

Iterative Project Report for Programs & Multi-Year Phased Projects

Submitted to Project Oversight on 10/16/2023

GENERAL INFORMATION

Program/Project Name: Lighthouse Program

Agency Name: NDIT

Project Sponsor: Kim Weis

Project Manager: Justin Anderson

PROJECT DESCRIPTION

The goal of the Lighthouse program is to provide the basis for a statewide data strategy and governance and develop the technical basis for any agency to store and combine data in a meaningful way. This project will result in a comprehensive data strategy designed to build out cloud data assets keeping in line with best practices in data management. The data strategy will also identify which relevant source systems will need to migrate to cloud in future.

BUSINESS NEEDS

- There are currently multiple sources of data in the state, however, current reporting does not provide North Dakota Department of Public Instruction (NDDPI) the information they need to make informed predictions about the trajectory of a student's educational career.
- Data systems throughout the state are disparate and have no common structure or convention.

PROGRAM/PROJECT FORMAT

Program/Project Start Date: 4/2022

Budget Allocation at Time of Initial Start Date: \$4,890,000

How Many Phases Expected at Time of Initial Start Date: 3

Phase Approach Description:

- Program Initiation (4/2022 – 6/2023)
 - Business Analysis
 - Procurement
 - Proof of Concept
- Phase 1 (7/2023 – 2/2024)
 - Statewide Comprehensive Data Strategy creation
 - Implementation Roadmap
 - Use case definitions for NDDPI and Health and Human Services (HHS)
- Phase 2 (TBD)
 - Implementation of data system architecture
 - Implementation of use cases
- Phase 3 (TBD)
 - Optimization
 - Enhancement
 - Future Planning

Estimated End Date for All Phases Known at Time of Initial Start Date: 6/2026

PROGRAM/PROJECT ROAD MAP

The program road map shows the high-level plan or vision for the program/projects/phases. It is intended to offer a picture of the lifespan of all the effort that is expected to be required to achieve the business objectives.

Project/Phase	Title	Scope Statement	Estimated Months Duration	Estimated Budget
Project 1	Lighthouse - Initiation	What the project or phase will produce	10	\$180,057
Project 2	Lighthouse Phase 1	Phase 1 of the Lighthouse Program will define the data strategy, architecture and governance for NDIT while defining the technical infrastructure and data capabilities for Phase 2. Phase 1 will also elicit the business requirements for the use cases created in Phase 2 to help educators with early indicators and educational policy makers make more informed, data-driven decisions.	7	\$557,963
Project 3	Lighthouse Phase 2	Phase 2 will be the implementation of the new data system based on the agreed upon outcomes from the Implementation Roadmap deliverable from Phase 1	TBD	\$701,250
Project 4	Lighthouse Phase 3	Phase 3 will focus on enhancements and optimization of the data system developed in Phase 2 and the development of additional use cases.	TBD	\$197,625

Notes:

The vendor Guidehouse was contracted for all three phases. Estimates provided for Phases 2 and 3 are only for their continued services. Hardware and software costs identified from Phase 1 would be an additional cost.

PROJECT BASELINES

The baselines below are entered for only those projects or phases that have been planned. At the completion of a project or phase a new planning effort will occur to baseline the next project/phase and any known actual finish dates and costs for completed projects/phases will be recorded. The iterative report will be submitted again with the new information.

Project/Phase	Project/Phase Start Date	Baseline End Date	Baseline Budget	Funding Source	Actual Finish Date	Schedule Variance	Actual Cost	Cost Variance
Initiation	4/4/2022	7/6/2023	\$180,057.00	General	7/6/2023	0%	\$180,057.00	0%
Phase 1	7/3/2023	2/9/2024	\$557,692.50	General				

Notes:

Funding for the Lighthouse Program was granted to NDDPI by SB2346 in the 21-23 Legislative Session. NDDPI requested to transfer procuring authority (per NDCC 54-59-32(3)) and \$4.89 million of the funding to NDIT. The ESC voted and approved the transfer 10/10/2022.

OBJECTIVES

Project/Phase	Business Objective	Measurement Description	Met/Not Met	Measurement Outcome
Initiation	Thought leadership in developing the business (use) cases that could be a starting point for a larger system development	An appropriate vendor can be found and procured.	Met	Guidehouse was contracted for all 3 phases
	A partner (vendor) with public sector experience navigating the challenges of blending several sources of protected data and the technical knowledge and abilities to take us from start to finish	An appropriate vendor can be found and procured.	Met	Guidehouse was contracted for all 3 phases
Phase 1	Agency partners need the ability to implement data governance activities to enhance data quality and empower data-driven decision-making	The Comprehensive Data Strategy will be created in a way that relevant suggestions can be provided to agencies that are creating new data systems or updating existing systems. NDIT will measure this by reviewing the Comprehensive Data Strategy and creating a guide for these endeavors within 3 months		
	NDIT needs an actionable technical plan to move forward with the Lighthouse Program	Upon review, NDIT will determine if the presented roadmap will be feasible for implementation. NDIT will measure this by beginning Lighthouse Phase 2 within 2 months of the close of Phase 1.		

KEY LESSONS LEARNED AND SUCCESS STORIES

A lessons learned effort is performed after each project or phase is completed. This process uses surveys and meetings to determine what happened in the project/phase and identifies actions for improvement going forward. Typical findings include, "What did we do well?" and "What didn't go well and how can we fix it the next time?"

Project/Phase	Key Lessons Learned and Success Stories

KEY CONSTRAINTS AND/OR RISKS

The current budget may not be sufficient to complete all 3 phases of the program. Currently only vendor cost estimates are not known, and they will not be solidified until the Implementation Roadmap deliverable from Phase 1 has been accepted.