















Measuring Real Expenditures

- Our goal: "identify school districts and campuses that contribute tocost-effective operations"
- Our approach: Use propensity score matching to identify similarly situated schools/districts and measure spending relative to those fiscal peers
 - Each school or district has a unique set of fiscal peers that are its nearest-neighbor matches on key dimensions of educational cost

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The Model

- Three level campus model, two level district model
 - Level 1 (student level) controls for prior math and reading scores (and their squares) and student characteristics (and interactions), test grade
 - Level 2 (district level)—no additional aggregate controls
 - Level 3 (campus level)—campuses nested within districts
- Reliability adjustment
- Separate models for reading and math
- Capture campus and district random effects

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	Index 2 Student Progress	FAST/Smart Academic Progress
Scores?	Scale Score	z-score
Demographic Controls?	Subgroup Analysis	Yes
Test Subjects?	All Subjects	Math and ELA/Reading
Time Frame?	Three-year average	Three-year average
Metric?	Meet/exceed	Continuous measure
Reporting?	Ratio of points awarded when a student met/exceeded progress, relative to total possible points	Percentile rank

Conclusions

- Our Academic Progress Measure augments the extensive Texas accountability system with value added measures of student academic progress
- Different approach in three ways:
 - Controls for student demographic characteristics
 - Math and ELA/Reading only
 - Three year average and continuous measure
- Three year average measures are quite stable over time
- Correlated with other measures of campus/district success
 Houston ISD EVAAS, Dallas ISD School Effectiveness Index
- Our biggest challenge: changing testing regime particularly for high schools

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