



## ***VistA Application Analytics***

*Comprehensive cloud-based streaming  
analytics of Vista's point-of-care applications*

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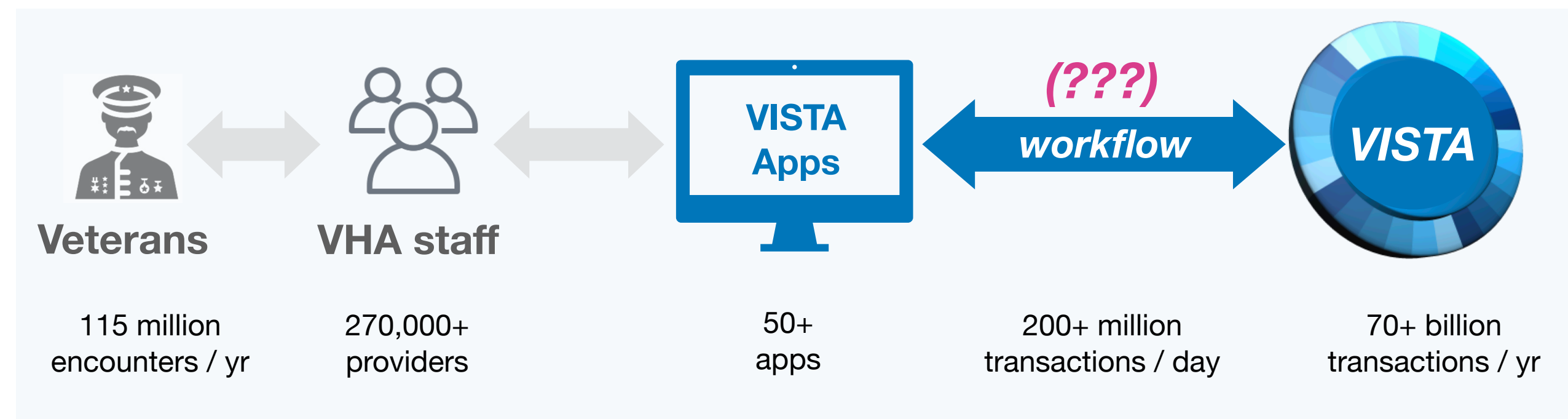
***Update: October 3, 2024***

## Summary

Objective	<ul style="list-style-type: none"><li>• <b>First-ever analysis of VHA's actual, real-world clinical workflows</b></li><li>• <i>Year One: Intra-facilty workflows</i></li><li>• <i>Year Two: Inter-facilty workflows (including Telehealth, Community care)</i></li></ul>
Method	<ul style="list-style-type: none"><li>• <b>Real-time cloud-based streaming traffic capture and analytics of the real-world use of VistA Applications (CPRS and others)</b></li><li>• <i>All interactions (mouse clicks, menus, orders, notes, images, and tasks) of all VistA Applications can be captured to the millisecond and analyzed.</i></li><li>• <i>Analogous to EHRM "Lights on Network"</i></li></ul>
Benefits	<ul style="list-style-type: none"><li>• <b>Data-driven approach for clinical workflow analysis and optimization</b></li><li>• <i>Enterprise Standardization of clinical workflows</i></li><li>• <i>Comparative analysis of workflows and applications (VistA apps / EHRM apps / Other )</i></li><li>• <i>Strategic, targeted investment in clinical productivity, safety, and quality</i></li></ul>
Status	<i>Contract awarded 9/5/25; Project kickoff 9/15/24</i>
Sponsor	<i>VHA Digital Health Office / FY24-25</i>

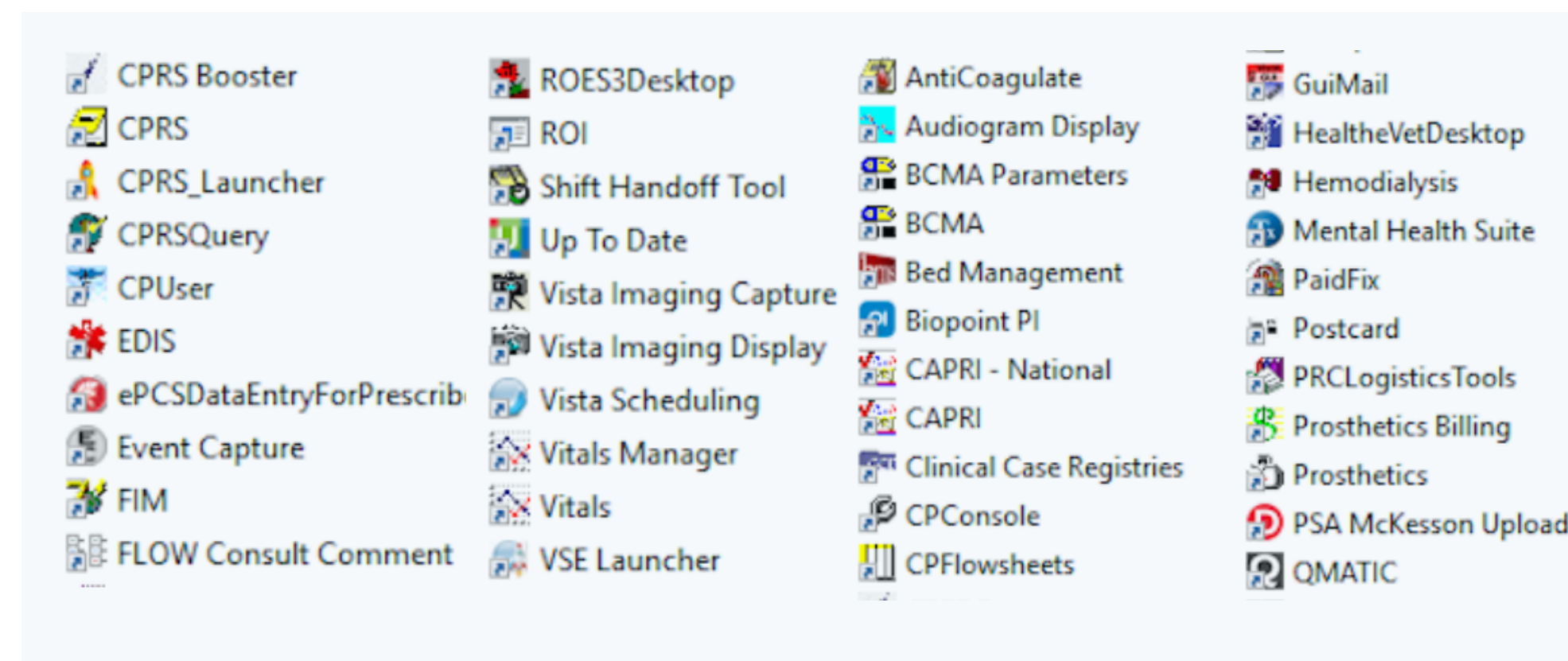
## VHA Clinical Workflow Overview

*VHA staff provide veteran care using a suite of VistA Applications (“VistA Apps”) including CPRS, Imaging, and over fifty others. Each day in VA, over 270,000 staff at 1250 facilities use VistA Apps to create, store, and process over 4 million new documents, images, lab, pharmacy orders in VISTA. In FY22, VHA provided over 115 million veteran care encounters using VistA Apps.*



### VISTA Database

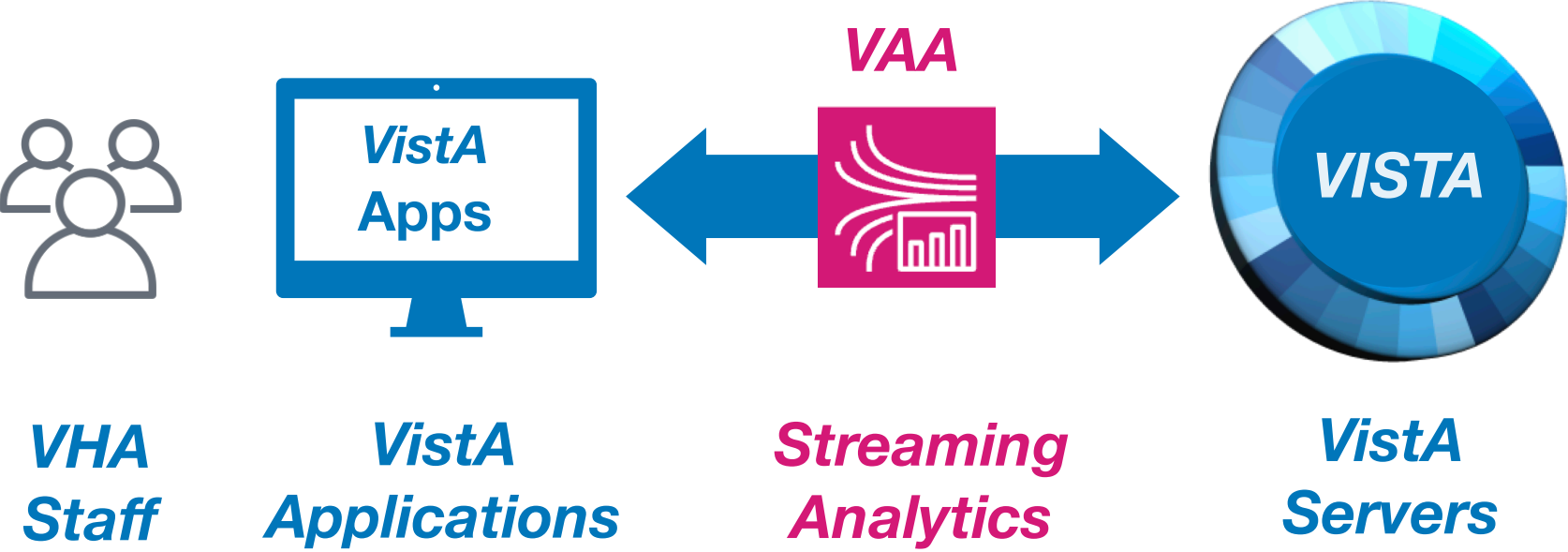
- Contains 500 million veteran-years of cumulative data and knowledge
- Adds 4 million new documents, lab, imaging, and pharmacy orders each day
- Supports over 200 million transactions each day, all with six sigma reliability.



### VISTA Apps

- VISTA Apps are a suite of 50+ Windows desktop applications installed on 400,000 computers across all VAMCs
- VISTA Apps use the VISTA database for all transactions and storage
- VISTA Apps include CPRS, Vista Imaging, and BCMA
- **???: workflows of VistA Apps are currently unmonitored and unknown**

## *VAA Implementation*



*VistA Application Analytics leverages comprehensive cloud-based streaming analytics of all traffic of VistA's point of care applications (CPRS and others) to drive data-driven improvement to the workflows and efficiency of VHA clinical staff.*



## *Examples of VistA App Analytics*

- **Clinician types and volume of use**
  - Physicians, nurses, administration (100+ other)
- **Time spent on different care tasks**
  - Ordering tests, documentation, reviewing labs
- **Clinical Task analysis**
  - Time spent on care sub-tasks
  - Example: reading a consult; ordering an image; writing a progress note
- **Data used by each clinician type**
  - Document types, Note types, Images
- **Applications use by clinician types**
  - Frequency and type of VistA applications clinicians use
  - CPRS, JLV, Brillians, BCMA (50+ other)
- **Enterprise standardization of workflows**
  - Comparative analysis of applications/workflows between facilities
- **Comparative analysis of systems of care**
  - Example: comparison of workflow timings / efficiency of VistA apps (measured with VAA) and EHRM apps (measured with Lights On)



**PERFORMANCE WORK STATEMENT (PWS)  
DEPARTMENT OF VETERANS AFFAIRS**

**VistA Application Analytics (VAA)**

July 30, 2024  
VA-FY-24-00054128  
Task Order PWS Version: 1.2

## *Status*

- VHA Digital Health Office approved: 9/30/23
- Contract awarded: 9/5/24
- Project kickoff: 9/15/24

## *Coming Soon*

- Report on baseline VistA application usage
- Quarterly reports thereafter based on VHA input
- Dashboard on Vista application analytics progress

## *More Information*

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