



Montana Office of Public Instruction

Data Modernization Project Status & Overview

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Aug 2022





Data Modernization Overview

- \$13.5 M CARES and ARPA funding appropriated to OPI by Montana legislature

4 Main Areas

- ❖ Student Management
 - ❖ (~\$2.45 M)
- ❖ Educator Management
 - ❖ (~\$1.5 M)
- ❖ Fiscal Management
 - ❖ (~\$3 M)
- ❖ Digital Management
 - ❖ (~\$3 M)

Data Systems Modernization Goals

- Reduce # of different data systems & processes
- Automate workflow, increase security and add to a better user experience
- Enhanced analytics enabling OPI and districts to make targeted decisions and identify risk before they become issues impacting students and educators

Financial Considerations

- Total Appropriations - \$13,475,248.00
- House Bill 630 (ESSER II)
 - ✓ \$8.0M Obligated by September 30, 2023
- House Bill 632 (ESSER III)
 - ✓ \$5.475M Obligated by September 30, 2024



Data Modernization Objective and Current Activities

The data modernization program is a complex project with over 73 different data collection systems at the OPI that are being inventoried and analyzed.

Program Outcomes

- Unduplicated data collection from the field
- Automation
- User Simplification
- Sustainability
- Satisfaction
- Ongoing Improvement



Current Activities

K-12 Data Task Force & Stakeholder Input

Teacher Licensure

- Teach Montana System (TMT) went live June 01, 2022

Student(SIS)

- Infinite Campus Capabilities/ Integration of legacy systems
- PowerSchool Discussions

OPI

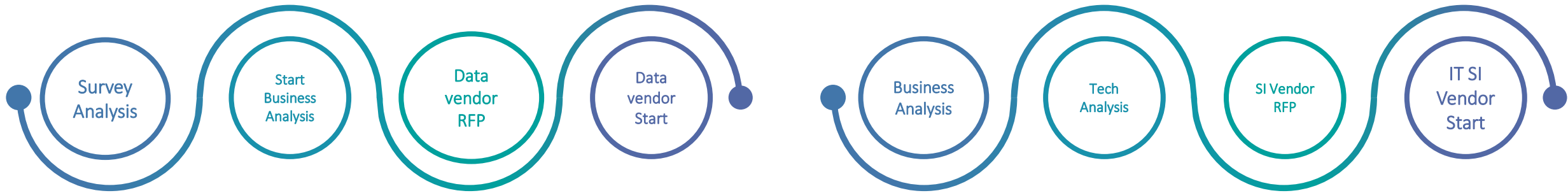
- RFP for Assessment of System needs Released
- System ties
- Project Plan and Direction

Digital Infrastructure

- Single Sign-On Modernization – Project went live July 2022 over 30 systems in production
- Analysis of a Data Lake Platform System and Snowflake Technology



Data Modernization Core Activities



July 2022

Assess survey response to identify common & high priority requirements. Initial process for business requirements approach & strategy

July 2022

Identify and confirm core business stakeholder & manage expectations for business requirements sessions & meetings. Review & manage expectations with respect to session objectives

Aug 2022

Release data vendor RFP via procurement process.

Deliverables

- Current State Inventory Assessment (Scoping)
- Current State Data Quality Assessment
- Current State Reporting Assessment
- Current State Risk & Issues
- Future State Recommended Solution
- Future State Conceptual Solutions Design
- Road Map and Cost Model for System Implementation

Oct 2022

Onboarding data vendor & contract start. 3-month effort.

Oct 2022

Comprehensive business requirements & rules, including prioritization, review & sign-off by business stakeholders.

Feb 2023

Data vendor deliverables due adhering to SOW, Contract & OPI expectations for technical analysis. Assessment to be used in SI vendor RFP development

Mar 2023

Release of System implementation services RFP for OPI Data Modernization. Suggested RFP model includes RFP overall budget to include software license, managed services for implementation & year 1 maintenance support

June 2023

System implementation vendor commence services for June 30th, 2024, deliver of complete OPI data modernization solution



Data Modernization Workstreams & 2-Yr Timeframe

Activities	2022									2023												2024	
	M	J	J	A	S	O	N	D		J	F	M	A	M	J	J	A	S	O	N	D	2024	
Survey Analysis			█																				
Biz Requirements							█																
Data Vendor RFP	█																						
Data Vendor Selection					█																		
Data Vendor Analysis							█																
SI RFP						█																	
SI Vendor Selection												█											
Implementation*															█								

*Implementation timeline will continue until June 30, 2024



Data Systems Modernization Budget Snapshot

Fiscal Year	FY2022 Projected Spend	FY2023 Projected Spend	FY2024 Projected Spend
ESSER Data Recruitment	\$250K		
Systems Analysis - RFP	\$250K		
DSM System Integrator - RFP		\$1mil	
Student Management		\$1.475mil	\$925K
Educator Management	\$500K	\$300K	\$200k
Fiscal Management		\$1.5mil	\$1.5mil
Digital Infrastructure Management		\$1.55mil	\$350K
DSM Contractors	\$692K	\$805K	\$195K