Oregon Education Investment Board

Statewide Longitudinal Database System for P-20W

Executive Summary

- The OEIB is required by statute to deliver a data system to measure outcomes from investments (ROI)

- Equity progress can only be measured with student level data

- OEIB has researched system models across the country and intensively analyzed seven alternatives

- The OEIB has recommended the option that is the least risky and most secure.

Alternative Solutions

- Centralized solutions – OEIB creates a new statewide data warehouse and longitudinal database to solve all of the three problems. Could involve new systems in K-12 and post-secondary

- Federated solutions – the OEIB builds on existing systems and provides support to ODE and HECC

Selection Criteria

- Alignment to OEIB goals – 30%
- Cost – 15%
- Risks – 25%
- Security – 20%
- Future Opportunities – 10%

60%

Security and Risk

- Centralized solutions
  - Larger in scope
  - Single-point-of-failure for educational systems
  - Concentrate personal information
- Federated solutions
  - Smaller in scope
  - Cannot interfere with the day-to-day workings of schools
  - Display only de-identified information

Costs of Alternatives

Alternative 1	Alternative 2.1	Alternative 2.2	Alternative 3	Alternative 4	Alternative 5
$91,907,949	$54,103,575	$38,247,110	$11,147,961	$8,595,102	$6,144,546

Selected Alternative

Recommended Solution

- A federated solution with a new governance structure

- ODE will maintain a P-12 data warehouse and longitudinal database, including early learning data

- HECC will maintain a post-secondary data warehouse and a longitudinal database that shares education and workforce data

- OEIB will get data from ODE and HECC to create a de-identified longitudinal database in 1-2 years and Personal Achievement Record in 2-3 years.

Office of the Chief Education Officer   OEIB

Questions?

	OEIB-SLDS	Other Projects
Does the system handle transactions?	No. Users view static data.	Yes. Users complete transactions that change permanent records in a live database.
Do users input personal information?	No.	Yes. Users input personal information that can include sensitive demographic, financial, or other information.
Does the system display personally identifiable confidential data?	No.	Yes. User accounts display up-to-date confidential information.
Does the system require a large data warehouse that is updated in real time?	No. The OEIB-SLDS gathers small "snapshots" of data a few times a year.	Yes. The data warehouse is updated at least daily.
What are the consequences if the system goes down temporarily?	No change in day-to-day operations for students or staff in schools, districts, colleges, universities, or agencies.	Systemic downtime that affects users and staff. Operations cannot continue until the system is back up or an alternate solution is implemented.
How does the project manage risk and ensure quality?	TQA is budgeted at 6% and will be begin at project initiation. Project must meet progressive benchmarks.	Many projects fail at least partially because of ineffective or underfunded TQA processes.
Does the project face a hard deadline mandated externally?	No.	Many larger projects do face hard deadlines, which introduces extra project risk.

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