

Student Mobility Is an Indicator for College Readiness



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Presentation Overview

EPISD Research: Past, Current, Future

- Past
 - Lexiles
 - Review from REL (Feb meeting in San Antonio)
 - Discussion with Dallas ISD
- Current
 - Mobility within the district (1, 2, 3, or 4 HS)
- Future
 - Predicting College Entrance Exam Performance
 - Compare Graduates from 2007, 2008, 2009, & 2010
 - Percentile rankings
 - Course completion
 - Demographic information
 - » Type of Household

EPISD Class of 2007 - Revisit

- 2857 students from 10 traditional HS
- 2056 graduates found in NSC data (72%)
- 801 graduates not in NSC data (28%)
- Of the 2056 graduates in NSC data:
 - 225 enrolled for 1 semester (11%)
 - 191 enrolled for 2 semesters (10%)
 - 226 enrolled for 3 semesters (11%)
 - 304 enrolled for 4 semesters (14%)
 - 1110 enrolled for 5 or more semesters (54%)

NSC = National Student Clearinghouse

Leaver Code Status



TEA
Leaver
Codes

	Spring 2003	Spring 2004	Spring 2005	Spring 2006	Fall 2007	
Continued HS	0	0	0	0	611	
Data error	36	22	6	3	0	
Dropped out	26	38	123	287	0	
Graduated	0	0	112	2744	0	
Other leaver	334	341	326	159	0	
Received GED	4	23	43	56	0	
Underreported	25	8	14	51	0	
Totals	425	432	624	3300	611	5392

Mobility Within the District

Frequency of Transfers by Grade		
Grade Level	Number of Transfers	Percent
9 to 10	115	4.4
10 to 11	140	5.3
11 to 12	144	5.5

Number of High Schools Attended		
High Schools	Number of Students	Percent
1	2326	88.4
2	218	8.3
3	83	3.2
4	5	0.2

Is Mobility a Possible Factor In Post-Secondary Education Enrollment?

Percent of Students Enrolled in Post Secondary Institutions by Number of High Schools Attended in EPISD

Number of High Schools Attended	Number of Semesters Enrolled Post-secondary Institutions			
	0	1 or 2	3 or 4	5, 6, or 7
1 (N=1944)	22%	14%	19%	45%*
2 (N=100)	21%	21%	20%	38%*
3 (N=42)	38%	19%	22%	21%*
4 (N=2)	--	--	--	--

* Note: suggest caution on interpretation of results

Preliminary Findings

- Is there a suggested correlation between mobility and post-secondary enrollment?
 - Limitations
 - Small sample size
 - Only traditional high schools analyzed, i.e. district-wide and alternative high schools not included
- Perhaps a better question:
 - Is mobility a possible factor for high school completion?

Future Research

Predicting College Entrance Exam Performance

1. District course grade information:
 - Numerical final grades (Percentile Rank)
 - Course codes and sequences
 2. TEA course completion (PEIMS 415 Record)
 - Pass/fail categories (dual-credits, pass/fail (if fail, when, etc.))
 - Course codes and sequences
 3. Student demographic information
 4. Possible approaches to develop predictive model
- An example of this type of analysis with second-grade students

Research Questions

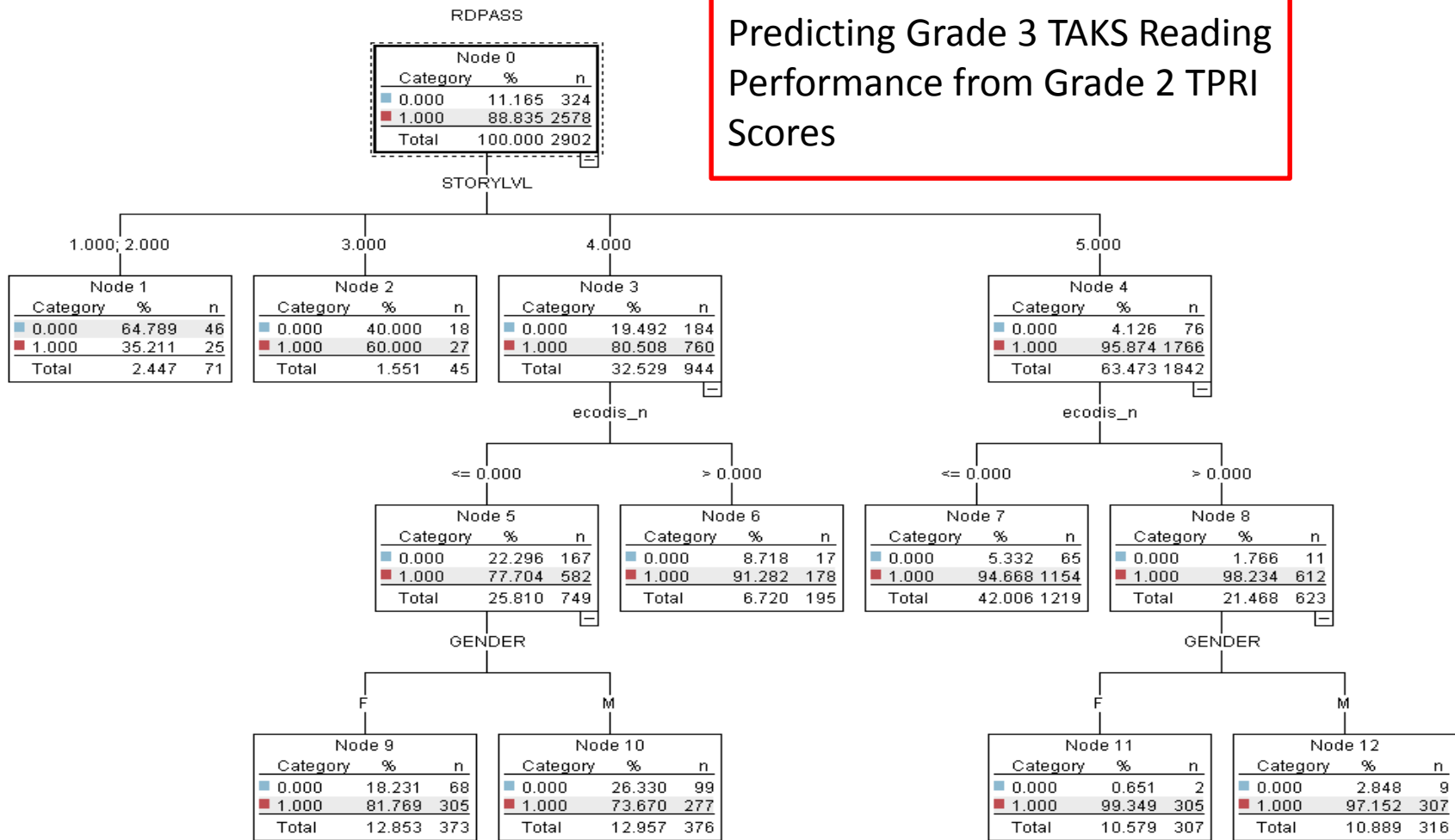
- What factors contribute to students not completing HS in 4 years?
- How strong is the correlation between HS course performance (grades, pass/fail categories, etc.) and college entrance exam (SAT, ACT) performance?

Why Percentile Ranking?

- Course rigor varies by teacher
- Grade inflation (or deflation) by school and teacher

CHI-squared Automatic Interaction Detector (CHAID)

Predicting Grade 3 TAKS Reading Performance from Grade 2 TPRI Scores

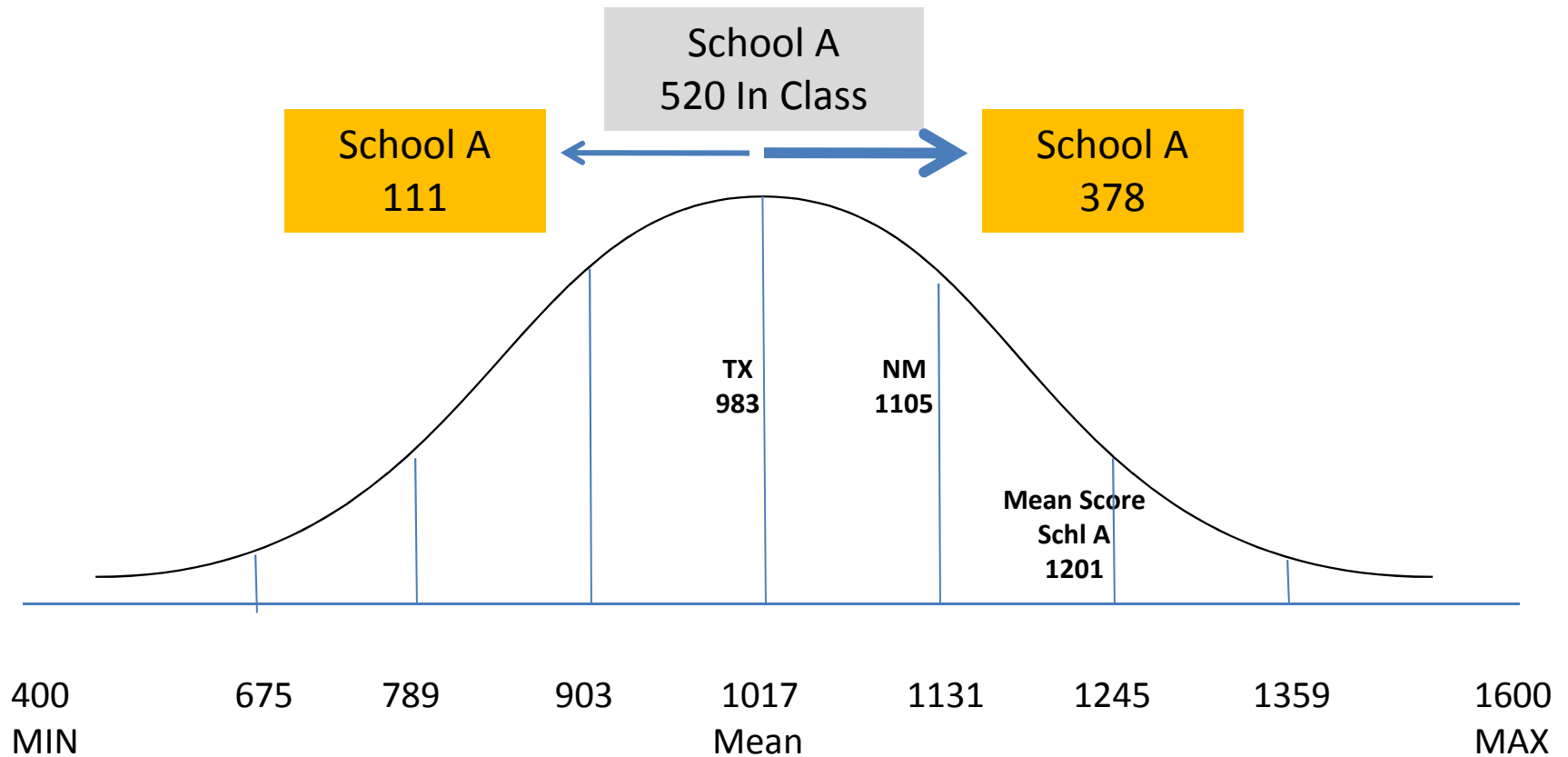


Two Public High Schools in Texas Class of 2008

	School A	School B
All Students	520	392
Four-year Graduates	514 (99%)	255 (65%)
Number of Grads Taking SAT	489 (94%)	248 (97%)
College Ready Grads (TAKS ELA & Math)	88%	19%
Median income	\$150,000	\$37,000
Median home value	\$632,000	\$62,000

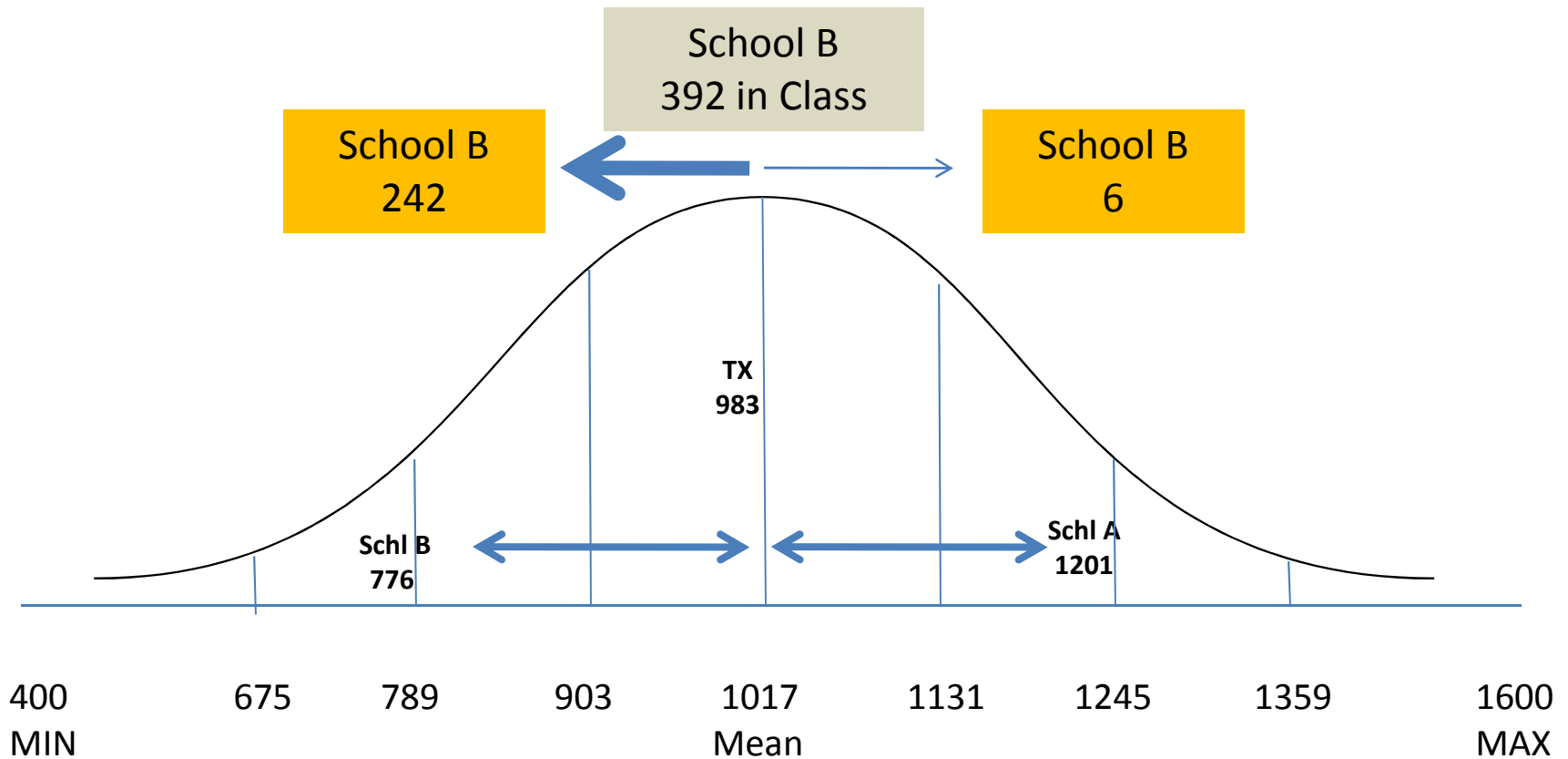
SAT and College Readiness

Mathematics and Verbal (1.5 Million Exams Nationwide, 2008)



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Question and Answers

