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Exhibit R-2, RDT&E Budget Item Justification: PB 2022 Air Force **Date:** May 2021

Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 3: Advanced Technology Development (ATD)</i>	R-1 Program Element (Number/Name) PE 0603444F / <i>Maui Space Surveillance System (MSSS)</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	-	11.343	12.068	0.000	0.000	0.000	-	-	-	-	-	-
634868: <i>Maui Space Surveillance System</i>	-	11.343	12.068	0.000	0.000	0.000	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-	-	-

A. Mission Description and Budget Item Justification

This program funds ground-based optical space situational awareness (SSA) technology development and demonstration at the Maui Space Surveillance System (MSSS) in Hawaii, as well as the operation and upgrade of the facility. Efforts in this program have been coordinated through the Department of Defense Science and Technology Executive Committee process to harmonize efforts and eliminate duplication.

In FY 2022, the entirety of PE 0603444, Project 634868, Maui Space Surveillance System, is transferred to Appropriation 3620, Research, Development, Test & Evaluation, Space Force, PE 1206616SF, Project 634868, Maui Space Surveillance System, due to the creation of a new Appropriation for Space Force.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver science & technology capabilities. The use of program funds in this PE would be in addition to the civilian pay expenses budgeted in program elements 0602102F, 0602201F, 0602202F, 0602203F, 0602204F, 0602602F, 0602605F, 0602788F, 0602298F, and 1206601SF.

The Department of the Air Force technologies in this program are both enabling and enduring as we invest in maturing emerging technologies that address established mission gaps, and transformational technologies that address integrated enterprise capabilities intended to reshape the future force across air, space, and cyber warfighting domains. Development of transformational operational capabilities through advanced technology solutions focuses on five strategic capabilities: Global Persistent Awareness; Resilient Information Sharing; Rapid, Effective Decision-Making; Complexity, Unpredictability, and Mass; and Speed and Reach of Disruption and Lethality.

This program is in Budget Activity 3, Advanced Technology Development because this budget activity includes development of subsystems and components and efforts to integrate subsystems and components into system prototypes for field experiments and/or tests in a simulated environment.

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B. Program Change Summary (\$ in Millions)	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Previous President's Budget	11.878	0.000	0.000	0.000	0.000
Current President's Budget	11.343	12.068	0.000	0.000	0.000
Total Adjustments	-0.535	12.068	0.000	0.000	0.000
• Congressional General Reductions	0.000	-0.022			
• Congressional Directed Reductions	0.000	0.000			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds	0.000	0.000			
• Congressional Directed Transfers	0.000	12.090			
• Reprogrammings	-0.023	0.000			
• SBIR/STTR Transfer	-0.096	0.000			
• Other Adjustments	-0.416	0.000	0.000	0.000	0.000

Change Summary Explanation

FY 2022 decrease is due to the entirety of PE 0603444, Project 634868, Maui Space Surveillance System, is transferred to Appropriation 3620, Research, Development, Test & Evaluation, Space Force, PE 1206616SF, Project 634868, Maui Space Surveillance System, due to the creation of a new Appropriation for Space Force.

C. Accomplishments/Planned Programs (\$ in Millions)	FY 2020	FY 2021	FY 2022
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Title: Operate and Upgrade Maui Space Surveillance System	11.343	12.068	0.000
Description: Operate and upgrade the Maui Space Surveillance System to support development, demonstration, and integration of ground-based optical space situational awareness technologies.			
FY 2021 Plans: Continue to maintain Maui Space Surveillance System facility and experimental equipment in a mission-ready state. Perform needed upgrades and modernization to keep facilities and equipment in good working order and allow Maui Space Surveillance System to perform efficiently and reliably. Continue to operate Maui Space Surveillance System facility for development and demonstration of ground based optical space situational awareness capabilities in conjunction with customer programs and an operational Space Situational Awareness mission. Continue to accept control of geosynchronous satellite imaging capability, collecting images as requested by mission partners. Transition of dynamic telescope system operations into Maui Space Surveillance System capability baseline will be complete.			
FY 2022 Plans:			

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C. Accomplishments/Planned Programs (\$ in Millions)		FY 2020	FY 2021	FY 2022
<p>In FY 2022, work formerly performed under this effort was transferred to Appropriation 3620, Research, Development, Test & Evaluation, Space Force, PE 1206616SF, USSF S&T 6.3, Project 634868, Maui Space Surveillance System, from Appropriation 3620, Budget Activity (BA) 03 due to the creation of a new Appropriation for Space Force.</p> <p><i>FY 2021 to FY 2022 Increase/Decrease Statement:</i> FY 2022 decreased compared to FY 2021 by 12.068 million. Funding decreased due to the transfer and realignment of the work in the Operate and Upgrade Maui Space Surveillance System effort in PE 0603444F, Maui Space Surveillance Sys, Project 634868, Maui Space Surveillance System, to Appropriation 3620, Research, Development, Test & Evaluation, Space Force, PE 1206616SF, USSF S&T 6.3, Project 634868, Maui Space Surveillance System due to the creation of a new Appropriation for Space Force.</p>				
Accomplishments/Planned Programs Subtotals		11.343	12.068	0.000
D. Other Program Funding Summary (\$ in Millions)				
N/A				
Remarks				
E. Acquisition Strategy				
N/A				