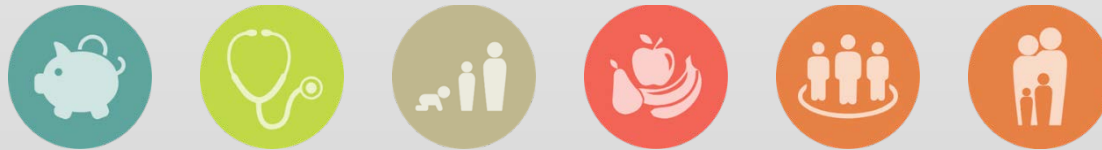


Public Health Vault Prototype Development *What's Working*



AITT Peer To Peer

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Outline

- Provide a project overview
- Discuss Phase 1. Development of a Prototype (Success)
- What Worked
- What Didn't

Public Health Vault System (the Vault)

- Project that will connect the Santa Clara County Department of Public Health (SCCDPH) to clinical and nonclinical systems, to enable remote and safe exchange of data in close to real time.
- Developed in collaboration with the Santa Clara County Valley Medical Center and Santa Clara County Technology and Services Solutions.
- Serve as the catchment area for data used to monitor health status in order to assess and improve the quality of life for those who live and work in Santa Clara County.
- Phase 1 and 2 objectives are to build a prototype to demonstrate ability to harvest and link data from multiple systems.

Built In Phases

➤ Phase 1 (sept. 2018 – march 2019)

- Demonstrate the ability to regularly harvest EHR's related to diabetes and prediabetes from Valley Medical Center (County Health System)
- Developed using a Data Vault 2.0 data warehousing architecture
 - Efficient to store large volumes of data
 - Repeated values such as lab results
 - Values that change over time such as weight
 - Easy to onboard data from disparate systems
- Time devoted to development of an extensible infrastructure
 - Honest broker
 - Basic person matching
- Implement data access for Epidemiologists
 - Tableau dashboard

Built In Phases

- Phase 2 (march 2019 – aug. 2019)
 - Onboard second data supplier
 - Demonstrate cross system matching capabilities
 - Master Person Index

- Phase 3 (sept. 2019 - forward)
 - Assess progress
 - Onboard additional data suppliers
 - Implement Enterprise Master Data Management

Prototype Scheduled for Sign Off March 1. “SUCCESS”

➤ What Worked For The Prototype

- Working with another county owned system first
- Having TSS as a part of the team from the beginning
- Working with the Compliance Officer from the beginning
- Having dedicated teams from Public Health and the Data Supplier that met regularly
 - Project Manager
 - Sr. Level Epidemiologists
 - Data Architects
 - Information Systems Architects
 - Tableau Developers
- Developing use cases that were agreed upon by all stakeholders
- Starting small with 2 basic use cases
- Flexibility in our prototype design strategy
 - Change from race to ethnicity for the prototype dashboard component

➤ What Didn't Worked for the Prototype

- Short time frame
 - Small issues become priorities because of time
- Not having clear prototype objectives
 - Develop a prototype for exchanging data
 - Develop a (pre)diabetes dashboard
 - Had to be worked out first
- Not having a well drafted communication plan
 - Led to some confusion over work assignments
 - Led to delays
- Not having infrastructure entirely in place
 - Led to unanticipated development delays
 - Moving more data than anticipated

- Use these lessons as we move on to Phase 2 of the project which is to harvest data from our county health plan and link it where applicable to the data harvested from the hospital system.

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Thank You