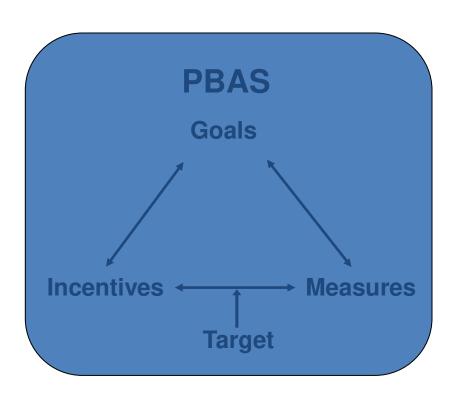
Multiple Measures in the Context of Performance-Based Accountability

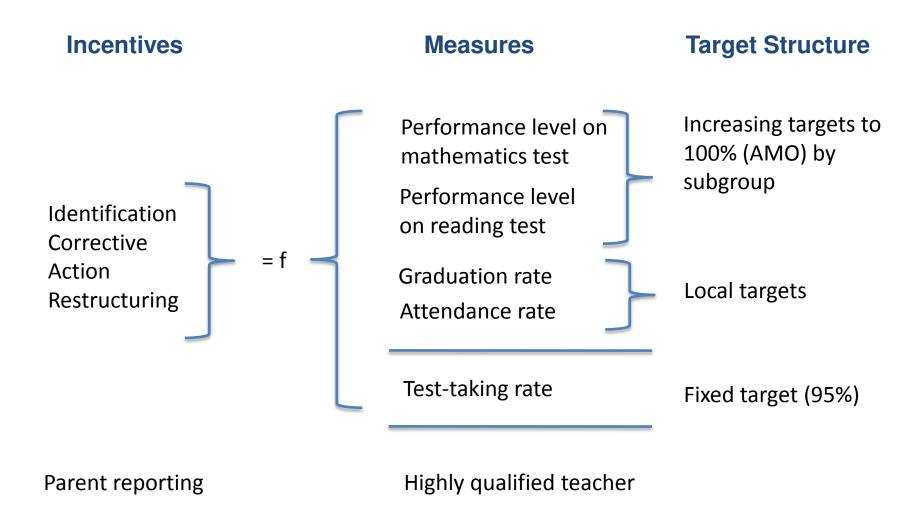
Brian Stecher
Reidy Interactive Lecture Series
September 23, 2011

Performance-Based Accountability

- Link incentives with measured performance to improve the attainment of goals
- Key elements of PBA systems:
 - Consensus on goals
 - Measures
 - Target structure
 - Incentives
- Multiple measures might improve the performance of the system



No Child Left Behind



Twenty States Currently Report Measures Beyond NCLB

- Outcome indicators included in ratings
 - Additional tested subjects (e.g., history, social studies)
 - College readiness (e.g., ACT, AP)
 - Growth in performance
 - Weighted test scores along whole performance range
- Additional indicators
 - Safe and Supportive Environment
 - Students at-risk of failure
 - Interim assessments/advanced course-taking

Multiple Measures and PBA

- PBA Theory of Action: Measured performance related to endorsed goals triggers incentives that shape behavior thus promoting goals
- How might multiple measures contribute?
 - More accurate information improves the signal
 - More complete information aligns better with goals
 - More robust information reduces corruption
 - More sensitive targeting heightens responsiveness

Multiple Measures: More Accurate Information

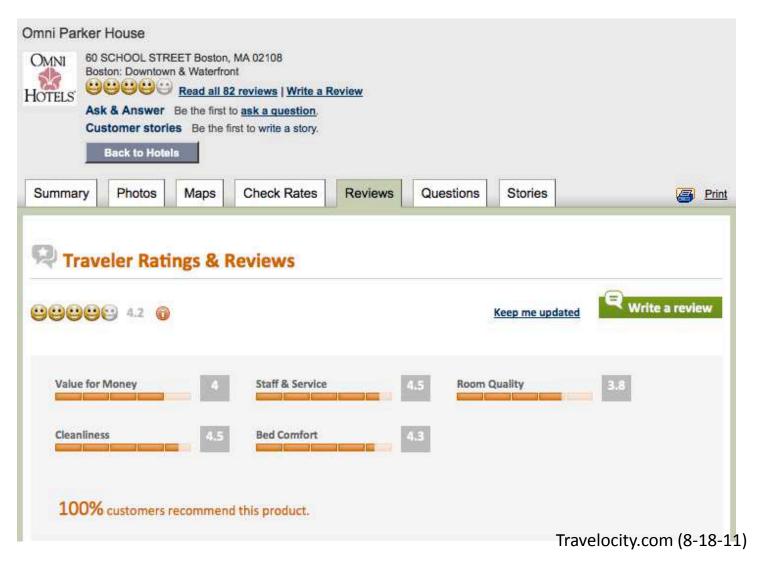




Multiple Measures: More Accurate Information (2)

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Multiple Measures: More Complete Information



Multiple Measures: More Complete Information



More Complete Information: Society Has Diverse Goals for Education

- Academic Skills
- Practical and Fine Arts
- Health and Nutrition
- Social Skills
- Psychological Skills
- Citizenship

More Complete Information: Many Ways to Measure These Diverse Goals

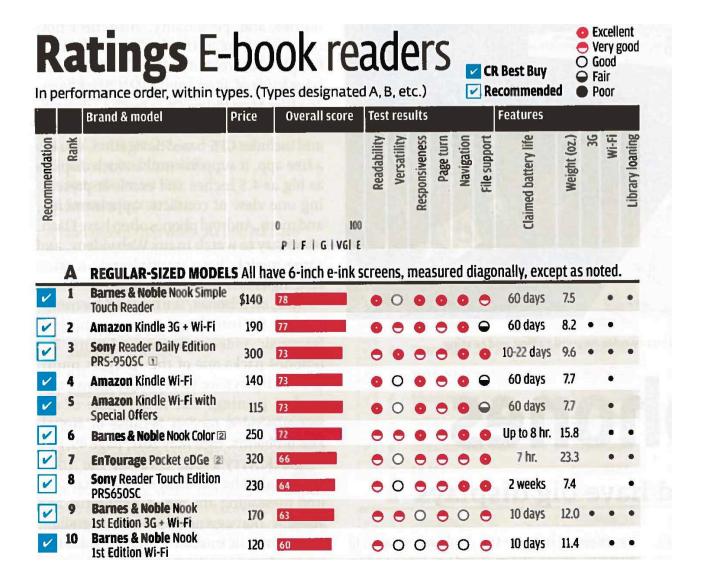
- Academic skills
- Practical and Fine Arts
- Health and Nutrition
- Social Skills
- Psychological Skills
- Citizenship

- Tests
- Performances
- Access & Participation
- Stakeholder Surveys
- Direct Observation
- Administrative Records
- Post-Secondary Data

Multiple Measures: More Robust Information

- Campbell's Law
 - The more any quantitative <u>social indicator</u> is used for social decision-making, the more subject it will be to corruption pressures and the more apt it will be to distort and corrupt the social processes it is intended to monitor.
 - In the context of high stakes testing this leads to score inflation
- Multiple indicators diffuse the pressure of accountability on indicators.

Multiple Measures: More Sensitive Targeting



Multiple Measures: More Sensitive Targeting

School Content Area Weights for the Most Common Grade Spans, K-8

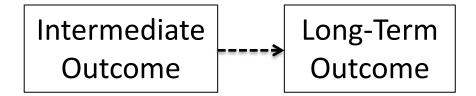
Content Area	2010–11 API Test Weights								
	K-5	6–8	K-8						
CST/CMA/CAPA in ELA	56.5%	51.4%	54.2%						
CST/CMA/CAPA in Mathematics	37.6%	34.3%	36.1%						
CST/CMA/CAPA in Science, Grades 5 and 8	5.9%	7.1%	6.5%						
CST in History–Social Science, Grade 8		7.1%	3.2%						

School Content Area Weights for Grades 9–12

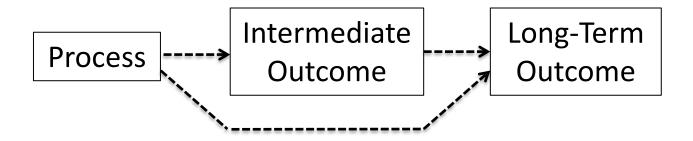
Content Area	2010–11 API Test Weights
	9–12
CST/CMA/CAPA in ELA, Grades 9-11	27.1%
CST/CMA/CAPA in Mathematics, Grades 9–11	18.1%
CST/CMA/CAPA in Science, Grades 9-11	22.9%
CST in History–Social Science, Grades 9–11	13.9%
CAHSEE ELA, Grades 10–12	9.0%
CAHSEE Mathematics, Grades 10–12	9.0%

Long-Term Outcome

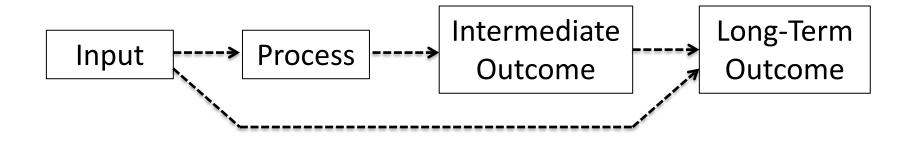
- College Success
- Career Success
- Healthy Living
- Citizenship



- College Readiness
- Career Readiness
- Course-Taking
- Athletic Participation
- Student Government



- AP Course Offering
- College Counseling
- Art/Music Courses
- Model UN

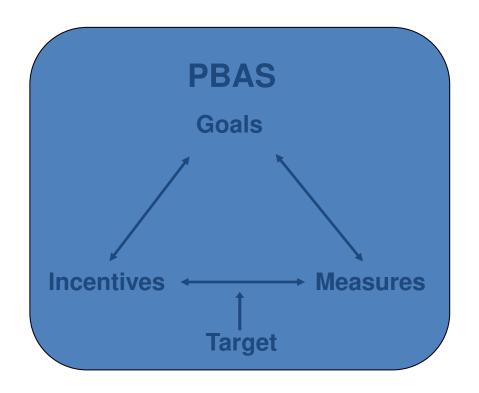


- Qualified Teachers
- Art/Music Facilities
- Community Partners

Challenge: Balancing Benefits and Costs/Risks

- Breadth Focus
- Comprehensiveness Affordability
- Formative Summative Purposes





Do people agree on goals and can they be measured well?

Which people or units should be held accountable?

What measures can reliably, fairly and robustly reflect attainment of goals?

What targets will focus attention appropriately?

What incentives will motivate changes in behavior?

Performance-Based Accountability Systems Should Not Be Static

