

Today's Agenda

District-facing Education Data Warehouse Solution RFI – Vendor Conference

- ❖ **Introduction**
Welcome
Conference Agenda and Logistics
Brian Rawson
- ❖ **Texas Student Data System (TSDS)**
Overview
Brian Rawson
- ❖ **RFI Walkthrough**
Overview of Solution Components
Review of RFI Document
David Marshall
Sharon Gaston
- ❖ **Question and Answer Session**
TEA Staff
- ❖ **Wrap-up**
Brian Rawson

For Project Information...
For Copies of Presentation Materials...
To Submit Feedback on TSDS...

TexasStudentDataSystem.org

WHY ARE WE HERE?

In 2008,
TEA conducted a
comprehensive
study to define a
new vision for
state-level data
collection and
reporting

- ⊗ Significant burden to collect and submit data
- ⊗ Limited useful data shared back with districts

TO BETTER SERVE TEXAS EDUCATION

SO, WHAT DID WE DO WITH THOSE FINDINGS?

Developing
new vision
to address
feedback

Pursuing funds
targeting data
system
improvements

Addressing
significant
stakeholder
interest in timely,
actionable data

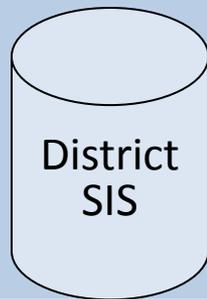
Texas Student Data System

WHAT IS THE TEXAS STUDENT DATA SYSTEM (TSDS)?

Statewide Longitudinal Data System:

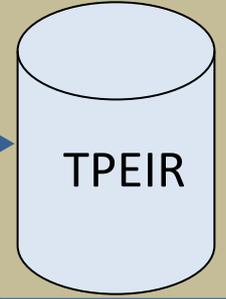
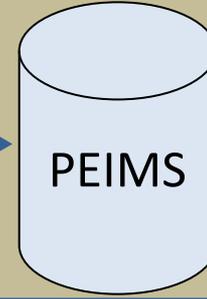
- Build a platform to deliver relevant and actionable data back to educators to ***continually improve performance*** (e.g. early warning system)
- ***Alleviate data collection burden*** on school districts and ***improve data quality***
- Integrate key data into TEA's P-20 data warehouse to better ***understand students' preparedness*** to contribute to the 21st century workforce

HOW DOES IT WORK TODAY?



PEIMS Data

+ Certify/Validate



- Requires significant data manipulation/transformation to submit data in PEIMS format
- Considerable burden on districts, ESC's and vendors

• Limited reports

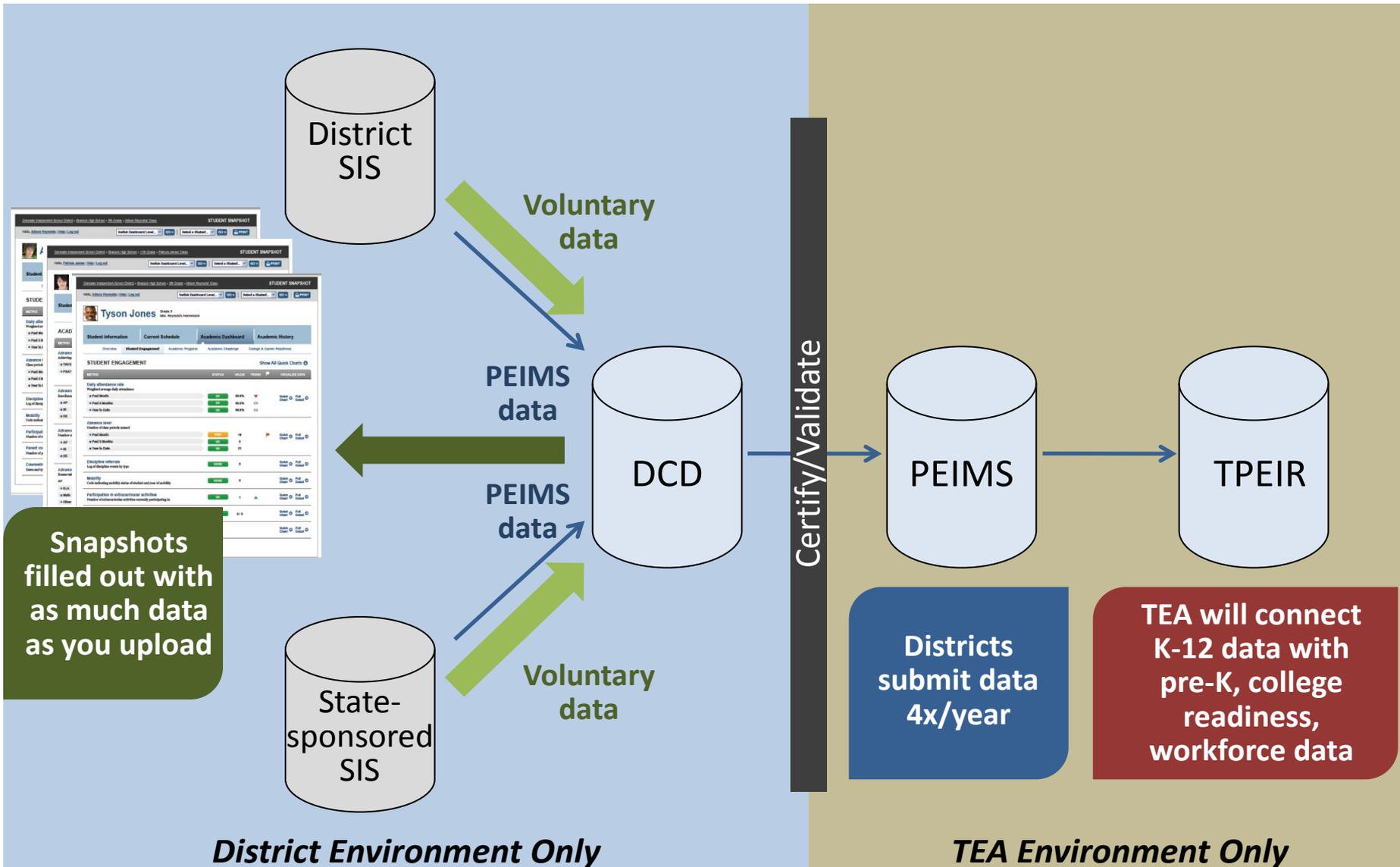
shared back with districts

- Rich data to be used
- Longitudinal database linking K-12 and post-secondary, but limited reports available

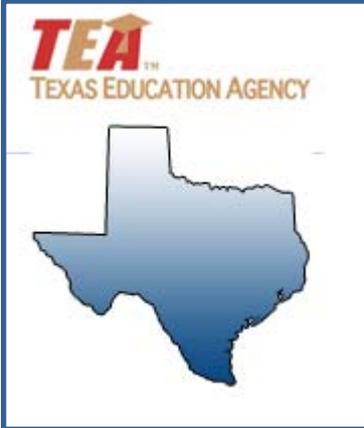
District Environment Only

TEA Environment Only

HOW WILL IT WORK IN THE FUTURE?



KEY ELEMENTS OF TSDS



State-sponsored SIS



District Connections Database (DCD)

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%	95%
	73%	94%	57%	89%
	66%	90%	60%	92%

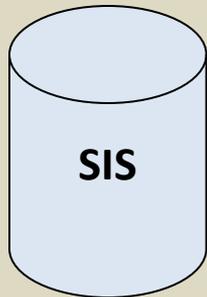
PEIMS



- Significant PEIMS data for workforce and workforce
- Opt-in, voluntary SIS offering
- All data provided by the state is available to TEA is considering multiple options on the model
- TEA will state will collect and submit PEIMS data
- PEIMS will state will collect and submit PEIMS data
- TEA will work with vendor(s) to ensure state sponsored SIS is compliant and compatible with TSDS function
- result of DCD implementation
- TSDS will integrate with other SIS's – no requirement or
- Loading of non-PEIMS data is strictly optional and at the districts' discretion

ACCESSING THE DATA

Today – Districts have source data but not in user-friendly reports

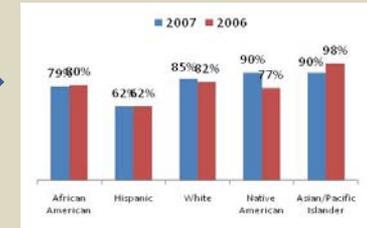


SIS Data Table

	RFDSS_DT_TRACK_FIELD_NM	STU_DT_TRG_EFF_DATE	PER_ID	STU_ID
1	Child Count Fostering Type	08/14/2008 00:00:00	100029234	Individuals
2	Instructional Setting	08/14/2008 00:00:00	100029234	41
3	Speech Therapy Indicator	08/14/2008 00:00:00	100029234	Speech with
4	Primary Disability	08/14/2008 00:00:00	100029234	Autism
5	Secondary Disability	08/14/2008 00:00:00	100029234	Speech Imp.
6	Tertiary Disability	08/14/2008 00:00:00	100029234	Other health
7	Special Ed Indicator	08/14/2008 00:00:00	100029234	Y
8	Economic Disadvantage 1 Indicator	06/17/2007 00:00:00	100029234	01
9	Economic Disadvantage 1 Indicator	05/05/2008 00:00:00	100029234	(null)
10	Economic Disadvantage 1 Indicator	05/05/2008 00:00:00	100029234	(null)
11	Retained one or more years - any grade level	10/31/2008 00:00:00	100029234	(null)
12	AtRisk Indicator	05/05/2008 00:00:00	100029234	YES
13	AtRisk Indicator	05/05/2008 00:00:00	100029234	(null)
14	Retained one or more years - any grade level	05/05/2008 00:00:00	100029234	(null)
15	Retained one or more years - any grade level	08/04/2009 00:00:00	100029234	(null)
16	AtRisk Indicator	08/04/2009 00:00:00	100029234	YES



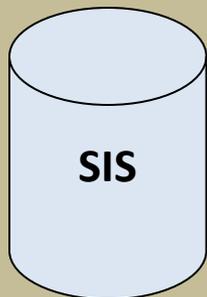
District Research/Analysis



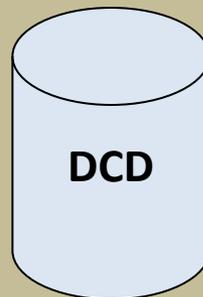
- Challenging format
- Information not actionable

- Consumes staff resources
- Custom work adds time

Future – Districts keep source data; load to DCD to automatically generate user-friendly reports



Data Standard
[Connect one time]



Snapshots



- Generated automatically
- No additional data entry

District Stakeholder Engagement Overview

Stakeholder engagement meetings were conducted over a two month period (Mar-Apr 2010), and consisted of 11 three-hour sessions at 8 different regions

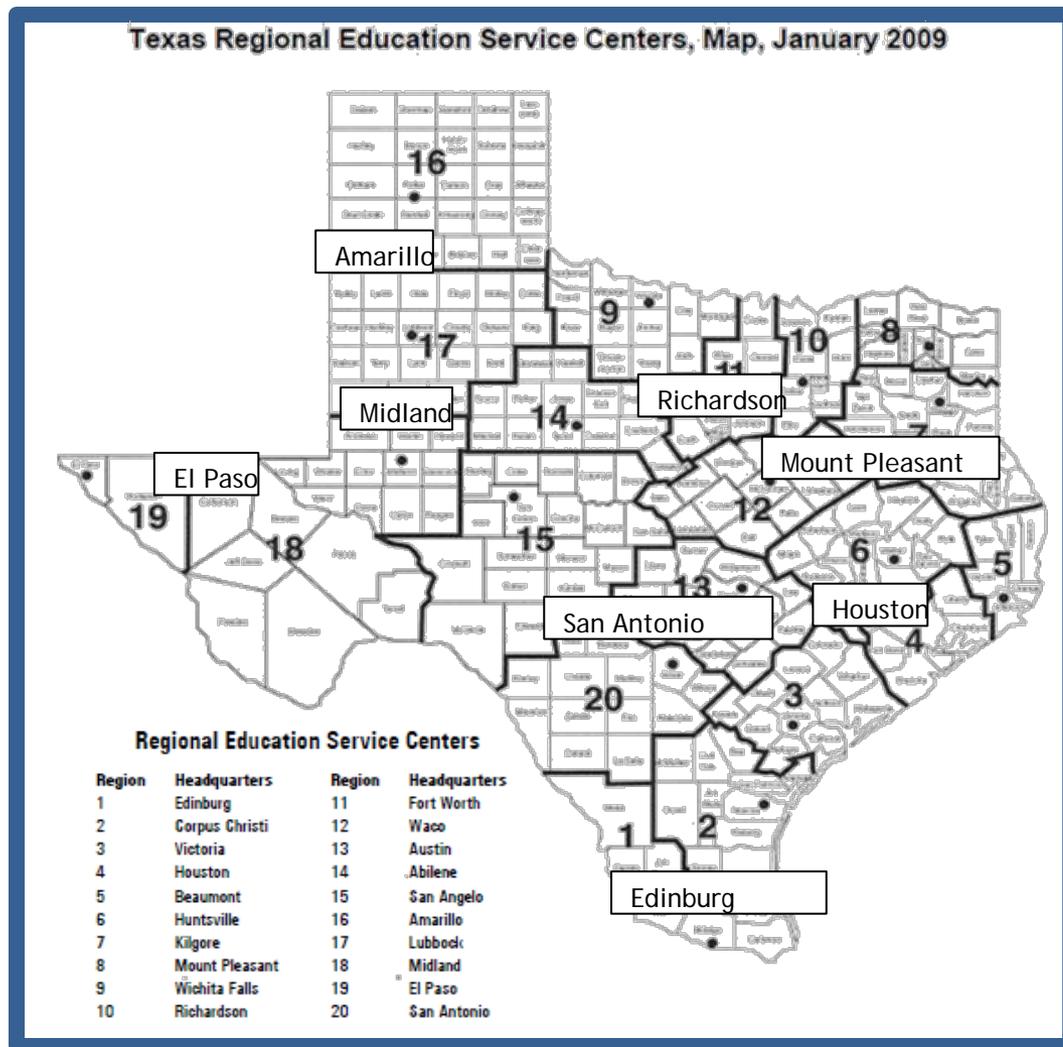
➤ **~2,000 people attended the regional forums**

- 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

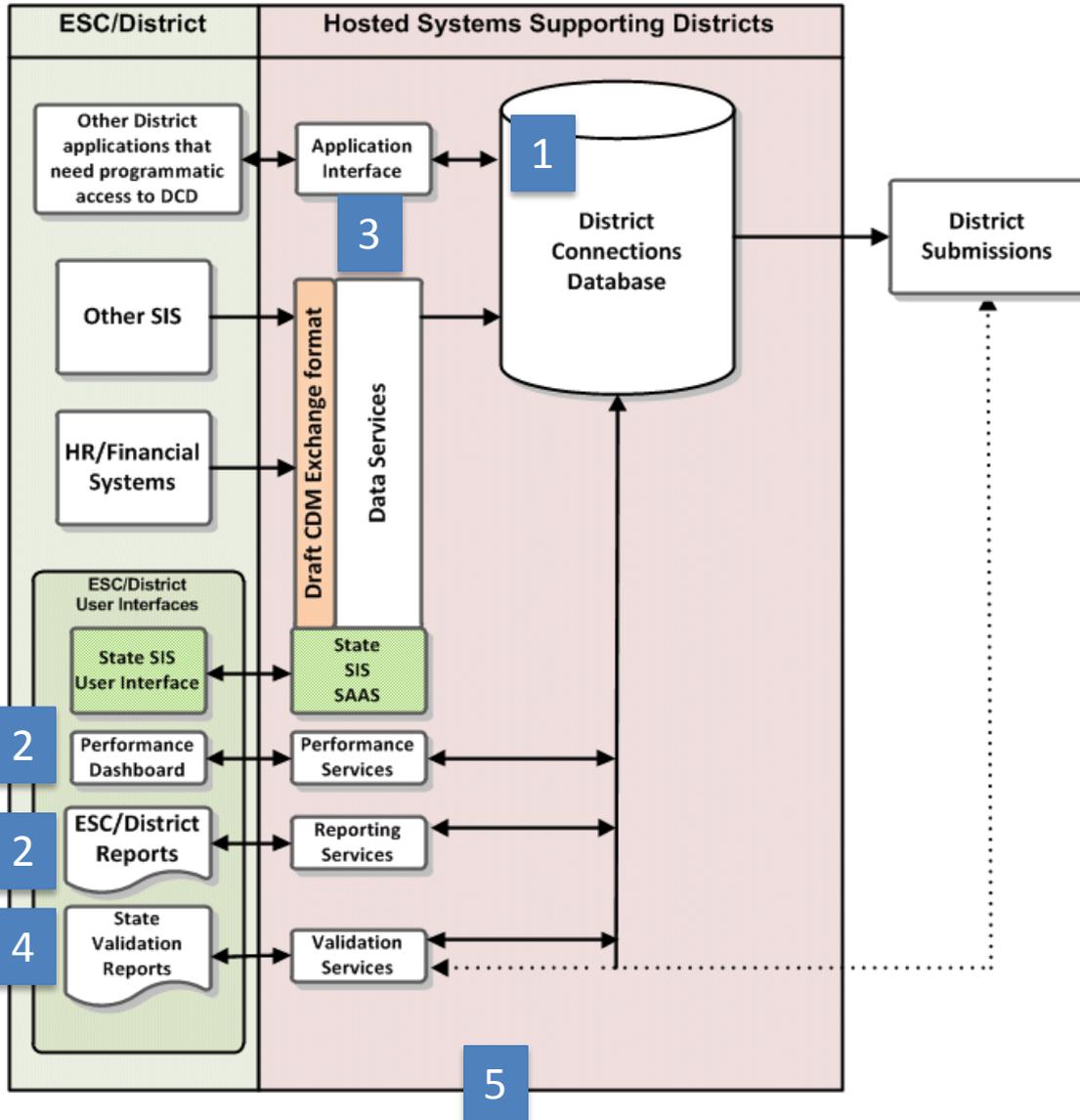
➤ **8 Regional Forums; 11 Feedback Sessions**

➤ **73 Breakout Sessions by 4 stakeholders groups (Teachers, Principals, Superintendents/Administrators, and PEIMS/IT Coordinators)**

- 47 DCD breakouts
- 26 SIS breakouts

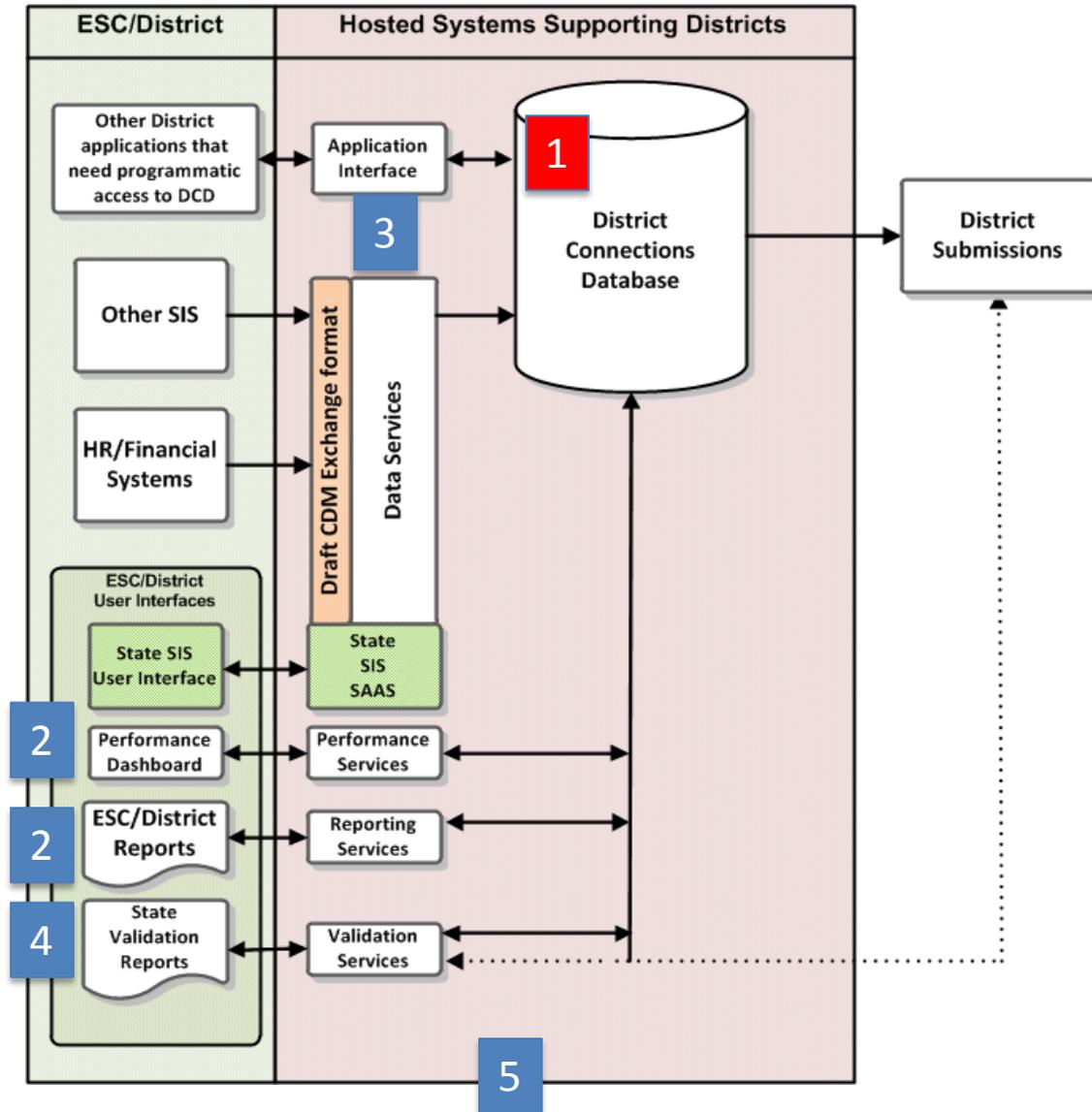


Overview of Solution Components



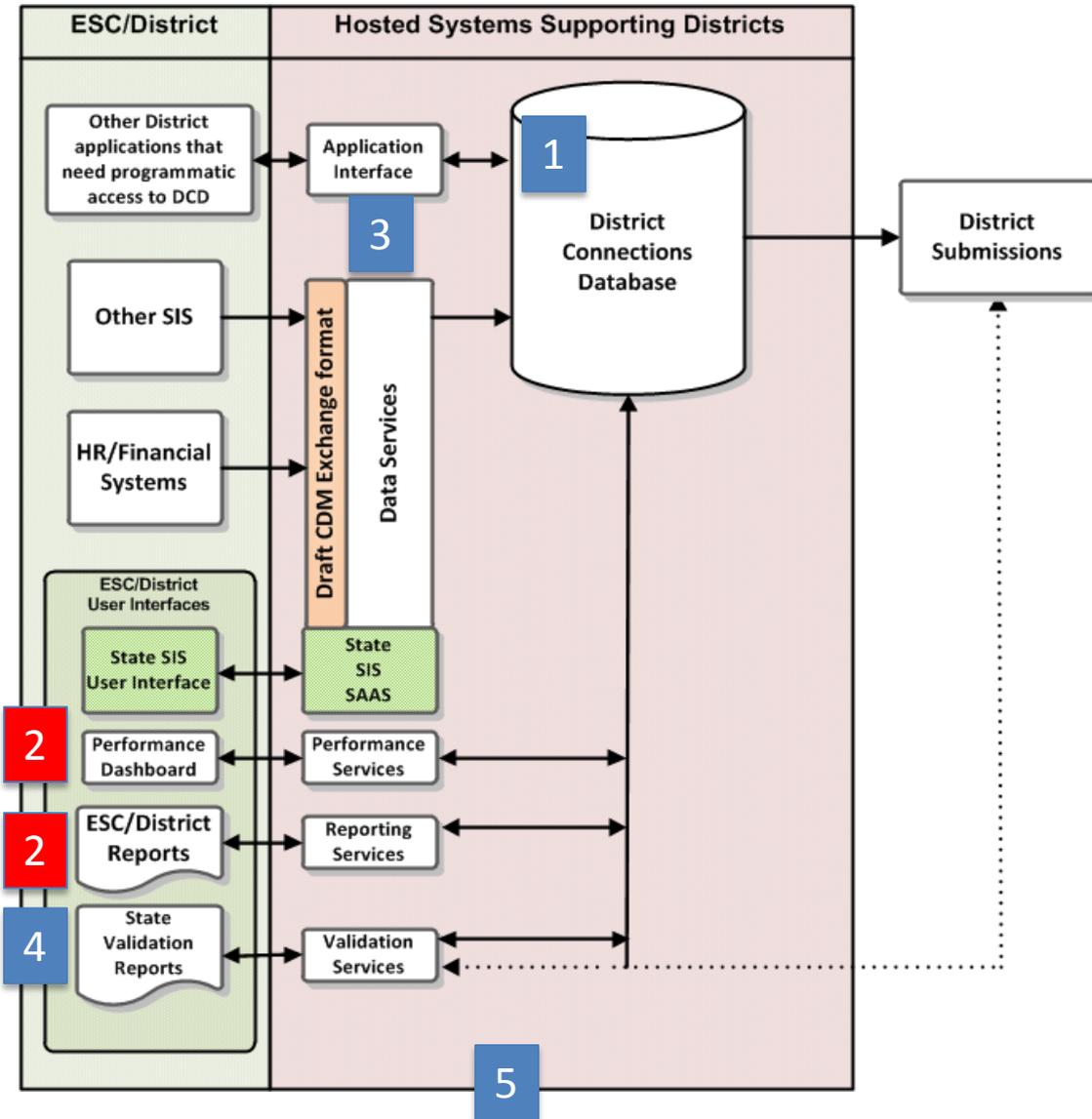
1. District Connections Database
2. Performance Dashboards and Reporting Services
3. Data Services and Application Interfaces
4. Validation Services
5. Infrastructure
6. Training
7. Deployment

District Connections Database



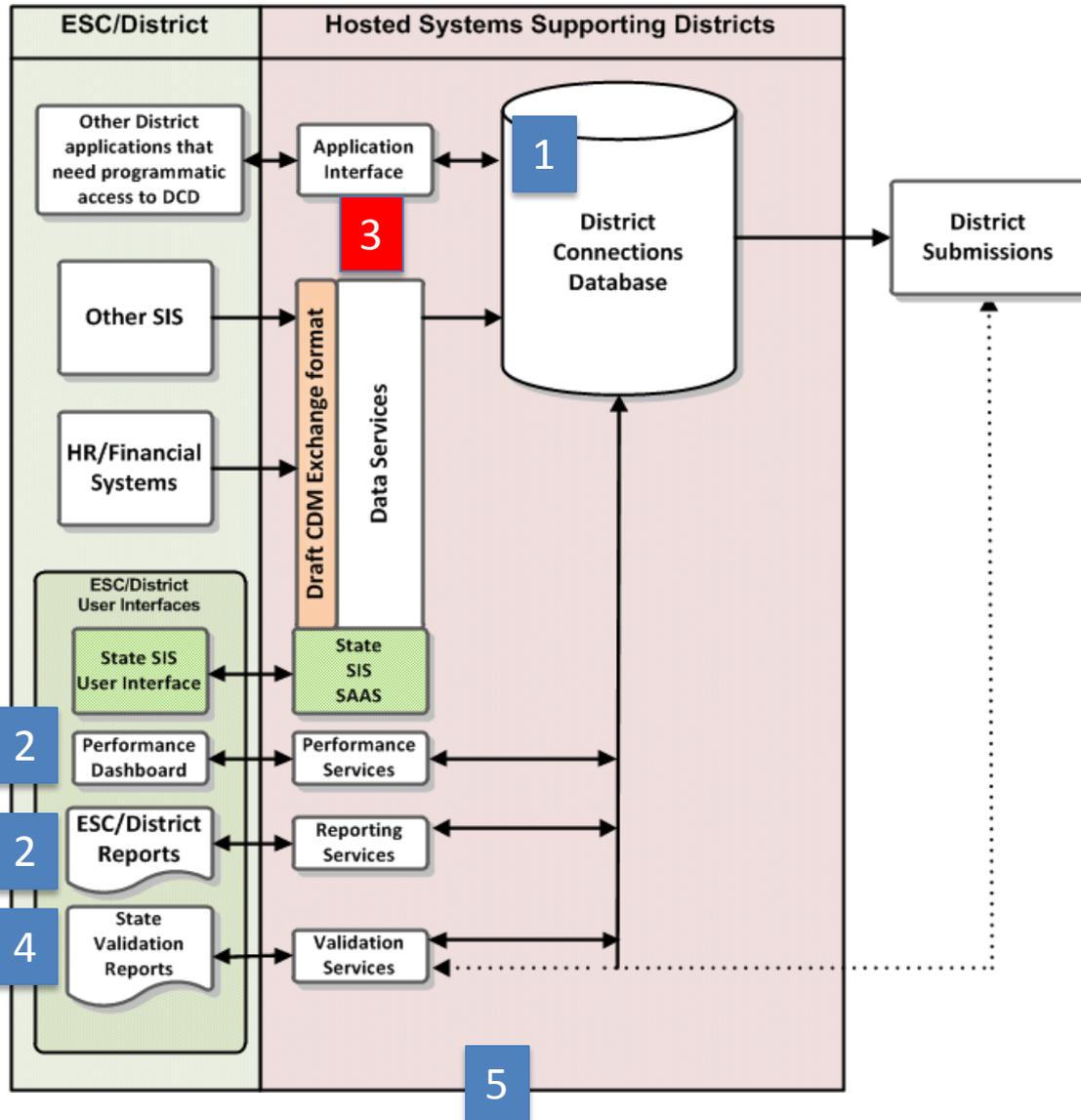
- Statewide Platform, hosted for districts
- Enables data collection, dashboards/reports
- Contains district level, operational data
- Mandatory – data to support PEIMS, Optional – data for dashboards/reports
- Protected access – district level and below; FERPA protected

Performance Dashboards/Reporting



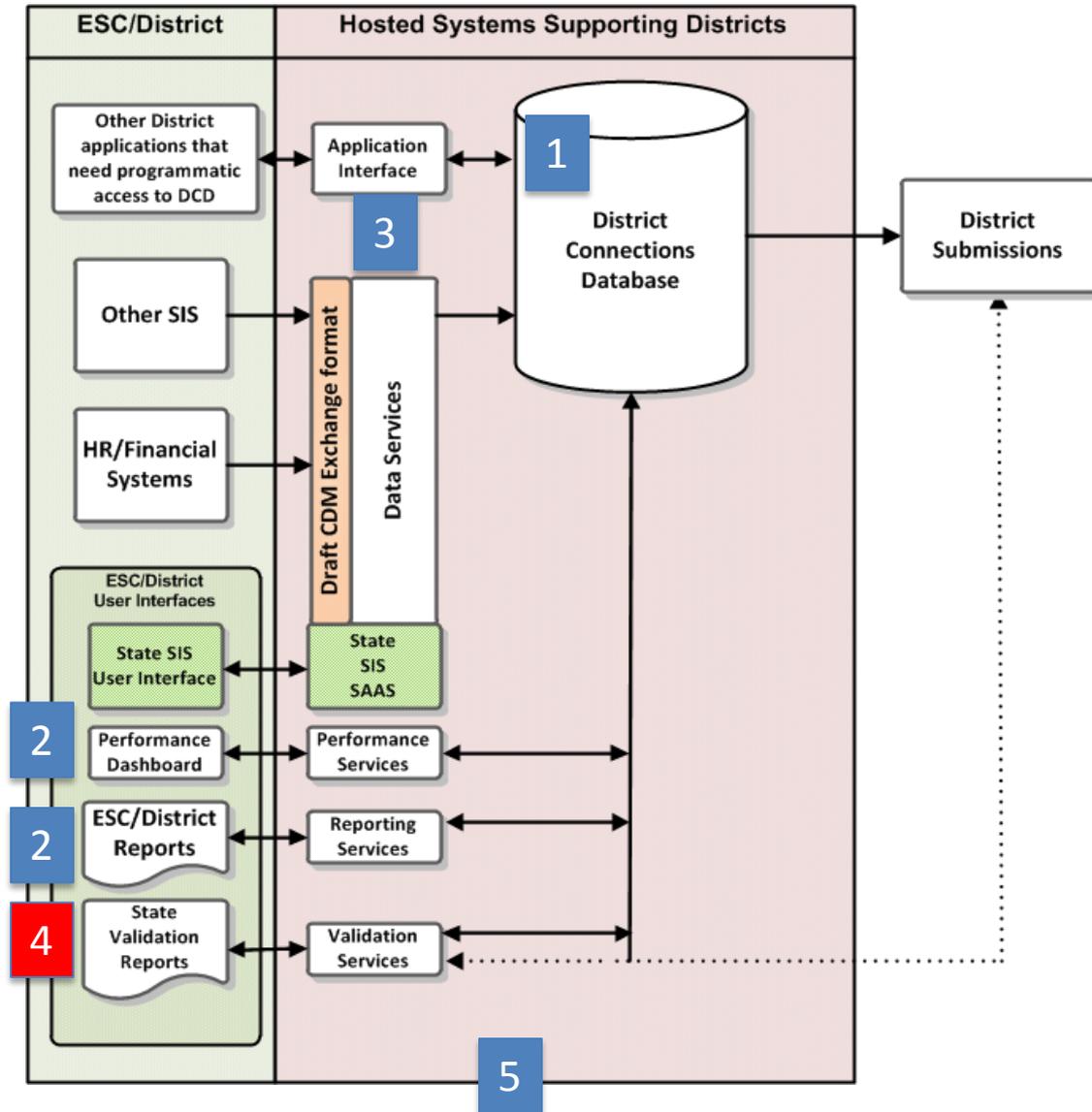
- Dashboards – student performance; metrics based; role based (95% of usage)
- Reporting – district and campus level business intelligence (5% of usage)
- Dashboard prototypes and metrics specification available
- Protected access – district level and below; FERPA protected

Data Services/Application Interfaces



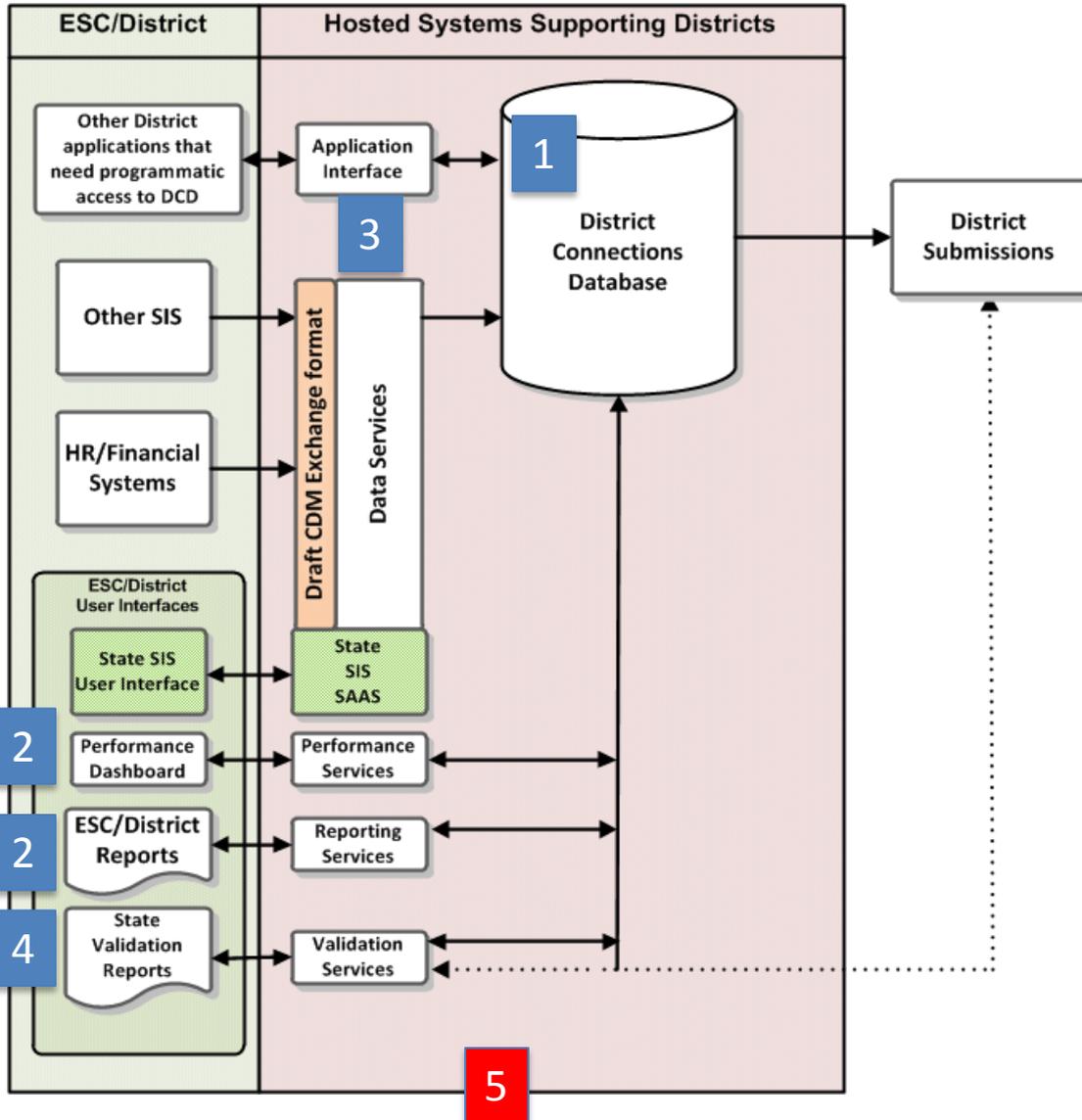
- Data Services – neutral format XML based interchange; bulk load; transaction/stream
- API for SIS vendors; tight integration
- Load to DCD, with data validation
- CDM – draft neutral format for educational data interchange
- Application Interfaces – Import/Export
- Secured interchange

Validation Services



- District-level end user validation tools
- Analyze data based on customizable business rules (operational and accountability)
- Provide graphical and textual reports to enable locating and fixing data elements
- For PEIMS data collection, intended to replace EDIT+ validation and reports

Infrastructure



- Data Center Services (traditional, federated, cloud computing, combination)
- Hardware/software for hosted systems
- Network, security, redundancy
- Load balancing, variable computing requirements (peaks/lows)
- Support for current environment – 1200 districts; 5 million students; 500,000 teachers;
- Future growth at 10 % per year