NMLDS Project

Kickoff

12/16/20

Project Summary: Who?

- The New Mexico Longitudinal Data System (NMLDS) Project is a collaboration between:
  - The New Mexico Department of Workforce Solutions (DWS),
  - The New Mexico Early Childhood Education & Care Department (ECEDS)
  - The New Mexico Higher Education Department (HED), and
  - The New Mexico Public Education Department (PED)

Project Summary: Why?

- The NMLDS Project will be performed to stand-up a system, produce policies and processes and provide training that will help educators, workforce developers, policymakers, legislators, researchers and others:
  - See aggregate trends in student performance
  - See aggregate trends in workforce performance
  - Leverage data to improve student outcomes
  - Leverage data to improve workforce outcomes
  - Leverage data to improve equity
  - Perform predictive analysis
  - Obtain assistance with Federal and other reporting

Project Summary: What?

- The NMLDS Project will:
  - Aggregate relevant data from partner agencies into either a federated or centralized data warehouse
  - Cleanse & deduplicate data
  - Match data
  - Implement a Master Unique ID
  - Establish Data Governance
  - Implement robust reporting & data visualization capabilities
  - Automate data sharing
  - Provide interoperability
  - Stand-up portal (public & password protected)

Product Description

- The NMLDS system will:
  - Link P-20W+ (early childhood through workforce) data housed at DWS, ECECD, HED, and PED via a federated or centralized data warehouse
  - Be hosted on premises or in the cloud

Data Elements

- Data collected and reported through NMLDS may include:
  - Student (pre-K, K-12, and post-secondary)
    - Demographics
    - Enrollment
    - Dual-credit status
    - Remediation status
    - Educational program participation
    - Financial aid
    - Welfare or educational interventions
  - Teacher
    - Preparation
    - Certification/Licensure
  - Workforce
    - Employment
    - Industry
    - Earnings
    - Participation in workforce training initiatives

Project Team

Name	Agency	Role
Anna Lopez	HED	Project Manager
Jean Wood	PED	Project Manager Advisor
Blezoo Varghese	DoIT	IT Architect
Julie Lopez-Casaus	DWS	Business Analyst
Paloma Sena	DWS	Business Analyst
Lynn Carrier	DWS	Systems Analyst
Rachel Moskowitz	DWS	Subject Matter Expert for statistics and performance, outcome, use
TBD	TBD	Data Architect
TBD	TBD	Database Analyst

Project Steering Committee

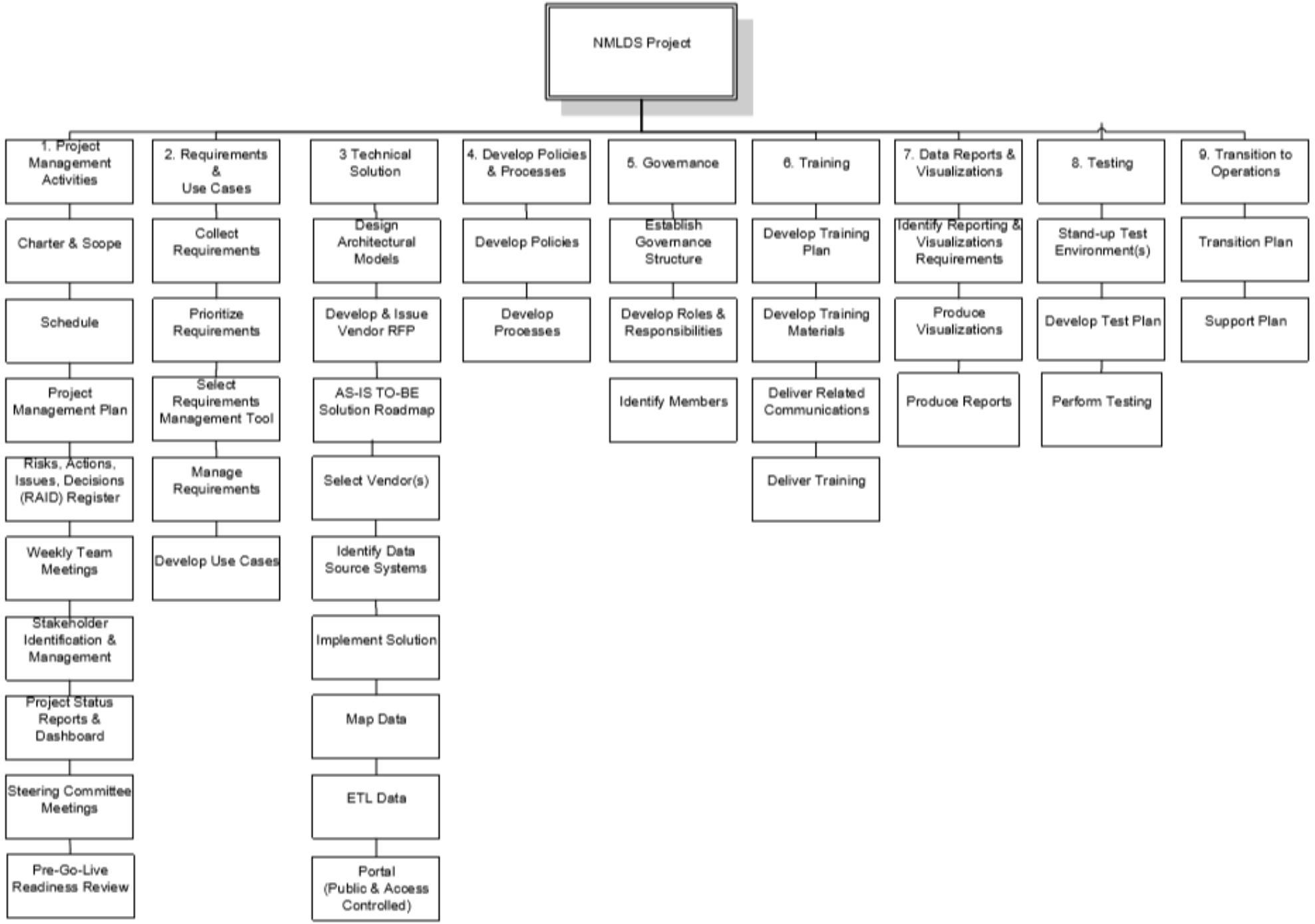
- Membership
  - Three representatives from PED
  - Three representatives from HED
  - Three representatives from DWS
  - Three representatives from ECEDS
- Monthly meetings
  - First meeting Friday, 12/18

Budget

ITEM	FY2021 ESTIMATE	FY2022 ESTIMATE	FY2023 ESTIMATE	FY2024 ESTIMATE	TOTAL
Professional Services (including IV&V)	$228,000	$565,000	$565,000	$250,000	$1,608,000
Implementation Services (vendor only)	$0	$218,000	$98,000	$32,000	$348,000
Hardware/Infrastructure	$0	$80,000	$8,000	$0	$88,000
Software Licensing	$11,000	$777,000	$81,000	$81,000	$950,000
Internal staff (work charged to project)	$35,000	$74,000	$39,000	$21,000	$169,000
TOTAL	$274,000	$2,058,000	$801,000	$412,000	$3,545,000

Timeline

MILESTONE	DATE
Initiation Phase Begins	8/24/20
Project Kickoff	12/20
Begin gathering requirements	2/21
Finish gathering requirements	5/21
Issue RFP	4/21
Select vendor and execute contract	9/21
Planning Phase Begins	10/21
Execution Phase Begins	1/22
Deploy new system to production / go-live	10/23
Closing Phase Begins	5/24
Project Completed	6/24


NMLDS Project
1. Project Management Activities
Charter & Scope
Schedule
Project Management Plan
Risks, Actions, Issues, Decisions (RAID) Register
Weekly Team Meetings
Stakeholder Identification & Management
Project Status Reports & Dashboard
Steering Committee Meetings
Pre-Go-Live Readiness Review
2. Requirements & Use Cases
Collect Requirements
Prioritize Requirements
Select Requirements Management Tool
Manage Requirements
Develop Use Cases
3 Technical Solution
Design Architectural Models
Develop & Issue Vendor RFP
AS-IS TO-BE Solution Roadmap
Select Vendor(s)
Identify Data Source Systems
Implement Solution
Map Data
ETL Data
Portal (Public & Access Controlled)
4. Develop Policies & Processes
Develop Policies
Develop Processes
5. Governance
Establish Governance Structure
Develop Roles & Responsibilities
Identify Members
6. Training
Develop Training Plan
Develop Training Materials
Deliver Related Communications
Deliver Training
7. Data Reports & Visualizations
Identify Reporting & Visualizations Requirements
Produce Visualizations
Produce Reports
8. Testing
Stand-up Test Environment(s)
Develop Test Plan
Perform Testing
9. Transition to Operations
Transition Plan
Support Plan

Project Values

- Security
- Privacy
- Equity
- Sustainability

Benefits

1. NMLDS includes data from the entire state, not just a single school district or program.
2. NMLDS users can examine information for different geographic areas as well as for the entire state.
3. Securely connect data from multiple education and employment programs to show the relationships among the programs and who they serve.
4. Ensures compliance with relevant data privacy laws.
5. Link data over time to allow users to measure progress and examine the relationships between earlier experiences and long-term outcomes.
6. Help users examine long-term trends for different groups of students.
7. Teachers can see their student's education history and plan their instruction accordingly.
8. Teachers can identify and provide additional support to students who are at risk of failing or dropping out of school.
9. School administrators can see how their graduating classes fare in college and in the workforce.
10. School administrators can identify ways to better prepare students in the future by implementing programs that help teachers improve instruction, tailor student support to student needs and revise course offerings.

Benefits *(continued)*

11. Postsecondary institutions can assess how well their programs align to workforce needs and how well their graduates are prepared to contribute to high demand career fields.
12. By reviewing information available from the NMLDS, students and their families can determine which education services, schools or degree programs will help them meet their academic and professional goals.
13. Workers can decide which training programs and certifications will help them advance their careers based on wage and employment information from others with similar credentials.
14. With NMLDS data, researchers can help educators, policy makers, and the community understand more about the connections between education programs and student outcomes.
15. Researchers can help by examining trends to inform policies and programs and answering questions related to topics like college and career readiness or closing achievement gaps.
16. NMLDS also supports more efficient operations and better policies across the state.
17. NMLDS help streamline data collection so that education programs can obtain data for required state and federal reporting while minimizing the burden of redundant data collections on schools and districts.
18. Education leaders can make informed decisions about supplemental services and course offerings to maximize student learning.
19. Lawmakers and policymakers can evaluate how best to fund education, training, and workforce programs and how to improve the policies that govern them.
20. The information provided by the NMLDS allows states to use evidence to answer questions more effectively about their education and workforce systems and, ultimately, to better serve students and workers.

Any
Questions

More Questions?

- Project Team
  - risenm@hed.nm.gov