

Project Startup Report

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GENERAL INFORMATION

Project Name: Statewide Longitudinal Data System (SLDS)

Agency Name: Information Technology Department

Project Sponsor: Kim Weis

Project Manager: Ramya Mogili and Heather Raschke

PROJECT DESCRIPTION

With this project, North Dakota Information Technology (NDIT) seeks to:

1. Implement standardized data models in the ND Statewide Longitudinal Data System (SLDS).
2. Modernize the ND SLDS infrastructure and adopt cloud-based infrastructure and services.
3. Expand the SLDS to include a juvenile justice domain. Dashboards will be created to display the data.

BUSINESS NEEDS AND PROBLEMS

Thus far, ND has taken an enterprise approach to the SLDS and has architected a hybrid system which houses multiple data warehouses that are available to the contributing agency. The SLDS was built utilizing what was at the time cost-effective architecture and on-premise hardware and software. The system is a hybrid that provides secured centralized reporting data warehouses for major contributors while federating data to the P20W (PK-12, post-secondary, and workforce) data systems for program evaluation, studies and research. The systems are now aging and the design of these data systems, while appropriate for the time they were built, are not able to expand, adjust to changing data demands, nor provide services and analytics at the rate that demand for new and existing data is being requested. An architecture that provisions hardware, databases, services, software, and analytics must be readily available to respond to changing demands. ND recognizes the importance of growing the SLDS in order to provide greater value to current partners as well as future partners, including human services, health services, corrections, and additional workforce development programs.

PROJECT BASELINES

Project Start Date	Baseline End Date	Baseline Budget	Funding Source
3/3/2020	03/01/2027	\$3,498,984	Federal

Notes:

The project includes various procurements as well as multiple proof of concepts.

The federal grant funds are provided by the US Department of Education (DOE).

OBJECTIVES

Business Objective	Measurement Description
Outcome 1: Implement standardized data models in the ND SLDS.	
Objective 1.1 Establish Ed-Fi Operational Data Store (ODS)	Measurement: The Ed-Fi ODS is extended to accommodate all ND PowerSchool custom elements.

Business Objective	Measurement Description
Objective 1.2 Build Ed-Fi data validation portal that can be used to integrate existing assessment vendors that have implemented the Ed-Fi standard	Measurement: Assessment vendor data received by the SLDS is validated with reports back to districts on the quality of roster matching with less than 20% variance.
Objective 1.3: Reengineer ETL to build existing K12 data warehouse from ed-fi integrated ODS with existing state ODS	Measurement: The integrated ODS is running in the production environment.
Outcome 2: Modernize ND SLDS infrastructure through the adoption of cloud-based infrastructure and services.	
Objective 2.1 Implement the SLDS production infrastructure in a cloud environment	Measurement: One quarter after implementation of the SLDS infrastructure in the production cloud environment, the system will have a 99% uptime as measured during a 7-day period.
Outcome 3: Expand SLDS to include juvenile justice.	
Objective 3.1 Implement a juvenile justice domain	Measurement: Dashboard reporting from the juvenile justice domain identifies at least one risk factor to success for individuals in the juvenile justice domain.

KEY CONSTRAINTS AND/OR RISKS

Key Constraints:

1. DOE federal grant funds expire at the end of February each year. Grant extensions are limited to one-year increments.

Key Risks:

1. Loss of federal funds
2. Lack of resources to work on the project