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Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Defense Logistics Agency **Date:** March 2024

Appropriation/Budget Activity 0400: <i>Research, Development, Test & Evaluation, Defense-Wide / BA 7: Operational Systems Development</i>	R-1 Program Element (Number/Name) PE 0708012S / <i>Pacific Disaster Center</i>
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COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
Total Program Element	20.061	11.442	1.905	1.861	-	1.861	1.874	1.880	1.925	1.976	Continuing	Continuing
03: <i>Pacific Disaster Center</i>	20.061	11.442	1.905	1.861	-	1.861	1.874	1.880	1.925	1.976	Continuing	Continuing

A. Mission Description and Budget Item Justification

The Pacific Disaster Center (PDC) is a public/private partnership managed by the University of Hawaii (UH) under a cooperative agreement with the Department of Defense. It is functionally within the organization of the Office of the Under Secretary of Defense (Acquisition and Sustainment) (OUSD(A&S)) and the Defense Logistics Agency (DLA). The PDC is a world-recognized authority and leader in science and information technology applications relating to humanitarian assistance and disaster relief (HA/DR). PDC develops new and innovative technologies to operate an (unclassified) integrated multi-hazard monitoring, early warning and decision support system, called DoD RAPIDS, for the Department.

B. Program Change Summary (\$ in Millions)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Previous President's Budget	11.875	1.905	1.896	-	1.896
Current President's Budget	11.442	1.905	1.861	-	1.861
Total Adjustments	-0.433	0.000	-0.035	-	-0.035
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.433	-			
• Program Increase: Non-labor Inflation	-	-	0.004	-	0.004
• Program Decrease	-	-	-0.039	-	-0.039

Congressional Add Details (\$ in Millions, and Includes General Reductions)

Project: 03: *Pacific Disaster Center*

Congressional Add: *Global Water Security Center*

	FY 2023	FY 2024
	10.000	-
Congressional Add Subtotals for Project: 03	10.000	-
Congressional Add Totals for all Projects	10.000	-

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Change Summary Explanation

FY 2025 Program Decrease: Reduction to fund higher DoD priorities.

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COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
03: <i>Pacific Disaster Center</i>	20.061	11.442	1.905	1.861	-	1.861	1.874	1.880	1.925	1.976	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The PDC has provided operational support for an (unclassified) integrated multi-hazard monitoring, early warning and decision support system, called RAPIDS, for the department since 2007. The system is frequently used by COCOMS, particularly INDOPACOM and SOUTHCOM, for HA/DR missions and exercises, and was recently selected as one of the most effective systems in a position paper by the department, reviewing all unclassified information sharing systems. "Expanded use of RAPIDS across the DoD at the Combatant Commands, Joint Task Force, and by deployed units from the services" was identified as "a primary Joint Staff objective" in a memorandum dated July 6, 2017. RAPIDS is also regularly used at the National Guard Bureau Joint Operations Center for monitoring events and crises of interest.

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2023	FY 2024	FY 2025
Title: Pacific Disaster Center (PDC)	1.442	1.905	1.861
<p>Description: The Under Secretary of Defense for Acquisition and Sustainment, (USD(A&S)), is the Operational Sponsor and functional Office of Secretary of Defense (OSD) Principal Staff Assistant (PSA) for the program. USD(A&S) will continue to provide acquisition oversight authority for the program.</p> <p>The PDC has been in operation since February 1996, as a public/private partnership managed by the University of Hawaii (UH) under a cooperative agreement with the Department of Defense. Pacific Disaster Center (PDC) functions, manpower, and budget resources transferred to the OUSD (A&S) and the Defense Logistics Agency (DLA) in October 2011.</p> <p>The PDC is a world-recognized authority and leader in science and information technology applications relating to humanitarian assistance and disaster relief (HA/DR). PDC's applications and information products enhance preparedness, situational awareness, and civil-military communications for humanitarian missions worldwide, while its national-level socio-economic Risk and Vulnerability Assessments help inform strategies by measuring indicators for national resiliency using scientific methods. The DLA J35, Plans Executive Directorate oversees program management responsibilities related to the PDC. The Program Manager's primary responsibility is for management and stewardship of governmental funds provided in Defense Department appropriations for DoD missions associated with DoD CrM, HA/DR, Theater Security Cooperation, and Defense Support to Civil Authorities (DSCA). In doing this, the Program Management Office develops and provides policy, oversight and guidance, and jointly develops strategic guidelines, programmatic content and priorities with the UH and PDC. The PDC Program Office also serves as a support element of the Hawaii-based organization especially in the area of gaining Federal agency support and resources, as well as business opportunities.</p>			

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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
<p>In 2022, the Pacific Disaster Center was recognized as the winner of the United Nations Sasakawa Award for its global efforts related to disaster risk reduction.</p> <p>FY 2023 Accomplishments:</p> <ul style="list-style-type: none"> -Supported Combatant Command HA/DR efforts with partner countries through analytics and information product development, DisasterAWARE RAPIDS training delivery, TTX planning and execution, and disaster response, including Typhoon Nora (INDOPACOM), Hurricane Ian (SOUTHCOM), Turkey M7.8 earthquake (EUCOM / NATO), USN Comfort and Tradewinds Exercises (SOUTHCOM), South Asia Disaster Response Exercise and Exchange – DREE (INDOPACOM/USARPAC), to name a few. -In collaboration with NASA, extended hazard coverage (Global Flood) by releasing results of nearly two years of joint scientific work, available now in RAPIDS/DisasterAWARE. Global Landslide, also jointly developed with NASA’s team, is also expected to release by Sep ‘23. -Enhanced DisasterAWARE features with three major releases, growing RAPIDS and DisasterAWARE Pro user base 7% to nearly 28k combined. -Completed and advanced Climate Change Impact (CCI) assessments on impacts to warfighting and military readiness within INDOPACOM and SOUTHCOM AORs. The analysis was used in the commander’s briefings, including in comments delivered to the US Congress by the SOUTHCOM commander. -Integrated PDC’s Women, Peace, and Security (WPS) analysis as a core component of the John F. Kennedy Special Warfare Center and School Civil Affairs Anti-Slavery Course. -Advanced application of AI to HADR/DRR efforts by enhancing capabilities to semi-automate analysis of global disaster articles to uncover hazards not otherwise detected; PDC chaired World AI Summit, highlighting PDC’s “AI for Humanity” program. -Expanded partnerships continuing and extending collaborations with UN/IGO agencies (WFP, UNOCHA, UNDRR, IOM, IFRC, UNICEF), Hawaii Green Growth, iMAPP, and others supporting global DRR programs. -Maui Wildfires (Aug ‘23): Provided support to the operational (EOC) mapping and information needs to federal, state, and local government agencies, decision makers, and the public. Highlights include mapping critical response data; PDC’s estimated damages produced hours after the fires was used in the Hawaii Governor public briefing, and as a basis for requesting Presidential disaster declaration; DisasterAWARE used as main COP (by the state, local, federal agencies, etc.). PDC registered over 520 new RAPIDS/DisasterAWARE users in the two weeks since the event. 			

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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
<p>-National Disaster PBA engagements in Guyana, Ghana, Nepal, Columbia, Palau, Djibouti, Suriname, and 7 ECI counties (Barbados, Grenada, St. Vincent and the Grenadines, St. Lucia, Dominica, Antigua).</p> <p>-Launched Early Warning System capacity development programs in Balkans (Albania, Montenegro, N. Macedonia, Kosovo) in partnership with USFS and EUCOM, and in Timor-Leste in partnership with UN IOM and USAID.</p> <p>FY 2024 Plans:</p> <p>-Enhance the DisasterAWARE platform, and related applications and tools, that directly support operational readiness for multi-hazard early warning, monitoring and evidence-based decision support functions. These include enhancing (operator-used) application features and functions that integrate, visualize and provide secure, but easy, access to automated and user-generated content that supports regional risk monitoring, impact assessment, planning and alerting for disaster events and exercises.</p> <p>- Develop and deploy advanced applications to enhance multi-hazard monitoring, situational awareness, notification/warning, exposure estimation, and impact modeling and assessments. This includes developing new methods and capabilities to develop, leverage, and maintain innovative technologies such as Artificial Intelligence (AI) to enhance hazard detection or exposure/impact analysis.</p> <p>-Advance analytical capabilities to better support national security interests and critical decision-making. Continue to refine the inclusion of domains directly impacting the safety and security of Americans. Expand the understanding and inclusion of predictive capabilities to estimate the severity of impacts to populations by characterizing the socio-economic, political, health, cultural, climate, and environmental factors that are influencing risk and resilience to support more effective decision-making.</p> <p>-Leverage our subject matter expertise, to enhance Early Warning for All and expand DisasterAWARE capabilities. This is accomplished by curating and integrating high-quality content related to disaster management for the main stakeholders, general public, and PDC partners. Provide rapid and effective response support to direct requests for information or assistance (RFI/RFA) related to DisasterAWARE access, disaster response operations and/or potential acute risks. Key activities include supporting the DoD, U.S. Interagency and crucial regional and international partners with requests for the development and dissemination of situational awareness reports and analytical products.</p> <p>FY 2025 Plans:</p> <p>FY 2025 Annual Plan activities build on the work completed in FY 2024 for sustainment of disaster management tools and services for public benefit. This includes sustainment of DisasterAWARE Pro for use by emergency responders globally; Disaster Alert for the general public; and RAPIDS, the DoD custom version of DisasterAWARE Pro. FY 2025 activities will include investments to enhance DisasterAWARE capabilities to ensure the technology keeps pace with big data and artificial intelligence advancements to enable rapid assessment of information and continued support for DoD CCMD HA/DR requirements.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement:</p>			

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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
FY 2025 baseline was reduced to fund higher DoD priorities.			
Accomplishments/Planned Programs Subtotals	1.442	1.905	1.861

	FY 2023	FY 2024
Congressional Add: Global Water Security Center	10.000	-
FY 2023 Accomplishments: The Global Water Security Center (GWSC) worked to deliver data, information, knowledge, and training to help key decision makers understand the connection between water security and national security, and to leverage knowledge to achieve their missions. Through modeling for Water and Climate Security Impacts, the GWSC supported science applications and analysis of environmental (in)security within the water, food, energy, and health nexus. In addition, the GWSC supported diverse organizations like CCMDs, OSD, Joint Staff, and military services anticipate the data and products can be force multipliers.		
Congressional Adds Subtotals	10.000	-

C. Other Program Funding Summary (\$ in Millions)

N/A

Remarks

D. Acquisition Strategy

PDC projects beyond the baseline Situational Awareness & Decision Support Applications/Tools architecture (Atlas/DisasterAWARE Pro/RAPIDS) undertaken in support of the DoD Cooperative Agreement (CA) with the University of Hawaii (UH) are from PDC customers (e.g., DoD, NGOs, other nations, academia, and industry). The PDC prepares the public, disaster managers, governments, and others to mitigate the effects of disasters. The goal is to have people and technology work together to preserve life, safeguard livelihoods, protect property to foster disaster-resilient communities. Projects obtained and funded from this customer base serve as a means to determine PDC product and services relevancy. PDC's expanded risk assessments to include scientific measure of Fragility profiles and Women, Peace, and Security (WPS) are received by DoD and other national policy makers as a base to inform the strategic decision-making process.

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Exhibit R-4, RDT&E Schedule Profile: PB 2025 Defense Logistics Agency **Date:** March 2024

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	FY 2021	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029																	
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4

Pacific Disaster Center

Pacific Disaster Center (PDC) [REDACTED]

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Exhibit R-4A, RDT&E Schedule Details: PB 2025 Defense Logistics Agency **Date:** March 2024

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Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Pacific Disaster Center</i>				
Pacific Disaster Center	1	2022	4	2029