#### New York State Education Department's P20W Statewide Longitudinal Data System (SLDS) Initiative

Phase 1 - Expanding Infrastructure and Improving Interoperability

A Presentation to the Board of Regents January 2024



New York State EDUCATION DEPARTMENT Knowledge > Skill > Opportunity

### What is an SLDS?

A comprehensive system that integrates data from P-12, higher education, workforce, and other relevant data sets

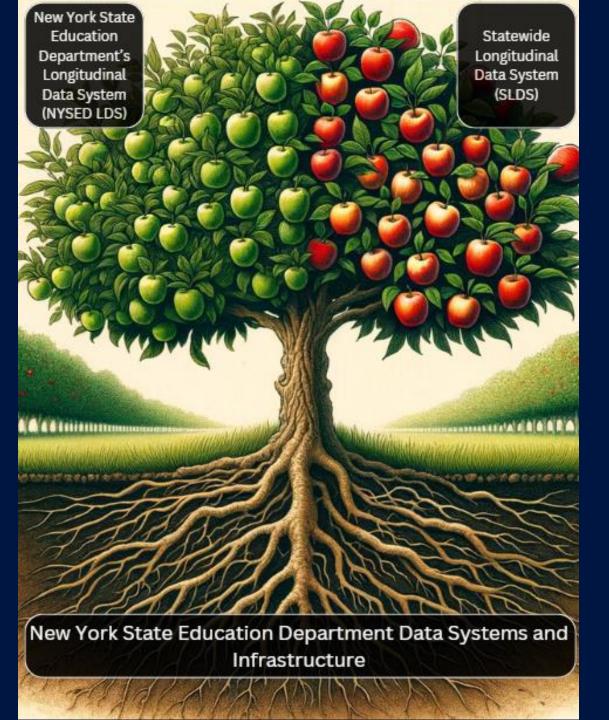
#### Purpose:

- Answer critical questions
- Inform decision making
- Guide policy development to improve education outcomes

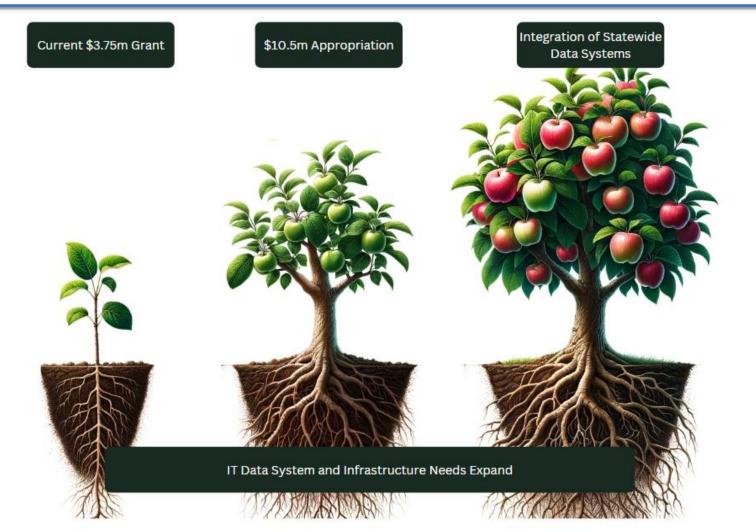
#### <u>Critical Components:</u>

- Data governance and data usage strategies
- o Technical infrastructure for security and data sharing
- Sustainable support for long-term maintenance

NYS Education Department LDS vs Statewide LDS and the Importance of Our IT Systems



### Growing an SLDS





#### Current State of NYSED's LDS

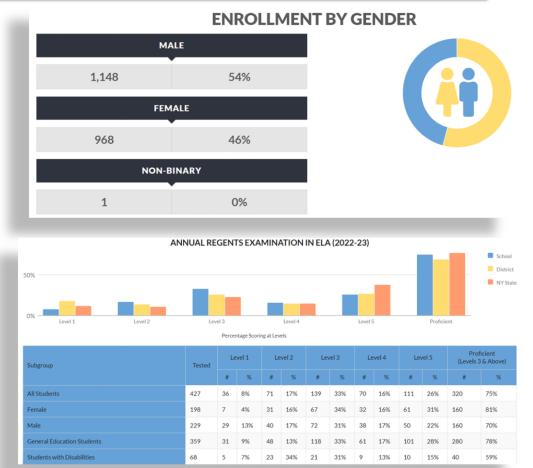




### Current State of NYSED's LDS

We have a robust P-12 data warehouse with some postsecondary data to meet reporting needs. However:

- Disparate, siloed, and aged technical infrastructure must be addressed
- Expansion is necessary for higher education and workforce data
- Previous unsuccessful attempts resulted in missed opportunities



#### Current State of NYSED's LDS

USDE lists 14 SLDS requirements to assist with status review:

- One item, "Secure Access to Data," is considered "Complete"
- Seven items, including "Governance," "Privacy Protection," and "Data Quality," are rated as "Currently in progress" or as early stage
- Six items, including "Institutional Support," "Sustainability," and "Enterprise-wide Architecture," are rated with the status of "Has not begun"

Exhibit 1: SLDS Requirements & NYS Status			
SLDS Requirements		NYS Status	
1. Governance & Policy	a. Needs and Uses	Currently in progress	
	b. Governance	Currently in progress	
	c. Institutional Support	Has not begun	
	d. Sustainability	Has not begun	
2. Technical	a. Federal Reporting	Currently in progress	
	b. Privacy Protection and Data Accessibility	Currently in progress	
	c. Interoperability	Has not begun	
	d. Data Quality	Currently in progress	
	e. Enterprise-wide Architecture	Has not begun	
3. Data Use	a. Secure Access	Complete	
	b. Data Use Deliverables	Currently in progress	5 <sup>41</sup>
	c. Evaluation	Has not begun	
	d. Partnerships with Research Community	Currently in progress	ANI Vicense
	e. Sustainability Plan	Has not begun	

### SLDS 2023 Grant: Award Summary

NYSED has received a four-year \$3.75 million grant award from USDE in support of an SLDS project focusing on the priority of "Infrastructure and Interoperability."

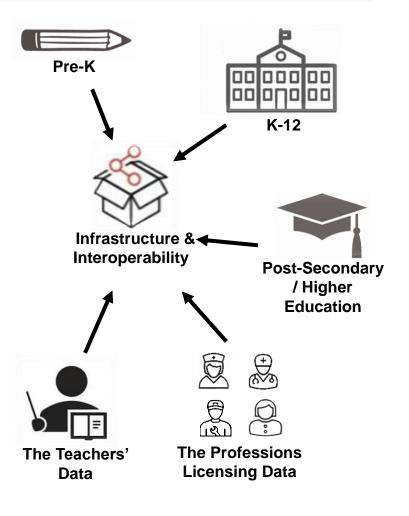
- Infrastructure: update, expand, and develop technical infrastructure to support an SED LDS
  - On-going: Student identification system in P-12 data warehouse
  - Proposed: Data integration and storage infrastructure
- Interoperability: create linkages of data elements



### SLDS 2023 Grant: Proof of Concept

Overarching goal: To demonstrate the "Proof of Concept" and a pathway to success:

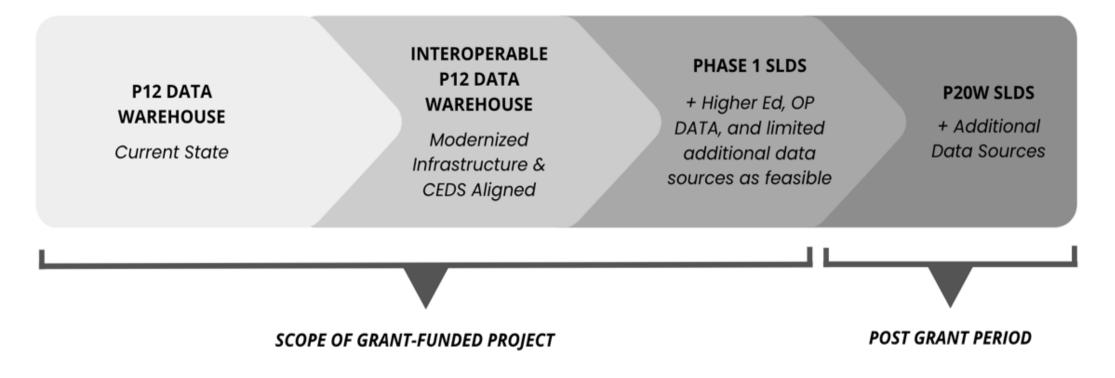
- Connect P-12 data warehouse to data from the Office of the Professions and the Office of Teaching Initiatives
- Link P-12 data warehouse to the systems of SUNY and CUNY
- Demonstrate data visualization through expanded infrastructure and technical solution





#### SLDS 2023: Scope of Work

CONTINUUM OF DEVELOPMENT New York State P20W SLDS



#### SLDS 2023 Grant: Work Plan

#### NYSED SLDS Timeline by Key Outcome Initiatives

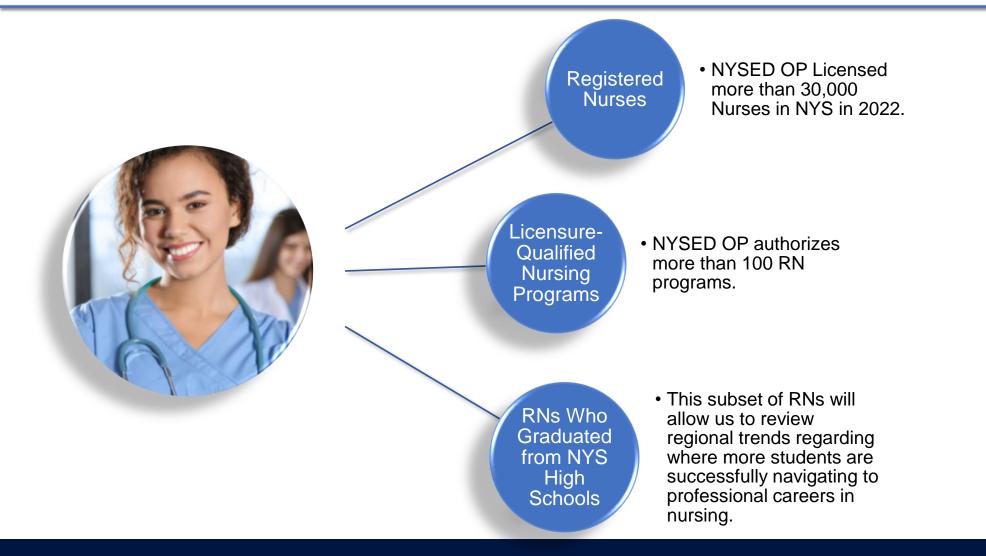


September 2024 - September 2027

Years 2, 3, and 4 SLDS Key Outcome Initiatives 6 and 7

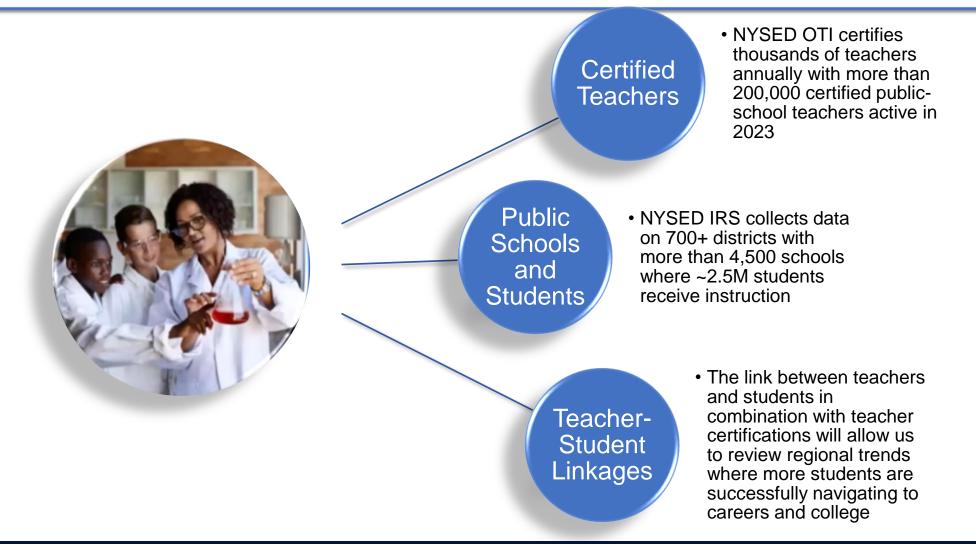
Continuous Improvement and Oversight

#### SLDS 2023 Grant: Professions





#### SLDS 2023 Grant: Teachers





## Define and align mission and vision of the work for key stakeholders

- Work with the USDE State Support Team and learn from other state's SLDS experiences
- Engage key stakeholders in NYS
- Develop data privacy campaign and "myth buster" document





#### Update policies and standard practices to support the SLDS

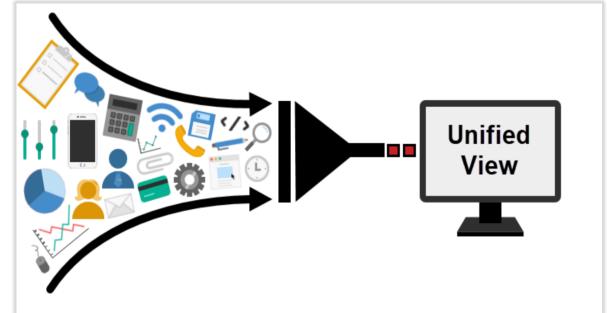
- Improve data governance program
- Develop data usage strategies
- Engage external state-level stakeholders in discussions about addressing possible legal limitations that diminish capacity for statewide data interoperability





## Finalize technical decisions related to infrastructure and interoperability

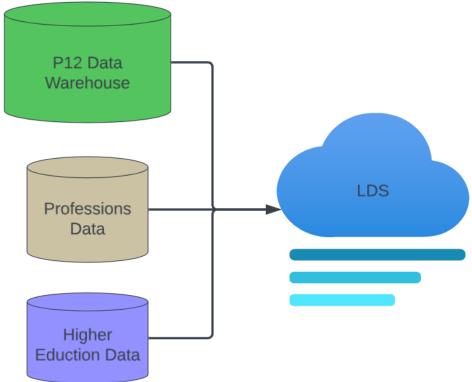
- Determine feasibility and best technical fit
- Conduct technology infrastructure analysis
- Research data visualization systems and platforms to identify the best fit





## Expand P-12 Data Warehouse infrastructure to support interoperability

- Modernize technologies (such as Cloud storage and Virtual Private Network/VPN tunnel)
- Implement matching mechanism among multiple data systems
- Develop visualization standards and report delivery standards and mechanisms





## Implement technological solution to include other statewide data sources in Phase 1 SLDS

- Pilot Phase 1 SLDS with Office of the Professions data
- Pilot Phase 1 SLDS with data from SUNY and CUNY
- Develop automated mechanism for matching P-12 data sets with other data sets





## Achieve continuous improvement through stakeholder input and feedback

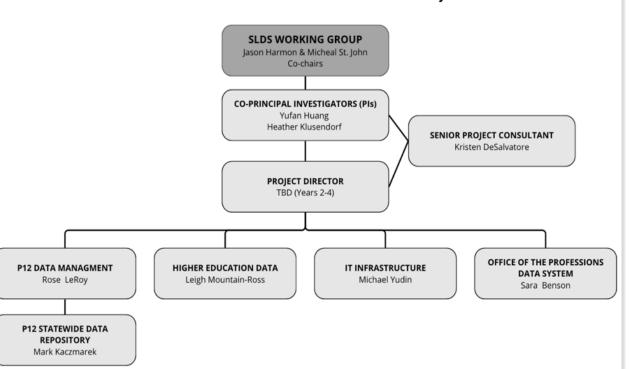
- Stakeholder input for maintaining the privacy and security of student data
- New NYSED webpage for data submission requests, questions, and feedback
- Outreach campaign through NYSED's listservs, newsletters, and social media





## Maintain proper oversight of the project through SLDSWorking GroupExhibit C: Governance Structure for the Project

- Maintain mission & vision of the Phase 1 SLDS throughout the grant period
- Standard quarterly meetings and ad hoc meetings as needed
- Disparate, siloed, and aged technical infrastructure must be addressed

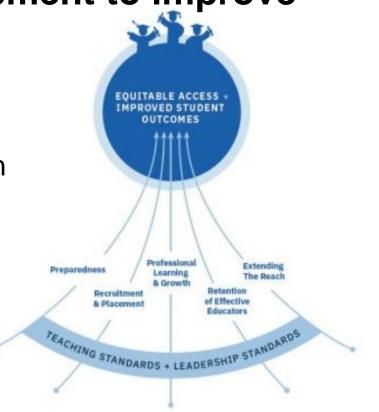




### SLDS 2023 Grant: Future Opportunities

An SLDS should help to answer critical questions, inform decision making, and guide policy development to improve outcomes

- Are changes to the teacher pipeline resulting in more teachers available in areas of need?
- Are improvements we have made for incarcerated youth to receive a diploma resulting in improved career and economic outcomes?
- Can we identify critical class and course taking patterns that improve the career and college outcomes for our students and make those learning opportunities available statewide?



# Questions?



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