A one-stop P-20 Information System

Recommendations to the OEIB

October 9, 2012

FLT CONSULTING AND TREINEN ASSOCIATES

Introduction:

Oregon's education policy landscape has changed dramatically over the past few years. Multiple "systems" of early childhood learning, K-12, post-secondary, and workforce essentially have become components of a single system with a common goal focused on student achievement. We recommend that Oregon's education technology systems begin a similar transition toward a "one-stop" P-20 information system. This document provides a road map for building such a system.

Current Biennium:

Governance and Sustainability: Place information technology under the leadership of the Oregon Education Investment Board (OEIB) as a strategic component of its broader mission.

- Hire a Chief Information Officer (CIO) within the OEIB to direct the development of an integrated P-20 information system and to chair the Technology Consortium and User Councils described below.
- Create a P-20 Information Users Council to make recommendations on what should be built (i.e., the future functionality of the information system).
- Create an Education Technology Consortium to voluntarily and collaboratively build an integrated P-20 information system.
- Engage the Department of Administrative Services (State Procurement Office) to expedite contract negotiations to assist in securing vendors to assist in building the P-20 information system.
- Establish an Enterprise Fund, available to the OEIB, to make strategic investments in the P-20 information system.

Information System: Begin building a single log-in, one-stop portal for a P-20 information system to support Oregon's achievement objectives.

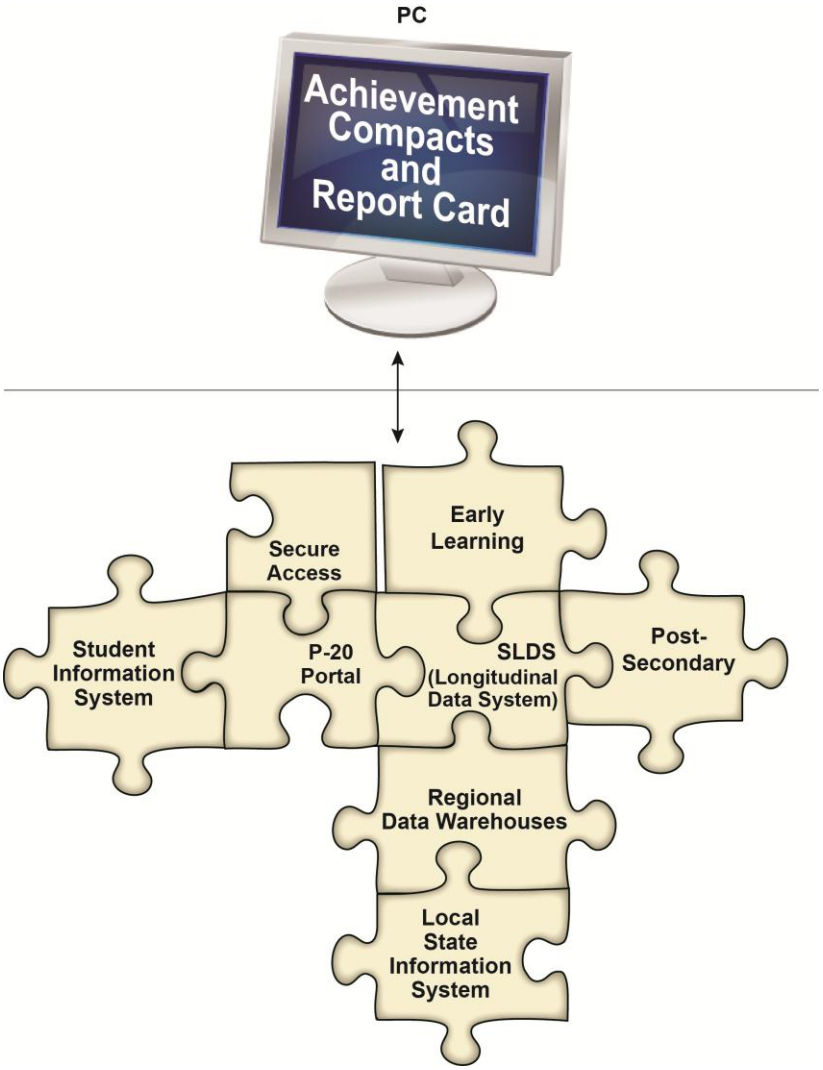
- Build a one-stop state P-20 information portal; the portal will initially display **Achievement Compact** and **Report Card** information from the statewide longitudinal data system (SLDS).
- Create a set of operational rules, under the direction of the CIO, to govern how data from multiple systems is presented to the portal and how that information is integrated within the SLDS.
- Connect the portal to student information systems managed by the Oregon Department of Education and/or other P-20 technology consortium partners.

Professional Development and Research: Establish a strong enabling environment for evidence-based professional development and institutional research across the P-20 spectrum.

- Expand data training to include early childhood, K-12, post-secondary faculty, teacher preparation programs, and parent groups.
- Support the funding request described in the existing cross-sector research proposal submitted as a Policy Option Package (POP) and direct these agencies to establish statewide research priorities for the 2013-15 biennium.

Fall 2013 Objective: The one-stop P-20 system is operational and reports basic outcomes to the public.

The framework for an integrated P-20 information system is established. The majority of data and dimensional modeling needed are in place and the statewide longitudinal data system is operational. A single log-in provides access to the system and displays P-20 **Achievement Compact** and **Report Card** information to the general public. Real-time K-12 student data is also available through an integrated connection to a single state-managed Student Information System. Researchers have access to the longitudinal data system. Privacy is protected through a secure log-on system. Transactional data systems are not affected.



What the public sees:

- Achievement Compact and Report Card data for all sectors of the P-20 spectrum;
- Comparative information across school districts, community colleges, and higher education institutions including aggregate longitudinal student data.

What P-20 educators and administrators see:

- All of the above; and
- Real-time disaggregated longitudinal student information from K-12 (if participating in the State Student Information system)

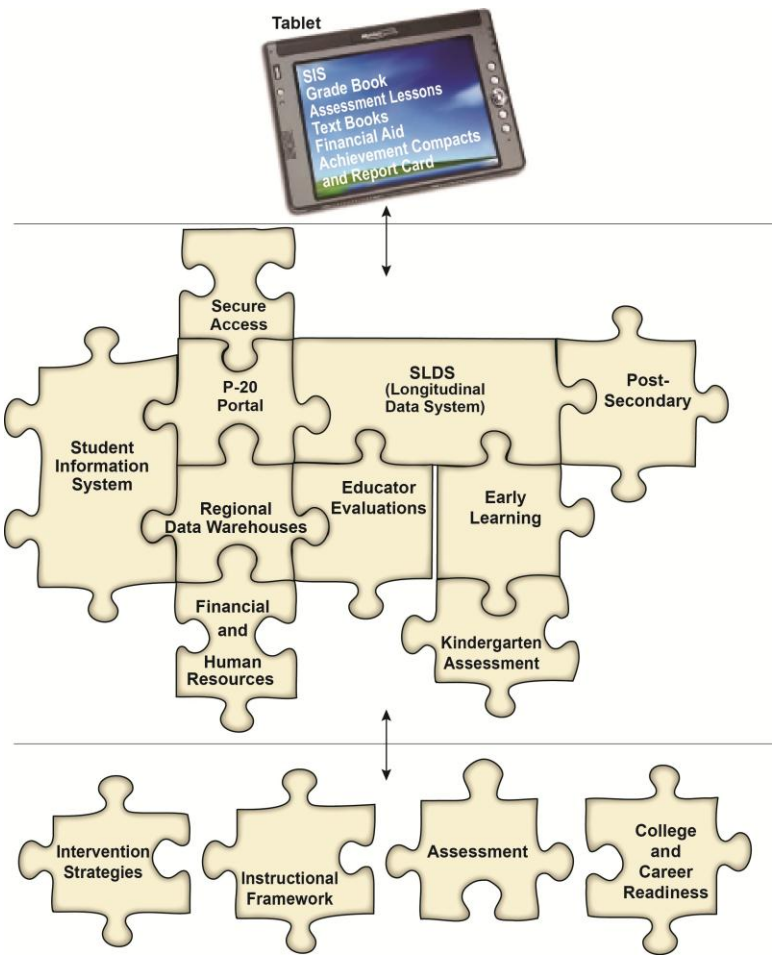
What researchers see:

- All of the above; and
- Longitudinal cohort data

2013-2015 Objective: The one-stop P-20 information system adds functionality to support student achievement and professional development; outcomes are transparently reported to the public.

The P-20 Information User Council makes recommendations for adding value to the system. The "operating rules" for building the P-20 information system are complete and allow the technology consortium to add modules to the system. Additional consolidation of local Student Information Systems occurs through the P-20 technology consortium.

Real-time student information data is more broadly available, allowing educators and administrators to be "watching the same movie". Dashboards are developed to allow users to "zoom in" to see detailed information or "zoom out" to see comparative information. The portal adds new systems (i.e., human resources, financial, and educator evaluations) to add greater value to the system. Kindergarten Readiness Assessments (early childhood) and financial aid system (post-secondary) modules are added. Cost savings are generated, primarily through the K-12 technology consortia. Data training and resources are provided broadly to P-20 educators and administrators, school boards, Parent Teacher Associations (PTA's), and the general public.



What the public sees:

- Achievement Compact and Report Card Data
- Comparative data (schools, districts, community colleges, universities, etc)
- Authorized student data (lessons, assessments, grades, and relevant financial data)

What P-20 educators and administrators see:

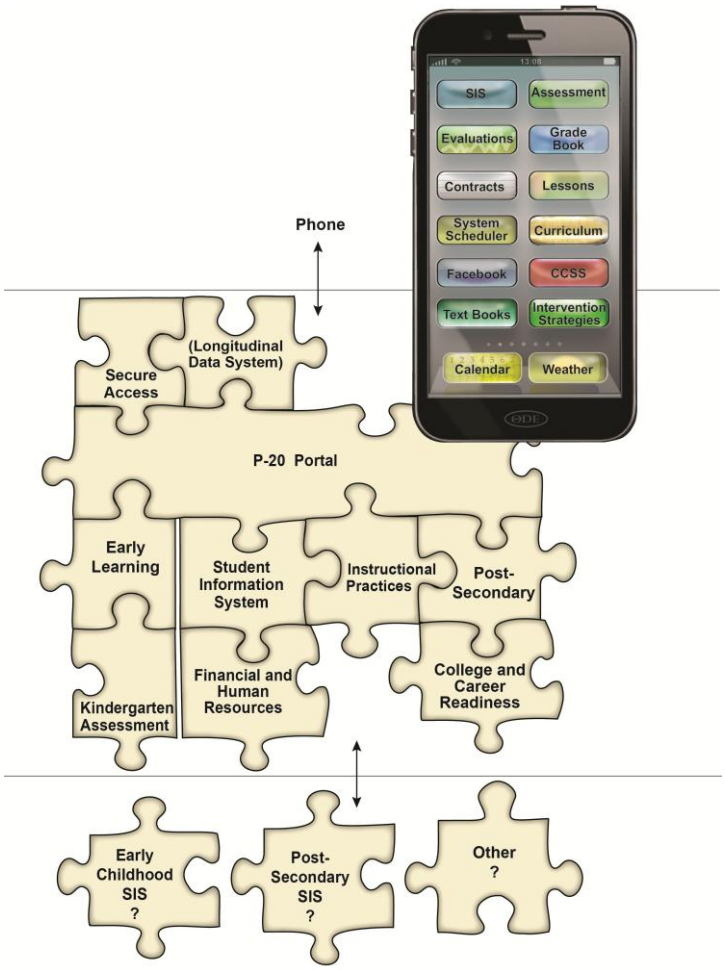
- All of the above; and
- Additional student achievement data
- Back office data (human resources, financial aid)

What researchers see:

- All of the above; and
- Data to track additional student cohorts

2015-2017 Objective: The one-stop P-20 information system adds significant new functionality to strongly support student achievement and professional development; outcomes are transparently reported to the public

New components are added based on recommendations from the P-20 Information Users Council. Functionality is expanded to support transitional strategies (i.e., Pre-school to K-12, K-12 to post secondary, post-secondary to work force). Dashboards are improved to support information access and utility. Potential cost savings identified in the previous biennium by the P-20 Technology Council begin to be implemented. New methods are used to broadly disseminate data training for more stakeholders.



What the public sees:

- (Authorized) information from new modules (i.e., financial aid, Kindergarten Readiness Assessment, student achievement assessments)
- Better dashboards to see comparative information

What P-20 educators and administrators see:

- All of the above; and
- Additional real-time student information;
- Improved performance data to better inform student intervention strategies
- Improved student and cohort data to better inform transitional strategies (i.e., early childhood to K-12, K-12 to post-secondary, and post-secondary to career).

What researchers see:

- All of the above; and
- New student and cohort data

2012 – 2017 Budget Information

Maintenance and Operation:

- A staff of 10.5 FTE is recommended to operate and maintain the longitudinal data system (SLDS).

- The annual on-going cost of the operations and maintenance team is estimated to be approximately $1.2 million per year.

Federal Funds:

- The scenario below assumes that the federal government grants a one-year extension for Project ALDER and that remaining federal funds are spent approximately equally during fiscal years 2012 and 2013.

Enhancement Team:

- A staff of 9.0 FTE and four contractors is recommended to build enhancements for an integrated P-20 information system.

- The annual on-going cost of the enhancement team is estimated to be approximately slightly more $4 million per year. This number includes a budget for contractors and professional development.

Enterprise Fund:

- An enterprise fund is assumed as a tool for making additional investments in the P-20 information system.

- Potential costs for the Enterprise Fund may include:
    - Chief Information Officer;
    - Purchase of state student information system;
    - Purchase of web-based assessment and educator evaluation tools;
    - Contracts with select P-20 technology consortiums to build specific modules or systems;
    - Subsidies for data migration costs to a state student information system; and
    - Subsidies for connectivity costs for remote districts

SUMMARY OF 2012-2107 COSTS FOR P-20 INFORMATION SYSTEM

2012 - 2017 Summary	FY 11-13	FY 13-15		FY 15-17		
Categories	7/12-7/13 Total Budget	7/13-7/14 Total Budget	7/14-7/15 Total Budget	7/15-7/16 Total Budget	7/16-7/17 Total Budget	Total
Maintenance and Operations	$1,172,660	$1,177,676	$1,195,437	$1,213,365	$1,231,830	$5,990,968
Federal Funds	$4,113,681	$4,113,681	$0	$0	$0	$8,227,361
Enhancement Team	$0	$4,046,604	$4,080,402	$4,115,099	$4,150,718	$16,392,823
Enterprise Fund	$0	$5,000,000	$5,000,000	$5,000,000	$5,000,000	$20,000,000
Total Costs by Year	$5,286,341	$14,337,961	$10,275,839	$10,328,464	$10,382,548	$50,611,153

MAINTENANCE AND OPERATION COSTS - DETAIL

Maintenance and Operations	FY 11-13	FY 13-15		FY 15-17		
Categories	7/12-7/13 Total Budget	7/13-7/14 Total Budget	7/14-7/15 Total Budget	7/15-7/16 Total Budget	7/16-7/17 Total Budget	Total
Personnel	$628,060	$630,995	$640,388	$649,201	$658,279	$3,206,923
Benefits	$259,774	$260,620	$264,683	$269,495	$274,452	$1,329,025
Travel	$31,403	$31,550	$32,019	$32,460	$32,914	$160,346
Other	$58,169	$58,419	$59,299	$60,186	$61,098	$297,171
Total Direct Costs	$997,406	$981,584	$996,389	$1,011,342	$1,026,743	$4,993,464
Indirect Costs	$195,254	$196,092	$199,048	$202,023	$205,087	$997,504
Total Costs	$1,172,660	$1,177,676	$1,195,437	$1,213,365	$1,231,830	$5,990,968

ENHANCEMENT COSTS - DETAIL

Enhancement Team	FY 11-13	FY 13-15		FY 15-17		
Categories	7/12-7/13 Total Budget	7/13-7/14 Total Budget	7/14-7/15 Total Budget	7/15-7/16 Total Budget	7/16-7/17 Total Budget	Total
Personnel		$651,147	$667,426	$684,112	$701,215	$2,703,900
Benefits		$279,993	$288,393	$297,045	$305,956	$1,171,388
Travel		$32,557	$33,371	$34,206	$35,061	$135,195
Equipment		$250,000	$250,000	$250,000	$250,000	$1,000,000
Supplies		$52,092	$53,394	$54,729	$56,097	$216,312
Contractual		$805,800	$805,800	$805,800	$805,800	$3,223,200
Other		$124,295	$125,903	$127,553	$129,248	$507,000
Subtotal Direct Costs		$2,195,885	$2,224,288	$2,253,445	$2,283,376	$8,956,994
Special Payments (Integration & Prof.Dev. Training)		$1,500,000	$1,500,000	$1,500,000	$1,500,000	$6,000,000
Total Direct Costs		$3,695,885	$3,724,288	$3,753,445	$3,783,376	$14,956,994
Indirect Costs		$350,718	$356,115	$361,654	$367,342	$1,435,829
Total Costs		$4,046,604	$4,080,402	$4,115,099	$4,150,718	$16,392,823

List of Interviewees:

Name	Title	Organization
Dr. Rudy Crew	Chief Education Officer	Oregon Education Investment Board
Margie Lowe	Policy Analyst	Oregon Education Investment Board
Duncan Wyse	Member	State Board of Education
Rob Saxton	Deputy Superintendent	Oregon Department of Education
Doug Kosty	Assistant Superintendent, Assessment and Information Services	Oregon Department of Education
Josh Klein	Chief Information Officer	Oregon Department of Education
Dion Baird	Chief Information Security Officer	Oregon Department of Education
Brian Reeder	Assistant Superintendent, Analysis and Reporting	Oregon Department of Education
Mickey Garrison	Director, Data Literacy	Oregon Department of Education
Theresa Richards	Director, Teaching and Learning	Oregon Department of Education
Nancy Johnson-Dorn	Director of Early Childhood Unit	Oregon Department of Education
Bob Kieran	Assistant Vice Chancellor for Institutional Research	Oregon University System
Lisa Mentz	K-12 Program Manager	Oregon University System
Krissa Caldwell	Deputy Commissioner	Community Colleges and Workforce Development
Al Pierce	Information Systems Director	Community Colleges and Workforce Development
Rick Wahlstrom	Chief Information Officer	Northwest Regional ESD
Don Wolf	Director of Technology and Information Services	Willamette ESD
Robin DeLoach	Data Warehouse Project Director	Willamette ESD
Jim Mabbott	President	Oregon Association of Education Service Districts
Joe Wehrli	Director of Board Development	Oregon School Boards Association
Colin Cameron	Director of Professional Development	Confederation of School Administrators
John Tapogna	President	ECONorthwest