

# Texas Student Data System



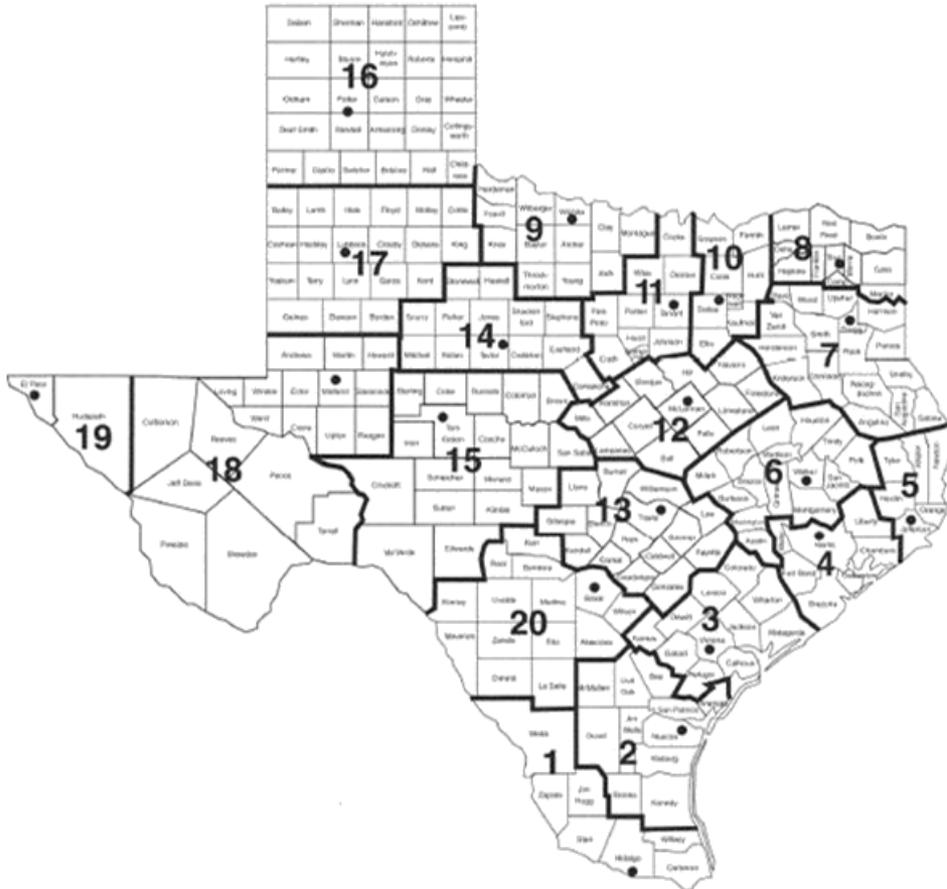
## Texas Student Data System—Positioned to Change the Face of Data Management and Use in Texas

National Center for Educational Statistics Summer MIS Conference 2011  
Brian Rawson & Melody Parrish

Texas Education Agency  
July 2011 Update

# Texas At a Glance

## Quick Facts



- 4.7M Students
- 57% Economically Disadvantaged
- 17% Limited English Proficient
- 1,235 Districts & charters
- 87% have < 5,000 students
- Largest 46 districts (25K+ students) enroll 50% of students
- 20 Education Service Centers
- \$39B Annual Operating Expenditures
- \$8,342/student

Source: 2008-2009 Pocket Edition

# Current State: Data Rich, Information Poor

Texas has established a significant longitudinal data infrastructure, but outdated technology and compliance orientation limit its usefulness

EDUCATION AGENCY Excellence Indicator System District Performance			
Hispanic	White	Native American	Asian
84%	98%	57%	94%
81%	96%	80%	96%
78%	95%	67%	94%
71%	91%	70%	96%
73%	94%	57%	89%
66%	90%	60%	92%

**PEIMS**

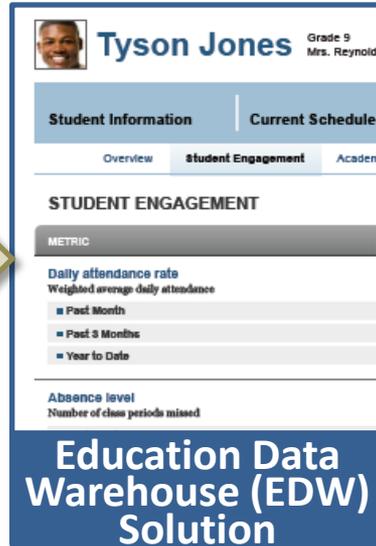
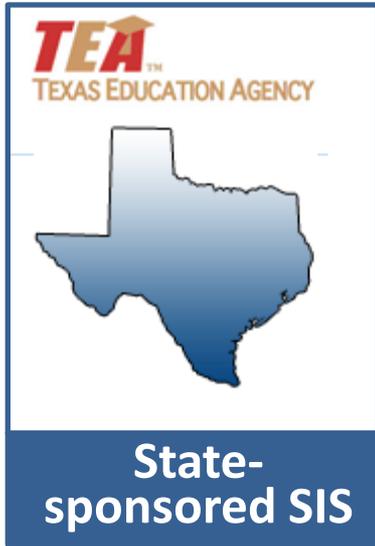


- Built in 1986 on mainframe technology platform
- Constructed to support accountability, compliance, and audit reporting
- Limited Pre-K and post-secondary data, no workforce data
- College readiness scores (ACT, SAT, AP) not included

# What are the goals of the Texas Student Data System?

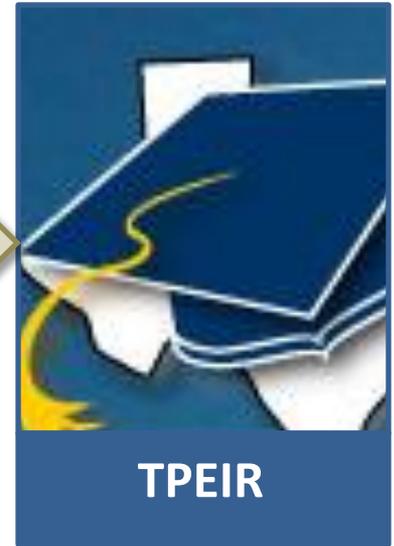
- Integrate key data into TEA's P-16 data warehouse to better ***understand students' preparedness*** to contribute to the 21<sup>st</sup> century workforce
- Provide a platform to deliver ***relevant and actionable data*** back to educators to continually improve performance (e.g. early warning system)
- ***Alleviate data collection burden*** on school districts and ***improve data quality***

# TSDS Delivers New Functionality



EDUCATION AGENCY  
Excellence Indicator System  
District Performance

	Hispanic	White	Native American	Asian
	84%	98%	57%	91%
	81%	96%	80%	91%
	78%	95%	67%	94%
	71%	91%	70%	91%
	73%	94%	57%	89%
	66%	90%	60%	92%



- Opt-in, voluntary SIS offering
- TSDS will integrate with other SIS's – no requirement or mandate to switch

- Powers student, campus, district data dashboards
- System supported by the state but the data only available to educators
- Will become conduit to submit PEIMS data
- Loading of non-PEIMS data is strictly optional and at the districts' discretion

- XML data standard will make it easier to submit and certify data
- Realign statewide data collection standards and protocol for districts

- Expanded to link pre-K, college readiness, and workforce data
- Load college readiness test score collections (SAT, ACT, AP Test data)

# Moving away from static, summary level reporting

School District  
 District Name: \_\_\_\_\_  
 District #: 152901

TEXAS EDUCATION AGENCY  
 Academic Excellence Indicator System  
 2008-09 District Performance

Section I - Page 1

Indicator:		State	Region 17	District	African American	Hispanic	White	Native American	Asian/Pacific Is	Male	Female	Special Ed	Econ Disad	LEP	At Risk
<b>TAKS Met 2009 Standard</b>															
<b>Grade 3 (English) First Administration Only</b>															
Reading	2009	90%	90%	88%	80%	85%	97%	*	> 99%	88%	88%	84%	84%	76%	74%
	2008	89%	90%	88%	79%	86%	95%	*	> 99%	88%	89%	80%	84%	87%	73%
Mathematics	2009	86%	83%	80%	66%	77%	94%	*	97%	82%	78%	79%	75%	81%	67%
	2008	85%	83%	81%	67%	79%	90%	*	98%	82%	81%	74%	76%	80%	66%
All Tests	2009	82%	80%	76%	60%	71%	91%	*	97%	77%	74%	75%	69%	66%	59%
	2008	80%	79%	77%	61%	73%	87%	*	98%	77%	77%	66%	71%	75%	57%
<b>TAKS Met 2009 Standard</b>															
<b>Grade 3 (Spanish) First Administration Only</b>															
Reading	2009	84%	95%	97%	*	97%	*	*	*	> 99%	95%	*	> 99%	> 99%	97%
	2008	83%	88%	87%	*	86%	*	*	*	87%	87%	*	88%	92%	87%
Mathematics	2009	79%	78%	81%	*	80%	*	*	*	81%	80%	*	74%	77%	77%
	2008	78%	82%	83%	*	83%	*	*	*	86%	80%	*	83%	83%	79%
All Tests	2009	75%	76%	78%	*	78%	*	*	*	82%	75%	*	74%	78%	74%
	2008	73%	78%	79%	*	78%	*	*	*	83%	73%	*	78%	80%	77%
<b>TAKS Met 2009 Standard</b>															
<b>Grade 4 (English)</b>															
Reading	2009	86%	85%	84%	74%	80%	95%	*	> 99%	82%	87%	69%	78%	63%	65%
	2008	85%	84%	83%	73%	79%	94%	*	> 99%	82%	84%	74%	76%	84%	68%
Mathematics	2009	88%	86%	86%	71%	83%	94%	*	> 99%	86%	85%	82%	81%	86%	65%
	2008	87%	86%	83%	71%	77%	95%	*	> 99%	83%	82%	73%	76%	89%	65%
Writing	2009	92%	91%	92%	87%	90%	96%	*	> 99%	89%	95%	78%	89%	90%	82%
	2008	93%	93%	93%	87%	92%	96%	*	> 99%	90%	95%	78%	90%	89%	82%
All Tests	2009	78%	75%	74%	57%	68%	89%	*	> 99%	71%	77%	56%	66%	62%	46%
	2008	77%	76%	73%	56%	66%	89%	*	> 99%	71%	75%	62%	63%	78%	51%
<b>TAKS Met 2009 Standard</b>															
<b>Grade 4 (Spanish)</b>															
Reading	2009	81%	77%	79%	*	78%	*	*	*	80%	77%	*	76%	74%	76%
	2008	77%	85%	90%	*	90%	*	*	*	86%	93%	*	88%	90%	90%
Mathematics	2009	80%	86%	85%	*	85%	*	*	*	93%	77%	*	83%	86%	83%
	2008	76%	81%	90%	*	90%	*	*	*	> 99%	86%	*	88%	90%	90%
Writing	2009	93%	86%	92%	*	92%	*	*	*	92%	92%	*	91%	95%	91%
	2008	91%	96%	> 99%	*	> 99%	*	*	*	> 99%	> 99%	*	> 99%	> 99%	> 99%
All Tests	2009	73%	67%	68%	*	67%	*	*	*	67%	69%	*	64%	70%	64%
	2008	69%	81%	88%	*	88%	*	*	*	88%	89%	*	86%	88%	88%

# Future Student and Classroom Dashboards

Delaware Independent School District • Braddock High School • 9th Grade • Patricia James' Class

STUDENT SNAPSHOT

Hello, **Student B.** Grade 11 Mrs. James' Homeroom

Switch Dashboard Level... GO → Select a Student... GO → PRINT

Student Information | Current Schedule | Academic Dashboard | Academic History

Overview | Student Engagement | Academic Progress | Academic Challenge | College & Career Readiness

**1 Student B.**

Maria is currently above grade level on test scores and college readiness indicators, but is falling short on advanced and college course requirements:

- PSAT scores above average
- SAT score above criterion
- Eligible, but not enrolled in advanced math & science courses
- Eligible, but not enrolled in Distinguished Achievement Program (DAP)
- Short fall in credits for DAP graduation plan

Students who exhibit this profile may benefit from early intervention.

[View full profile and suggested interventions](#)

SUMMARY STATUS PEER COMPARISON

**Student Engagement**  
Student is actively and productively engaged. **ABOVE GOAL** Top 1M

**Academic Progress**  
Student is making appropriate progress.

- Assessments**  
Student performance on state and benchmark assessments. **ON TRACK** Top 1M
- Course Grades**  
Course grades and credit accumulation. **ON TRACK** Top 1M
- Growth**  
Student progress. **ON TRACK** Top 1M

**Academic Challenge**  
Student is being challenged to fulfill potential. **AT GOAL** Second 1M

**College & Career Readiness**  
Student is on college-or-career track. **AT GOAL** Top 1M

Test ISD >> Test2 High School [PROTOTYPE] Anonymized student data.

Hello, **Teacher A** | [Log out](#) Switch Dashboard Level... GO → Student search... GO → PRINT

## Teacher A's Mathematics

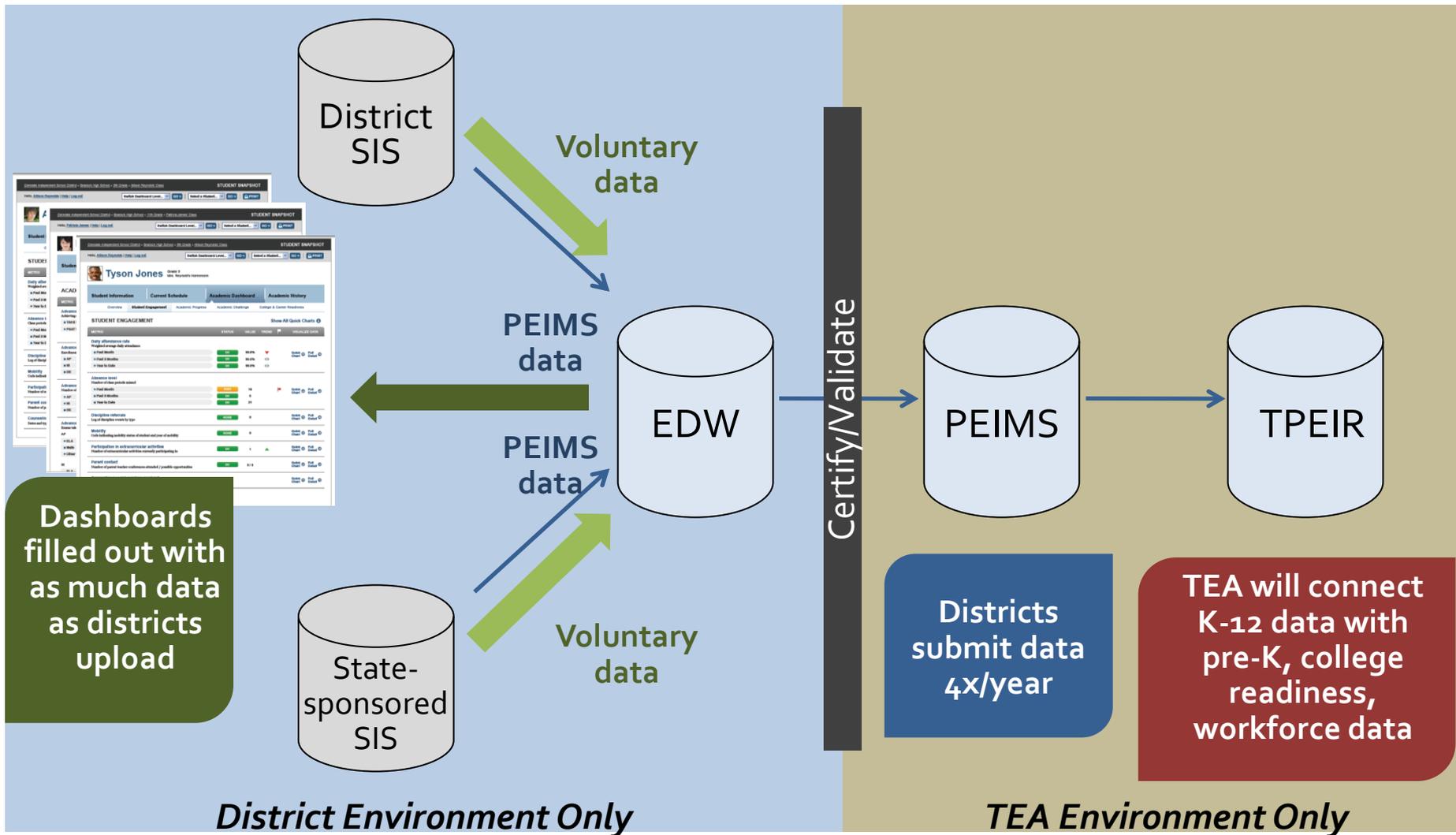
Grade 11

General Class Overview GO → 3rd Period GO → Select file format GO → EXPORT REPORT

Student	Accomm.	ATTENDANCE / DISCIPLINE		ASSESSMENTS - TAKS		GRADES	
		Class Period Absences	Discipline Incidents	ELA/Reading	Math	# Grades Below C	Grades Falling >10%
<a href="#">Student A.</a>	★	8.8 % ▲	0	2444 ▼	2342 ▼	0 ◀▶	0
<a href="#">Student B.</a>	▲	9.6 % ▼	0	2239 ▼	2229 ◀▶	2 ▲	3
<a href="#">Student C.</a>	▲	2.5 % ◀▶	2	1970 ◀▶	1885 ▲	5 ▼	2
<a href="#">Student G.</a>		0.8 % ◀▶	0	2106 ◀▶	1913 ▼	3 ▼	1
<a href="#">Student E.</a>		6.7 % ◀▶	0	2086 ◀▶	1977 ▲	6 ▲	4
<a href="#">Student J.</a>	▲ ESL	0.8 % ▼	0	2222 ◀▶	2368 ▼	1 ▼	1
<a href="#">Student H.</a>	★ ▲	5.0 % ◀▶	0	2400 ▼	2433 ▼	0 ◀▶	1
<a href="#">Student M.</a>		4.2 % ◀▶	0	2305 ▼	2433 ▲	1 ▲	0
<a href="#">Student K.</a>		24.7 % ▼	0	2281 ▲	1940 ▲	6 ▲	4
<a href="#">Student Q.</a>		7.9 % ◀▶	1	2400 ◀▶	2245 ◀▶	1 ▼	2
<a href="#">Student R.</a>	SpEd	3.3 % ◀▶	1	2033 ◀▶	1900 ◀▶	1 ▼	1



# How TSDS Will Work



# SSIS Procurement Timeline

- **RFI responses October 2010**
- **LEA visits (3) October 2010**
- **Request for Offer (RFO) November 2010**
- **Vendor selection tools November – December 2010**
- **RFO responses (7) December 2010**
- **RFO responses evaluated January 2011**
- **Vendor demonstrations February 2011**
- **Vendor award June 2011 –**
  - Texas Computer Cooperative (TCC)
  - Skyward

# SSIS Stakeholder Involvement

## □ Evaluation Teams:

- There were 10 teams involving 32 different people representing ISDs, Charter Schools, ESCs and TEA and who used various SIS vendor platforms.

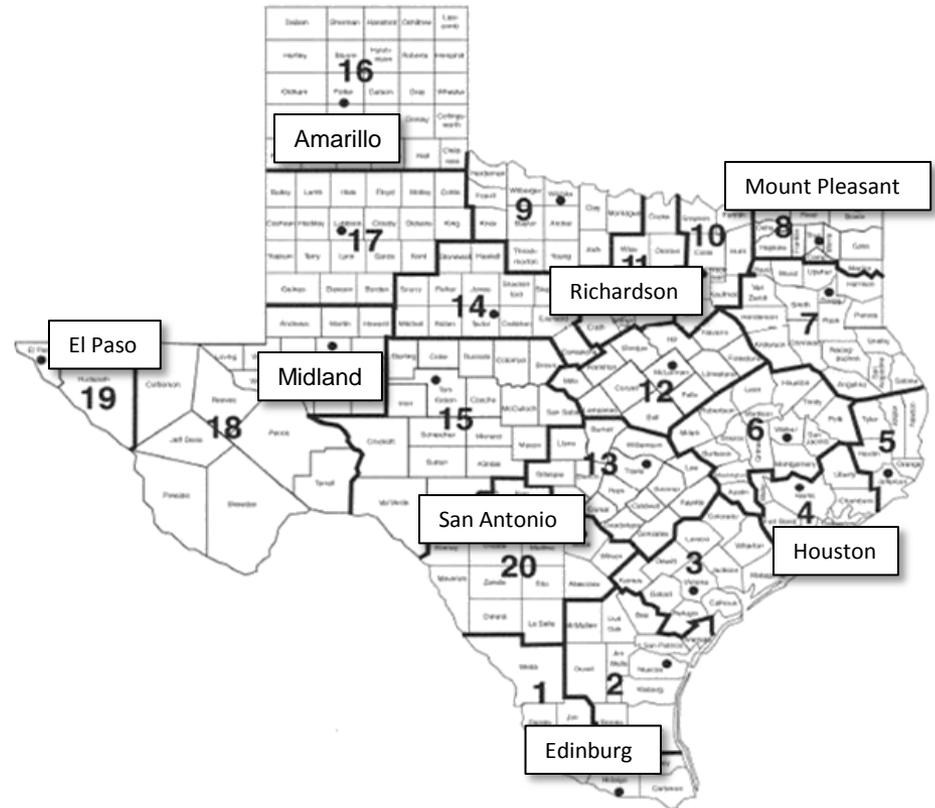
The teams were as follows:

1. Financial
2. Technical
3. Business
4. Legal
5. Solution Proposal
6. Reference check/Qualifications
7. Values-Added offers assessment
8. Selection Recommendation
9. Vendor presentation
10. Best and Final offer

# SSIS Stakeholder Involvement (cont...)

- Conducted February / April 2010
- **~2,000 people attended 8 regional forums**
  - 204 Classroom teachers
  - 268 Campus administrators and principals
  - 693 LEA administrators and superintendents
  - 637 PEIMS/IT coordinators
  - 160 Webinar participants; ongoing feedback collected via TSDS website
- **73 Breakout Sessions** by 4 stakeholders groups (Teachers, Principals, Superintendents/ Administrators, and PEIMS/IT Coordinators)

Texas Regional Education Service Centers, Map, January 2009



# SSIS Stakeholder Involvement (cont...)

- **Field Visits to LEAs**
  - **Site visits**
    - **4 visits in August 2010**
    - **3 visits in October 2010**
  
- **SSIS Advisory Group**
  - **Weekly web conferences**
  - **41 members from ESCs and LEAs**
  - **5 Education Service Centers (ESCs)**
  - **36 LEAs**

# SSIS Contract Highlights & Go Forward Strategy

## ■ Contract Highlights

- Software as a Service (SaaS) Solution
- Districts can save as much as \$40 per student over current solutions
- Greater functionality
- Seamless integration to EDW

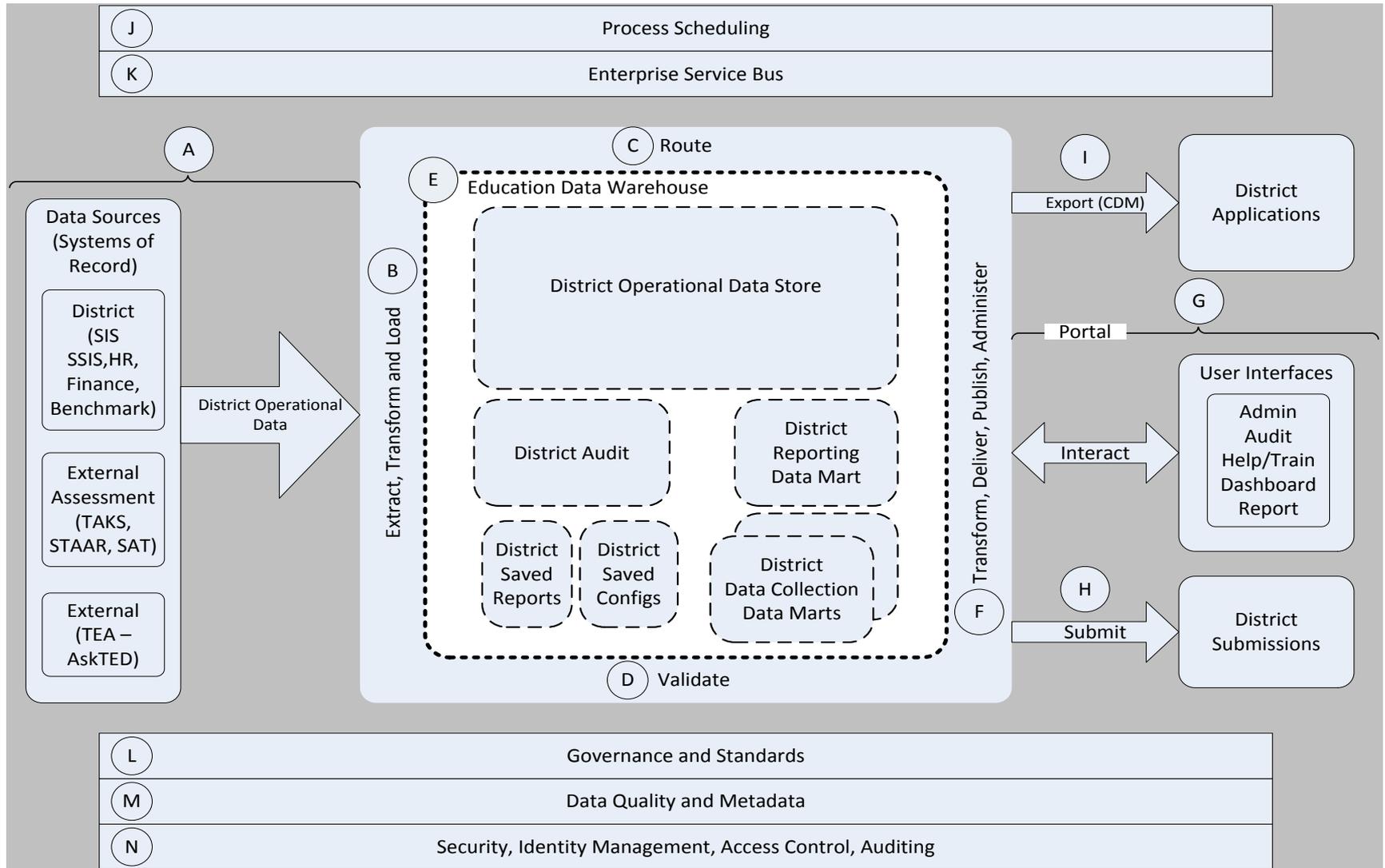
## ■ Go Forward Strategy

- Hold statewide orientation sessions to familiarize ESCs and LEAs with the agreement details
- Generate early adoption by helping LEAs determine TCO for current solutions to make best “go forward” business decision for their agency.
- Insure vendor data centers come on-line as planned
- Manage service level agreements
- Training, training, training....for the LEAs, and ESCs.

# What is the Education Data Warehouse Solution?

- The Education Data Warehouse (EDW) is the core of a **district-facing statewide education data warehouse solution**. This solution will provide a new environment that will collect granular operational data from the districts' local source systems into the EDW.
- The EDW is intended to drive the **district-facing Performance Dashboards and Reporting Services as well as the PEIMS data submissions**.
- The EDW will **be used by the districts for their own operational analysis and reporting needs and only local educators will be allowed to see the data housed in the EDW**.

# TSDS EDW SOLUTION OVERVIEW



# Initial Prototypes



- 28,860 students
- 3,519 staff
- 61 campuses (4 high schools)



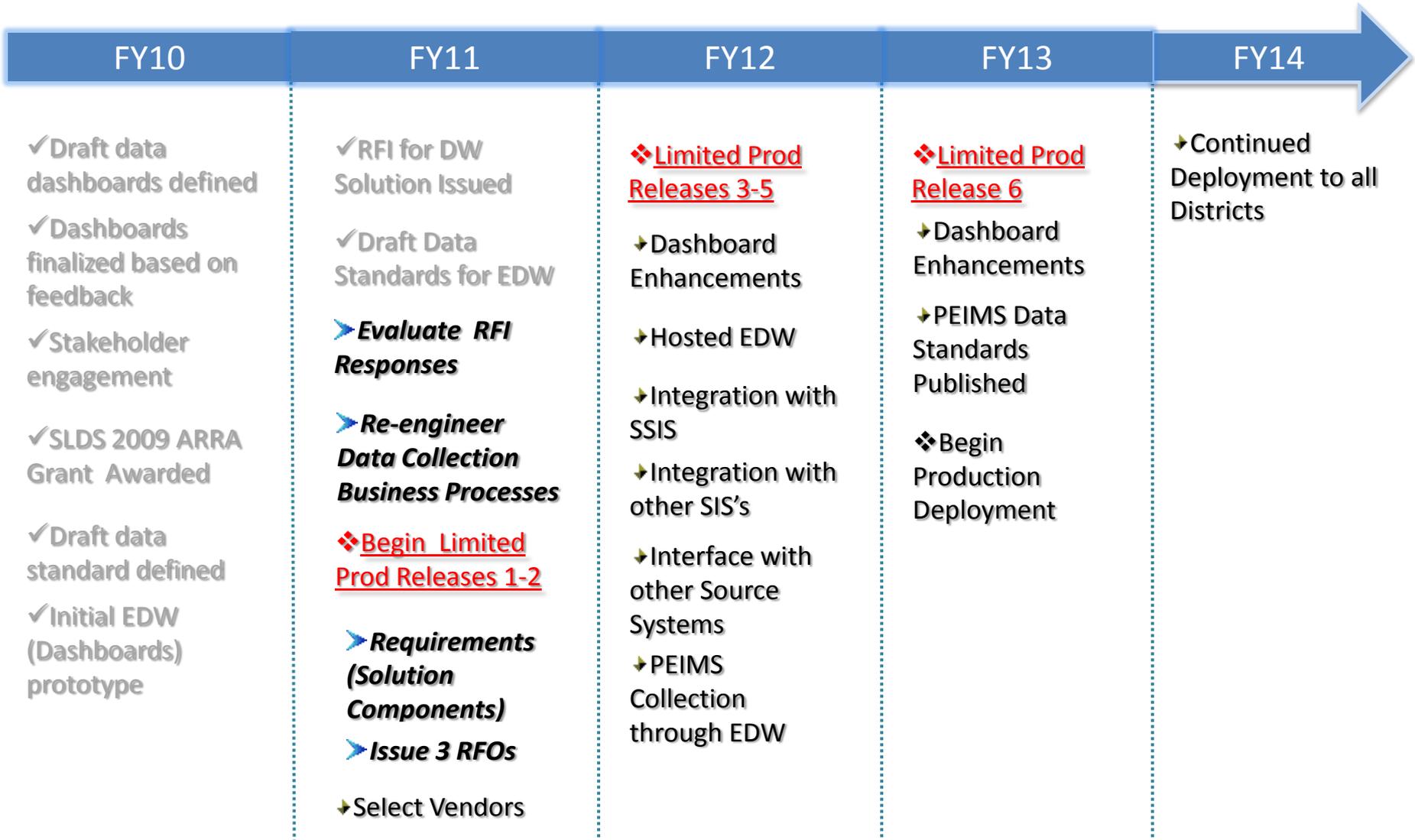
- 18,715 students
- 2,402 staff
- 22 campuses (1 high school)

- Dashboards – high school
- De-identify student and teacher information
- Power student, classroom and campus dashboards

- Dashboards – elementary & middle school
- Imported longitudinal data

- Next phase will include 6 (six) Limited Production Releases (LPRs)

# EDW Projected Timeline



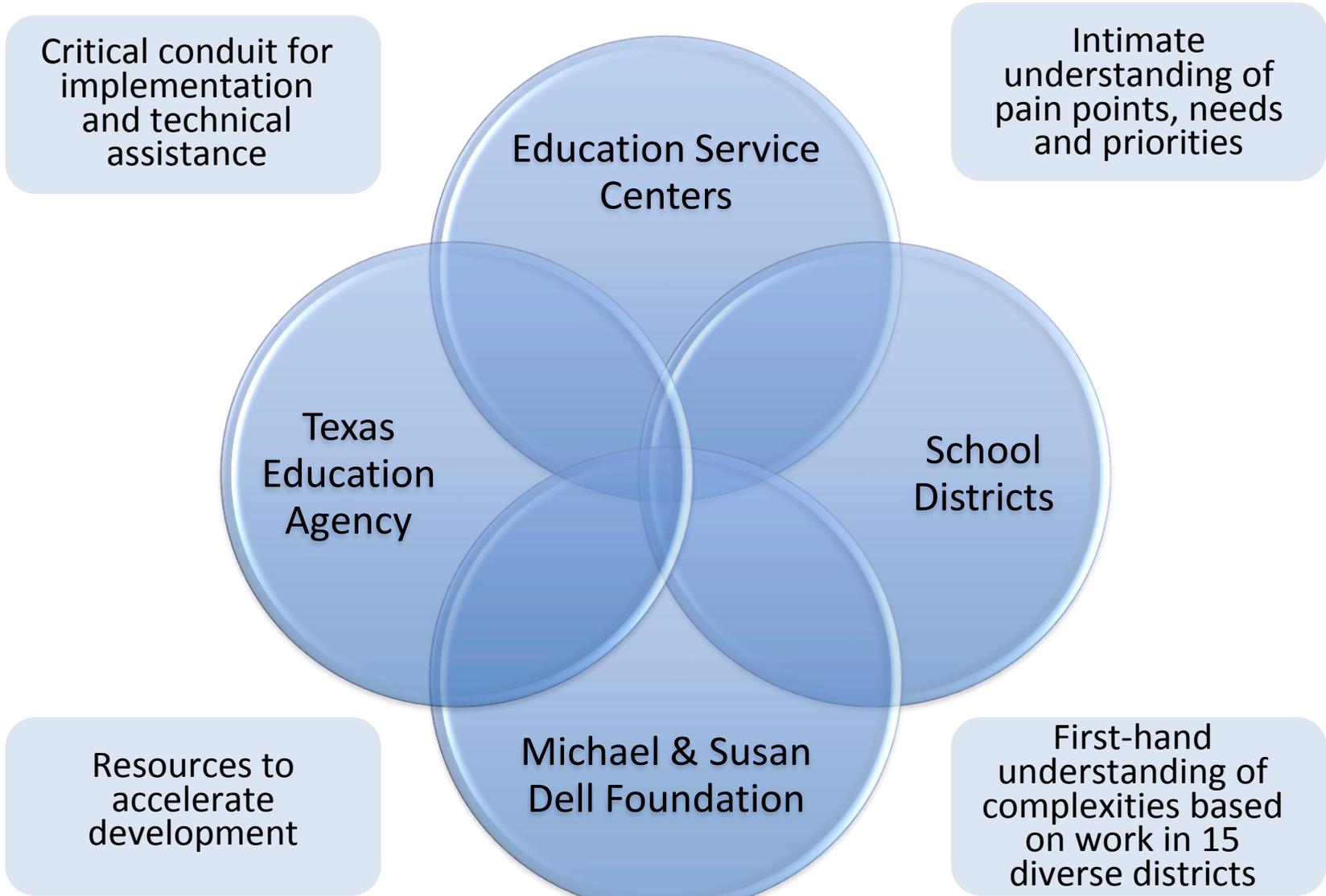
# TSDS RFO Process Update

- **RFO's were produced for the TSDS EDW, Hosting Services and Integration Services.**
- **TSDS EDW RFO**
  - **Procurement** of a commercial off-the-shelf (COTS) Education Data Warehouse (EDW) product, a critical component of the EDW solution.
  - **Key Dates**
    - **Release to the Public: July 15, 2011**
    - **Offers Due: August 12, 2011**
    - **Award Contract September 2011**
- **TSDS Hosting RFO**
  - **Procurement** of the EDW solution hosting services.
  - **Key Dates**
    - **Release to the Public: July 18, 2011**
    - **Offers Due: August 12, 2011**
    - **Award Contract: October 2011**
- **TSDS Integration Services RFO**
  - **Procurement** of integration services to expand, adapt, and develop Texas schools' specific functionality.
  - **Key Dates:**
    - **Release to the Public: July 26, 2011**
    - **Offers Due: August 29, 2011**
    - **Award Contract: October 2011**

# EDW Stakeholders

- **EDW Advisory Group (Quarterly Web Conferences)**
- **Advisory Group Recruitment:**
  - This group is made up of volunteers who expressed interest in EDW-related updates and activities. Volunteers came through: Regional Forums, website, numerous presentations made to key external state education associations over the past 12 months (TCTA, TASBO...)
- **Building Level breakdown of group:**
  - ESC: 14
  - LEA: 72
  - Campus: 90 (39 at campus level, 51 teachers)
  - Charter: 1
  - Other (Texas Youth Commission): 3
- **The following roles are also represented across the group:**
  - Superintendent/Associate Superintendent (or similar role)
  - District Administration – Business, PEIMS or Technical role
  - Principal/Assistant Principal
  - Accountability/Research/Assessment
  - Curriculum & Instruction
  - Counselor
  - Department Coordinator
  - Teacher

# Key working relationships are critical to TSDS success



# Data Governance

- **Completed a data governance study from December 2010 – February 2011.**
- **Existing governance process will be expanded to include the State-sponsored Student Information System (SSIS), Data Standards for the Education Data Warehouse (EDW), and district dashboards.**
- **Implementation will begin fall 2011.**

The Texas Student Data System will provide educators and policymakers with actionable, timely data to improve student performance while easing the burden of data collection on districts.

Collectively, the TSDS components will standardize the data collection and [data management](#) process, and equip educators with historical, timely and actionable student data to drive classroom and student success.



- Contact: [David.Butler@tea.state.tx.us](mailto:David.Butler@tea.state.tx.us) about any additional TSDS questions and/or assistance