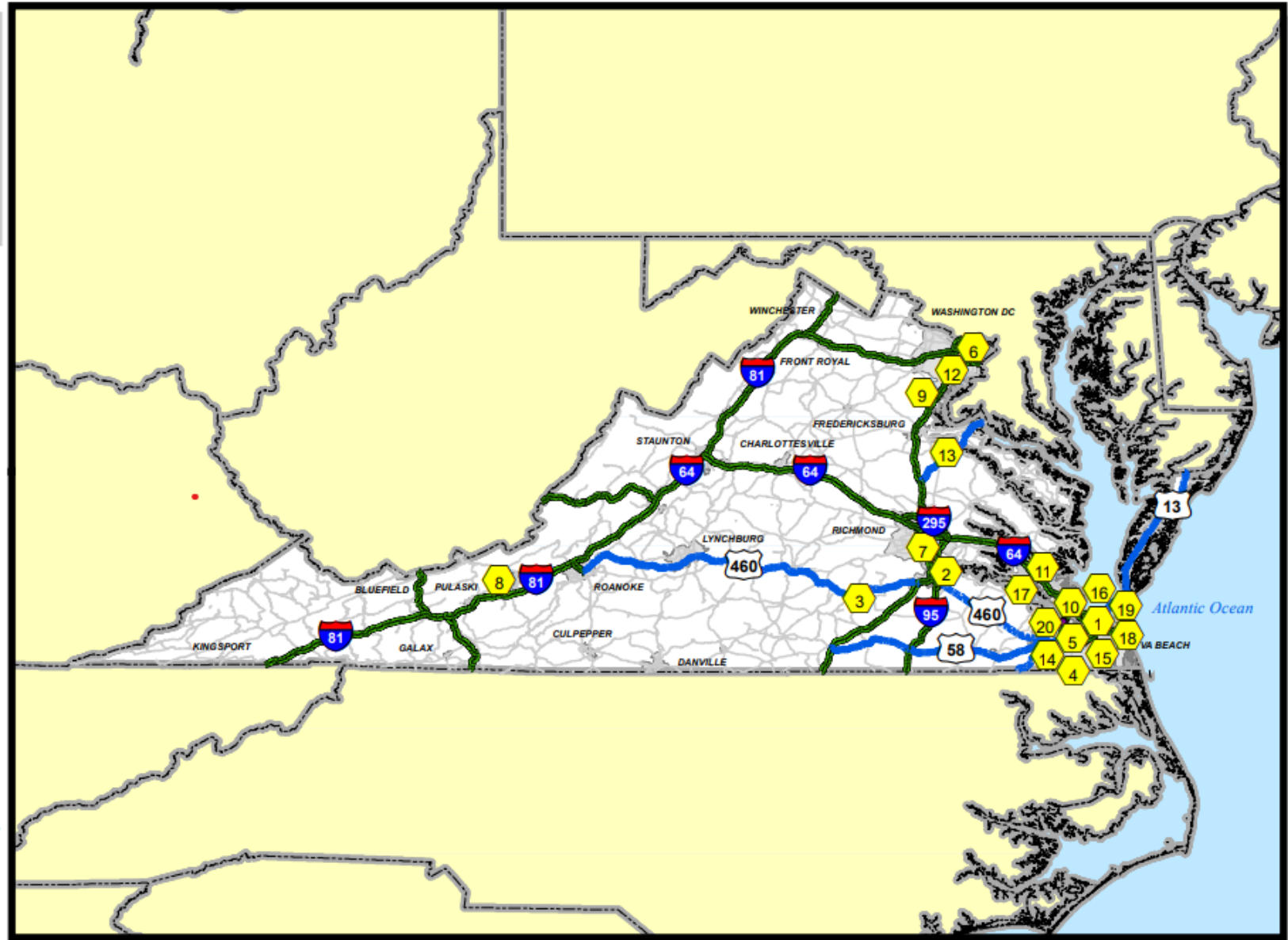
Last Updated: 5/23/2018

**Legend**

-  Installations
-  Interstate STRAHNET
-  Non-Interstate STRAHNET
-  Other Roads
-  Urban Areas

**Installations**

-  1 Naval Air Station, Oceana
-  2 Fort Lee
-  3 Fort Pickett
-  4 Norfolk Naval Shipyard
-  5 Langley Air Force Base
-  6 Fort Myer
-  7 DGSC, Richmond
-  8 Radford Army Ammunition Plant
-  9 Marine Corps Base, Quantico
-  10 Naval Station, Norfolk
-  11 Naval Supply Center Cheatham Annex
-  12 Fort Belvoir
-  13 Fort A.P. Hill
-  14 Naval Weapons Station, Yorktown
-  15 Fort Story
-  16 Little Creek Naval Amphibious Base
-  17 Fort Eustis
-  18 Port of Virginia "Norfolk International Terminal"
-  19 Port of Virginia "Newport News Marine Terminal"
-  20 Hampton Roads "Portsmouth Marine Terminal"



**Legend**

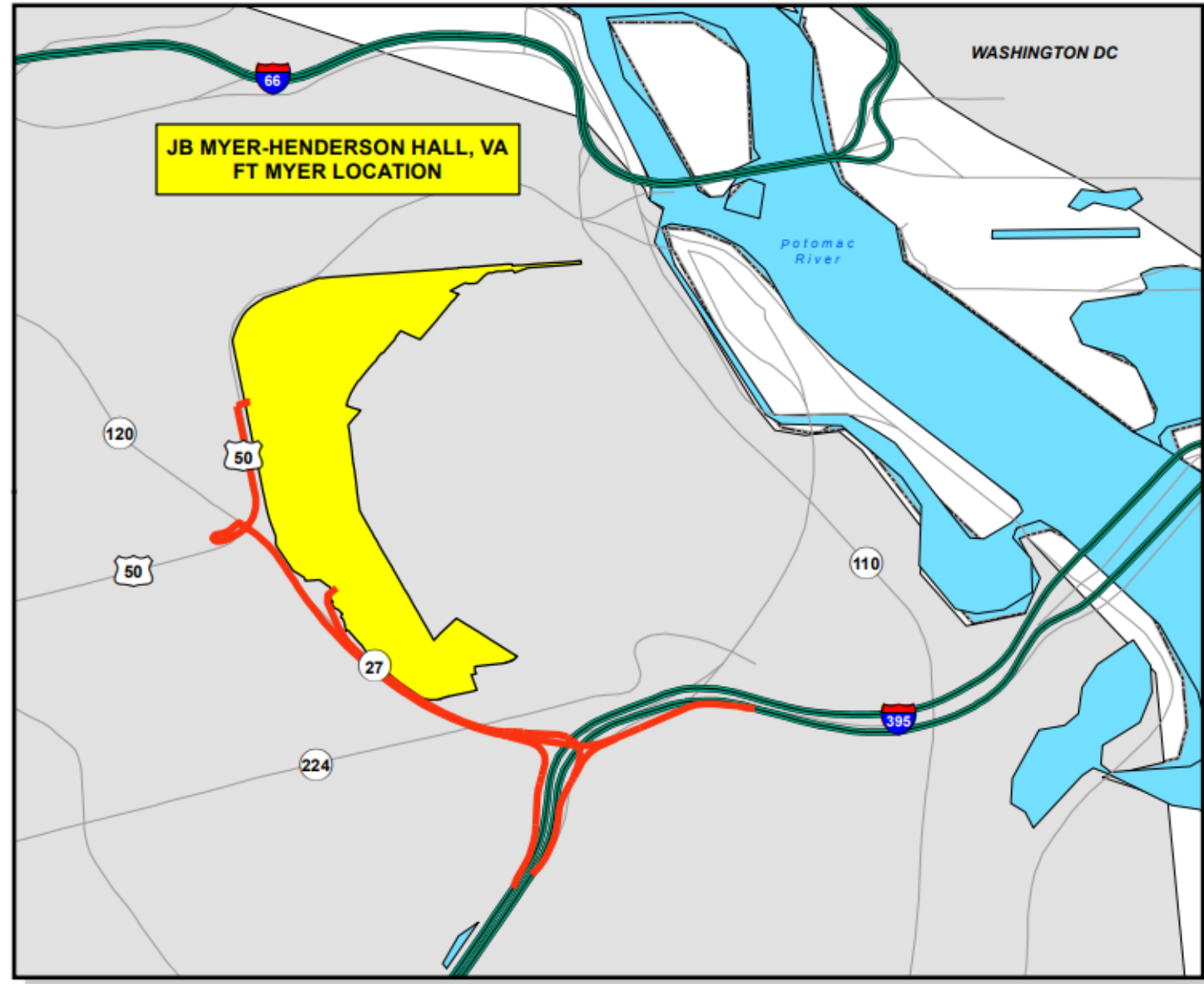

- Interstate STRAHNET
- Non-Interstate STRAHNET
- STRAHNET Connector
- Other Roads
- INSTALLATION OF INTEREST
- OTHER INSTALLATIONS
- URBAN AREAS

**ROUTE TO STRAHNET**

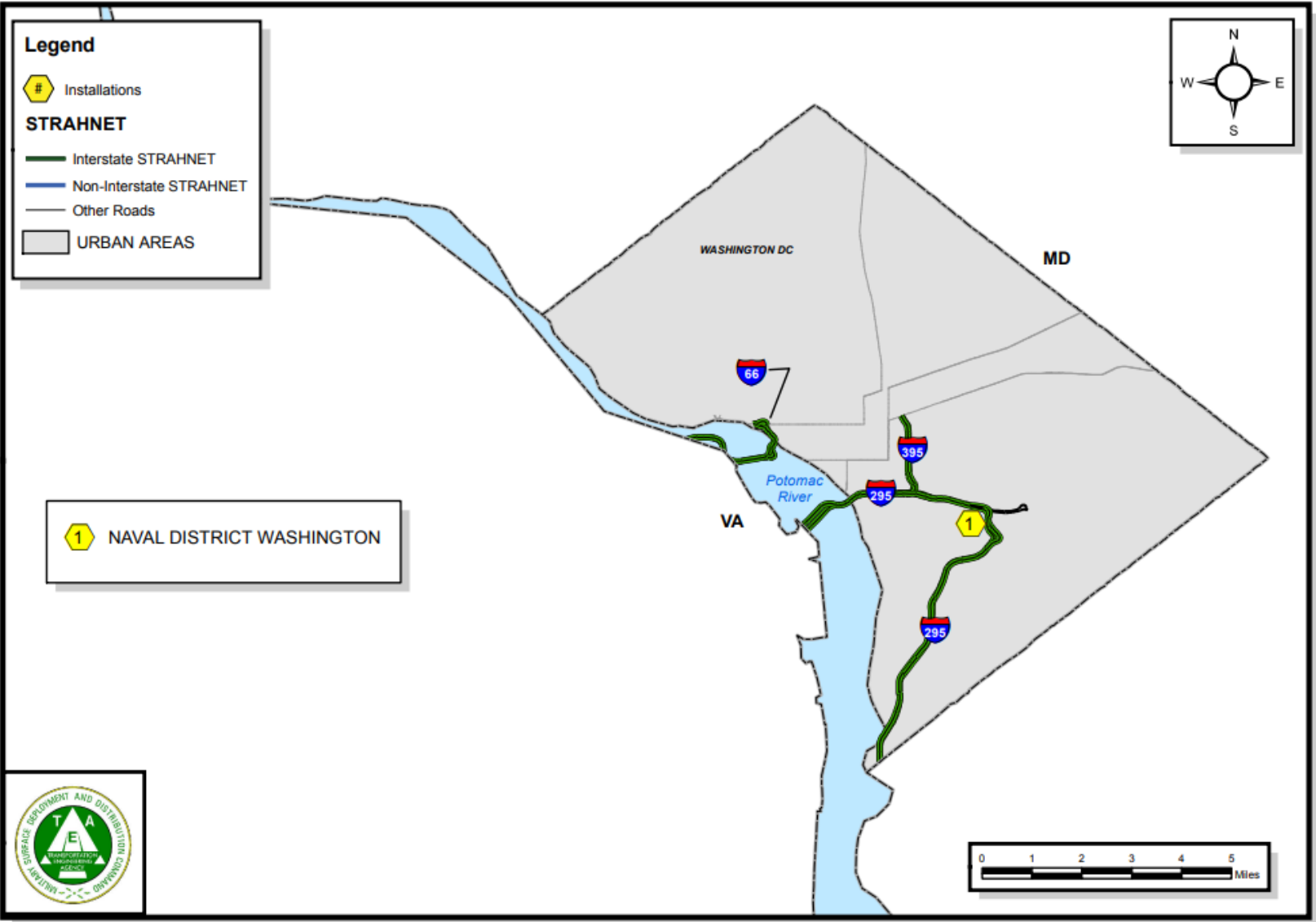
US 50 S TO VA 27,  
VA 27 S TO I-395

HENDERSON HALL HAS  
NO STRAHNET CONNECTOR

Connector mileage = 1.80 miles



# DISTRICT OF COLUMBIA









Last Updated: June 27 2012



# NAVAL DISTRICT WASHINGTON, DC

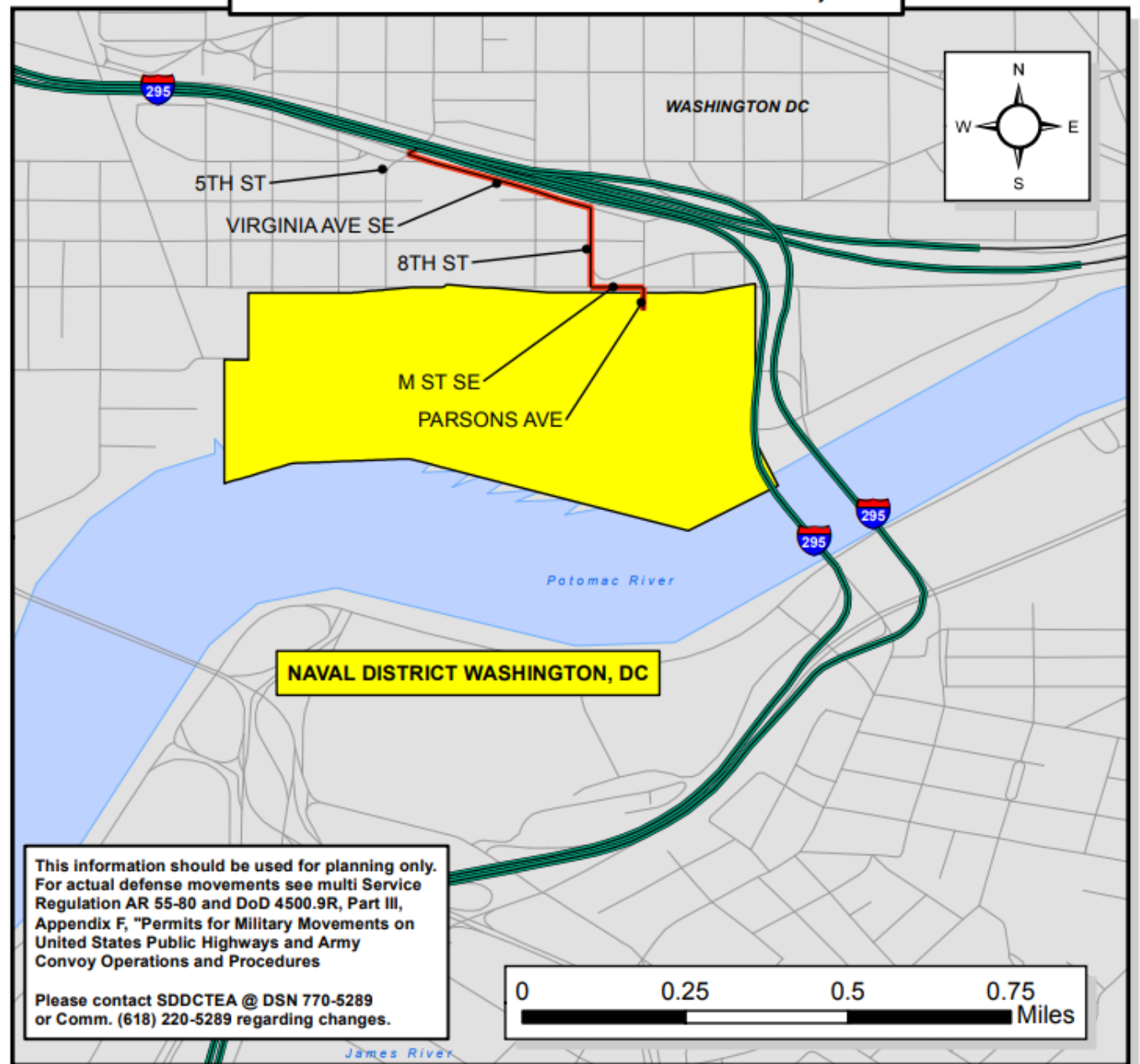
**Legend**

-  Interstate STRAHNET
-  Non-Interstate STRAHNET
-  STRAHNET Connector
-  Other Roads
-  Installation of Interest
-  URBAN AREAS

**ROUTE TO STRAHNET**  
 PARSONS AVE N TO M ST SE,  
 M ST SE W TO 8TH ST,  
 8TH ST N TO I-295

Connector mileage = .47 miles





This information should be used for planning only. For actual defense movements see multi Service Regulation AR 55-80 and DoD 4500.9R, Part III, Appendix F, "Permits for Military Movements on United States Public Highways and Army Convoy Operations and Procedures"

Please contact SDDCTEA @ DSN 770-5289 or Comm. (618) 220-5289 regarding changes.

Last Updated: June 25 2012

# Military Transportation System



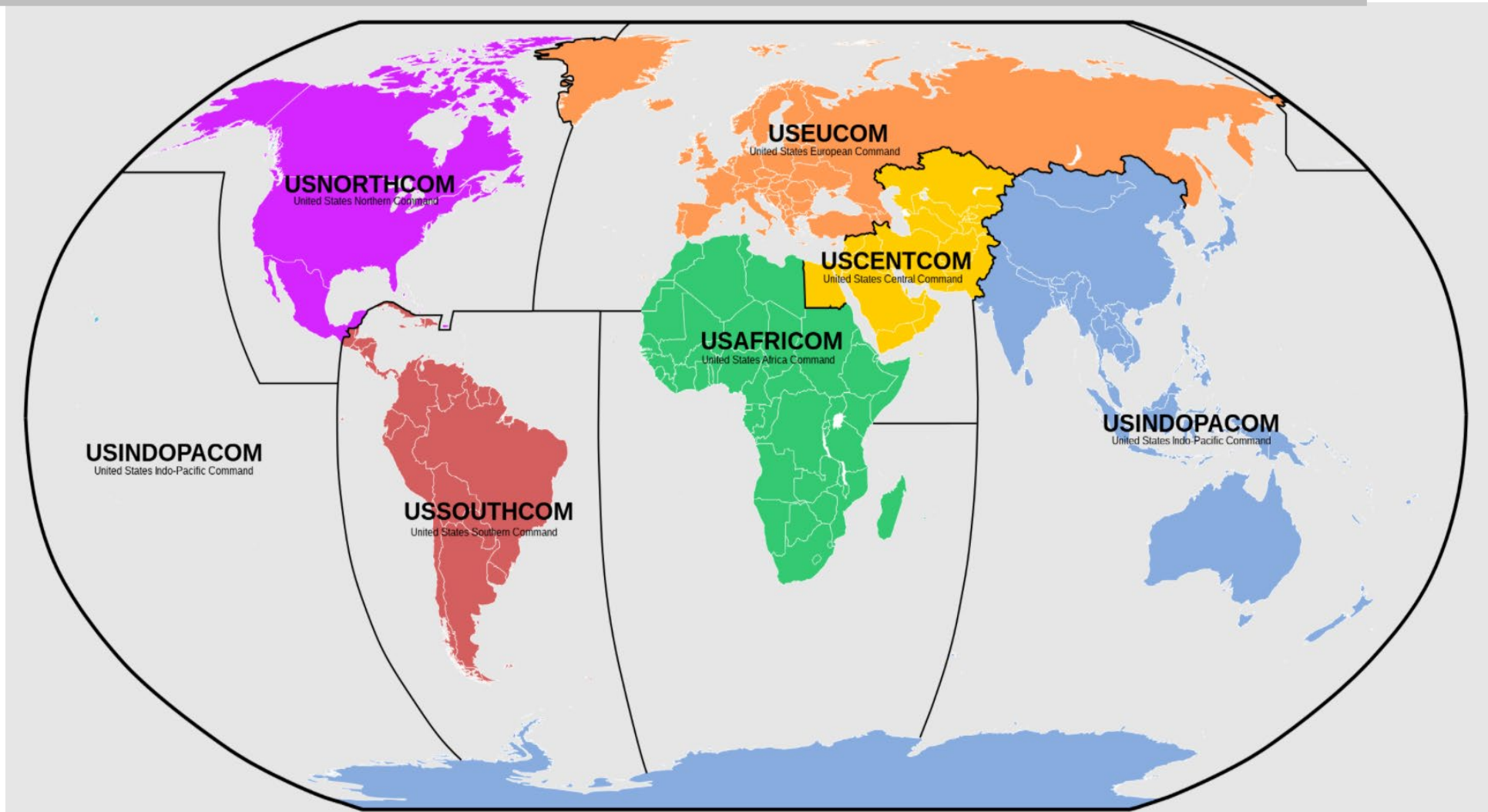
# Unified Combatant Commands (COCOMs)

---

- Functional COCOMs operate world-wide across geographic boundaries and provide unique capabilities to geographic combatant commands and the Services
  - USSOCOM: U.S. Special Operations Command, MacDill Air Force Base, FL.
  - USSTRATCOM: U.S. Strategic Command, Offutt Air Force Base, NE.
  - USSPACECOM: U.S. Space Command, Peterson Space Force Base, CO.
  - USTRANSCOM: U.S. Transportation Command, Scott Air Force Base, IL.
  - USCYBERCOMMAND: U.S. Cyber Command, Fort George G. Meade, MD.
- Geographic COCOMs operate in clearly delineated areas of operation and have a distinctive regional military focus.
  - USAFRICOM: U.S. Africa Command, Kelley Barracks, Stuttgart, Germany.
  - USCENTCOM: U.S. Central Command, MacDill Air Force Base, FL.
  - USEUCOM: U.S. European Command, Patch Barracks, Stuttgart, Germany.
  - USNORTHCOM: U.S. Northern Command, Peterson Air Force Base, CO.
  - USINDOPACOM: U.S. Indo-Pacific Command, Camp H.M. Smith, HI.
  - USSOUTHCOM: U.S. Southern Command, Miami, FL.



# Map of Geographic COCOMs



# TRANSCOM and SDDC

---

- USTRANSCOM
  - Responsible for military transportation missions
  - Air (Air Force), Sea (Navy) and Land (Army) component commands handle transportation needs for respective areas
    - Air Mobility Command (AMC)
      - Provide rapid, global mobility and sustainment via airlift and aerial refueling for America's armed forces as well as humanitarian support
    - Military Sealift Command (MSC)
      - Operates approximately 110 non-combatant, civilian-crewed ships that replenish U.S. Navy ships, conduct specialized missions, strategically preposition combat cargo at sea around the world and move military cargo
    - Surface Deployment and Distribution Command (SDDC)







# SDDDC

## SDDDC Command Overview

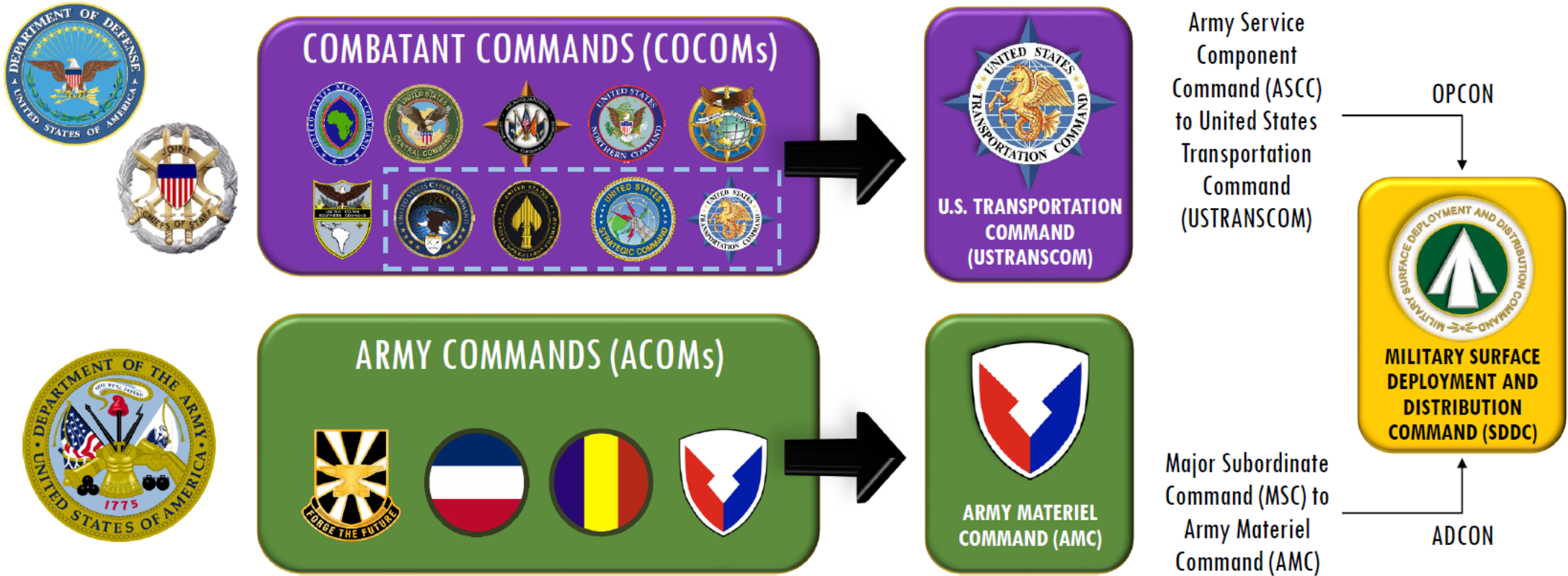


OVERALL CLASSIFICATION: **UNCLASSIFIED**





# SDDC ORGANIZATIONAL STRUCTURE

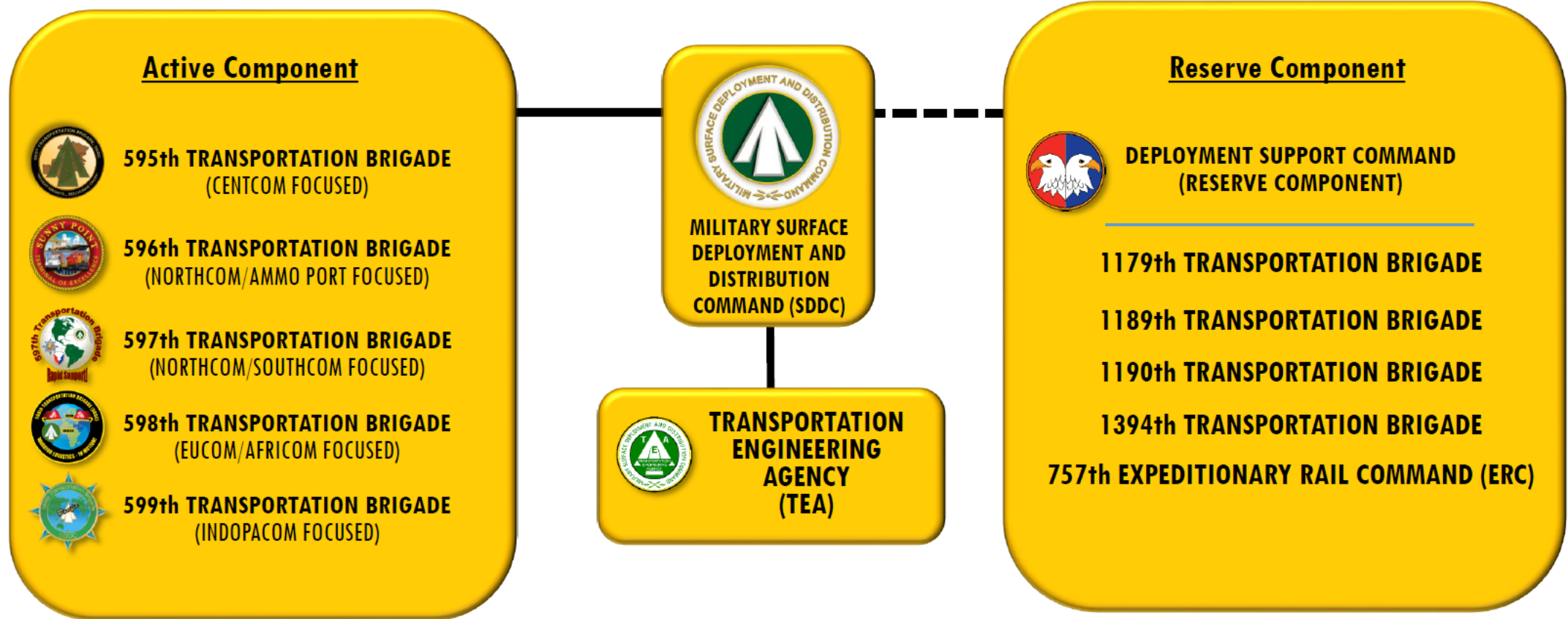


UNCLASSIFIED





# SDDC ORGANIZATIONAL STRUCTURE



UNCLASSIFIED





# SDDC MISSION, VISION & ENDSTATE

## OUR MISSION:

Plan, coordinate, and synchronize global end to end deployment and distribution services to project and sustain our nation's Warfighters in support of national objectives.

## OUR VISION:

A world-class team delivering innovative and responsive global deployment and distribution solutions now and into the future.

## OUR ENDSTATE:

Agile distribution and deployment support provided on time...on target...every time!



UNCLASSIFIED





**MOTCO**  
**MILITARY OCEAN TERMINAL CONCORD**  
 • STRATEGIC AMMUNITION PORT TO THE WEST

**MOTSU**  
**MILITARY OCEAN TERMINAL SUNNY POINT**  
 • STRATEGIC AMMUNITION PORT TO THE EAST

**SDDC FORCES**

- 9 BRIGADES
- 24 BATTALIONS
- 18 ETOEs
- 10 ACDs
- 3 RPOEs
- 1 ERC

**TEA**  
**TRANSPORTATION ENGINEERING AGENCY — SCOTT AFB, IL**

- TRANSPORTATION ENGINEERING
- DEPLOYABILITY ANALYSIS
- MODELING AND SIMULATION
- PROGRAMS FOR NATIONAL DEFENSE:  
 - HIGHWAYS, RAILROADS, PORTS

HEADQUARTERS

DSC

BRIGADES, BATTALIONS, AND DETACHMENTS (SDDC AND HQ)

RECENT SDDC ACTIVITY

**SDDC HEADQUARTERS (SCOTT AFB, IL)**  
**TEA (SCOTT AFB, IL)**

**595<sup>TH</sup> TRANS BDE (CAMP ARIFJAN, KUWAIT)**  
 831<sup>ST</sup> TRANS BN (BAHRAIN)  
 840<sup>TH</sup> TRANS BN (ASH SHUAIBA, KUWAIT)

**596<sup>TH</sup> TRANS BDE (SOUTH PORT, N.C.)**  
 833<sup>RD</sup> TRANS BN (JB LEWIS-MCCORD, WA)  
 834<sup>TH</sup> TRANS BN (CONCORD, CA)

**597<sup>TH</sup> TRANS BDE (JB LANGLEY-EUSTIS, VA)**  
 832<sup>ND</sup> TRANS BN (JB LANGLEY-EUSTIS, VA)  
 841<sup>ST</sup> TRANS BN (CHARLESTON, S.C.)  
 842<sup>ND</sup> TRANS BN (BEAUMONT, TX)

**598<sup>TH</sup> TRANS BDE (SEMBACH, GERMANY)**  
 838<sup>TH</sup> TRANS BN (KAISERSLAUTERN, GERMANY)  
 839<sup>TH</sup> TRANS BN (LIVORNO, ITALY)

**599<sup>TH</sup> TRANS BDE (WHEELER AAF, HI)**  
 835<sup>TH</sup> TRANS BN (OKINAWA, JAPAN)  
 836<sup>TH</sup> TRANS BN (YOKOHAMA, JAPAN)  
 837<sup>TH</sup> TRANS BN (BUSAN, ROK)  
 SDDC NRU PACIFIC (NAVY RESERVE) (ALAMEDA, CA)

**DEPLOYMENT SUPPORT COMMAND (DSC) (U.S. ARMY RESERVE) (BIRMINGHAM, AL)**  
**1179<sup>TH</sup> TRANS BDE (FORT HAMILTON, NY)**

1173<sup>RD</sup> DDSB (BROCKTON, MA)  
 1174<sup>TH</sup> DDSB (FLUSHING, NY)  
 1185<sup>TH</sup> DDSB (LANCASTER, PA)  
 1398<sup>TH</sup> DDSB (BALTIMORE, MD)

**1189<sup>TH</sup> TRANS BDE (CHARLESTON, SC)**  
 1182<sup>ND</sup> DDSB (NORTH CHARLESTON, SC)  
 1186<sup>TH</sup> DDSB (JACKSONVILLE, FL)  
 1188<sup>TH</sup> DDSB (DECATUR, GA)

**1190<sup>TH</sup> TRANS BDE (BATON ROUGE, LA)**  
 1181<sup>ST</sup> DDSB (MERIDIAN, MS)  
 1184<sup>TH</sup> DDSB (MOBILE, AL)  
 1192<sup>ND</sup> DDSB (NEW ORLEANS, LA)

**1394<sup>TH</sup> TRANS BDE (CAMP PENDLETON, CA)**  
 1395<sup>TH</sup> DDSB (SEATTLE, WA)  
 1397<sup>TH</sup> DDSB (VALLEJO, CA)

**757<sup>TH</sup> ERC (GRAFTON, IL)**

UNCLASSIFIED





# OUR STRENGTH: SDDC's PEOPLE

## SDDC Authorizations

1,460 **Civilians**  
 500 **Contractors**  
 408 **Active Duty**  
 231 **Local Nationals**  
**2,599 TOTAL**

## DSC Authorizations

105 **HQ DSC**  
 244 **4 Brigades (61 ea)**  
 181 **1 Expeditionary Rail Center**  
 1,128 **12 Battalions (DDSB) (94 ea)**  
 738 **18 ETOEs (41 ea)**  
 200 **10 ACDs (20 ea)**  
 4 **2 Chap Dets (2 ea)**

**2,600 TOTAL**

**SDDC's  
Total Force  
~5,200**

**MILITARY:**

- Average age of assigned active duty military personnel: 38 years old
- Average years of service for active duty military personnel: 16 years
- Total assigned active duty military personnel, command-wide: 408
- Breakout of the 408 military personnel by service:
  - Army assigned active duty personnel: 388
    - Officers: 131
    - Enlisted: 257
  - Navy assigned active duty personnel: 13
    - Officers: 13
    - Enlisted: 0
  - Air Force assigned active duty personnel: 7
    - Officers: 7
    - Enlisted: 0

**CIVILIAN:**

- Civilian Employees assigned to SDDC: 1,460
- Average age: 49
- Average Years of Service: 16
- Retirement eligible within 2 years: 23%
- Civilians retired from the Military: 319



**UNCLASSIFIED**



# SDDC's COMPREHENSIVE READINESS

SDDC's comprehensive readiness connects combat power and lethality to conveyances, links the global distribution network to the warfight, and provides a lens through which the command evaluates operational effectiveness.



UNCLASSIFIED

7



National Capital Region  
Transportation Planning Board



# SDDC's LINES OF OPERATION

**SURFACE WARRIORS  
DELIVER READINESS  
ON TIME, ON TARGET,  
EVERY TIME!**

- Leader in DOD Deployment and Distribution Solutions
- Global Focus
- Mode and Node Neutral
- Commercial Partners

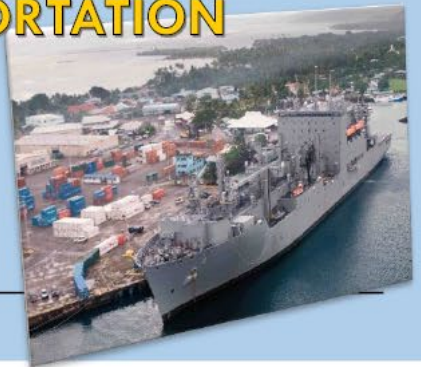
**DOMESTIC  
TRANSPORTATION**



**TRANSPORTATION  
ENGINEERING**



**INTERNATIONAL  
TRANSPORTATION**



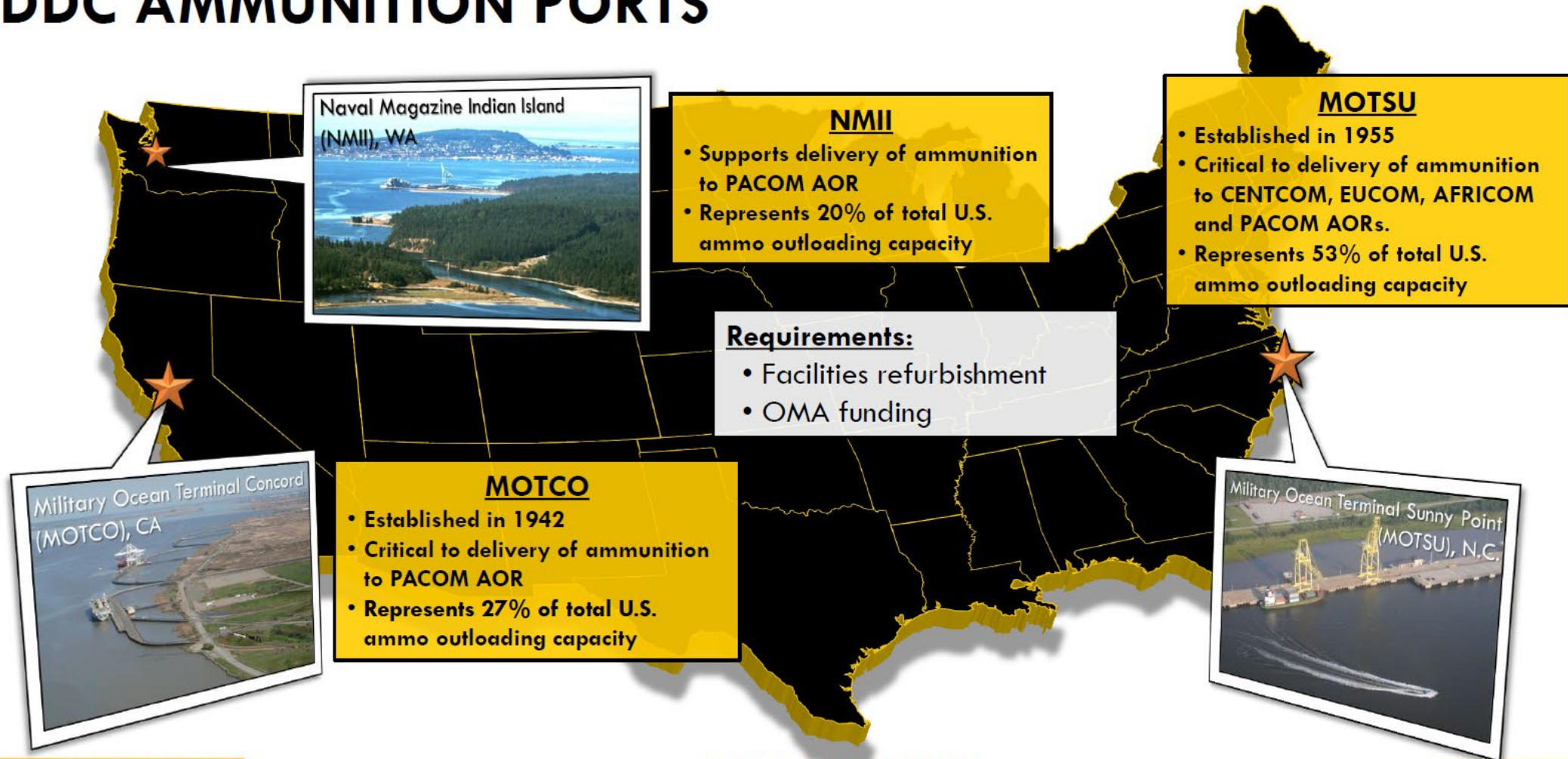
**UNCLASSIFIED**







# SDDC AMMUNITION PORTS



UNCLASSIFIED





# OUR COMMITMENT



**The Warfighter knows that SDDC will ensure the right equipment is delivered on time, on target, every time, to ensure mission success.**

**UNCLASSIFIED**

10



National Capital Region  
**Transportation Planning Board**

# Takeaways

---

- Know about STRAHNET
  - Include in federally required planning documents
  - Map programmed projects to STRAHNET
- Outreach to DOD partners to see if any needs
  - Be aware of military transportation needs



## Eric Randall

TPB Transportation Engineer

(202) 962-3254

[erandall@mwkog.org](mailto:erandall@mwkog.org)

[mwkog.org/tpb](http://mwkog.org/tpb)

---

Metropolitan Washington Council of Governments

777 North Capitol Street NE, Suite 300

Washington, DC 20002



National Capital Region  
**Transportation Planning Board**