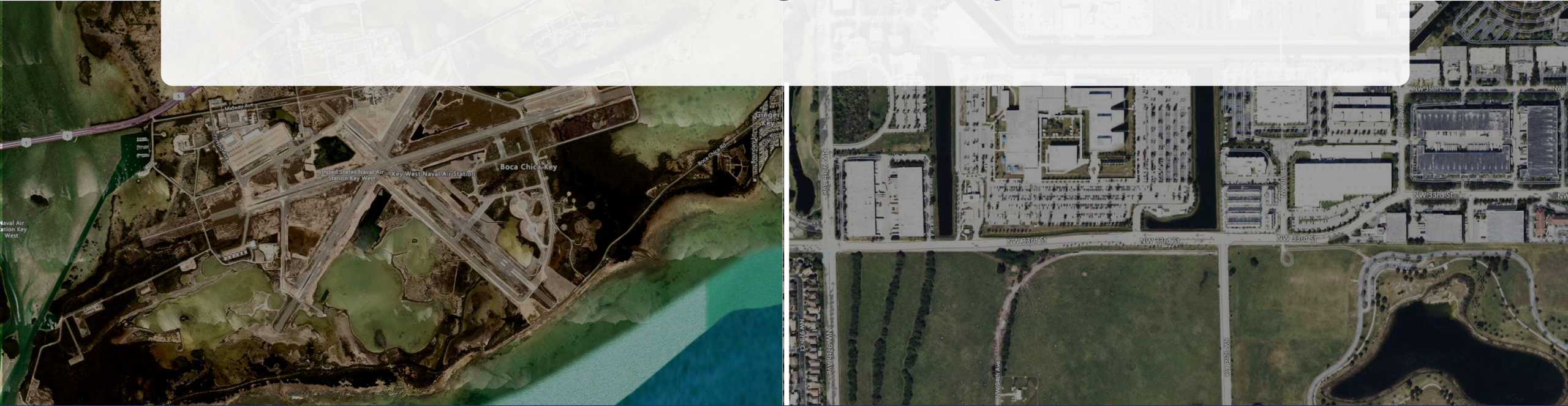


South Florida Military Installation Resilience Review: *Mission Assurance through Community Resilience*



Funded in part by DOD - OLDCC





MISSION ASSURANCE THROUGH COMMUNITY RESILIENCE

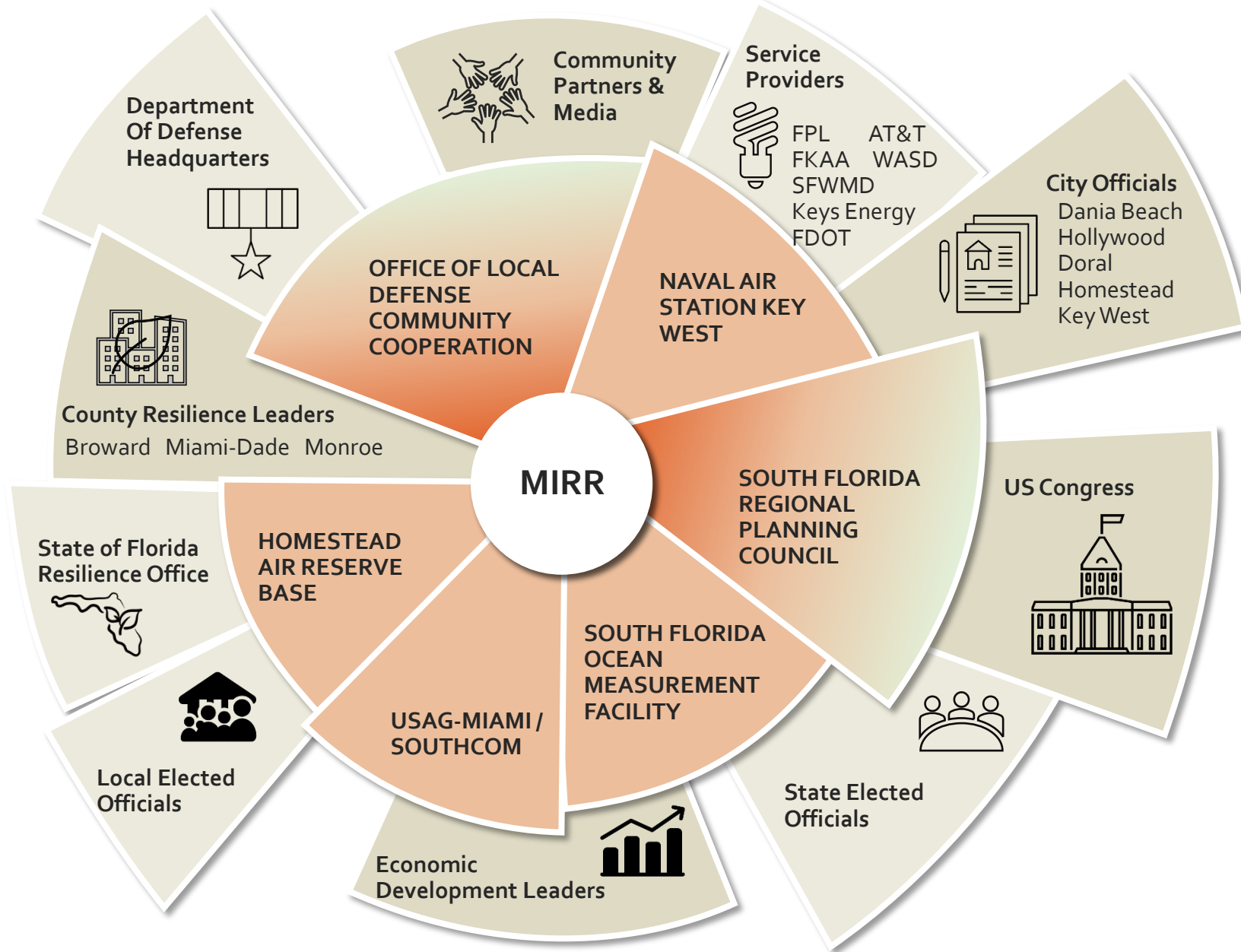
Protect and preserve military readiness and defense capabilities through funded interventions to supporting infrastructure



Improve the public health, safety and general welfare of those living and working at or near the installations through implementable, maintainable interventions

Increase public awareness of the military missions through closer communications and interventions that are integrated with ongoing community resilience planning

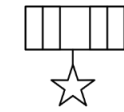
ADAPTATION: LEVERAGING LOCAL EFFORTS



Identify & Align Projects to Optimize Funding

- ❖ Capital Improvement Plans
- ❖ Comprehensive Development Master Plans
- ❖ Long Range Transportation Plans
- ❖ Local Mitigation Strategies
- ❖ Adaptation Studies
- ❖ Resilience Strategies & Plans

STAKEHOLDER ENGAGEMENT & REGIONAL COOPERATION



Department Of Defense
Headquarters



State Elected
Officials



County Resilience
Leaders



City Officials



State of Florida
Resilience Office



US Congress



Local Elected
Officials



Service
Providers

Community
Partners & Media

Economic Development
Leaders

South Florida Regional Planning Council

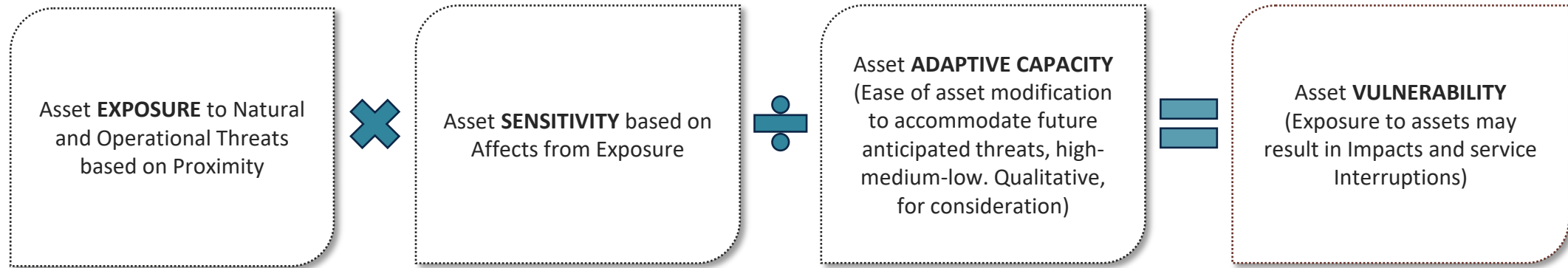
STAKEHOLDER WORKSHOP INPUT

COMMON VULNERABILITIES

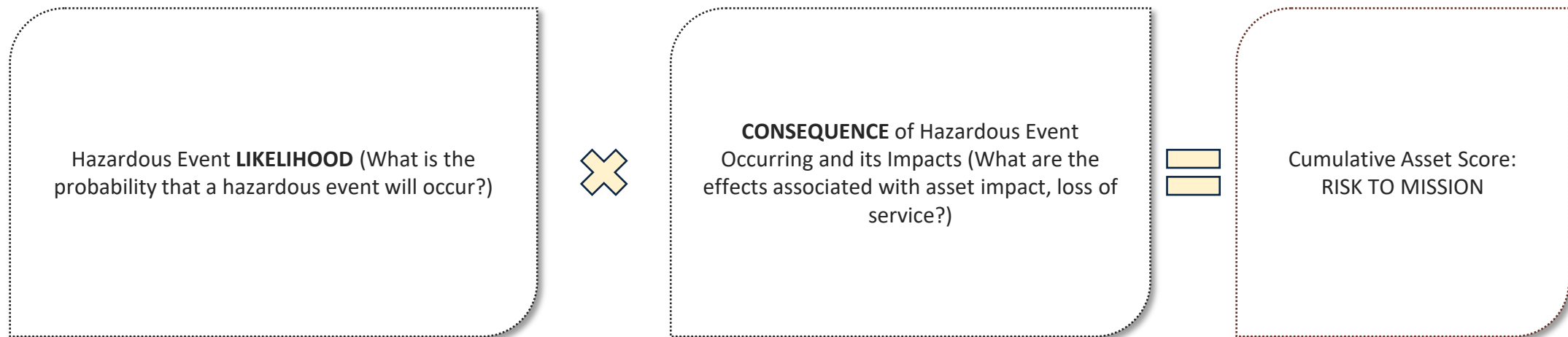
	Common Vulnerabilities												
	Stress											Shock	
	Dependencies		Transportation		Power	Climate Change		Housing/Zoning		Ecosystems		Disaster	
	Lack of fuel (post-disaster)	Supply chain	Road flooding	Single entrance access points	Electric supply	Extreme heat	Sea level rise	Encroachment	Housing costs	Shoreline erosion	Invasive species damage	Turkey Point nuclear incident	Runway/road flooding
SFOMF													
Core Mission Asset (Underwater Cables)										X			
All Others			X	X	X	X	X	X		X	X		X
USAG													
Core Mission Asset (C3 - Command Control Communications)					X								
All Others	X		X			X		X	X			X	
HARB													
Core Mission Asset (Airfield)													X
All Others	X		X		X	X	X	X	X			X	
NASKW													
Core Mission Asset (Airfield)							X			X			X
All Others	X	X	X	X	X	X		X	X	X	X		



DETERMINING VULNERABILITY & RISK IN A STATE APPROVED PROCESS

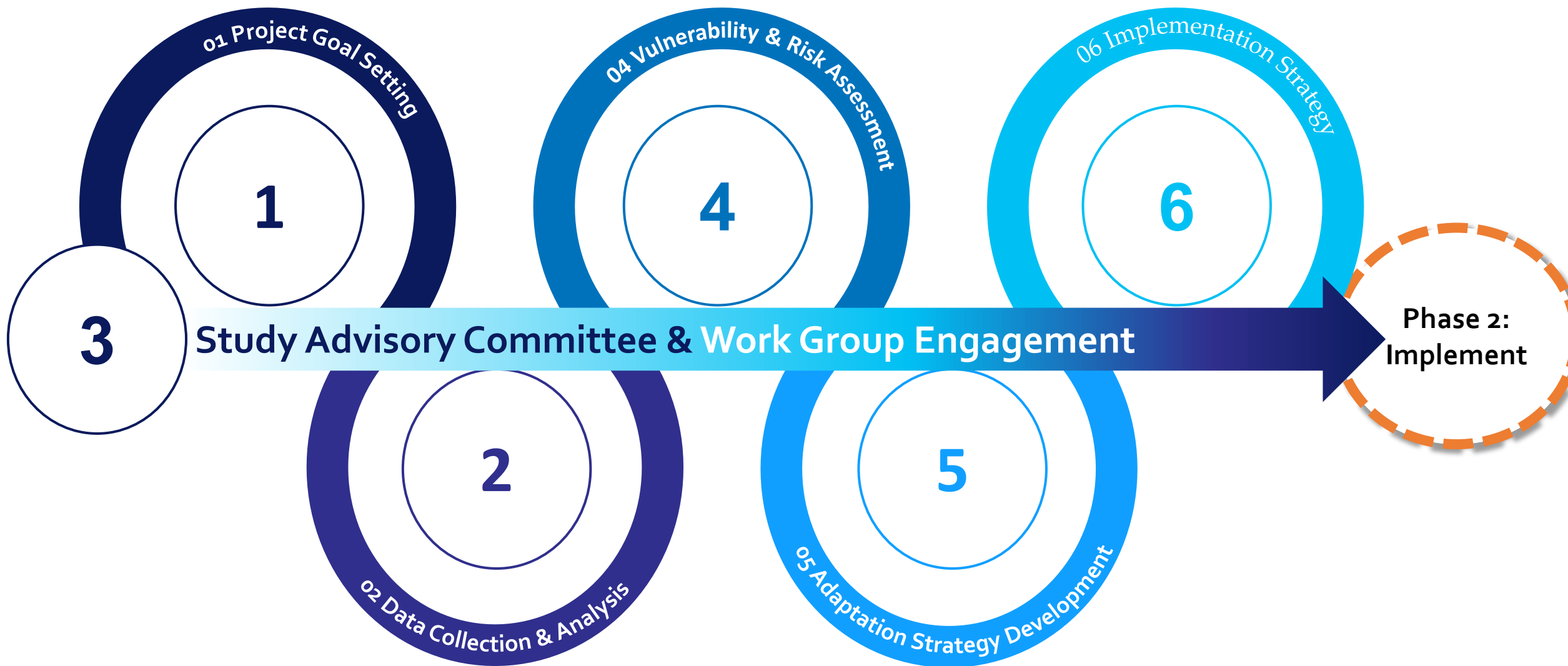


Once vulnerable assets are identified, a risk score is calculated for those vulnerable assets.





PLANNING → IMPLEMENTATION



ADAPTATION PROJECTS



Joint Participation Agreement



Shoreline Protection



Roadway Improvements



Resilient Utilities



Right-of-Way (ROW) Improvements



Attainable Housing



Opportunity: Resilience Hub



Water & Wastewater Utilities



Land Management



REPI

READINESS AND ENVIRONMENTAL
PROTECTION INTEGRATION PROGRAM



The South Florida Military Installation Resilience Review

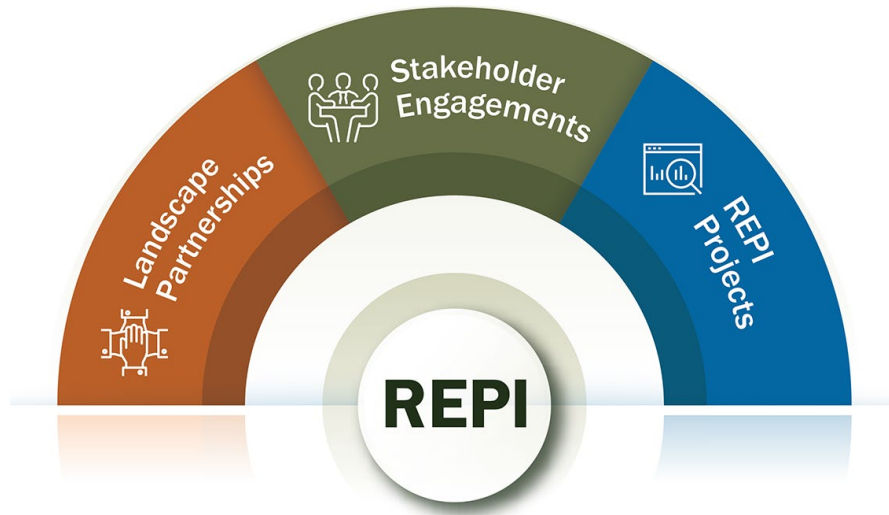
Association of Defense Communities Installation Innovation Forum

November 8, 9:30 – 10:15 AM

Andy Porth, Director for REPI Projects and Resources, Office of the Assistant
Secretary of Defense (Energy, Installations, and Environment)

What is the REPI Program?

The DOD Readiness and Environmental Protection Integration (REPI) Program preserves military missions by **supporting cost-sharing agreements** between the Military Services, other federal agencies, state and local governments, and private conservation organizations to **avoid land use conflicts** near military installations, **address environmental restrictions** that limit military activities, and **increase resilience to climate change**.



SUSTAINING Military Mission Capabilities **THROUGH** **INNOVATIVE** Land Protection Solutions

The Department of Defense's Readiness and Environmental Protection Integration (REPI) Program is a key tool for promoting innovative and land conservation partnerships that benefit national defense, neighboring communities, and the environment.

Parachute training is halted when housing developments are built near drop sites

80% of military bases have surrounding development that is higher than the national average

Wildfires, floods, and extreme storms result in billions of dollars in damage to military installations and significant readiness impacts

Urban sprawl decreases habitat and may cause Federally protected species to seek sanctuary on military lands

Realistic combat training, pristine test environments, and operational capability are keys to keeping our service members safe. However, encroachment issues are creating obstacles that threaten military activities.

Weapons testing and training causes noise, dust, and smoke complaints from nearby communities

Flight testing, training, and operations are impeded by cellphone towers, wind farms, and developments

Night training is compromised when light pollution from nearby commercial areas spreads



UNITED STATES DEPARTMENT OF DEFENSE

REPI READINESS AND ENVIRONMENTAL PROTECTION INTEGRATION PROGRAM

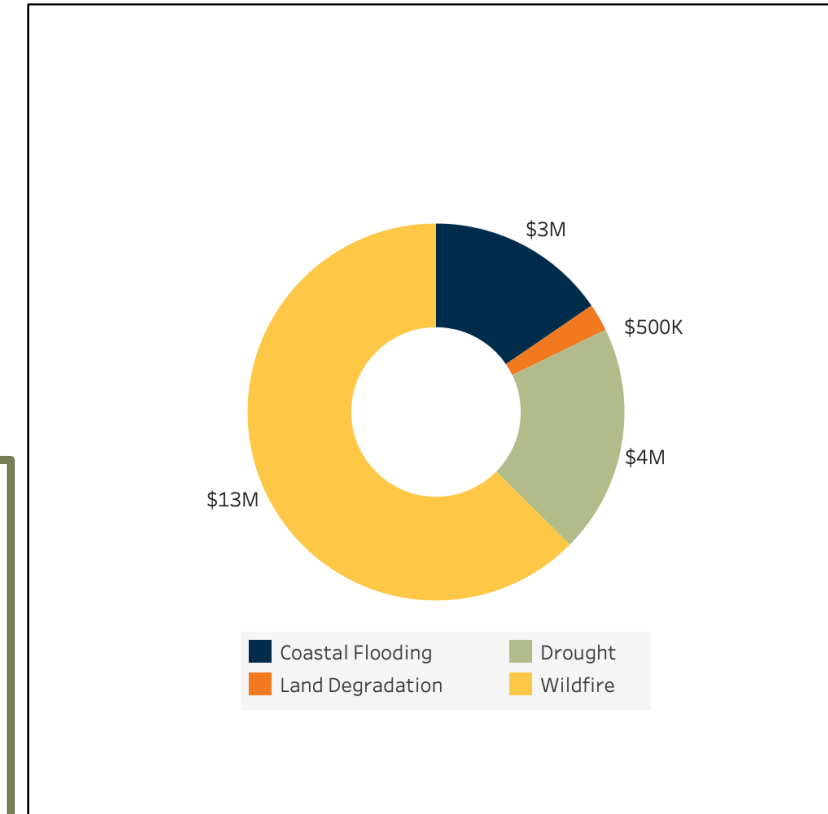


What does Military Installation Resilience Mean to REPI?

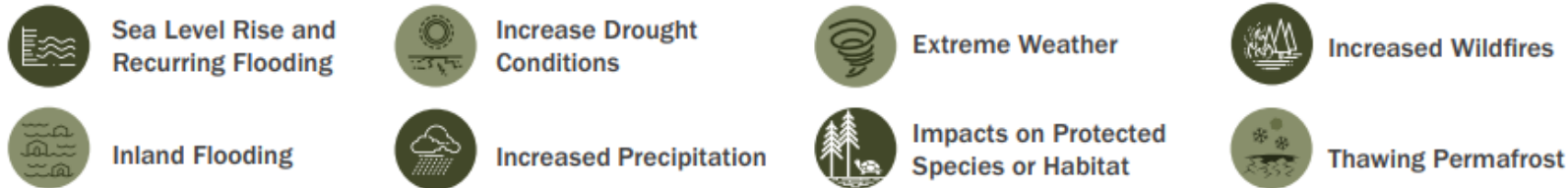
Authorized by 10 U.S.C. § 2684a REPI resilience projects **protect, restore, and enhance off-base nature-based solutions** and sustain military mission capabilities.

- Nature-based solutions help installations prevent, prepare for, and recover from anticipated or unanticipated changes in environmental conditions.
- When executing a resilience project, installations may also leverage the **Sikes Act** or **IGSA** Authorities.

DOD Expenditures Toward Parcels Impacted by Climate Threats through FY 2022



What are Climate Change Impacts?

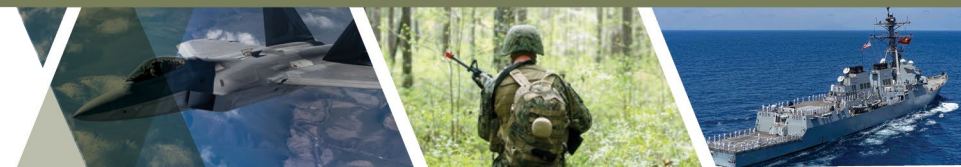


Read more about the impacts of climate change at <https://repiprimers.org/resilience/>.



UNITED STATES DEPARTMENT OF DEFENSE

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REPI Challenge

- **Twelve years** of the REPI Challenge have resulted in the following benefits at **52 locations**:
 - **\$144 million** in REPI Program funds investing in protecting critical missions
 - **\$437 million** in partner contributions, providing a cost savings ratio of 3:1
 - **52 locations** with projects promoting compatible land uses, restoring critical habitats, and enhancing climate adaptation efforts

The REPI Program designed the REPI Challenge, an annual competition that aims to:



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PROTECTION INTEGRATION PROGRAM



National Coastal Resilience Fund (NCRF)

- NCRF supports nature-based solutions that enhance the resilience of coastal communities and habitats.
- Since its creation in 2018, the NCRF has invested more than \$277 million to 270 projects, leveraging more than \$300 million in conservation resources for a total conservation impact of \$579 million.
- In 2022, the REPI Program contributed **\$15 million in REPI Challenge** funding to **seven NCRF projects** that use nature-based solutions to protect key coastal installations.

1. **Marine Corps Air Station New River and Marine Corps Base Camp Lejeune**
North Carolina | REPI Funds: \$511K
2. **Marine Corps Recruit Depot Parris Island**
South Carolina | REPI Funds: \$1.0M
3. **Naval Submarine Base Kings Bay**
Georgia | REPI Funds: \$584K
4. **Naval Air Station Pensacola**
Florida | REPI Funds: \$6.6M
5. **Keesler Air Force Base**
Mississippi | REPI Funds: \$5.2M
6. **Joint Base Pearl Harbor-Hickam**
Hawai'i | REPI Funds: \$500K
7. **Naval Air Station Whidbey Island**
Washington | REPI Funds: \$600K



America the Beautiful Challenge



- The America the Beautiful Challenge coordinates funding from multiple Federal agencies and private philanthropy into one competitive grant program.
- In 2022, NFWF announced an inaugural slate of 55 new grants totaling nearly \$91 million, leveraging \$50.7 million in matching contributions from grantees to generate a total conservation impact of about \$141.7 million.
- For the 2022 America the Beautiful Challenge, the REPI Program contributed **\$1.5 million towards two projects** across the Georgia Sentinel Landscape and Fort Huachuca Sentinel Landscape in Arizona.

Program Priorities

Engage Local Communities	Strengthen Ecosystem and Community Resilience
Provide a Range of Ecosystem Services	Expand Habitat Connectivity
Benefit At-Risk Fish, Wildlife, and Plant Species	Support Tribally Led Conservation and Restoration Priorities
Contribute to Local or Tribal Economies	Contribute to Workforce Development



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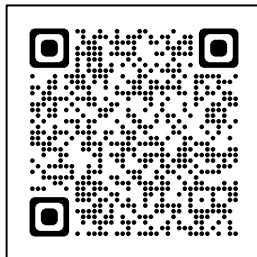
For more information:

Andy Porth

Director for REPI Projects and Resources

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osd.repi@mail.mil



Subscribe to the REPI Program Listserv