Strategy for Military and Community Resilience in Metropolitan Washington

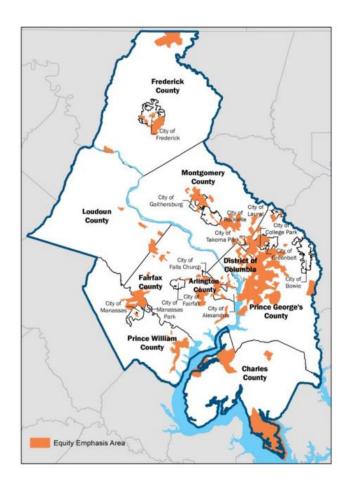
Steve Bieber, Water Resources Program Director





The COG Region

- Metropolitan Washington Council of Governments (COG), is a nonprofit regional planning association, with a membership of 300 elected officials from 24 local governments, the Maryland and Virginia state legislatures, and U.S. Congress.
- The COG region is comprised of 24 jurisdictions that reach urban, suburban, and rural communities that range in size from about 10,000 to more than one million residents. This includes jurisdictions in suburban Maryland, Washington D.C., and Northern Virginia.
- More than 1,500 officials and experts connect monthly through COG to develop solutions and plans for the region's major challenges.





MIRR Overview



PURPOSE

» Identify key threats to resilience of military installations and outside-the-fence measures to build resilience for both the installations and surrounding communities



FOCUS REGION

- » Geographic area: Washington, D.C.
- » Specific installations: Joint Base Anacostia-Bolling, Washington Navy Yard, Fort McNair, Naval Research Laboratory



PROJECT PHASE

- » Establish priority sectors, hazards, and stressors
- » Conduct vulnerability assessment
- » Develop resilience strategy, including priority measures

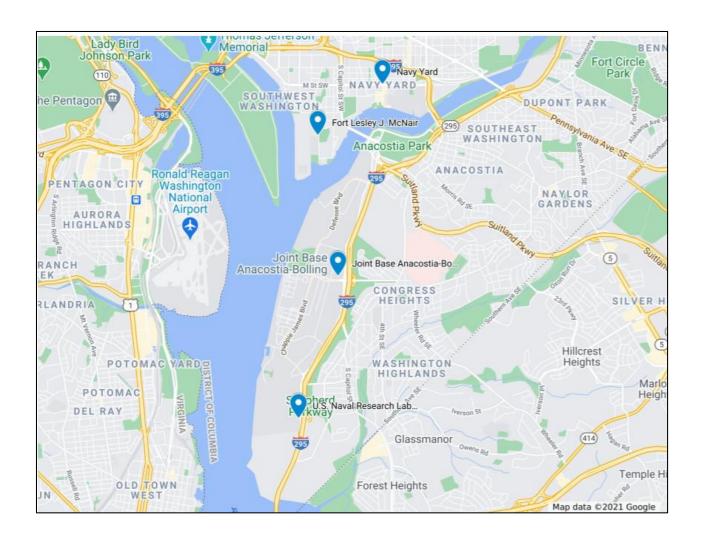


CORE TENETS

- » Advance communication and coordination among stakeholders
- » Enable implementation of recommendations post-project
- » Integrate equity as a priority

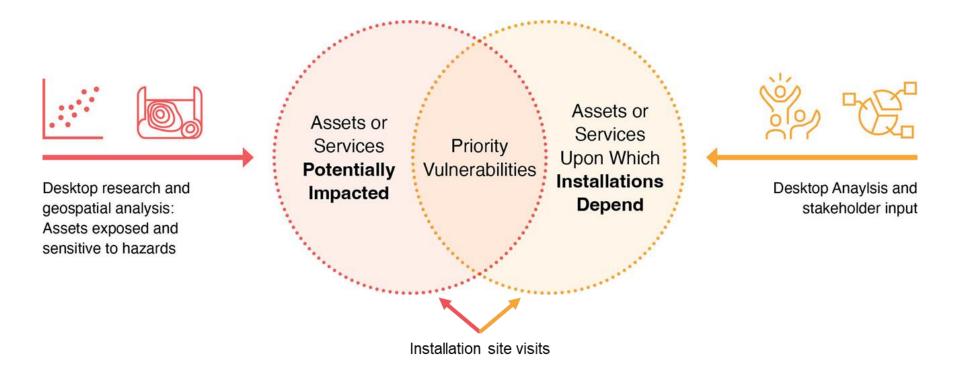


Installation Locations





Vulnerability Assessment Approach





Key Findings

- Flooding and extreme heat are the climate hazards of most concern to assets, sectors, and the installations
- The MIRR identified 14 priority measures to enhance regional resilience.
- Continued collaboration and communication on resilience measures is critical for implementation of MIRR recommendations.

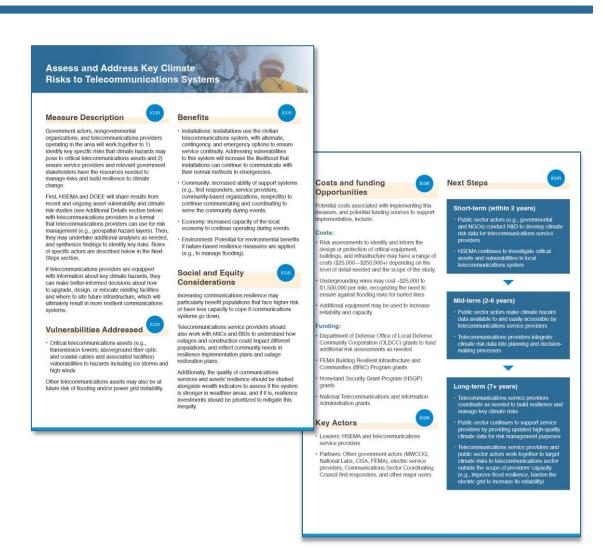




For Each Measure:

Implementation profile:

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





Priority Physical and Policy 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

Immediate Next Steps:

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



Lessons Learned

- Communicating protection surrounding data collection and usage is essential, be mindful of sensitivities of stakeholders
- Integrated approach to resilience planning is key
- Relationship building is essential
 - COG met regularly with an internal project team that included installation liaisons, this assisted in deepening relations with the military installations
 - Build connections with multiple installation SME's
- The study highlighted two challenges for resilience implementation
 - Cross-jurisdictional boundaries and constraints
 - Funding



Next Steps

- COG completed the MIRR in December 2022
- Received FY-24 Implementation Grant from OLDCC
 - Climate assessment for telecommunications
 - Develop plan for increased coordination with the District government and installations
 - Conduct two scenario-based workshops
 - Extended power outage affecting electric utilities and water supply
 - Extended outage of telecommunications
 - Roadmap for Solutions and Financing



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