MAKING THE MOST OF TEXAS EDUCATION RESEARCH CENTERS
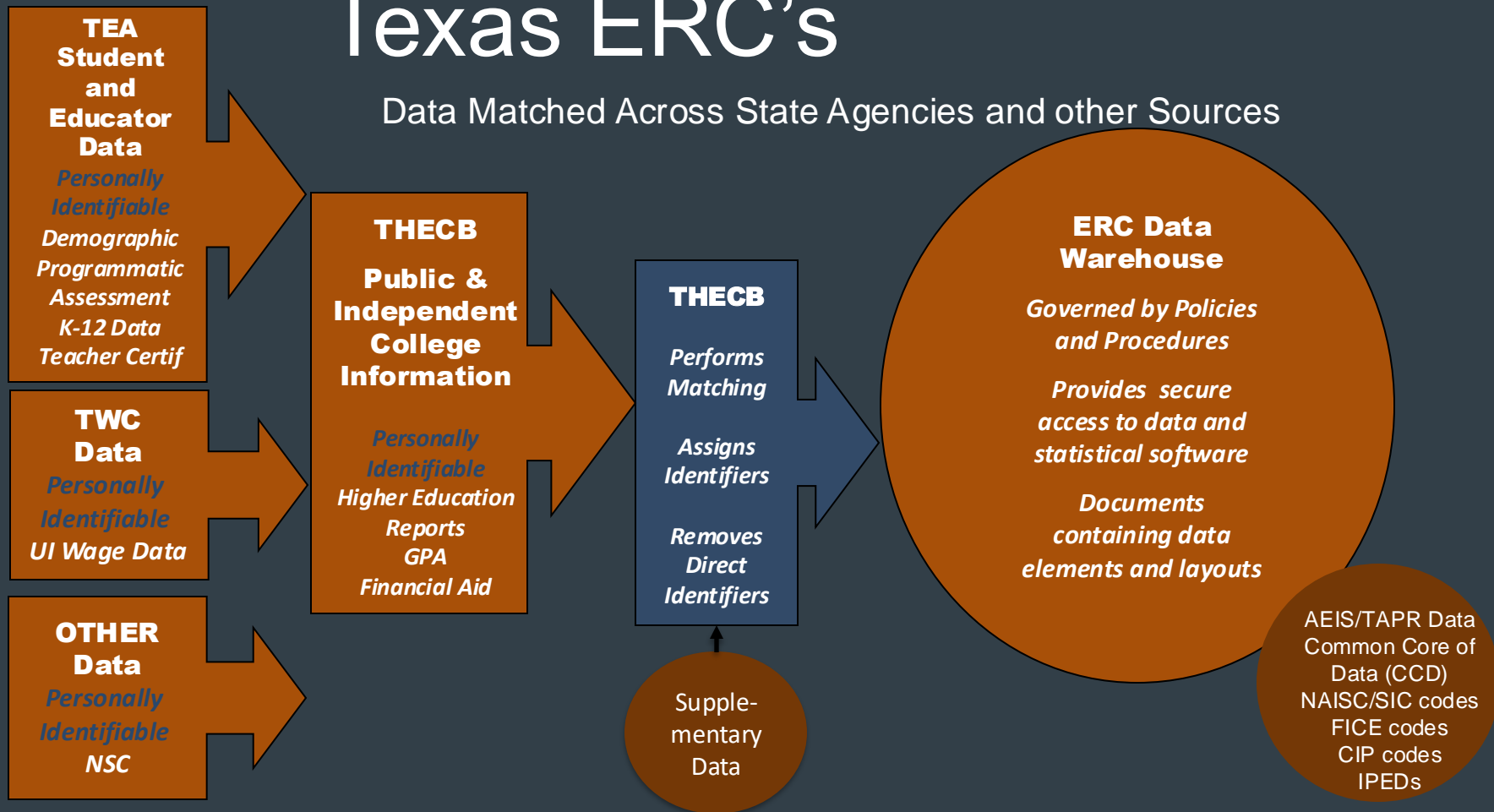
TEXAS
The University of Texas at Austin

CELESTE ALEXANDER, PH.D., DIRECTOR, THE UNIVERSITY OF TEXAS AT AUSTIN EDUCATION RESEARCH CENTER

TREY MILLER, PH.D., DIRECTOR, UNIVERSITY OF TEXAS AT DALLAS EDUCATION RESEARCH CENTER

CATHY HORN, PH.D., DIRECTOR, UNIVERSITY OF HOUSTON EDUCATION RESEARCH CENTER

Texas ERC's

Data Matched Across State Agencies and other Sources

TEA Student and Educator Data

Personally Identifiable

Demographic
Programmatic
Assessment
K-12 Data
Teacher Certif

THECB Public & Independent College Information

Personally Identifiable
Higher Education
Reports
GPA
Financial Aid

TWC Data

Personally Identifiable
UI Wage Data

OTHER Data

Personally Identifiable
NSC

THECB

Performs Matching

Assigns Identifiers

Removes Direct Identifiers

Supple-mentary Data

ERC Data Warehouse

Governed by Policies and Procedures

Provides secure access to data and statistical software

Documents containing data elements and layouts

AEIS/TAPR Data
Common Core of Data (CCD)
NAISC/SIC codes
FICE codes
CIP codes
IPEDs

De-Identified Individual Data

- The data housed in the ERC contain educational records and personal information about students, educators, and employees in Texas that is considered confidential and protected by FERPA regulations.

- This data can be linked longitudinally at the individual level across different datasets due to its integrated nature, using <u>alternative identifiers</u> that matches consistently across agency data.

- The ERC goal is to protect individuals under FERPA while simultaneously providing access and support to researchers.

TEA Data

District and Campus Data
- Organizational data (1991-)
- Financial data, budgeted and actual (1991-)
- Staff employment data p_employ & p_class (1995-) and new contractor data (2020 -)

Student Data
- Enrollment (1994-)
- Attendance (1993-)
- National School Lunch Program (2019 -)
- Course completion (1993-)
- Class Roster (2020 -)
- Endorsements stud_fhsp_part _status (2016 -)
- Graduation, leaver, and dropout (1992-)
- Special education (1992- 2022). Now 3 files with more information – disability, program, services (2022 -)
- Disciplinary data (1999 -)
- CTE – district_cte_calcs (2021 -)
- Industry Certification (2020 -)
- Early childhood Data System (ECDS). 3 files demographics, service, funding, & staff (2019 -)

Assessment Data
- TAAS and TAKS data, all grades, all subjects, all versions, (TAAS 1994-2007, TAKS 2003-2011)
- State of Texas Assessments of Academic Readiness (STAAR 2012 -)
- Texas English Language Proficiency Assessment System (TELPAS) (2004 -)

Educator Data
- Certification data teachers and non-teachers (cumulative through 2023)
- Certification test data (cumulative through 2023)
- Teacher Incentive Allotment (TIA)

Other Data
- AEIS/TAPR….
- National Student Clearinghouse Data (NSC) (2008 -)

Course Complete – Individual-level data

ID1	ID2	DIST-RICT	CAMPUS	SERVICE CODE	COURSE SEQ-UENCE	CLAS S ID	COUR SE FINIS H	COUR SE RESU LT	RESU LT OCC UR	CREDIT	CREDIT REASON	PASS_FAIL _CREDIT	DUAL_C REDIT	COLLEGE CRED_H RS
				8 digits	0,1,2,3,4,5,6,7,8,9,A,D0,D1,D2,D3,D4,D5,D6,D7,D8,D9	14 digits	1	1,2,3	0,1,2,3	0,N,Y	00,01,02,03,04,05	01,02,03,04,05,06,07,08,09,10,11,12,13,14	0,1	0,1,2,3,4,5,6,7,8,9
XX	XX	007906	007906001	03220107	1	XXXX	1	1	0	Y	00	01	0	0
XX	XX	007906	007906001	A3040000	1	XXXX	1	1	0	Y	00	01	0	0
XX	XX	007906	007906041	03060600	A	XXXX	1	1	0	0	00	13	0	0

Service Codes (p_serviceyy) – no individual data

SERVICE	SERVICEX	SERVGRP 1	SUBJECT	SUBJAREA	SUB_SUBCA T	GRADE LEVEL	ADV_C OURSE	SERVICEX_LONG	ELIG_HS_ CREDIT
8 DIGITS	TEXT	01,04,05, 06,07,08, 09	00 - 99	1,2,3,4,5,6,7, 8,9,11,12,99	00,01	00,01,02,03,04,05, 06,07,08,30,40,45, 50,60,70,EE,KG,PK	N,Y	TEXT	N,Y
03220107	ENGLISH 1	01	22	02	00	45	N	ENGLISH 1	Y
A3040000	AP CHEMISTRY	08	02	04	00	45	Y	AP CHEMISTRY (1 UNIT)	Y
03060600	SCIENCE, GRADE 6	01	08	04	00	06	N	SCIENCE, GRADE 6	N

PK-12 Employee Information (p_class)

ID1	ID2	DIST-RICT	CAMPUS	ROLE	SERVICE CODE	SERVICE _CHANGE_SEQ	CLASS ID	CLASS _TYPE	MONTHLY_ MINUTES	DISTRICT SERVICE	POPSERV	STUDENTS	PFTE	PTIME	BASEPAY	GRADE
					8 digits	0 - 102	14 digits	1, 2			01 - 10					0,1,2,3,4,5, 6,7,8,9,10, 11,12,EE,KG,PK
XX	XX	007906	007906001	87	03220107	1	XXX	2	2000	101912	06	15	.13	.13	8600	11
XX	XX	007906	007906001	87	A3040000	1	XXX	1	1050	22091	04	12	.15	.15	10306	11
XX	XX	007906	007906041	87	03060600	A	XXX	2	900	108912	06	1	00	.06	3630	6

CURRENT ROLE CODES

2 ART THERAPIST
3 ASSISTANT PRINCIPAL
4 ASST/ASSOC/DEP SUPER.
5 PSYCHOLOGICAL ASSOC.
6 AUDIOLOGIST
7 CORRECTIVE THERAPIST
8 COUNSELOR
11 EDUC DIAGNOSTICIAN
12 DIST INSTR PGM DIR/EXC
13 LIBRARIAN
15 MUSIC THERAPIST
16 OCCUPA THERAPIST
17 ORIENT/MOBIL SPEC
18 PHYSICAL THERAPIST
19 PHYSICIAN
20 PRINCIPAL
21 RECREAT THERAPIST
22 SCHOOL NURSE
23 LSSP/PSYCHOLOGIST

24 SOCIAL WORKER
26 SPEECH THRPST/PATH
27 SUPERIN/CAO/CEO
28 TEACHER SUPERVISOR
30 TRUANT OFF/VISIT TCHR
32 WORK-BASED SITE COOR
33 EDUCATIONAL AIDE
36 CERTIFIED INTERPRETER
40 ATHLETIC DIRECTOR
41 TEACHER FACILITATOR
42 TEACHER APPRAISER
43 BUSINESS MANAGER
44 TAX ASSESSOR/COLLCTR
45 DIR -PERSONNEL/HR
47 SUBSTITUTE TEACHER
54 DEPARTMENT HEAD
55 REGISTRAR
56 ATHLETIC TRAINER
100 INSTRCT MTRL COOR
60 EXECUTIVE DIRECTOR
61 ASST/ASSOC/DEPEXECDIR

62 COMPON/DPRTMNT DIR
63 COORD/MNGR/SUPERVIS
64 SPECIALIST/CONSULTANT
65 FIELD SERVICE AGENT
79 OTHER ESC PROF PERSNL
87 TEACHER
101 LEGAL SERVICES
102 COMMUN PROFSSNL
103 RES/EVAL PROFSSNL
104 INTERNAL AUDITOR
105 SECURITY
106 LEA/INFO TECH PROF
107 FOOD SERV PROF
108 TRANSPORTATION
109 ATHLETIC(NOTATHLDR)
110 CUSTODIAL
111 MAINTENANCE
112 BUSIN SERV PROF
113 OTH LEA EXMPT PROF
114 OTH CAM EXMPT PROF

THECB Data

Texas Higher Education Coordinating Board Data
  CBM001 - Student Enrollment Report (1992-2021)
  CBM0C1 - Student Census Report (2021 -)
  CBM002 - Texas Success Initiative (1990 -)
  CBM004 - Class Report (2000-)
  CBM008 - Faculty Report (2000-2021)
  CBM0C8 - Census Faculty Report (2022 -)
  CBM009 - Graduation Report (1990 -)
  CBM011 - Facilities Room Inventory Report (2006 -)
  CBM014 - Facilities Building Inventory Report (2006 -)
  CBM00A - Students in Continuing Education Courses Report (2000 -)
  CBM00B - Admissions Report (2000 -)
  CBM00C - Continuing Education Class Report (2000 -)
  CBM00M - Marketable Skills Achievement Report (2002 -)
  CBM00R - Residents/Fellows Report (2008 -)
  CBM00S - Student Schedule Report (2011 -)
  CBM0CS - Census Student Schedule Report (2022 -)
  CBM0E1 - End of Semester Student Data (2011 -)
  CBM00T - Student Transfer Report (2021 -)
  TSI Texas Success Initiative – if meets standards (2004 -)
  FADS - Financial Aid Database System (2001 -)
TWC Data
  Employment wage reports (1990 -)
Other Data
  National Student Clearinghouse information (2008 -)
  Publicly Available (e.g. IPEDS…)

THECB data – Graduation Report CBM009yy

ID2	ID1	Grad-age	grad-code	Grad-fice	Grad-gen	Grad-degr	Grad-lev	Grad-maj	Grad-year	Grad-nondisc	Grad-month	Grad-ethnic	Grad-white	Grad-black	Grad-asian	Grad-native	Grad-internt	Grad-unknwn	Grad-pacific
XXX	XXX	21	9	003541	F	BA	2	131206	2023	0	05	1						7	
XXX	XXX	23	9	003541	M	BS	2	430104	2023	0	12	1				5			
XXX	XXX	25	9	003658	F	MA	3	301030	2023	2	05	2			1				

Need to go to Classification of Instructional Program (CIP) code table to find Major
003541 = Angelo State University
003658 = University of Texas at Austin
Need to go to FICE Code table to find Institution name
131206 = Teacher Education
430104 = Criminal Justice
301030 = Energy & Earth Resources

1. Supplemental Data - Example

- We can use the ERC data system to determine the impact of an intervention by flagging the participants (treatment group).

- The treatment group PII data is sent securely to TEA. TEA will match the external data to the PII data they have on all PK-12 public school students and employees of Texas Public schools.

- To have the most number of accurate matches, TEA would like to have: social security number (SSN) or state assigned id, first name, last name, and date of birth. If SSN is not available, including the high school the student attends or which school the student graduated, and student's high school graduation year will assist in increased record matching.

2. Supplemental Data - Example

- The THECB will match the students who are enrolled in higher education in Texas.

- The next step is the de-identification process.

- They create an "age-as-of-September-1" and create an alternative ID1 and/or ID2, delete the name, DOB, and SSN or state assigned id. The de-identified data is securely transferred to the ERC.

ERC Procedures for Data Access – 9 steps

1. Researchers wishing to utilize data from the ERCs must develop and submit a study proposal.

2. The proposal is reviewed by the staff of the ERC to which it was submitted.

3. Feedback on the proposal is given.

4. The revised final proposal is forwarded to the ERC Advisory Board for the next ERC Advisory Board meeting.

5. If the ERC Advisory Board approves the proposal, researchers are granted access to the Texas ERC data.

ERC Procedures for Data Access (cont.)

6. There is required training regarding FERPA and masking small cells through the specific ERC you applied to.

7. Researchers gain access to the data and statistical software on the secure server (SAS, Stata, SPSS, R, R-Studio, Python (IDLE), & SQL).

8. All output is reviewed for small cells. If approved, the output is released to the researcher.

9. When the study is completed, researchers are required to submit a policy brief to summarize their findings.

An Important Component of a Proposal is how the Results will Benefit Education and/or the Workforce in Texas

- A required section of the proposal is benefit to education and/or workforce in Texas. It is very important to discuss benefits and policy relevancy of how results can assist in improving Texas education and/or workforce.

Examples of Current Research

General Education Issues

Public Prekindergarten on student outcomes
Policy Evaluation (HB5, HB18…)
Legislated Graduation Requirements
Charter Schools
Afterschool programs
School Closure/Reconstitution
School Discipline
School Finance
Migrant/Immigrant Education
ELL
Rural Outcomes

HS to College/Career

PK-20 Pipeline
STEM Focus
College Participation
Dual Credit/Advanced coursework
HS Academies
International Students

Postsecondary Success

Financial Aid
Transfers
Developmental Education
College Debt

Workforce- Teacher

Teacher Supply/Demand
Teacher Pay
Teacher Turnover
Teacher/Counselor Preparation/Development

Workforce- General

Financial Aid/College Participation
STEM workforce

Q & A

Celeste Alexander, Ph.D.

celeste.alexander@austin.utexas.edu

https://texaserc.utexas.edu/

Trey Miller, Ph.D.

tmiller@utdallas.edu

https://tsp.utdallas.edu/ut-dallas-education-research-center/

Toni Templeton, Ph.D.

tbtempleton@uh.edu

https://uh.edu/education/research/institutes-centers/erc/