Integrated Data System Development

State of Arizona – Office of Economic Opportunity

September 15, 2021

Project Vision

To unify data from Arizona state agencies and educational institutions to allow longitudinal analysis of how these state agencies and educational institutions affect the lives of Arizonans.

Project Mission

To better understand and improve government services, the state is establishing an integrated data system that integrates administrative data from various state agencies and educational institutions with the purpose of assessing the impact of those organizations on the lives of Arizonans over time.



Project Team Introduction



Roles Present at ITAC

Vignesh Sukumaran - Project Lead

Project Introduction



Date/high-level overview of the approved original project investment justification (PIJ):

On Dec 7, 2020, ADOA ASET approved the original project investment justification (PIJ) to implement an integrated data system (IDS).

Pursuant to the requirements in A.R.S §§ 41-5303 and 41-5404, the office is developing an IDS to link administrative data from educational institutions and workforce programs, in a highly protective privacy, legal, and technological environment, to facilitate:

- Program evaluation
- Continuous improvement
- Policy-relevant research
- Cost-benefit analyses

The original PIJ spanned six months and had development costs of \$1,300,427.36

Project Change Request Overview



What in the PIJ is changing?

- **☑** Timeline
 - From <u>1/18/2021</u> to <u>3/31/2022</u>
- Scope
- Descoping ____ and/or Adding ____
- Budget
 - From \$____ to \$____

What initiated this change?

Unplanned delay:

- Discovered statewide GCP tenant lacks enterprise security tools needed to satisfy AZRAMP requirements
- Spent 2 months:
 - To procure an independent GCP tenant for OEO
 - To activate enterprise security tools in the new tenant
 - To migrate prototype to new tenant
- Restarted security controls assessment that was two-thirds complete in the previous tenant

Project Timeline



Revised timeline for solution

Not Started **Primary Penetration Testing and** In Progress **Security Controls Assessment** Complete Security Analysis Security Controls evidence Blocked Initial Penetration Testing and gathering & review **Solution Design System Authorization Security Controls Assessment** Security Controls evidence · Kickoff and Project Charter Security Controls evidence submission starts Security Analysis Data discussions **Workflow Implementation** submission ends Security Controls evidence · Security Controls assessment **Project Completion** GCP Environment procurement Security Controls assessment · Remediation of Workflows ends begins Training & gathering High-Level Functional & Security • Data Matching Evaluation ends ends Penetration Testing in Knowledge Transfer Penetration Testing in Design System Authorization Data Matching Implementation "oeo.arizona.gov" environment "arizona.gov" environment • Go Live 2021 **2022** May Jul Sep Nov Jan Feb Mar **Oct** Feb Apr Jun Dec Aug **Prototype Development** Migration, Configuration, Security Workflow Implementation **Partner Data Delivery UAT/Production Deployment** GCP Environment configuration Controls Implementation, Workflow Development of Data Matching · Remediation of Workflows Deployment to Production Project Data Schema development **Evaluation Framework** Documentation updates Development with live data starts Migration to "oeo.arizona.gov" Data Transformation review Development of Workflows ends Data Matching Evaluation User Acceptance Testing Incident Response Plan Enterprise Security Tools set up Partner Data delivery testing starts Development (Google) Incident Response Plan testing Security configuration Research Environment implementation & Windows set up · Development of Workflows with synthetic data starts

Original Project Costs



COSTS*	FY2021	FY2022	FY2023	FY2024	FY2025	TOTAL
Development Costs	1300.4	0	0	0	0	1300.4
Operational Costs	0	204.3	205.8	207.5	209.3	826.9
Total Project Costs	1300.4	204.3	205.8	207.5	209.3	2127.3

^{*} All figures are in thousands

Q & A Session