MILITARY INSTALLATION RESILIENCE REVIEW (MIRR) BRIEFING

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Transportation Planning Board February 15, 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".

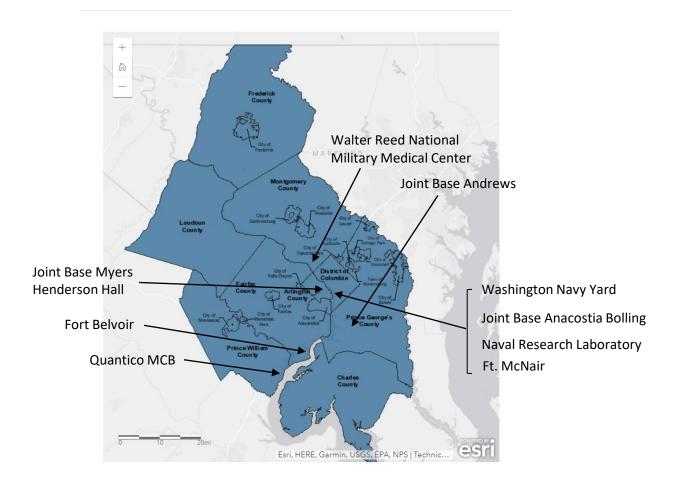


Military-Community Planning for Resilience

- 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 Indian Head
- Montgomery County Walter Reed National Military Medical Center
- Prince George's County Andrews AFB



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 and Transit



Water and Wastewater



Phase 2: Priority Vulnerabilities

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

- Limited safe, reliable, and efficient mobility choices
- Regional petroleum fuel supply
- Encroachment
- 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)
Retrofit stormwater 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 flo	oodwall construction	Leaders: DC Water; Partners: HSEMA, Ward 8 representatives
Ensure Lower Anacost resilient	ia Waterfront redevelopment is	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 of	electric vehicle charging stations	Leaders: Charging station site hosts; Partners: Pepco, MWCOG, DDOT, installations, EV service providers (e.g., ChargePoint)
	e opportunities identified in RRAP lationsand 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 Areas	o/from High-Capacity Transit Station	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 view	wshed 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 de	velopment 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

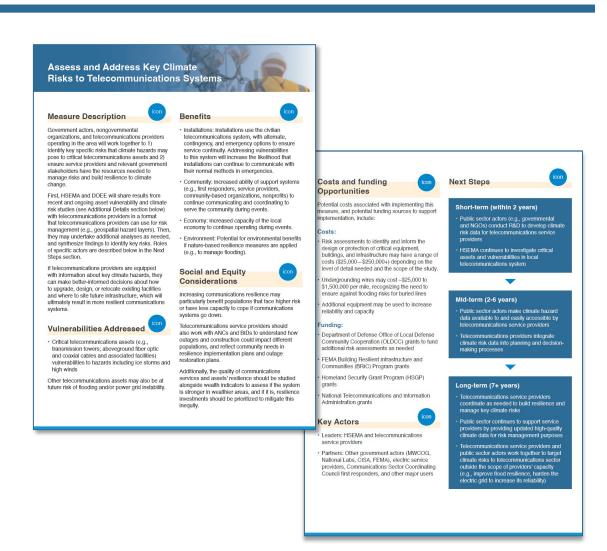




For Each Measure:

Implementation profile:

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



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



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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.





Next Steps

- Applying for Follow-on FY 23 Planning Grant from OLDCC
- Seeking community and base input on priorities (Feb)
- Top 3 of interest to date
 - JBAB Floodwall Extend north to 11th St. Bridge
 - 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



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

Immediate Next Steps:

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

Metropolitan Washington Council of Governments

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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

Immediate Next Steps:

Strategy & Analysis

- 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.



MIRR Contact Information

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