Public Schools of North Carolina

NC Common Education Data Analysis and Reporting System (CEDARS)

FBS Conference
July 30, 2009

Overview

CEDARS objectives, components, plan

Spotlight on UID

UID Pilot & Statewide Rollout

Questions/Next Steps

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CEDARS Objectives

Enable State, local, and federal policy makers and service providers to make data-driven decisions based on analysis of trends and relationships

- **across different types of data**

- **over time**

CEDARS Objectives

Increase the quality and accessibility of PreK- grade 13 (P-13) educational data

– **student & teacher demographic**

– **course, assessment**

– **program**

– **financial**

CEDARS Components

State Longitudinal Data System (SLDS):

- A statewide unique ID (**UID**) system for students and staff that enables linking of different types of data across collections and over time

- A longitudinal data store (**LDS**), along with analytical tools and reports, that enables analysis of trends and relationships
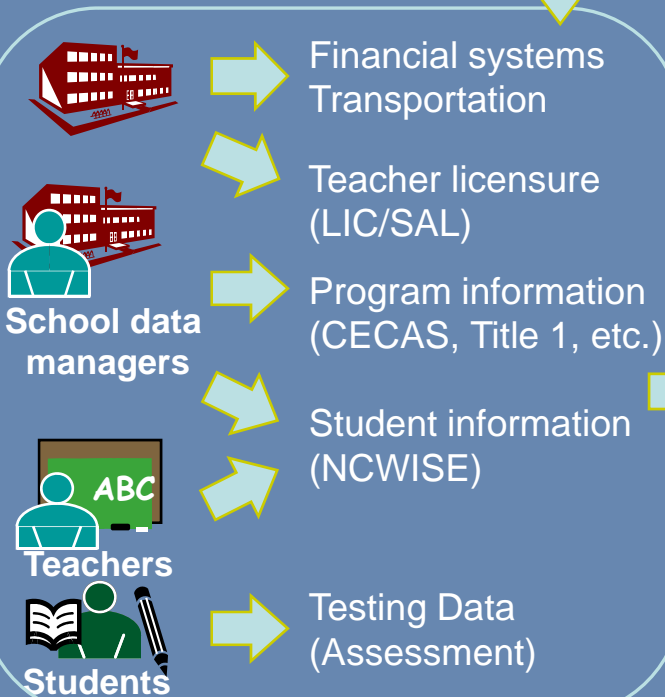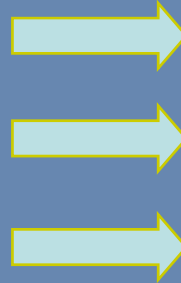
CEDARS Components

Unique ID System (UID)

Ensures that relevant source systems have properly matched students and staff with unique IDs
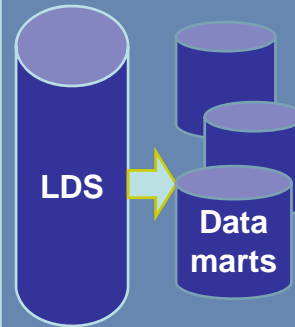
Source Systems

- Financial systems Transportation
- Teacher licensure (LIC/SAL)
- Program information (CECAS, Title 1, etc.)
- Student information (NCWISE)
- Testing Data (Assessment)

School data managers

Teachers

Students

Data Transfer

- Matches based on UID

- Checks to ensure quality

Data Repositories

LDS

Data marts

- Stores data over time

- Organized into domains based on type of data

Data Access

Standard reports

Query tools

Automated submission e.g. EDEN

Other access, e.g. online portal

LEAs, schools

State, federal

- Common location for data access ('info library')

- Different tools based on type of user

- "Data Dictionary"

CEDARS: Meeting User Needs

User	Information needs	CEDARS Approach

DPI	• Ensure compliance
	• Identify those who need support
	• Inform policy and program initiatives
		• Direct access to CEDARS
		  – Established reports
		  – Ad-hoc queries/data extracts

Federal	• Receive mandated information	• Federal submission via EDEN
LEA central offices and principals	• Ensure data accuracy • Review and compare performance and reports for their districts / schools	• Direct access to CEDARS, but filtered for specific LEA or school

Researchers, higher ed, other State agencies	• Analyze educational trends	• Mediated data extracts
		  – Requests filtered through review process
		  – Ensure appropriate user and usage

Teachers	• Review performance of students • Compare performance to standards	**Current data on specific students will NOT be provided by CEDARS** **NC WISE will provide current year ad-hoc reporting capabilities for LEAs**
Students and parents	• Understand performance of an individual student	

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CEDARS: Data Sources

DPI Data System/Source

SNA	Homeless	Dropout
NCWISE	Immigrant	DBS Internal and External
LIC / SAL	LEP	AMTR
CECAS	Neglected and Delinquent	More at Four
Accountability	SES / Choice	PPAR
MIS2000	Title I / TAS	PMR Data
CTE	USDDC	MFR/AFR
Child Nutrition / FRL		

"Data/metadata dictionary" will provide clear definitions of all data elements in the repository

CEDARS Reporting

Priority reports

EDEN/EdFacts submission

Consolidated State Performance Report (CSPR)

ABCs of Public Education and Adequate Yearly Progress (AYP) reports

State Performance Plan/Annual Performance Report (SPP/APR)

Migrant Student Information Exchange (MSIX)

State Plan for Highly Qualified Teachers (HQT)

School Report Cards (SRC)

Report on Dropout Events and Rates

Report on School Crime and Violence

Study of Suspensions and Expulsions

Legislative More at Four (MAF) report

CEDARS will provide capability, training for re how to build/modify reports
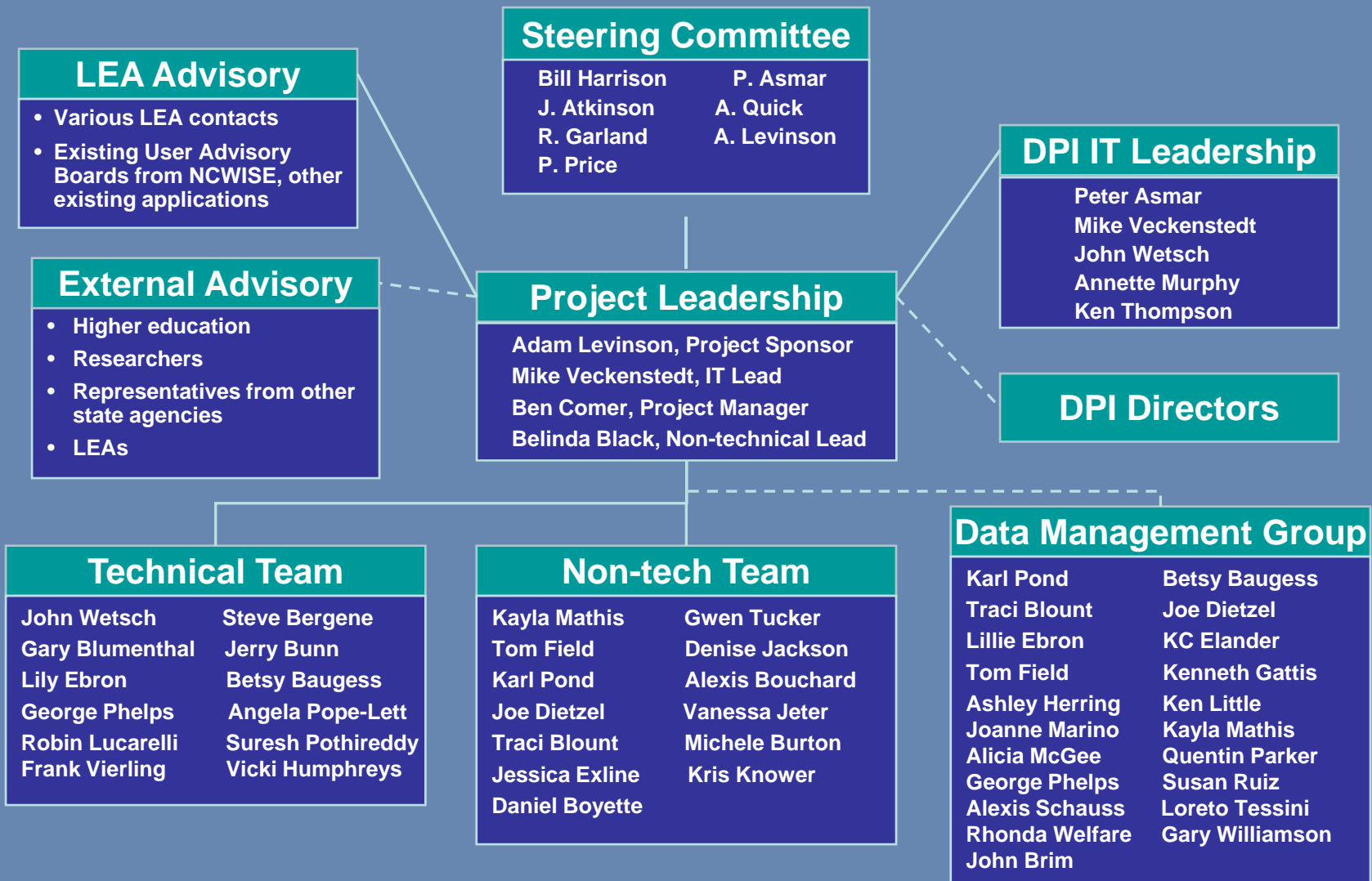
CEDARS: 6 Key Deliverables

Deliverable		How addressed
Unique Student Identifier	• Reliably match student level records over time and across DPI applications	• **Deloitte / eScholar UID solution (on-track for completion 8/09)**
Unique Staff Identifier	• Reliably match staff level records over time and across DPI applications	
Longitudinal Data Store (LDS)	• Provide robust, secure warehouse of high quality P-13 longitudinal data	• **Data Warehouse and Reporting (DWR) RFP - 8 bidders being evaluated (target completion 7/2010)**
Analysis & Reporting Tools	• Provide user-friendly access and tools to enable longitudinal analysis and reporting	• **Oracle Service Oriented Architecture ("Enterprise Services"); installed 12/09**
EDEN / EDFacts Reporting	• Automate required annual Federal reporting	
Transcript Service	• Streamline and automate exchange of student transcripts among schools and with higher ed	• **Proposal: Link to a <u>national</u> transcript exchange by 7/2010**

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CEDARS: Project Structure

Steering Committee
Bill Harrison
J. Atkinson
R. Garland
P. Price
P. Asmar
A. Quick
A. Levinson

LEA Advisory
- Various LEA contacts
- Existing User Advisory Boards from NCWISE, other existing applications

External Advisory
- Higher education
- Researchers
- Representatives from other state agencies
- LEAs

DPI IT Leadership
Peter Asmar
Mike Veckenstedt
John Wetsch
Annette Murphy
Ken Thompson

Project Leadership
Adam Levinson, Project Sponsor
Mike Veckenstedt, IT Lead
Ben Comer, Project Manager
Belinda Black, Non-technical Lead

DPI Directors

Technical Team
John Wetsch	Steve Bergene
Gary Blumenthal	Jerry Bunn
Lily Ebron	Betsy Baugess
George Phelps	Angela Pope-Lett
Robin Lucarelli	Suresh Pothireddy
Frank Vierling	Vicki Humphreys

Non-tech Team
Kayla Mathis	Gwen Tucker
Tom Field	Denise Jackson
Karl Pond	Alexis Bouchard
Joe Dietzel	Vanessa Jeter
Traci Blount	Michele Burton
Jessica Exline	Kris Knower
Daniel Boyette	

Data Management Group
Karl Pond	Betsy Baugess
Traci Blount	Joe Dietzel
Lillie Ebron	KC Elander
Tom Field	Kenneth Gattis
Ashley Herring	Ken Little
Joanne Marino	Kayla Mathis
Alicia McGee	Quentin Parker
George Phelps	Susan Ruiz
Alexis Schauss	Loreto Tessini
Rhonda Welfare	Gary Williamson
John Brim	

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Goals of UID System

1. All students assigned an NCWISE UID at the first point of contact with the public education system

PreK - 13
- **NCWISE**

PreK
- **CECAS**
- **MIS2000**
- **LEP**
- **More at Four**

Goals of UID System

2. All staff will be assigned a unique statewide ID

Note: new **Staff** file (provided by LEA/Charter payroll vendors) serves as source

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eScholar Uniq-ID

Step:

1. Basic demographic information sent to Uniq-ID server via web interface or batch upload

2. System uses multiple matching techniques to determine if NCWISE or Staff UID already exists

3. System provides an NCWISE UID via file or web
   - If <u>match</u>, system will return existing UID
   - If <u>no</u> match, system can assign a UID or leave blank
   - If <u>near</u> match, system will initiate near-match resolution process → **Human intervention!**

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Match Resolution

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UID Pilot: At-a-Glance

- July 14 – 28, 2009

- 10 LEAs, 2 Charters, More at Four

- Varying sizes, geographic regions, technology capabilities, and business processes

- Using all source systems

UID Pilot: LEA/Charter Activities

- Established contacts for student & staff

- Participated in training webinars and follow up conference calls

- Reviewed and resolved near-matches for students & staff

- Provided feedback to the DPI project team

- Will now act as a resource for other LEAs during statewide rollout

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Statewide Rollout

- **Time Line: August 2009**
  - All LEAs/Charters* notified of training dates
  - Webinars & Follow-up Calls scheduled

- **Key Activities for LEAs/Charters**
  - Registration, Training, Follow-up (as needed)
  - Resolving near matches!!
  - Making changes to source data
  - Plan for "Cascading" the training (to schools?)
  - Providing feedback to DPI!

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CEDARS Webpage:

www.ncpublicschools.org/cedars

or

www.dpi.state.nc.us/cedars

Questions/Next Steps

Questions about UID or CEDARS in general?

Please contact us at:

cedars-info@dpi.state.nc.us