



REPI

READINESS AND ENVIRONMENTAL
PROTECTION INTEGRATION PROGRAM



Installation Resilience Planning: Federal Resources for Resiliency Projects

Elizabeth Kendrick, REPI Program Support

June 6, 2023

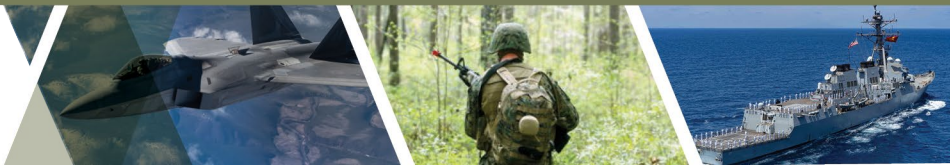
Agenda

- REPI Program Overview
- REPI Installation Resilience Project Funding Opportunities
- NAS Patuxent River Installation Resilience Project Example
- Questions



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REPI Program Components

REPI PROGRAM COMPONENTS



Stakeholder Engagements



Landscape Partnerships



REPI Projects



THE CONSERVATION FUND



SENTINEL LANDSCAPES



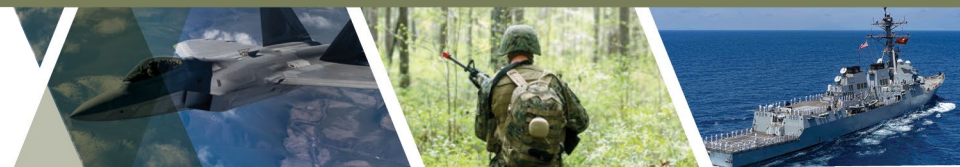
LOWER COSTS

HIGHER COSTS



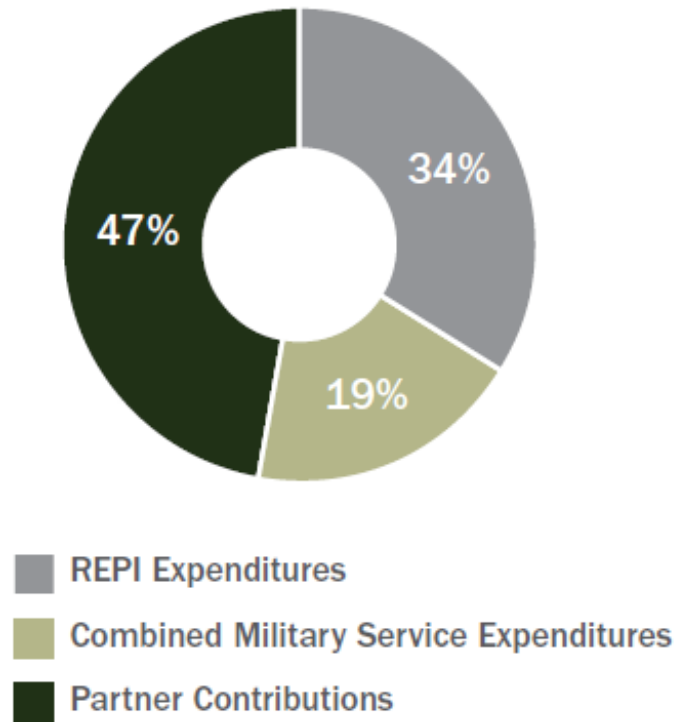
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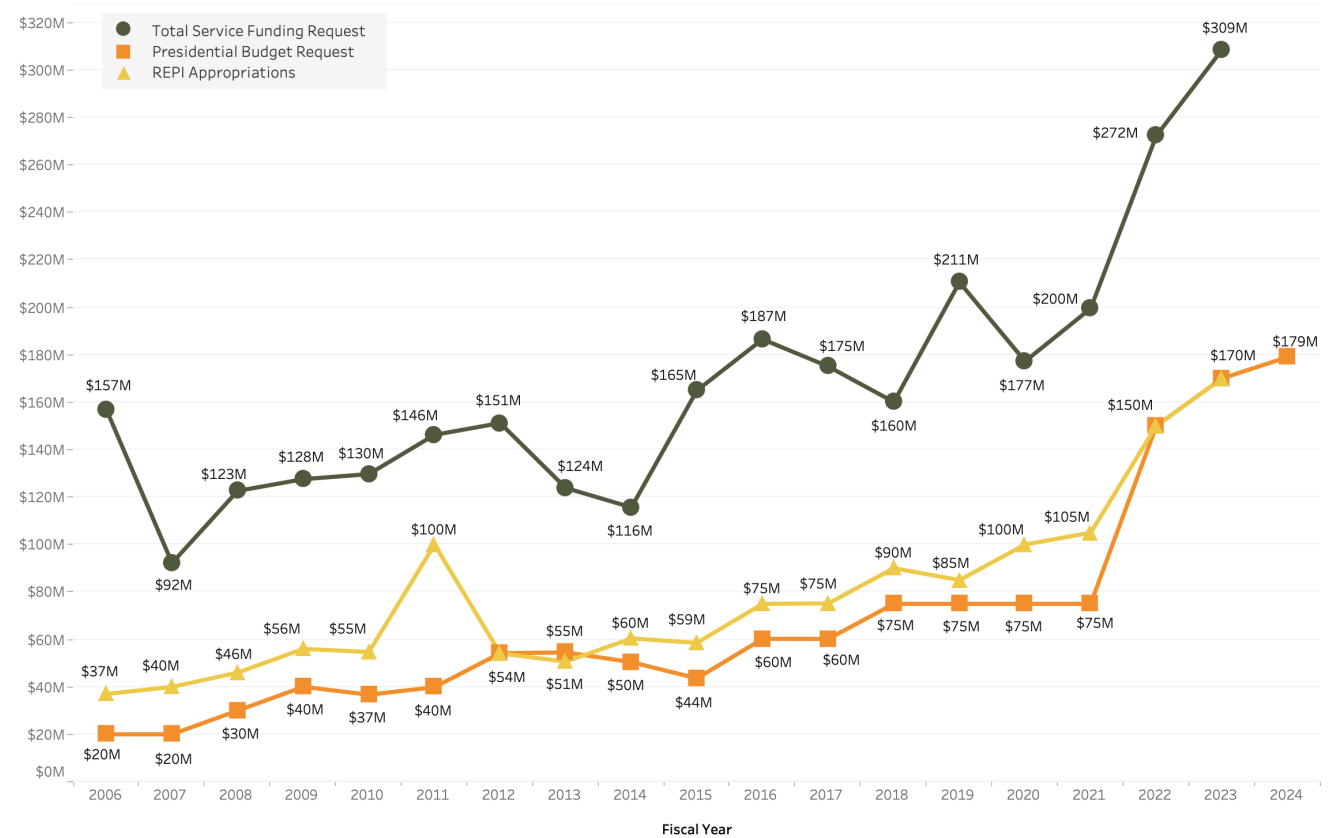


REPI Program Funding and Expenditures

REPI Program Cost Share through FY 2022

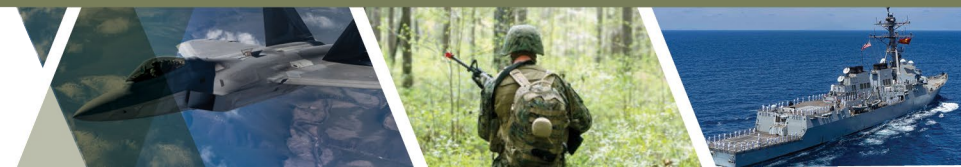


REPI Program Funding through FY 2023



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REPI Metrics FY 2003 to FY 2022: Accomplishments by Service

Military Service	Transactions	Acres Protected	REPI	Service	Partner	Expenditure
Air Force	583	136,958	\$105,476,347	\$30,083,432	\$138,563,803	\$274,123,582
Army	1,170	770,977	\$376,983,456	\$341,283,120	\$556,186,977	\$1,274,453,553
Marine Corps	104	105,409	\$121,460,549	\$33,163,856	\$140,155,335	\$294,779,740
Navy	806	169,587	\$197,539,012	\$37,892,752	\$294,662,647	\$530,094,411
Total#	2,663	1,182,931	\$801,459,364	\$442,423,160	\$1,129,568,762	\$2,373,451,286

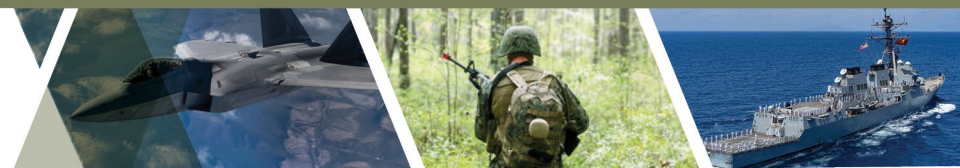
Subtotals may not sum to combined totals due to rounding.

Since FY 2003, DOD has secured **\$1.24 billion** with over **\$1.13 billion** in non-Department partner contributions to protect over **1.18 million acres** of land at 120 locations across 35 states and territories to preserve key operational assets, infrastructure, and capabilities.



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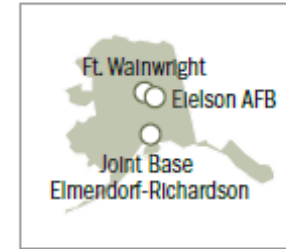
REPI Project Locations



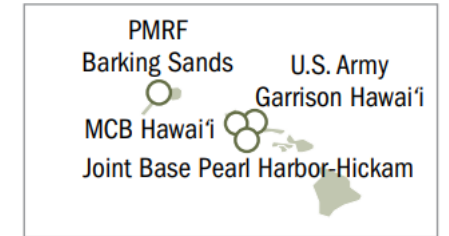
Installation Name Updates:
The following Army installations will undergo name changes in 2023.

- ① Fort Benning (Future Fort Moore), Georgia
- ② Fort Bragg (Future Fort Liberty), North Carolina
- ③ Fort Gordon (Future Fort Eisenhower), Georgia
- ④ Fort A.P. Hill (Future Fort Walker), Virginia
- ⑤ Fort Hood (Future Fort Cavazos), Texas
- ⑥ Fort Pickett (Future Fort Barfoot), Virginia
- ⑦ Fort Polk (Future Fort Johnson), Louisiana

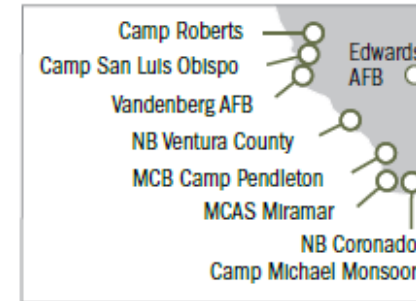
Alaska:



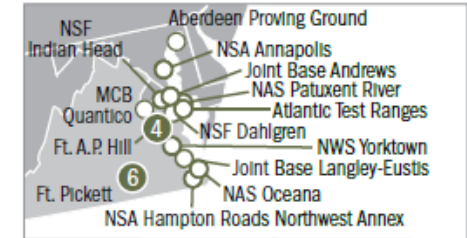
Hawai'i:



California Inset:



Virginia and Maryland Inset:

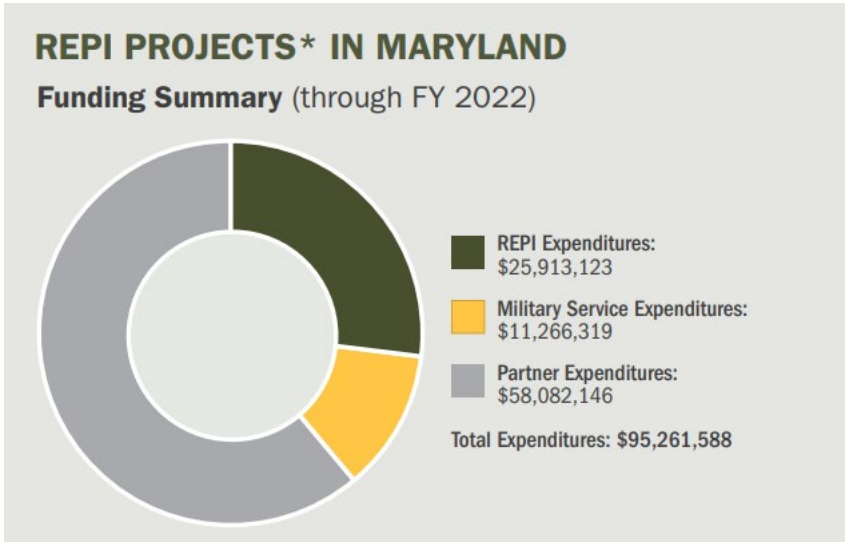


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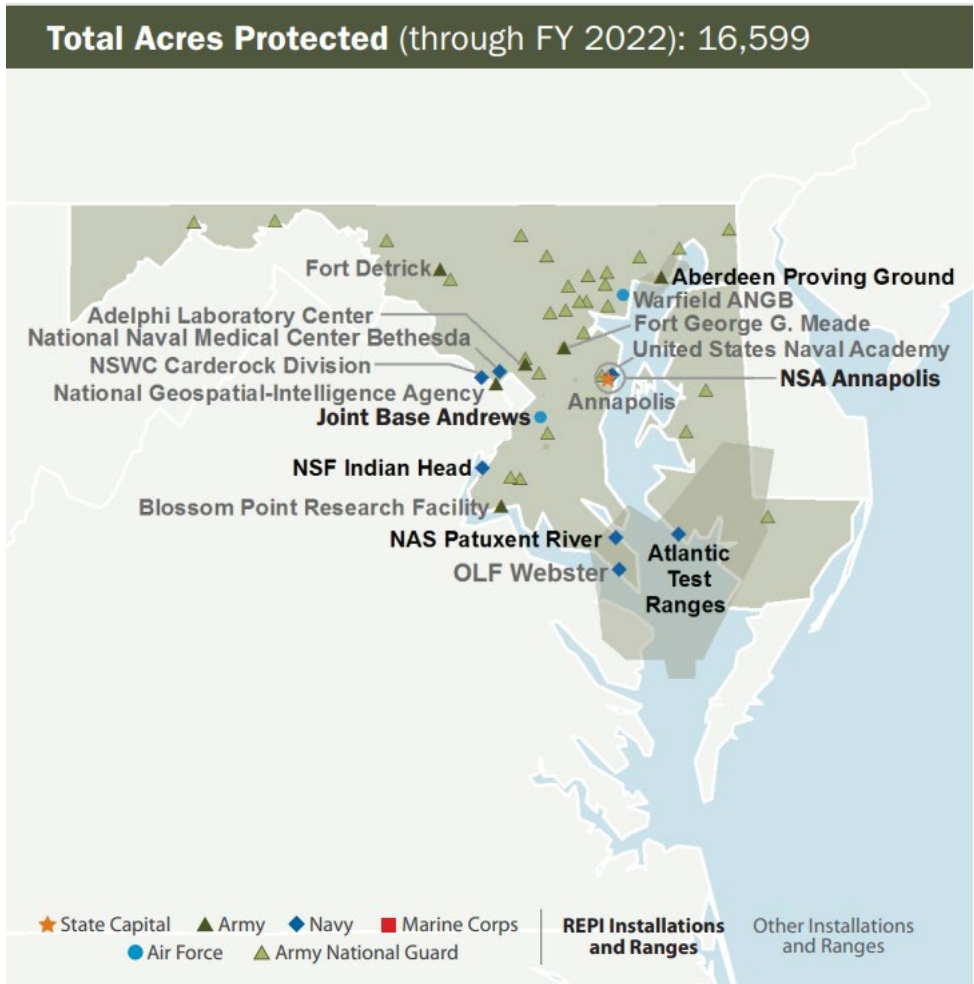
Maryland REPI Project Locations



REPI PROJECTS

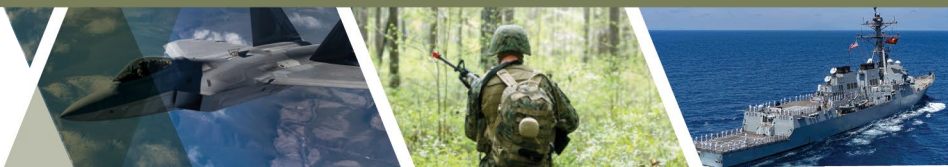
Project Installation	County	Congressional District
Aberdeen Proving Ground	Harford	2nd
Atlantic Test Ranges (with NAS Patuxent River)	Dorchester, St. Mary's	1st, 5th
Joint Base Andrews (Air Force)	Prince George's	5th
Naval Support Activity Annapolis	Anne Arundel	3rd
NSF Indian Head	Charles	5th

For all REPI Project Profiles visit: <http://www.repi.mil/BufferProjects/ProjectList.aspx>



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What does Military Installation Resilience Mean to REPI?

Authorized by 10 U.S.C. § 2684a REPI resilience projects **promote and enhance off-installation nature-based solutions** to protect and sustain military mission capabilities and critical infrastructure.

- 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.

What are Climate Change Impacts?

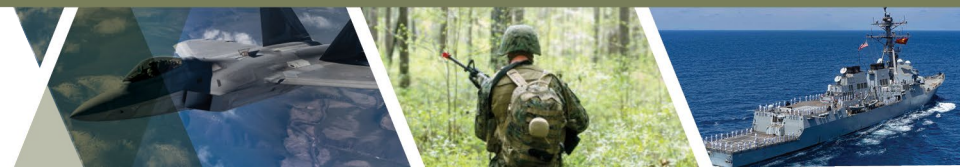
 Sea Level Rise and Recurring Flooding	 Increase Drought Conditions	 Extreme Weather	 Increased Wildfires
 Inland Flooding	 Increased Precipitation	 Impacts on Protected Species or Habitat	 Thawing Permafrost

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



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Examples of Military Installation Resilience Projects

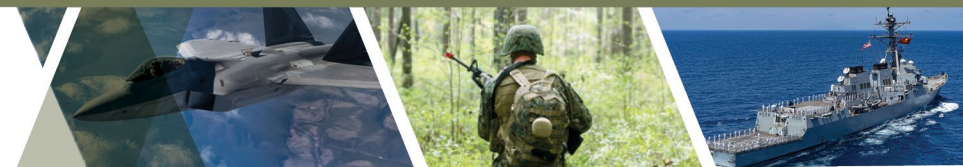
Many options exist for types of military installation resilience projects, some examples proposed to date under REPI include:

- Establishing living shorelines and oyster reefs to mitigate against coastal erosion, storm surge, etc. and promote ecosystem health;
- Restoring dunes (e.g., vegetation, sand fencing) and channel dredging to facilitate beach replenishment and mitigate against coastal erosion and storm surge;
- Reducing wildfire risk through forest thinning, firebreak creation, and prescribed burning to reduce hazardous fire loads.



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Complementary DOD and Federal Programs



Office of Local Defense Community Cooperation (Formerly OEA)

Administers an Installation Resilience Program and Defense Community Infrastructure Pilot Program (DCIP), to enhance installation resilience through built and nature-based solutions.



Military Aviation and Installation Assurance Siting Clearinghouse

Protects DOD's mission capabilities from incompatible energy development by collaborating with DOD Components and external stakeholders to prevent, minimize, or mitigate adverse impacts on military training, testing, and readiness operations.



Natural Resources Program

Supports the military's testing and training mission by protecting its biological resources. The Natural Resources Program provides policy, guidance, and oversight for management of natural resources on approximately 27 million acres of military land, air, and water resources owned or operated by DOD.



NFWF National Coastal Resilience Fund (NCRF) and America the Beautiful Challenge (ATBC)

The NCRF restores, increases, and strengthens natural infrastructure to protect coastal communities. The ATBC projects benefit fish and wildlife, enhance carbon sequestration and storage, and protect ecosystems through nature-based solutions.



FEMA Building Resilient Infrastructure and Communities (BRIC) Program

The BRIC Program supports states, local communities, tribes, and territories as they undertake hazard mitigation projects to reduce risks from disasters and natural hazards.



DOI's Land and Water Conservation Fund

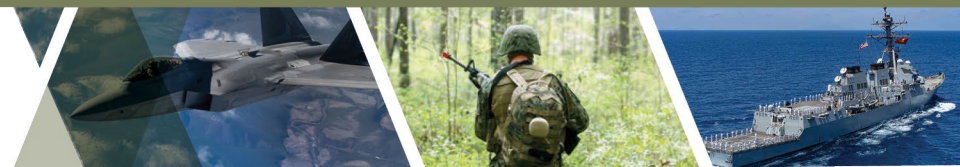
The Readiness and Recreation Initiative will safeguard natural areas, protect water resources, preserve cultural heritage sites, and provide recreation opportunities for the public.

Learn more about other complementary federal programs in the new REPI Resilience Funding Guide



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REPI Challenge

For the 12 consecutive years, the REPI Program has hosted the annual REPI Challenge, a **competition for DOD's partners** (state and local governments, NGOs, academia) to submit projects for funding to advance REPI project outcomes through large-scale innovation and conservation.

REPI Challenge has resulted in:

- \$144M in REPI Program funds invested to protect critical military missions
- \$437M in partner contributions, leveraging DOD funds over 3:1
- 52 installations and ranges with projects promoting compatible land use, mitigating mission impacts from endangered species, and enhancing installation resilience to climate change



Cultivate new projects that protect natural and cultural resources using diverse funding avenues.



Protect critical testing and training capabilities while fostering long-term sustainability for communities surrounding installations.



Support DOD's strategic priorities and the REPI Program in meeting its ambitious goals.

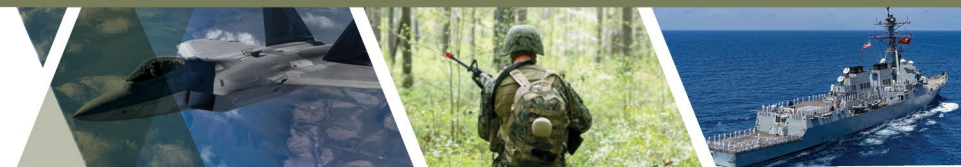


Harness the creativity of organizations with shared priorities to access unconventional funding sources and leverage market-based approaches.

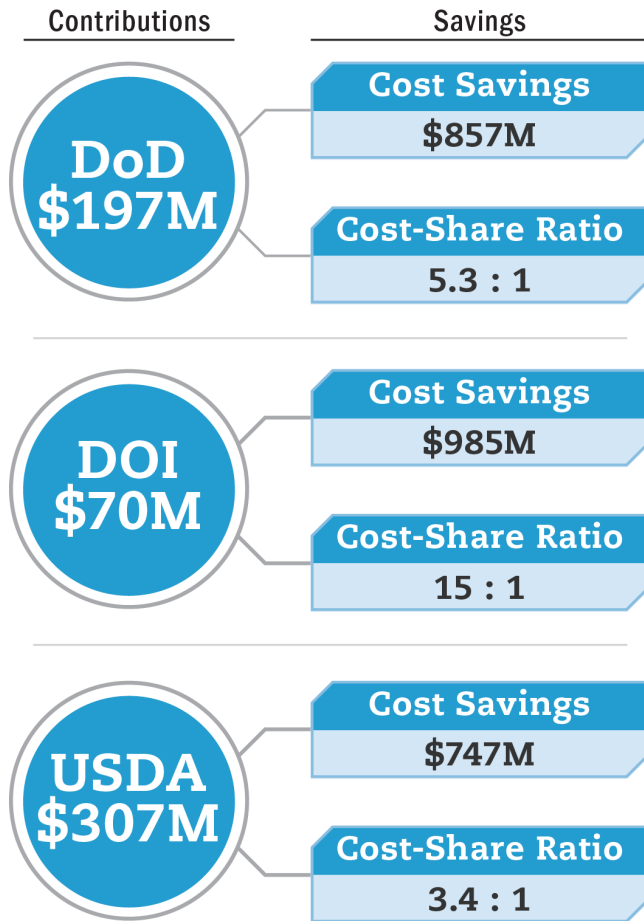


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Sentinel Landscapes Partnership

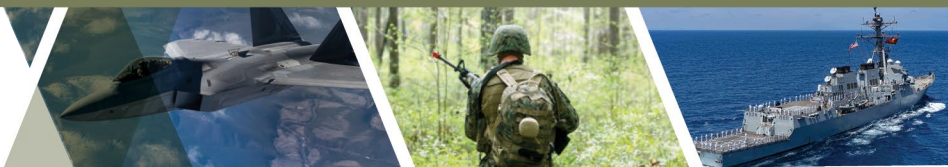


Funding data through FY 2021



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NAS Patuxent River 2022 REPI Challenge Project

- NAS Patuxent River is experiencing **rising sea levels and strong wave energy** that has exposed the shoreline and **accelerated erosion** at the installation, threatening fifth-generation aircraft testing and training.
- Partners received **\$2.7 million in REPI funding** to create a living shoreline with breakwaters and sills in the Patuxent River to mitigate significant resilience challenges impacting strategic Navy test and training operations.
- This project is coupled with \$15,000 in partner contributions and **\$14.8 million in Military Service Contributions.**



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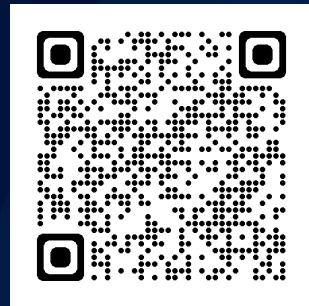




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DOD CLIMATE RESILIENCE WORKSHOP 2023

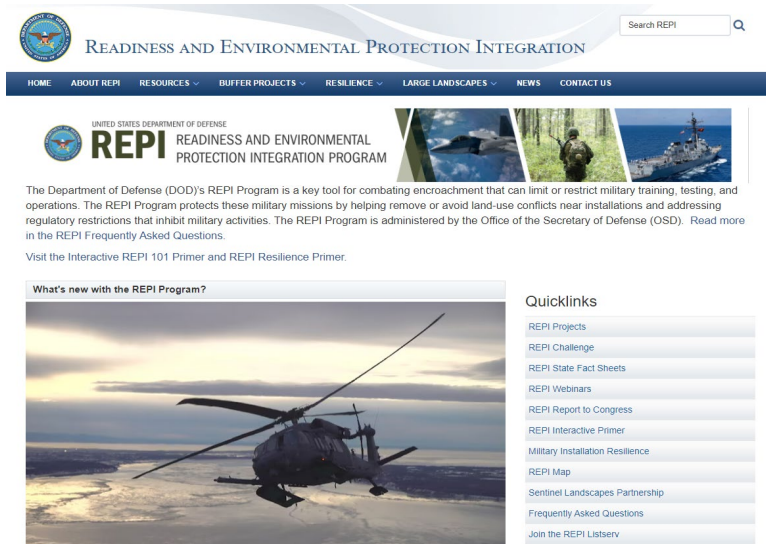
JULY 10-13, 2023 | ST. LOUIS, MISSOURI



www.dodclimateworkshop.org



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REPI Program: www.REPI.mil

REPI Map: <https://repi.osd.mil/map/>

Sentinel Landscapes: www.sentinellandscapes.org

You can contact the REPI office at osd.repi@mail.mil

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