



pennsylvania
DEPARTMENT OF EDUCATION

Pennsylvania Information Management System (PIMS) Overview

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PIMS PreK-12 Overview



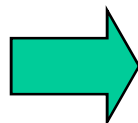
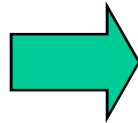
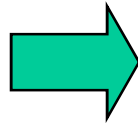
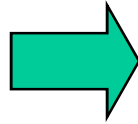
What is PIMS?

- PIMS is:
 - PDE's PreK-12 student-level information system designed to improve student achievement through more efficient and effective use of data
 - Enterprise-wide data collection, data warehouse and reporting
 - Primary goal of PIMS is to enable the improvement of educational achievement for all PA students
 - Implementation began in 2006 with PAsecureID
 - Unique identifier assigned to 1.8M PreK-12 public school students in 733 school districts and other education agencies
 - First step towards longitudinal student data
 - Protects a student's personally identifiable information (e.g. Social Security Number)
 - First year (School Year 2007-08) of PIMS included implementation of:
 - Automated and secure data collection from school districts
 - Data warehouse
 - Reporting and analysis tools
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PIMS Benefits

Historical Environment

- Multiple aggregate data collections
- Redundant data
- No global data standards
- No institutional access to data submitted



PIMS Environment

- Integrated longitudinal collection of individual level student and staff data
- PAsecureID eliminates redundancy
- Compliant with national data standards
- Institutional access to data through decision support tools

PIMS Data Collection and Reporting Status (July 2008)

- Collected data on more than 1.8 million students
 - Demographic data
 - Program participation
 - School enrollment
- Collected data on more than 170K staff members
 - Demographic data
 - Staff assignments
- Collected data on almost 11.5 million course enrollments
 - Courses offered
 - Course sections
 - Course enrollments
- Provided over 100 reports for school districts and PDE

Postsecondary Expansion Effort



Postsecondary Databases...

- ...exist in most states. According to a 2006 study by the National Center for Higher Education Management Systems 40 states have a student unit record postsecondary database

BUT

- ...in most cases have not been linked to K-12 databases
 - According to the Data Quality Campaign only 12 states have (self) reported that they have the ability to link K-12 and postsecondary student records
 - Florida is the most widely cited example of an integrated PreK-20 statewide data system

Florida's PreK-20 Data Warehouse

- Longitudinally integrates source data from PreK-12, Workforce, Adult Education, community colleges, and universities student and staff databases
- Includes demographic, course-level enrollment, attendance, statewide assessment results and awards for students
- Includes demographic, payroll and facilities information for all staff/faculty; courses taught for instructional staff
- Integrates financial aid, facilities and finance data sources
- Links to follow-up information and external agency data

Benefits of Expanding PIMS to Postsecondary Institutions

- One consistent student ID used to identify and track all PreK-16 students
- IDs are managed through a single standardized process
- Eliminates need (and cost) to maintain two separate systems
- Enables PreK-16 longitudinal analysis by maintaining all relevant data in one place
- Takes advantage of established reporting and analysis capabilities
- Standardizes and automates the data collection process and reduces, if not eliminates, redundant and inconsistent data collections

Benefits of Expanding PIMS to Postsecondary Institutions (cont'd)

- Improves data quality
- Allows a better understanding of the connection between key demographic and k-12 predictors and performance in college. For example:
 - What factors help students move successfully through key transition points in the education career, such as enrolling in college, transferring from two to four-year colleges, or entering the workforce?
 - What curricular or environmental factors affect student progress through the education career?
 - What is the relationship between student's ability to complete college and their high school grades, and test scores?
 - What role does geographic mobility play in students' educational attainment?

Postsecondary Expansion Approach - PAsecureID

- Unique student identifier (PAsecureID)
 - PDE completed implementing PAsecureID with the 14 State System universities and the 14 community colleges in July
 - Currently working with the Act 101 grantee institutions to implement PAsecureID
 - The scope of this effort will be expanded to include additional institutions/students in the near future

Postsecondary Expansion Approach - PIMS

- PIMS Data warehouse
 - PDE is finalizing the postsecondary requirements for the data warehouse
 - ❖ Conducted internal PDE focus groups
 - ❖ Created Statewide Data Council as external advisory group
 - ❖ Obtained feedback from postsecondary national data experts
 - Pilot postsecondary implementation scheduled for Spring 2009
 - Statewide implementation scheduled for school year 2009 - 2010
 - PIMS will eventually replace many of the existing postsecondary data collections (e.g., CCAR, Act 101, etc.)

Expected Postsecondary Timing

Time Frame	Major Activities
Oct. 2008 – April 2009	<ul style="list-style-type: none"> • Refine data definitions, business rules, collection timing, etc. • eScholar (software vendor) develops postsecondary enhancements to PIMS • PDE prepares for pilot implementation
May 2009	<ul style="list-style-type: none"> • PDE conducts PIMS pilot implementation with a small cross-section of institutions
June 2009	<ul style="list-style-type: none"> • PDE documents pilot lessons learned and finalizes statewide implementation planning • PDE publishes the PIMS Data Submission Manual to institutions and provides template training
June 2009 – Sept. 2009	<ul style="list-style-type: none"> • Institutions develop the necessary PIMS extraction programs • PDE provides regular communication and support
Oct. 2009	<ul style="list-style-type: none"> • PDE provides hands-on data submission and report training to institutions
Oct. 2009 – Aug. 2010	<ul style="list-style-type: none"> • PIMS data submission is phased in over the course of the school year • PDE provides continued support

Questions

Questions regarding the PIMS expansion to postsecondary should be directed to:

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