VistA Modernization Plan
FY 2024-2026

U.S. Department of Veterans Affairs
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Guiding Principles

- **Clinician-focused:** Improves the clinical experience and efficiency directly and immediately by objective measures.
- **Data-driven and proven**: Only incremental, data-driven and <u>proven</u> approaches and technologies will be used
- **Parallelized work**: All tracks of modernization run in parallel, maximizing efficiency

VistA is a client-server architecture. Modernization is split between client and server. This plan provides clearly specified goals for separate groups and distinct tasks. All components of modernization run independently and in parallel. Client modernization improves the end-user experience and efficiency. Server modernization improves performance and reliability.

<u>VistA Client Modernization</u>: The VistA client is the graphical user interfaces on Windows desktop that the doctors, nurses, and other clinical staff use to provide care, and has a large impact on clinical satisfaction and efficiency. VistA has over 50 different types of clients running on Windows (example: CPRS, VistA Imaging). None are audited, scoped, optimized, monitored, or modernized.

- **Vista Client Audit and Enhancement:** Comprehensive audit of all VistA clients. All client usage and activity (by client, by users, in what volume) and performance. Provides data-driven scoping and planning for client modernization. Leverages existing proven cloud-based Vista client auditing. Enhances performance and efficiency of existing clients.
- **Vista Client Replacement:** Replace thick client with a modern multi-device (web, mobile, desktop) equivalent. Improves accessibility and efficiency of care via modern mainstream web and mobile devices anytime, anywhere.

<u>VistA Server Modernization</u>: The backend database server that runs increasingly in the cloud. Provide efficient operation of servers in the cloud (beyond lift and shift).

- **Centralized Server Management:** [Current state: VistA logs its operations within itself, across 130 datastores, using many different formats, making it impossible to monitor]. Externalize all VistA logging functions to centralized cloud-based logging service with standardized formats. Allows centralized audit and monitoring of Vista servers using commodity tools. Improves reliability and performance for clinical staff.
- **Centralized User Management:** [Current state: User data is fragmented across 130 Vista systems]. Synchronize the Vista user file to a centralized cloud-based service that integrates to VA's current centralized user directory. Enables efficient access to all VistA systems and enables new centralized cloud native web and mobile clients

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Vista Client Modernization	Year 1	Year 2	Year 3
Audit and Enhancement of existing clients	Audit all VistA clients from 3 representative VistAs ($5M)	Expand audit from 3 VistAs to all VistAs. ($5M) Enhance performance of CPRS guided by audit reports and latency hotspots ($5M)	Create live dashboards for auditing all clients for ongoing monitoring and improvements ($5M)
Introduce new web-based clients	Prototype and demonstrate web-based VistA client ($5M)	Replace one of the smaller VistA clients with web client ($5M)	Prototype and demonstrate CPRS web client ($10M)
Vista Server Modernization	**Year 1**	**Year 2**	**Year 3**
Centralized Server Monitoring	Externalize all VistA logging to centralized datastore. Test in one cloud-hosted VistA server ($5M)	Deploy centralized logging across all cloud-based VistA servers ($5M)	Integrate all VistA logging to VA's commercial tools enable live monitoring ($5M)
Centralized User Management	Synchronize the Vista user file to a centralized cloud datastore and integrate to VA's current centralized user directory. ($5M)	Synchronize all Vista user files to VA's centralized user directory. Prototype authentication to VistA via centralized user directory. ($5M)	Implement single-sign-on for all VistA clients (including new web clients) using centralized user directory ($5M)
Total / year	$20M	$25M	$25M