# MILITARY INSTALLATION RESILIENCE REVIEW (MIRR) BRIEFING

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Planning Directors Technical Committee July 21, 2023



## Military-Community Planning for Resilience

- Department of Defense (DoD) Office of Local Defense Community Cooperation (OLDCC)
- Planning Grants Military Installation Resilience Review (MIRR)
- Office historically managed the Base Realignment and Closure Program (BRAC) program.
- What investments can DoD make "Outside the Fenceline" in the Community to "Enhance Resilience of the Missions on the Base".

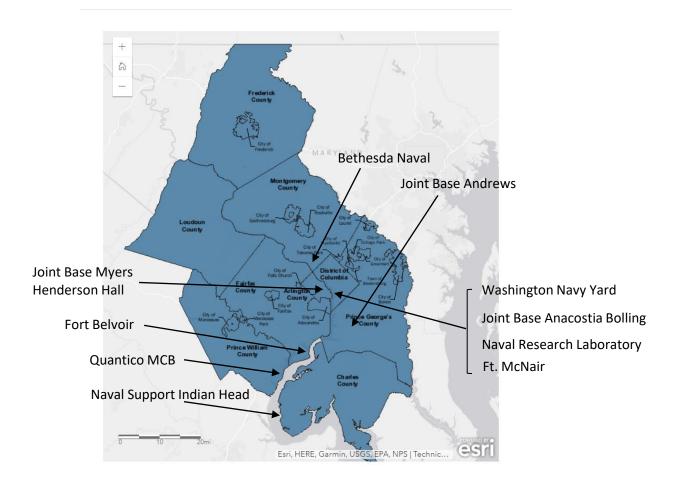


## Military-Community Planning for Resilience

- Community-Led Planning Initiative
  - Vulnerability and Risk Assessment
  - Focus on Key Sectors and Infrastructure
  - Identify Strategies and Actions to Bolster Resilience
  - Fund Planning and Engineering Feasibility Studies
  - Not Construction



## MIRR Projects in the Region





## MIRR Projects in the Region

- COG Joint Base Anacostia Bolling, Washington Navy Yard, Naval Research Laboratory, Ft. McNair
- NVRC Fort Belvoir, Joint Base Myer Henderson Hall, Quantico
- Charles County Naval Support Facility Indian Head
- Montgomery County Naval Support Activity Bethesda
- Prince George's County Joint Base Andrews



## **Vulnerability Assessment**

- Desk Research, Installation Site Visits
- Meet with Base Commander, Master Planners, Engineers
- MIRR Technical Advisory Committee (TAC)
- MIRR Policy Advisory Committee (PAC)
- DC Agencies DC OP, DDOT, DC HSEMA, DOEE
- Key Stakeholders Pepco, Washington Gas, DC Water, Telecomm, WMATA



## **Priority Hazards and Stressors**

#### Selection criteria for hazards-filtered by:

- Critical infrastructure service sensitivity/exposure;
- Degree of impact on installation function (frequency, severity, extent)

#### Tier 1:

 Flooding (incl. riverine, interior, and coastal)

#### Tier 2

- Extreme heat
  - Ice storm
  - High wind
- ↑ Population growth
  - Land use, development, & encroachment

#### Tier 3:

- Drought
- Snow storm
- Extreme cold
- Noise & Vibration
- Hazardous Materials
- Earthquake
- Ecosystem change
- Other (e.g., electromagnetic storm)

= significant future increase very likely



## **Priority Sectors**



Energy



Telecommunications



Transportation, Transit, Land Use



**►** Water and Wastewater



## Phase 2: Priority Vulnerabilities

- Critical telecommunications assets
- Specific areas and critical assets vulnerable to flooding
- Encroachment
- Strain to regional water supply
- Stress on region's transportation system

- Electricity distribution Limited safe, reliable, and efficient mobility choices
  - Regional petroleum fuel supply
  - Affordable workforce housing
  - Workforce availability and retention
  - Communication and coordination



### Resilience Recommendations

- Continue Engagement and Coordination
  - COG Approach TBD
  - NVRC has regular Community, Military, and Federal Facility Partnership Meetings
- Advance Identified Measures to Address Vulnerabilities and Enhance Resilience
  - 4 top measures, 14 Total, + Honorable Mention





## **Top Resilience Measures and Key Actors**

	Measure	Actor(s)
$\stackrel{\wedge}{\sim}$	Retrofitstormwater pumping stations	Leaders: DC Water; Partners: Electric utility (Pepco)
	Assess and address key risks to telecommunications systems	Leaders: HSEMA and telecommunications service providers; Partners: Local and federal government actors, electric service providers, Communications Sector Coordinating Council first responders, and other major users
	Support Blue Plains floodwall construction	Leaders: DC Water; Partners: HSEMA, Ward 8 representatives
	Ensure Lower Anacostia Waterfront redevelopment is resilient	Leaders: DCOP; Partners: Fort McNair, WNY, NCPC, National Park Service, DOEE, HSEMA, Anacostia Parks and Community Collaborative
	Provide financial support for Blue Plains microgrid	Leaders: DC Water; Partner: Pepco
	Construct community electric vehicle charging stations	Leaders: Charging station site hosts; Partners: Pepco, MWCOG, DDOT, installations, EV service providers (e.g., ChargePoint)
	Advance fuel resilience opportunities identified in RRAP study to benefit installations and communities	Leaders: CISA, DC HSEMA, DC DOEE; Partners: RRAP study stakeholders, terminal operators, energy marketers, energy assurance planners, emergency management agencies, and electric power utilities
	Expand connectivity to/from High-Capacity Transit Station Areas	Leaders: DDOT Vision Zero Department; DDOT Planning and Sustainability Department; WMATA; Partners: DCOP Citywide Strategy & Analysis and Community Planning & Design, Anacostia BID, Anacostia Coordinating Council, ANCs, HSEMA
	Create installation viewshed security plan	Leaders: NCPC Heights and Views; Partners: HSEMA, DCOP, DHS, NRL, MWCOG, FBI Washington Field Office, Capitol Riverfront BID, Anacostia, ANCs
	Implement congestion relief and traffic control measures	Leaders: DDOT and NVRC; Partners: MPD, WMATA, MWCOG
	Increase shade cover and green infrastructure	Leaders: DDOT Urban Forestry, DOEE; Partners: NPS, USDA Forestry Service, MWCOG
	Invest in workforce development for in-demand skills	Leaders: Department of Employment Services (DOES); Partners: DOEE Sustainable Energy Utility and Green Infrastructure, DC Water (especially Blue Plains AWTP), DDOT Public Space Management and Maintenance, DCOP Citywide Strategy & Analysis
	Develop suspicious activity and trespassing prevention plan	Leaders: Installations,; Partners: MWCOG, HSEMA National Capital Region Threat Intelligence Consortium (NTIC), NPS Police, ANCs, BIDs, DCOP Development Review & Historic Preservation, NCPC Security of Federal & Public Spaces
	Invest in affordable housing	Leaders: DC Department of Housing and Community Development, Development Finance Division and DC Housing Authority, DCOP Development Review, DCOP Citywide Strategy and Analysis Division; Partners: MWCOG, ANCs for Wards 6 and 8

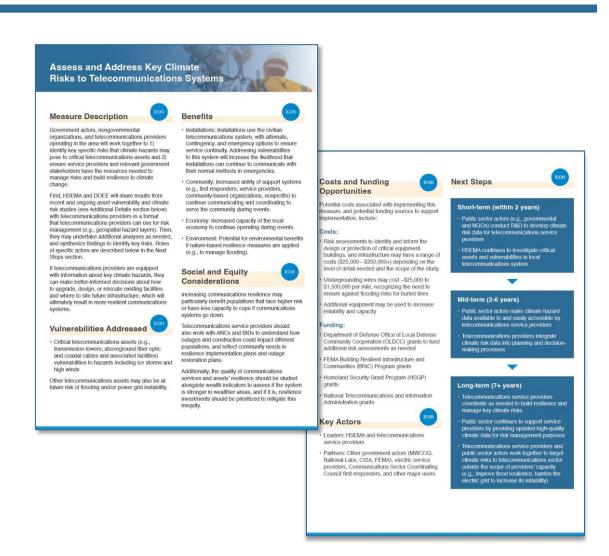




### For Each Measure:

# Implementation profile:

- Measure description
- Vulnerabilities addressed
- Benefits
- Social and equity considerations
- Costs and funding opportunities
- Key actors
- Next steps
- Additional details



## **Priority Measures**

Retrofit stormwater pump stations

Key Actors DC Water

Partners: Electric utility (Pepco)

Immediate Next Steps: Request additional funding (potentially from OLDCC, FEMA BRIC)



Assess and address key climate risks to telecommunications systems

Key Actors HSEMA and telecommunications service providers

Partners: Local and federal government actors, electric service providers, Communications Sector Coordinating Council first responders, and other major users

#### Immediate Next Steps:

- Public sector actors conduct R&D to develop climate risk data for telecommunications service providers
- HSEMA continues to investigate critical assets and vulnerabilities in local telecommunications systems

Support Blue Plains floodwall construction

Key Actors
DC Water

Partners: HSEMA, Ward 8 representatives

- Funding BRIC and OLDCC
- Community outreach
- Design & Engineering studies
- Consultation with agencies





## **Additional Priority Measures**

Ensure Lower Anacostia
Waterfront development
is resilient

### Key Actors DCOP

Partners: Fort McNair, WNY, NCPC, National Park Service, DOEE, HSEMA, Anacostia Parks and Community Collaborative

#### Immediate Next Steps:

- Develop resilience action plan
- Conduct flood studies
- Community engagement
- Secure funding
- Track progress of Poplar Point EIS effort and provide input as stakeholders
- Develop resilience guidelines
- Scope resilience measures
- Begin implementation

# Provide financial support for Blue Plains microgrid

Key Actors
DC Water

Partner: Pepco

#### Immediate Next Steps:

- Request additional funding from DoD
- DC Water completes microgrid scoping phase supported primarily by FEMA funding
- DC Water begins microgrid implementation phase, supported by additional external funding



Advance fuel resilience opportunities identified in RRAP study to benefit installations and communities

Key Actors CISA, DC HSEMA, DC DOEE

Partners: RRAP study stakeholders, terminal operators, energy marketers, energy assurance planners, emergency management agencies, and electric power utilities

- Engage installations and utilities in conducting RRAP study
- RRAP stakeholders identify opportunities to build energy resilience for installations and critical staff



## **Transportation Sector Measures**

# Construct community electric vehicle charging stations

#### **Key Actors**

Leaders: Charging station site hosts

Partners: Pepco, MWCOG, DDOT, installations, EV service providers (e.g., ChargePoint)

#### Immediate Next Steps:

- Identify and convene key stakeholders to develop plans for EV siting and construction; apply for funding to pay community stakeholders for their time
- Secure funds to build EV stations, begin construction if possible
- Keep tabs on additional funding opportunities that may support additional charging stations

# Expand connectivity to/from High-Capacity Transit Station Areas

#### **Key Actors**

Leaders: DDOT Vision Zero Department; DDOT Planning and Sustainability Department; WMATA.

Partners: DCOP Citywide Strategy & Analysis and Community Planning & Design, Anacostia BID, Anacostia Coordinating Council, ANCs, HSEMA

#### Immediate Next Steps:

- Key actors to engage with partners about the existing transportation conditions between HCTs and the installations.
- Conduct analyses to identify gaps in infrastructure and any planned or implemented projects.

# Implement congestion relief and traffic control measures

#### **Key Actors**

Leaders: DDOT and NVRC

Partners: MPD, WMATA, MWCOG

- Analyze and prioritize areas of frequent congestion from their operations and workforce staff
- Engage with stakeholders to recommend the expansion of congestion mitigation measures proposed for those areas



Item #10: MIRR Project Presentation July 21, 2023

### **Honorable Mention**

#### Honorable mention physical & policy measures

- Continue to explore opportunities to add Potomac River Ferry stops near installations.
- Train workers to maintain green infrastructure and other capital projects.
- Coordinate and advocate for funding for water supply alternatives.







### **Other Measures**

## Increase shade cover and green infrastructure

**Key Actors** 

Leaders: DDOT Urban Forestry,

DOEE

Partners: NPS, USDA Forestry

Service, MWCOG

#### Immediate Next Steps:

 Develop an initial baseline inventory of the area's tree canopy and impervious surface cover



# Invest in workforce development for indemand skills

#### **Key Actors**

Leaders: Department of Employment Services (DOES)

Partners: DOEE Sustainable
Energy Utility and Green
Infrastructure, DC Water
(especially Blue Plains AWTP),
DDOT Public Space Management
and Maintenance, DCOP Citywide
Strategy & Analysis

#### Immediate Next Steps:

- Identify workforce development organizations and programs
- Identify and prioritize the workforce needs of each installation

## Invest in affordable housing

#### **Key Actors**

Leaders: DC Department of Housing and Community Development, Development Finance Division and DC Housing Authority, DCOP Development Review, DCOP Citywide Strategy and Analysis Division

Partners: MWCOG, ANCs for Wards 6 and 8

- Prepare grant applications for funding
- Conduct roundtable discussions between actors
- Identify and convene stakeholders for project engagement
- Plan community engagement efforts to publicize the project



### **Other Measures**

# Develop suspicious activity & trespassing prevention plan

#### **Key Actors**

Leaders: Installations, DCOP
Development Review & Historic
Preservation, NCPC Security of
Federal & Public Spaces
Partners: MWCOG Department
of Homeland Security and Public
Safety, HSEMA National Capital
Region Threat Intelligence
Consortium (NTIC), NPS Police,
ANCs, BIDs

- Identify past or current efforts to address suspicious activity leading to trespassing.
- Organize and commence roundtable discussions.



## **Next Steps**

- Applying for Follow-on FY 24 Planning Grant from OLDCC
- Top 3 of interest to date
  - Energy Emergency Exercise Extended Grid Outage
  - Follow up on DC HSEMA Telecommunications Resilience Project
- Other/Potential
  - Plan to connect new trail on JBAB/NRL to South Capitol St. Bike/Ped projects
  - Examine Connectivity Options to High-Capacity Transit
- Coordination with NVRC, Recently completed MIRR Study



### **MIRR Contact Information**

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