## Renton Nip Program Manager, Hokukahu LLC



### VA VistA Metadata

**Kickoff Brief** 

**January 7, 2016** 















### Agenda



- Introductions
  - The Team
  - Project Overview
    - Project Description
    - Project Financials
    - Staffing
  - Project Technical Objectives
    - Deliverable Overview & Schedule
    - o Technical Approach, & Summary
  - Project Threats, Risks & Mitigations
  - Project Assumptions
  - Decisions
  - Action Items
- Q&A
- Wrap Up

#### The Team



#### Hokukahu, LLC

- O Hokukahu, LLC (Hokukahu) will serve as the prime contractor for the VISTA Metadata project. Headquartered in Honolulu, Hawaii, Hokukahu is a Native Hawaiian Organization-Owned Concern in the Small Business Administration's 8(a) Business Development Program.
- Hokukahu employees who worked on the TAPS project who will continue in the VISTA Metadata project include: Brad Goo (Systems and Integration SME), David Booth (RDF and HL7 SME), and Renton Nip (Program/Contract Manager).

#### Caregraf, Inc.

- Caregraf, Inc. (Caregraf) specializes in standards-based software solutions that developed the open source FileMan Query Language (FMQL). FMQL was used in TAPS to extract all data and meta-data from CHCS's NoSQL data store called FileMan.
- Conor Dowling, President of Caregraf, worked on the TAPS project and will continue in the VISTA Metadata project serving as Project Architect.

#### J2 Interactive, LLC

Ed de Moel, VISTA System and MUMPS SME

#### **HRG Technologies LLC**

- Steve Bruno, Senior Software Developer
- Sonny Kim, Senior Software Developer

### Project Overview: Project Description



#### **Project Description**

The Project will provide a single comprehensive security enabled read/write data model for all VA VISTA data across all VA VISTA operational systems, establishing a common technical foundation for master data management and computable data representation and exchanging between VA and DoD clinical information systems.

All artifacts and deliverables shall be developed, version-controlled, stored, and delivered on an industry-standard public Github repository

#### **Key Capabilities**

- Provide comprehensive always-up-to-date, machine-processable exposure and definition of complete operational VISTA data model (VDM), based on all data dictionaries from all active VISTA instances in standard machine-processable, exchangeable form, supported by off-the-shelf tools.
- Create a fully audited and normalized VISTA data model (VDMN) with no redundancy.
- Modify FileMan data to allow management (query, security, read/write) of Patient, Institutional, Knowledge, and Systems data as distinct entities and to enable patient-centric security.

#### **Functional Benefits**

- Permits analysis and enhancement of the true operational VISTA data models and provide a data- and metadata-centric roadmap for auditing VISTA data. This automation creates a sustainable, continuously repeatable process across all systems going forward rather than a single snapshot in time.
- Provides the foundation for enterprise-centric Master Data Management for VISTA. This is the foundation for code reduction and elimination of multiple overlapping extraction methods.
- Enables highly contextualized and personalized patient data enrichment and patient-centric security.

#### **Stakeholders**

- PMO Lead: CAPT Paul Miller
- Program Manager: Renton Nip, Hokukahu
- Functional Sponsor: Mark Goodge
- Functional Proponents (VA): Rafael Richards, MD, Reese Omizo, MD

### Project Overview: Project Financials



12/31/2015 - 12/30/2016		
Direct Labor	Redacted to	
ODCs	ricaactea to	
TOTAL	make sharable	

### **Project Overview: Staffing**



Labor Category	FTE over	Function
Program/Contract Manager	.5	Organizes, directs, and manages contract operation and personnel
Subject Matter Expert (Master)	3	Serves as SME, possessing in-depth knowledge of highly specialized applications/systems.
Applications Developer (Master)	4	Designs, develops, enhances, debugs, and implements software or major enhancements to existing software.
Applications Developer (Senior)	3	Designs, develops, enhances, debugs, and implements software or major enhancements to existing software.
Test Engineer (Senior)	.5	Evaluates and implements test tools and strategies. Designs and conducts test and evaluation procedures.
Technical Writer (Senior)	1	Produces and reviews content of technical documentation as appropriate to the requirements.
Project Manager	1	Provides Project management and scrum master roles.



Deliverable	Frequency
Project Repository (Deliverable #1AA)	Prior to Work Performance
Non-Disclosure/Non-Use Agreement Deliverable #1A)	Prior to Work Performance
Quality Control Plan (Deliverable #1B)	30 days after contract award
Phase-Out Migration Plan (Deliverable #1C)	30 days prior to end of contract
Program Management Plan (Deliverable #2)	At contract award; and updated within 30 days after contract award



<b>Deliverable</b>	Frequency
Program Schedule and Monthly Updates	Monthly, the 30th day of the following month
(Deliverable #3)	
Monthly Progress Report (Deliverable #4)	Monthly, the 30th day of the following month
Quarterly Strategic Communications Message	Quarterly, 5th day following end of each quarter
(Deliverable #5)	
Date-stamped FileMan Data Model Definitions	Per approved project schedule; with continuous, real- time access on the Github as developed
(Deliverable #8)	
Approach to "Live VDM" Maintenance of Current State	Per approved project schedule; with continuous, real- time access on the Github as developed
(Deliverable #9)	
Normalized VISTA Data Model (VDMN)	Per approved project schedule; with continuous, real- time access on the Github as developed
(Deliverable #10)	
Heuristic Code (Deliverable #11)	Per approved project schedule; with continuous, real- time access on the Github as developed



Deliverable	Frequency
Normalization Reports (Deliverable #12)	Per approved project schedule; with continuous, real- time access on the Github as developed
Website that graphically depicts VDM, VDMN, and other metadata	Per approved project schedule; with continuous, real- time access on the Github as developed
(Deliverable #13)	
Report on Exposure of Older Models	Per approved project schedule; with continuous, real- time access on the Github as developed
(Deliverable #14)	
Date-stamped Metadata for lab, surgery, TIU notes and other applications in a VDMN compatible format	Per approved project schedule; with continuous, real- time access on the Github as developed
(Deliverable #15)	
Machine-processable Annotations	Per approved project schedule; with continuous, real- time access on the Github as developed
(Deliverable #18)	
Software code (Deliverable #19)	Per approved project schedule; with continuous, real- time access on the Github as developed
Prototype query access to VISTA Data Against VDM (Deliverable #25)	Per approved project schedule; with continuous, real- time access on the Github as developed



Deliverable	Frequency	
Prototype Patient-centric Data Security	Per approved project schedule; with continuous, real- time access on the Github as developed	
(Deliverable #28)		
Prototype Web-Based Rules Hub	Per approved project schedule; with continuous, real- time access on the Github as developed	
(Deliverable #32)		
Prototype Web-Based Query Interface to FileMan Data	Per approved project schedule; with continuous, real- time access on the Github as developed	
(Deliverable #33)		
VISTA Application model(s)/Prototype(s)	Per approved project schedule; with continuous, real- time access on the Github as developed	
(Deliverable #35)		
Meta-model(s)/Prototype(s) (Deliverable #36)	Per approved project schedule; with continuous, real- time access on the Github as developed	
Reference model(s)/Prototype(s)	Per approved project schedule; with continuous, real- time access on the Github as developed	
(Deliverable #39)		
Document VISTA-ese vs. FHIR (Deliverable #40)	Per approved project schedule; with continuous, real- time access on the Github as developed	



#### First Deliverables:

- Deliverable 1AA: Project Repository
  - Friday, January 8
  - Will email URL to the COR
- Deliverable 2: Program Management Plan
  - Friday, January 8
  - To be posted on Project Repository
- Deliverable 13: Initial Website
  - Friday, January 15

# Project Technical Objectives: Technical Approach



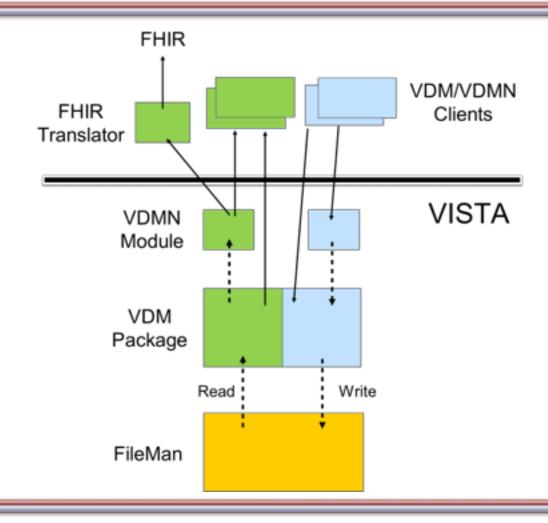
The technical approach that Team Hokukahu will be adopting for the VISTA Metadata Project is largely the same that the Team used in the TAPS Project and more recently, in the LPI Project.

The specific technical approach to each deliverable is set forth in the Technical Proposal and will be further detailed in the Program Management Plan (PMP).

The Project Architecture is depicted on the following slide.

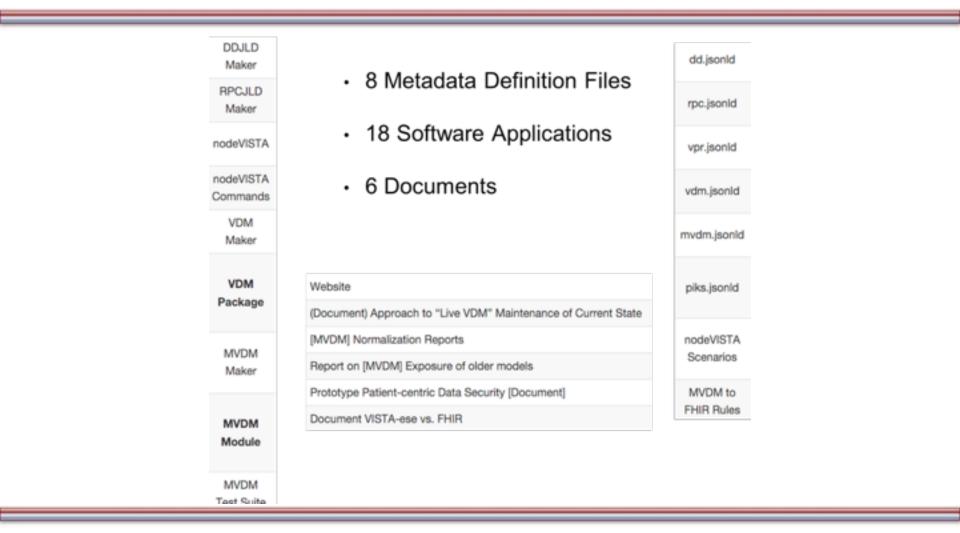
# Project Technical Objectives: Technical Approach – Project Architecture





# Project Technical Objectives: Technical Approach – Project Artifacts





# Project Threats Risks and Mitigations Request for GFE & Information



- The PWS requires that within 30 DACA the Government provide the following GFE/GFI:
  - Data Dictionary (DD) extracts from at least five current operational VISTA systems.
  - Current authoritative Master version of VISTA as maintained internally by the VA. Metadata from this must be complete and without any alterations or redactions.
  - Copy of a VISTA with test patients used by VA for internal projects.
  - Copy of at least one real operational VISTA to be kept within the NIPR network, as it will have non de-identified patient data.
  - A VISTA with real but de-identified patient data.
- Potential mitigation and impact:
  - Mitigation: Use open source OSEHRA VISTA images and resources.
  - Impact: Image is neither a current nor a true VA VISTA image.

# Project Threats, Risks & Mitigations Additional GFE & GFI Requests



In its Technical Response, the Team requested that additional GFE and GFI be provided within 30 days of contract award to successfully execute the Project. In the contracting process, the Contract Specialist (CS) intended to satisfy such request by incorporating the Technical Proposal into the contract. Legal demurred, due to recent FOIA requests for technical proposals. The CS suggested resolution at the post-award conference. The additional GFE/GFI for project success are:

- •A copy of the latest version of the VPR RPC software and documentation;
- The latest copy of the FileMan namespace spreadsheet;
- •A FileMan namespace exclusively for the Team to allow for the creation of Project files and fields in FileMan;
- Access to the most up-to-date VISTA Integrations Agreements;
- Sufficient InterSystems Cache licenses to host FileMan Test VISTA systems; and
- VA VISTA Sandbox Account with full Linux VM.

### **Project Assumptions**



- 1. The required GFE/GFI will be provided to the Team on a timely basis.
- 2. The required access to the ITEC will be provided to the Team on a timely basis.



#### Mahalo!