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Exhibit R-2, RDT&E Budget Item Justification: PB 2022 Defense Logistics Agency **Date:** May 2021

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 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
Total Program Element	10.903	1.705	1.785	1.799	-	1.799	-	-	-	-	Continuing	Continuing
03: <i>Pacific Disaster Center</i>	10.903	1.705	1.785	1.799	-	1.799	-	-	-	-	Continuing	Continuing

A. Mission Description and Budget Item Justification

The Pacific Disaster Center (PDC) has been in operation since February 1996. The 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 RAPIDS, for the Department.

B. Program Change Summary (\$ in Millions)	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Previous President's Budget	1.705	1.785	1.821	-	1.821
Current President's Budget	1.705	1.785	1.799	-	1.799
Total Adjustments	0.000	0.000	-0.022	-	-0.022
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	0.000			
• Inflation for Non-Pay/Non-Fuel Purchases	-	-	-0.022	-	-0.022

Change Summary Explanation

FY 2021:

SBIR/STTR Transfer: Due to an error while coding FY21 Enactment, the SBIR/STTR transfer is not reflected in the exhibit totals. Programs were indeed taxed and the funding was transferred to the SBIR PE 0605502S. For PDC, the SBIR/STTR transfer is \$0.065M.

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Appropriation/Budget Activity 0400 / 7					R-1 Program Element (Number/Name) PE 0708012S / <i>Pacific Disaster Center</i>				Project (Number/Name) 03 / <i>Pacific Disaster Center</i>			
COST (\$ in Millions)	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
03: <i>Pacific Disaster Center</i>	10.903	1.705	1.785	1.799	-	1.799	-	-	-	-	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 hazard monitoring, early warning and decision support system, called RAPIDS, for the department since 2007. The system, covering global hazard is frequently used by COCOMS, particularly PACOM 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.

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

	FY 2020	FY 2021	FY 2022
Title: Pacific Disaster Center (PDC)	1.705	1.785	1.799
Description: The USD(A&S) will become the Operational Sponsor and functional OSD Principal Staff Assistant (PSA) for the program. USD(A&S) will continue to provide acquisition oversight authority for the program.			
The PDC has been in operation since February 1996. The PDC is a public/private partnership managed by the University of Hawaii (UH) under a cooperative agreement with the Department of Defense. The Pacific Disaster Center (PDC) function, manpower, and budget resources transferred to the Office of the Under Secretary of Defense (Acquisition and Sustainment) (OUSD(A&S)) and the Defense Logistics Agency (DLA) in October 2011.			
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 J32, Strategic Programs and Initiatives office will serve as the Program Manager for the PDC. The Program Manager 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 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.			

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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2020	FY 2021	FY 2022
<p><i>FY 2021 Plans:</i></p> <p>-Enhance the DisasterAWARE platform, and related applications and tools. 1). Modernization of DisasterAWARE and related applications for improving access, navigation, and performance; 2) Increase platform scalability, resiliency, stability, and security by further leveraging Enterprise-class cloud services and monitoring tools; and 3) Continue to improve Mobile DisasterAWARE capabilities.</p> <p>-Enhance automation and modeling services supporting comprehensive and integrated multi-hazard monitoring, situational awareness, notification/warning, exposure estimation, and impact modeling and assessments. 1) Enhance the integration of hazard and exposure assessment outputs into automated mapping products, situational awareness, and needs assessment reports; 2) Extend and improve thematic coverage and hazard monitoring capabilities, including automation of hazard detection, impact area estimation, and notification; 3) Gain efficiencies and scalability through full or partial automation of manual processes and explore use of Artificial Intelligence algorithms and tools to augment current practices; 4) Develop processes to help maintain effective documentation and devise sustainable processes for new modeling, automation, and related communications; and 5) Increase flexibility and responsiveness of automated solutions; 6) Enhance ability to simulate actual conditions results during testing and prototyping.</p> <p>-Advance analytical to better understand severity of impacts to population by characterizing the socio-economic, political, health, cultural, and environmental factors that are influencing risk and resilience. 1) Improve mechanisms for RVA automation, communication, versioning, and service delivery; 2) Expands PDC's analytic and risk product offerings through enhanced automation and availability of risk products, information, and services; 3) Incorporation new tools and emerging data capabilities for refined reporting; 4) Leverage risk index approach in new and innovative ways to better describe human terrain; and 5) Develop new indicators that enable predictive outlooks for current and extended range planning.</p> <p>-Manage and maintain the most robust global data sets and related services to directly support the DoD in meeting their interagency support requirements. 1) Administer PDC's Global Enterprise Data policies, standards, and resources for consistency across the Center and its applications; 2) Streamline and automate data content development, validation, maintenance, management, and deployment processes; 3) Continue to enhance Enterprise Data holdings with authoritative global information; and 4) Explore new approaches and technologies for improved performance, reliability, and scaling, as well as total lifecycle costs, of data service.</p> <p><i>FY 2022 Plans:</i></p> <p>The FY 2022 Annual Plan will be published and presented during the Program Management Review in December 2021. Continue to modernize and sustain the DisasterAWARE system to support the DoD's Risk Assessment, Planning and Incidents Decision Support (RAPIDS) as well as Emergency Management Operations (EMOPS) (supporting the Department's and it's partner's Humanitarian Assistance and Disaster Recovery (HA/DR) and Defense Support of Civil Authorities (DSCA) missions.</p> <p><i>FY 2021 to FY 2022 Increase/Decrease Statement:</i></p>			

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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2020	FY 2021	FY 2022
No significant change.			
Accomplishments/Planned Programs Subtotals	1.705	1.785	1.799

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/EMOPS/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.

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Exhibit R-4, RDT&E Schedule Profile: PB 2022 Defense Logistics Agency **Date:** May 2021

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	FY 2020				FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
<i>Pacific Disaster Center</i>																												
Pacific Disaster Center (PDC)																												