



The Pennsylvania Department of Education's Journey to Data Governance

2011 NCES Summer Data Conference

Agenda

- Introductions
- Pre-SLDS: The Environment
- SLDS Evolution and Timeline
- Initial Steps to Data Governance
- Continuing the Journey
- Future Plans
- Q&A



Introductions

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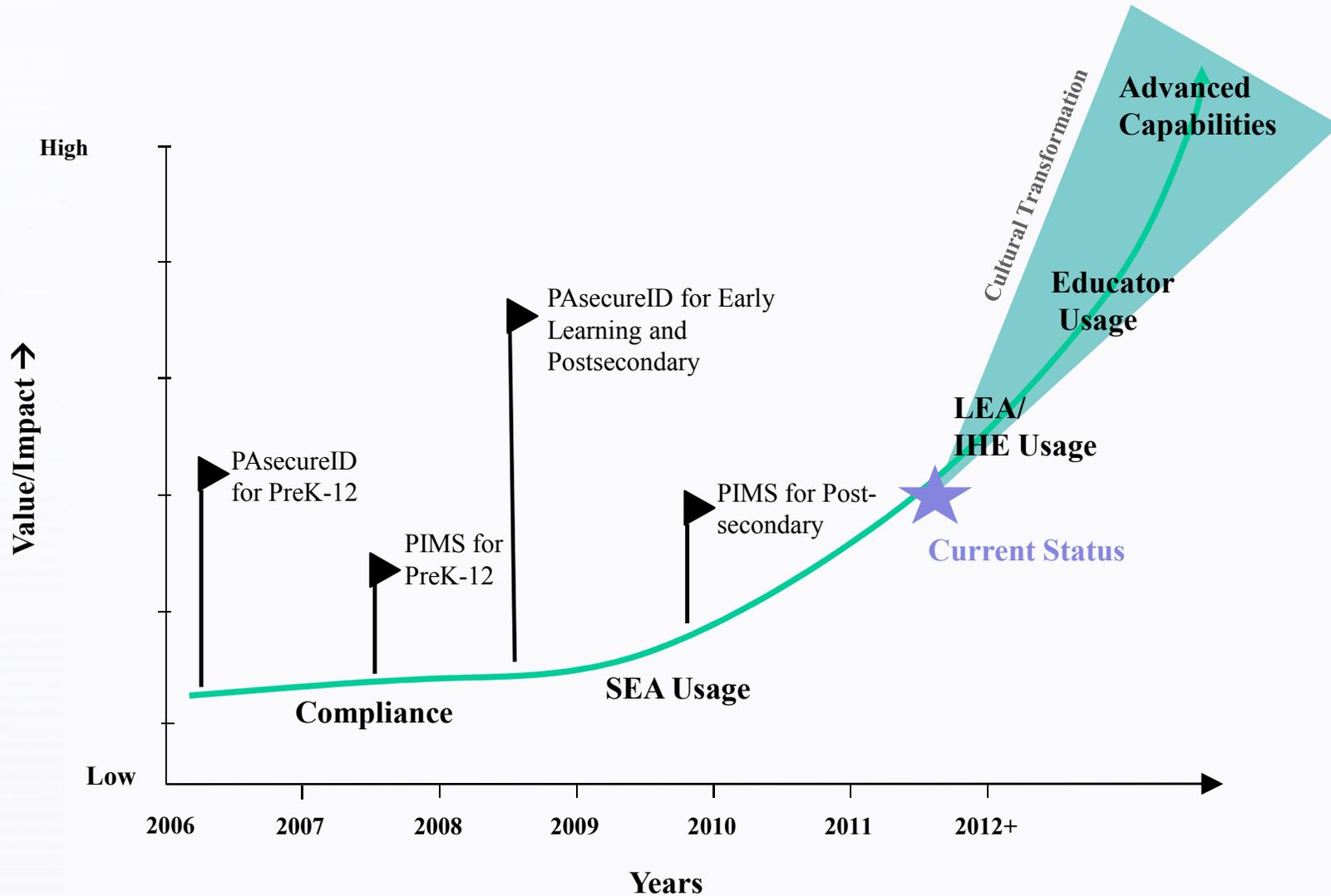
Pre-SLDS: The Environment

- 2004 DSAC study recommended that PA was not ready to implement student-level unique identifiers and data collection
- 2006 PBDMI site visit
 - Ranked PA 46th in EDEN readiness
 - Determined that PDE could not meet NCLB reporting requirements
- Large number of siloed aggregate collections
 - Considerable redundancy; inconsistent data definitions

Pre-SLDS: The Environment (cont'd)

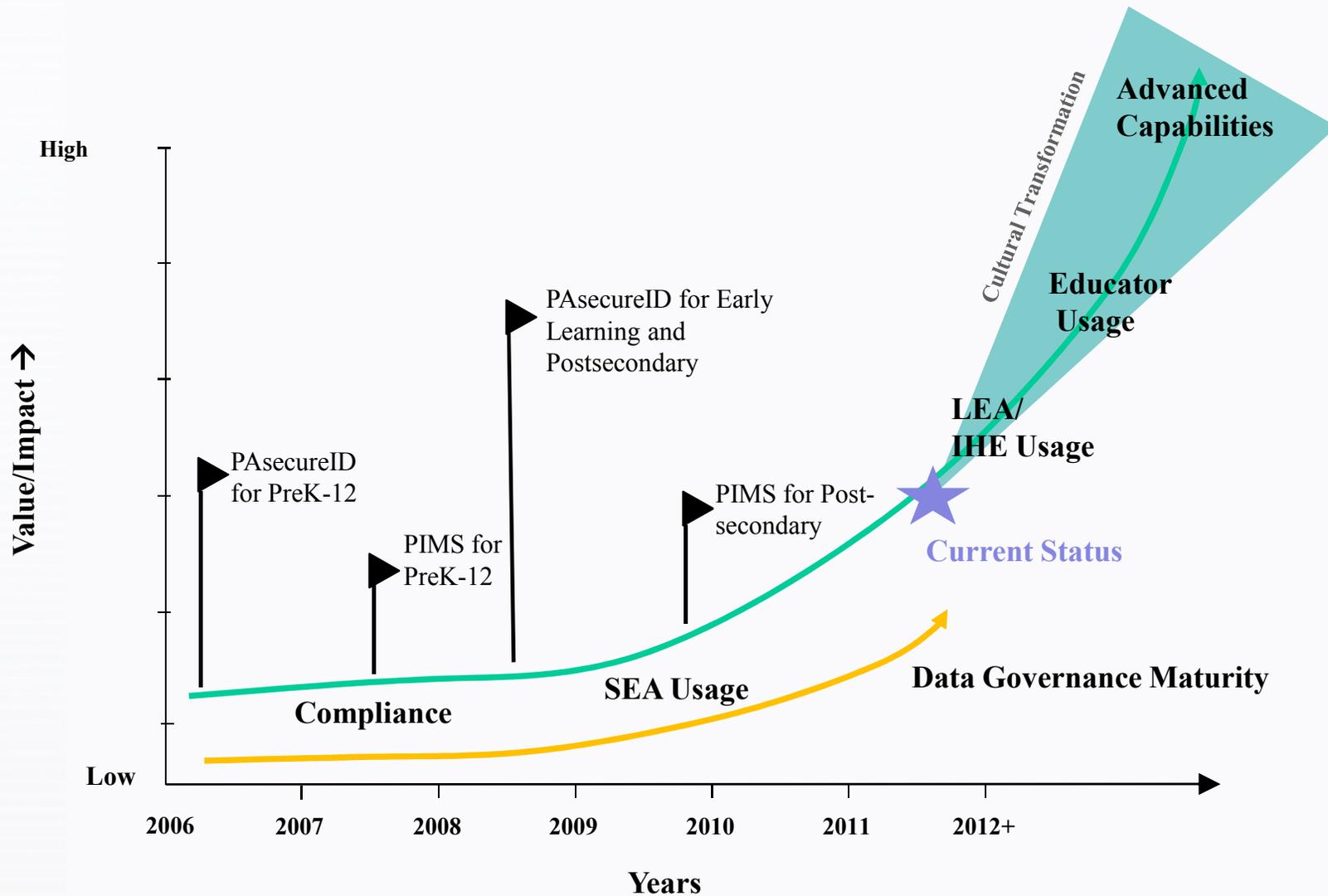
- Rapidly falling behind other states beginning to or already collecting individual student data
- Data Council
 - Used for SLDS planning
 - Attempted to develop common definitions
 - No decision making authority

SLDS Evolution and Timeline



PIMS is PDE's PreK-16 Statewide Longitudinal Data System (SLDS)

SLDS Evolution and Timeline



PIMS is PDE's PreK-16 Statewide Longitudinal Data System (SLDS)

Initial Steps to Data Governance

- Data Council
 - Attempt to resurrect council for data governance
 - Focus limited to EDFacts reporting
 - Lack of leadership
- PIMS pilot group
 - LEA sounding board for data definitions, business rules, etc.

Continuing the Journey

- PIMS data governance taken over by PDE Executive Cabinet
 - Standing agenda item at each cabinet meeting
 - Project Director met with Executive Deputy Secretary every other week
 - Recognized as important, but tightly controlled by the Cabinet
- Data Access and Use Policy established
 - K-12 and postsecondary
- Internal Review Committee established to review data requests

Continuing the Journey

- Established annual PIMS data collection change process
 - Direct response to feedback from the LEAs regarding frequent specification changes
- New Administration
 - Emphasis on reducing the burden for LEAs/IHEs
 - Collect only data that is mandated
 - Conducted data inventory; identified mandate for each data element
 - Recognizes importance of data governance and need to be driven down into the organization

Continuing the Journey

- Contracted with ESP Solutions Group
 - Updates to Data Access and Use Policy
 - Privacy/FERPA support
 - Develop Data Flow Diagram for current status
 - DataSpecs Education Metadata Tool
 - Develop Information Systems Architecture

DataSpecs

http://dsol-sp13/DSOLApp/ReportDisplay.aspx?ReportId=24 - Windows Internet Explorer

Select Active Only: Active Only | Select Element: Gender (PIMS) - V1 | View R

1 of 1 | 100% | Find | Next | Select a format | Export

Collection Items Mapped to Gender (PIMS) - V1
This table displays all the collection items that are mapped to the data dictionary element Gender (PIMS) - V1.

Collection	Section Number	Item Number	Item	Option Set
ACCESS for ELLs Test File - V1	-	10	Gender - V1	ACCESS for ELLs_Gender - V1
Assessment - Student File Layout - V1	-	355	Gender - V1	Assessment_Gender - V1
Homeless - V1	-	-	Gender - V1	-
N&D Data Collection System - V1	-	-	Gender - V1	N&D_Gender - V1
PennData/Special Ed Snap(PIMS) - V1	0	6	Gender - V1	PennData_Gender - V1
PIMS - Incident Person Template - V1	-	10	GENDER CODE - V1	PIMS - Gender Code - V1
PIMS - Staff Snapshot Template - V1	-	20	GENDER CODE - V1	PIMS - Gender Code - V1
PIMS - Staff Template - V1	-	20	GENDER CODE - V1	PIMS - Gender Code - V1
PIMS - Student Snapshot Template - V1	-	15	GENDER CODE - V1	PIMS - Gender Code - V1
PIMS - Student Template - V1	-	15	GENDER CODE - V1	PIMS - Gender Code - V1
PIMS Postsecondary - PS Student Institution Template - V1	-	16	GENDER CODE - V1	PIMS Postsecondary - Gender Code - V1
Public School Support Personnel (SupPer) - V1	1	2	Gender - V1	-

Repository Table Fields Mapped to Gender (PIMS) - V1
This table displays all the repository table fields that are mapped to the data dictionary element Gender (PIMS) - V1.

Repository	Table	Field	Option Set
ACCESS for ELLs - V1	ACCESS for ELLs - V1	Gender - V1	ACCESS for ELLs_Gender - V1
Assessment on H Drive - V1	Student File Layout - V1	Gender - 355 - V1	-
	PERSON - V1	GENDER CODE - V1	PIMS - Gender Code - V1
PIMS - V1	PS_STUDENT_INSTITUTION - V1	GENDER CODE - V1	PIMS Postsecondary - Gender Code - V1
	STAFF - V1	GENDER CODE - V1	PIMS - Gender Code - V1
	STAFF_SNAPSHOT - V1	GENDER CODE - V1	PIMS - Gender Code - V1
	STUDENT - V1	GENDER CODE - V1	PIMS - Gender Code - V1

EDFacts

- Leveraging these collections as the first step toward formal data governance
 - Beginning to identify data owners and stewards and defining their associated responsibilities
- Approximately 20 systems, including the SLDS, support the EDFacts submission process

EDFacts Map and Gap Analysis

EDFacts Map and Gap Analysis

Sample Department of Education

ESP Solutions Group
DataSpecs™

File Family Summary

File Family: Basic AYP Measures

Number of submissions required for EDFacts:	10	Number of files required for EDFacts:	24	Number of elements required for EDFacts:	295
Number of submissions available in State DOE:	6	Number of files available in State DOE:	19	Number of elements available in State DOE:	176
Percent of Available Submissions:	60.0%	Percent of Available Files	79.2%	Percent of Available Elements	59.7%

File Family: Basic Demographics

Number of submissions required for EDFacts:	4	Number of files required for EDFacts:	6	Number of elements required for EDFacts:	72
Number of submissions available in State DOE:	3	Number of files available in State DOE:	5	Number of elements available in State DOE:	68
Percent of Available Submissions:	75.0%	Percent of Available Files	83.3%	Percent of Available Elements	94.4%

File Family:

File Family: Children with Disabilities (IDEA)

Number of submissions required for EDFacts:	13	Number of files required for EDFacts:	27	Number of elements required for EDFacts:	328
Number of submissions available in State DOE:	13	Number of files available in State DOE:	27	Number of elements available in State DOE:	309
Percent of Available Submissions:	100.0%	Percent of Available Files	100.0%	Percent of Available Elements	94.8%

File Family:

File Family: Directory

Number of submissions required for EDFacts:	2	Number of files required for EDFacts:	5	Number of elements required for EDFacts:	103
Number of submissions available in State DOE:	1	Number of files available in State DOE:	2	Number of elements available in State DOE:	97
Percent of Available Submissions:	50.0%	Percent of Available Files	40.0%	Percent of Available Elements	94.2%

File Family:

File Family: Limited English Proficiency

Number of submissions required for EDFacts:	9	Number of files required for EDFacts:	19	Number of elements required for EDFacts:	185
Number of submissions available in State DOE:	4	Number of files available in State DOE:	8	Number of elements available in State DOE:	102
Percent of Available Submissions:	44.4%	Percent of Available Files	42.1%	Percent of Available Elements	55.1%

Data Governance is a Journey, not a Destination

- Data governance efforts have led to enhanced data quality
- Silos and redundancy still exist
 - eGrants system utilized as general purpose data collection application
 - Homeless data collected in SLDS and through a separate third party system
- Lack of enterprise-wide infrastructure, process & documentation

Future Plans

- Complete assessment of the current state of data governance; identify gaps
- Implement best practice data governance model
- Continue to look for ways to reduce redundancy – systems and data

Q&A

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