Business Case

Table of Contents

Section A: Investment Summary Information

Investment Name

DHS - Homeland Advanced Recognition Technology (HART)

Unique Investment Identifier

024-000005253

Investment Description

The Office of Biometric Identity Management (OBIM) is the lead entity within the Department of Homeland Security (DHS) that is responsible for biometric identity management services. OBIM is in the acquisition and development stage of Homeland Advanced Recognition Technology (HART) as a replacement for the Automated Biometric Identification System (IDENT). The purpose of HART is to provide core biometric identity services to support the DHS missions of Counter Terrorism and Prevent Threats, Secure and Manage Our Borders, Administer the Nation?s Immigration System, Secure Cyberspace and Critical Infrastructure, Build a Resilient Nation and Respond to Incidents, and Enable Mission Success by Strengthening the Enterprise.

Agency

Department of Homeland Security

Point of Contact

Eric Hysen - CIO

email **Not Provided**

Investment Type

Major IT Investments

Bureau

Departmental Management and Operations

Mission Support

Not Applicable

Shared Service Category

Not Applicable

Shared Service Identifier

Not Applicable

TMF Initiatives

Not Applicable

Date Investment First Submitted

09/28/2021

Date of Last Investment Detail Update

09/21/2023

Section B: Investment Detail

1. Briefly describe the investment's return on investment, including benefits internal and external to the government and outcomes achieved or planned.

   Alternative 4 is used for the ROI. The AOA states that the upfront investment of $310.2M will result in a savings of $1.373B versus the baseline, or a 343 percent return. Alternative 4 has a 11.4 percent improvement in availability and a 13.7 percent increase in timeliness. Benefits assessed to Alternative 4 were primarily attributable to architecture improvements in modularity, flexibility and degree of reuse and automation. The benefits of HART also include: addressing the mission failure risk of the legacy IDENT system; achieving operations and maintenance cost efficiencies; improving detection and derogatory information matching; and providing multimodal biometric services. HART will support DHS QHSR findings and strategy for an integrated Homeland Security Enterprise for DHS and its Components; other Federal departments; State, local and tribal law enforcements; the intelligence community; and international partners. It is an integrated component of a networked Homeland Security Enterprise that addresses multi-threat, all-hazard security considerations. HART data and analysis will secure and protect the United States against terrorism, enable data integration and analysis, support and strengthen responsive immigration processing system and law enforcement, minimize disruptions to the trade and travel system, and support a smarter, stronger border by enhancing our security infrastructure through support of new technologies.?HART aligns with the QHSR Homeland Security missions of Counter Terrorism and Prevent Threats, Secure and Manage Our Borders, Administer the Nation?s Immigration System, Secure Cyberspace and Critical Infrastructure, Build a Resilient Nation and Respond to Incidents, and Enable Mission Success by Strengthening the Enterprise as outlined in the most recent QHSR update. OBIM has a crosscutting mission in the DHS 2020-2024 Strategic Plan that enables the Department Unity of Effort. HART will provide DHS with a flexible, scalable, and more efficient biometric system to support core DHS missions and operations for the future.

Section C: Investment and Contracts

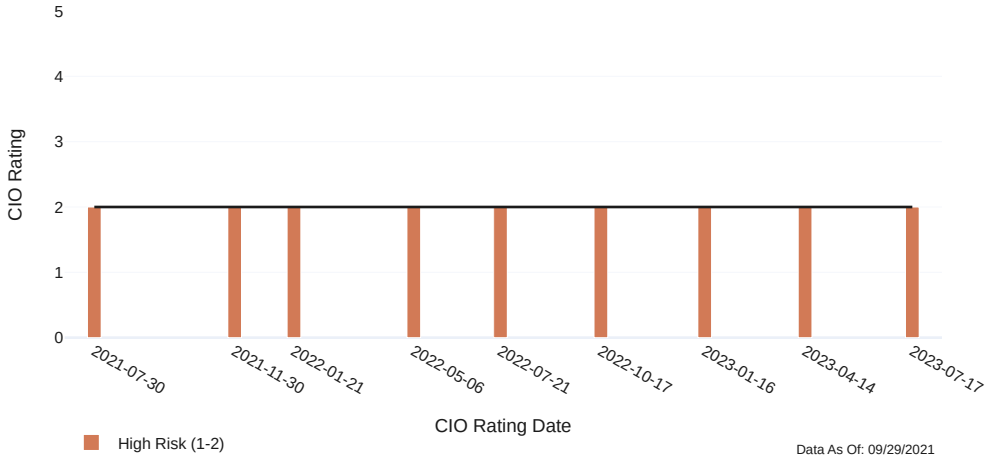
Public URLs

- **http://www.dhs.gov/obimhttps://www.dhs.gov/biometrics**

Contracts

- **70RCSA20FR0000045**
- **HSHQDC17J00370**
- **70RCSA19FR0000011**
- **70RCSA20FR0000005**
- **70RCSA20FR0000072**
- **70RCSA20FC0000024**
- **70RDAD21FR0000123**
- **70RDAD22FR0000056**

Section D: Historic CIO Rating



CIO Rating	Date	Comments
2	Jul 17, 2023	HART received a red rating in the final FISMA scorecard. HART provided a schedule breach notification during this period; the memorandum conclusion stated OBIM will develop a breach remediation plan after required funding is secured with stakeholders. O&S funding is also needed to conduct refreshes and maintenance of critical IDENT components through early FY26, a plan for funding has been submitted. Once HART reaches IOC, costs and risks with using IDENT will reduce.
2	Apr 14, 2023	Multiple systems received yellow scores in the final FISMA scorecard. HART Initial Operational Capability (IOC) continues to be delayed. Continued development and IOC achievement is contingent on receipt of additional funding; plans for needs have been submitted. Not all risks are identified in the risk register. FY23 funding reduction is insufficient to enable continued development posing risks to cost and schedule. Staffing is currently adequate. O&M activities are being transitioned.
2	Jan 16, 2023	HART systems were rated yellow in the final FISMA scorecard. The program has a number of gaps that need to be addressed including defects, message commonality, critical and high vulnerabilities, red team findings, service level agreements, database platform performance, and pre-requisites for an operational analysis. The program is conducting performance, accuracy, and message comparison testing between systems to validate that KPPs and MOPs are being met.
2	Oct 17, 2022	Homeland Advanced Recognition Technology (HART) system was rated red in hardware-managed assets and configuration management on the FISMA Scorecard. HART continues to experience database issues, defects, and vulnerabilities. Acquisition Review Board members approved the revised Acquisition Program Baseline, the program was re-baselined. The Increment 1 Privacy Impact Assessment indicates major privacy concerns. Security controls have been established to limit the scope of data collection.
2	Jul 21, 2022	Over the past year, the program has faced continual delays in achieving Increment 1 ADE-2C and HART IOC. These delays have been due to data and customer migration delays. The program has made progress on each of the migrations and is projecting to achieve IOC in Q1'23. Increment 1 PIA indicates major privacy concerns with the system collecting more information than required. Security controls limit the scope of data collection; however, this only partially mitigates this high risk.
2	May 06, 2022	HART now projects parallel operations will begin in Q3 2022 and IOC will be achieved in Q4 2022. HART received a partial increase of PC&I funding. Data migration continues to experience delays. Customer migration has experienced delays related to Phase 3 testing activities. Fingerprint matching subsystem is not meeting throughput and accuracy requirements is a high risk. Test results show that all matching modalities meet objective accuracy requirements, except for Fingerprint.
2	Jan 21, 2022	The start of parallel operations, which entails dual operations between the IDENT and HART systems, has shifted to the right due to migration delays. As a result, HART's projected schedule to reach IOC has also been delayed. The data migration remains to be behind schedule. The fingerprint matching subsystem not meeting throughput and accuracy requirements is a high risk.
2	Nov 30, 2021	Sep'21 the start of parallel operations, which entails dual operations between the IDENT and HART systems, has shifted to the right due to migration delays. As a result, HART's projected schedule to reach IOC has also been delayed. The data migration remains to be behind schedule. The fingerprint matching subsystem not meeting throughput and accuracy requirements is a high risk.
2	Jul 30, 2021	Jun'21 the HART IOC has shifted right from Q4'21 to Q2'22. Customer migration and data migration delays impacted the start date for parallel operations. This resulted in the HART IOC delay. The HART program is working to close out Increment 1. There is one remaining feature. If additional Increment 1 development is required, HART IOC will be further impacted. The fingerprint matching subsystem not meeting throughput and accuracy requirements is a high risk.

Data Last Updated On: 09/29/2021

Section E: Investment Spending

Table 1: Distribution by Spending Type

Spending Type	PY 2022	CY 2023	BY 2024
DME Costs	20.952	20.952	10
O&M Costs	124.728	18.715	70.664
Total	145.68	39.667	80.664

Table 2: Distribution by Cost Pools

Cost Pools	PY 2022	CY 2023	BY 2024
External Labor	91.778	15.192	34.363

Cost Pools

Cost Pools	PY 2022	CY 2023	BY 2024
Facilities & Power	0	0	0
Hardware	2.04	0	0
Internal Labor	0	0	0
Internal Services	0	0	0
Other	1.165	5.474	10.164
Outside Services	11.217	15.589	29.684
Software	39.479	3.411	6.453
Telecom	0	0	0
Total	145.679	39.666	80.664

Cost in millions (M)

Table 3: Distribution by IT Towers

IT Towers

IT Tower	PY 2022	CY 2023	BY 2024
Application	65.25	9.67	20.39
Compute	0	10.69	20.77
Data	0	0	0
Data Center	0	0	0
Delivery	59.24	11.627	27.284
End User	0	4.25	7.64
IT Management	0	0	0
Network	0.8	0.21	0.39
Output	0	0	0
Platform	3.66	0.8	0
Security & Compliance	1.61	0.47	0.6
Storage	15.12	1.95	3.59
Total	145.68	39.667	80.664

Cost in millions (M)

Data Last Updated On: 09/21/2023

Section F: Project Detail

Table 1: Project Details

Project Name	Project UID	Status	Project Life Cycle Cost ($M)	Cost Variance (%)	Start Date	End Date	Schedule Variance (%)	Schedule Variance (Days)	TMF Initiative
Post Deployment Support	2	Future	0	0			0	0	Not Applicable
HART Increment 2	3	In Progress	0	70			27	27	Not Applicable
HART - Increment 1	1	Completed	0	3.2	2018-04-10	2021-06-03	0	0	Not Applicable
ECP3-6	4	In Progress	0	0	2021-09-29		0	0	Not Applicable
MSLS Development Period 1	5	Completed	0	0	2022-11-01	2023-04-30	0	0	Not Applicable
MSLS Development Period 2	6	In Progress	0	0	2023-05-01		0	0	Not Applicable

Low Medium High

Table 2: Project Related Details

Post Deployment Support

1. Are information technology investments adequately implementing incremental development methodology? (Y/N)
2. What is the frequency of incremental development iterations? (ex. 1 month, 3 months, 6 months, 12 months or greater)
3. Please describe the iterative development methodology being employed. (500 characters or less)

   project is for support and maintenance.

HART Increment 2

1. Are information technology investments adequately implementing incremental development methodology? (Y/N)
2. What is the frequency of incremental development iterations? (ex. 1 month, 3 months, 6 months, 12 months or greater)

   Months

3. Please describe the iterative development methodology being employed. (500 characters or less)

   program increments are being developed using safe agile practices, but production releases are being done using waterfall.

HART - Increment 1

1. Are information technology investments adequately implementing incremental development methodology? (Y/N)

2. What is the frequency of incremental development iterations? (ex. 1 month, 3 months, 6 months, 12 months or greater)

   Years

3. Please describe the iterative development methodology being employed. (500 characters or less)

   program increments are being developed using safe agile practices, but production releases are being done using waterfall.

ECP3-6

1. Are information technology investments adequately implementing incremental development methodology? (Y/N)

2. What is the frequency of incremental development iterations? (ex. 1 month, 3 months, 6 months, 12 months or greater)

   Months

3. Please describe the iterative development methodology being employed. (500 characters or less)

   program increments are being developed using safe agile practices, but production releases are being done using waterfall.

MSLS Development Period 1

1. Are information technology investments adequately implementing incremental development methodology? (Y/N)

   Yes

2. What is the frequency of incremental development iterations? (ex. 1 month, 3 months, 6 months, 12 months or greater)

   Weeks

3. Please describe the iterative development methodology being employed. (500 characters or less)

   kanban.

MSLS Development Period 2

1. Are information technology investments adequately implementing incremental development methodology? (Y/N)

   Yes

2. What is the frequency of incremental development iterations? (ex. 1 month, 3 months, 6 months, 12 months or greater)

   Days

3. Please describe the iterative development methodology being employed. (500 characters or less)

   kanban.