

CCRPI AND BEATING THE ODDS

Charter School Performance Goals

December 4, 2013



Dr. John D. Barge, State School Superintendent
"Making Education Work for All Georgians"
www.gadoe.org

For New Charter Schools

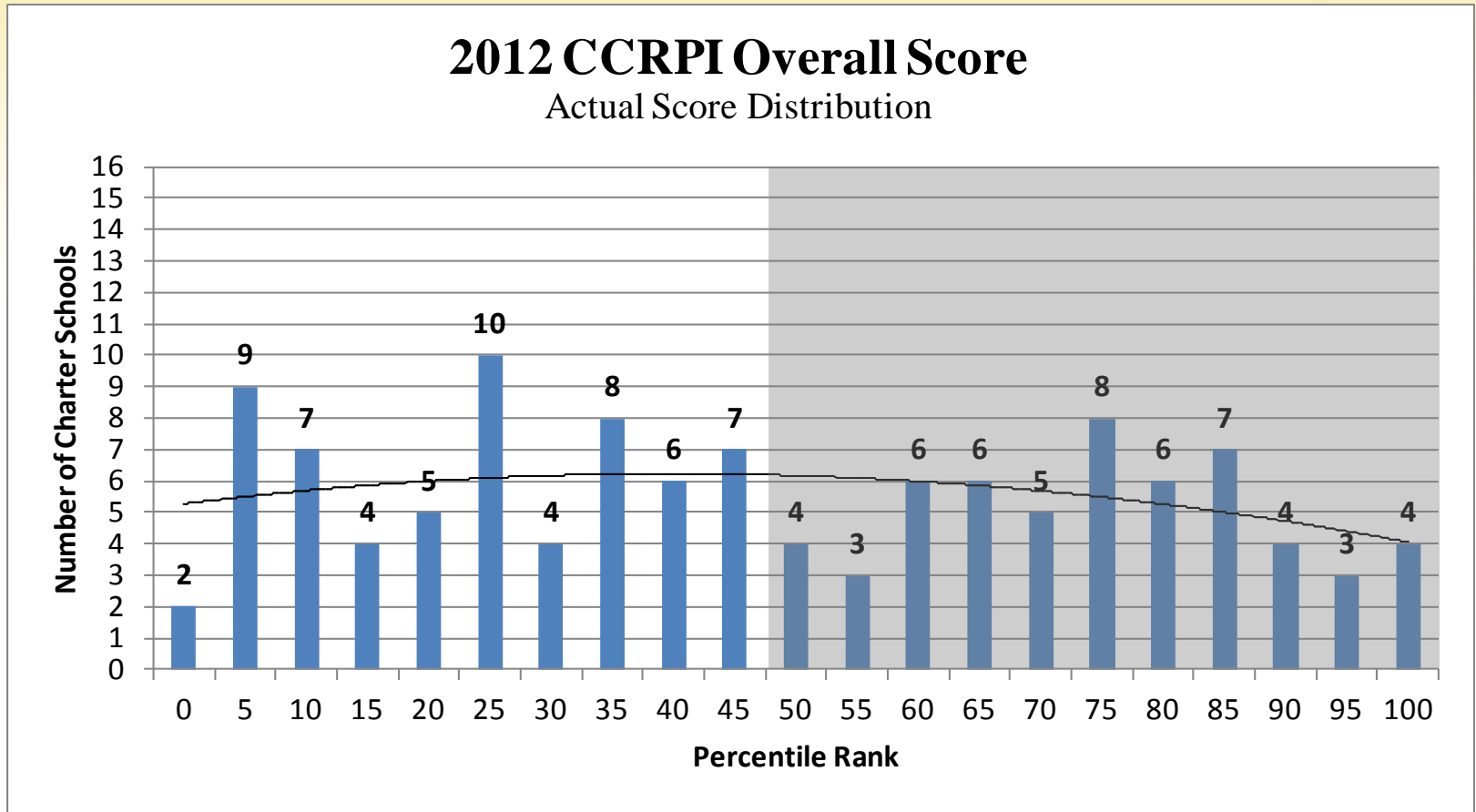
(opening in 2014 or later)

Charter schools will be measured by their performance on two factors:

1. Beating the Odds
2. CCRPI (College and Career Readiness Performance Index)



CCRPI Overall Scores - Actual



Note: Charters schools may have more than one score within the distribution. The CCRPI calculates a school level score for grades K-5; 6-8; and 9;12 and schools with grade configurations that span multiple will receive a score for each level.



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CCRPI Charter Goals

For new start-up charter schools first opening in 2014 or later, using Year 1 of the charter term to establish a CCRPI baseline:

- The Charter School's CCRPI score shall be equal to or better than both the State and local district in Year 2, and
- Better than both the State and local district in Years 3-5 of the charter contract



CCRPI Charter Goals

(continued)

If the school's first-year CCRPI score is lower than either or both the local district and the State

- The school shall have until the end of Year 2 of the charter term to close the gap between the Charter School and whichever score is higher, the local district or the State
- In Years 3-5 of the charter term, the Charter School's CCRPI score shall be better than both the State and the local district



CCRPI and Charter Renewal

- Renewal decisions for new start-up charter schools first opening in 2014 or later will be based in part on whether the school's CCRPI score was equal to or better than both the State and local district in Year 2, and better than both the State and local district in Years 3-4 of the charter contract.



Beating the Odds (BTO) Charter Goals

- During each year of its first five-year charter term, all charter schools shall “beat the odds” as determined by a formula measuring expected student growth
 - In layman’s terms, a school “beats the odds” when it does as good as or better than all the schools in Georgia that are similar to that school



BTO Analysis

- The Beating the Odds analysis is a cross-sectional, fixed-effects regression model that uses the following factors from the CCRPI school-level dataset, GaDOE student record file, and GaDOE CPI data
 - Analytical Aim: Use non-malleable factors to predict performance on each of the CCRPI components
 - Data: CCRPI school-level dataset, GaDOE student record file, and GaDOE CPI data



Factors Included in BTO

- **Student-based Factors**

% African American

% Hispanic

% White

% Other

% Free/Reduced Lunch

% Students with Disabilities

% English Learners

% Male

% Talented and Gifted

- **School-based Factors**

School Size (FTE)

Student/Teacher Ratio

School Configuration/CCRPI Score Type (i.e. Elem, Middle, High)

Locale Type (i.e. City, Town, Rural)

District Performance (fixed effect)



REFERENCE

BTO Predicting Model

- **BTO Model Specification**: Cross-sectional fixed-effects regression model

$$Y_i = \beta_0 + \beta_1 SD_i + \beta_2 SI_i + \beta_3 CL_i + \varepsilon_i + \alpha_d$$

- β_0 = constant term
- $\beta_1 SD_i$ = vector of student demographic variables for each individual school
- $\beta_2 SI_i$ = vector of school type information including school size, student-teacher ratio, and location type
- $\beta_3 CL_i$ = dummy (binary) variables for each of the CCRPI reporting clusters (i.e. Elementary, Middle, High)
- ε_i = individual schools' random error term
- α_d = district level fixed-effects to control for district-level policies and procedures



REFERENCE

BTO Model Postestimation

- **Prediction Post-Estimation:** To calculate the predicted score the following approach used:
- Linear prediction from the fitted regression model where:
 - estimating a set of parameters b_1, b_2, \dots, b_k , and the linear prediction is:
$$\hat{y}_j = b_1x_{1j} + b_2x_{2j} + \dots + b_kx_{kj}$$
$$\hat{y}_j = \mathbf{x}_j\mathbf{b}$$
 - For the linear regression model selected the values are called the predicted values.
- $x_{1j}, x_{2j}, \dots, x_{kj}$ are obtained from the actual reported school level data on the student-based and school level predictors

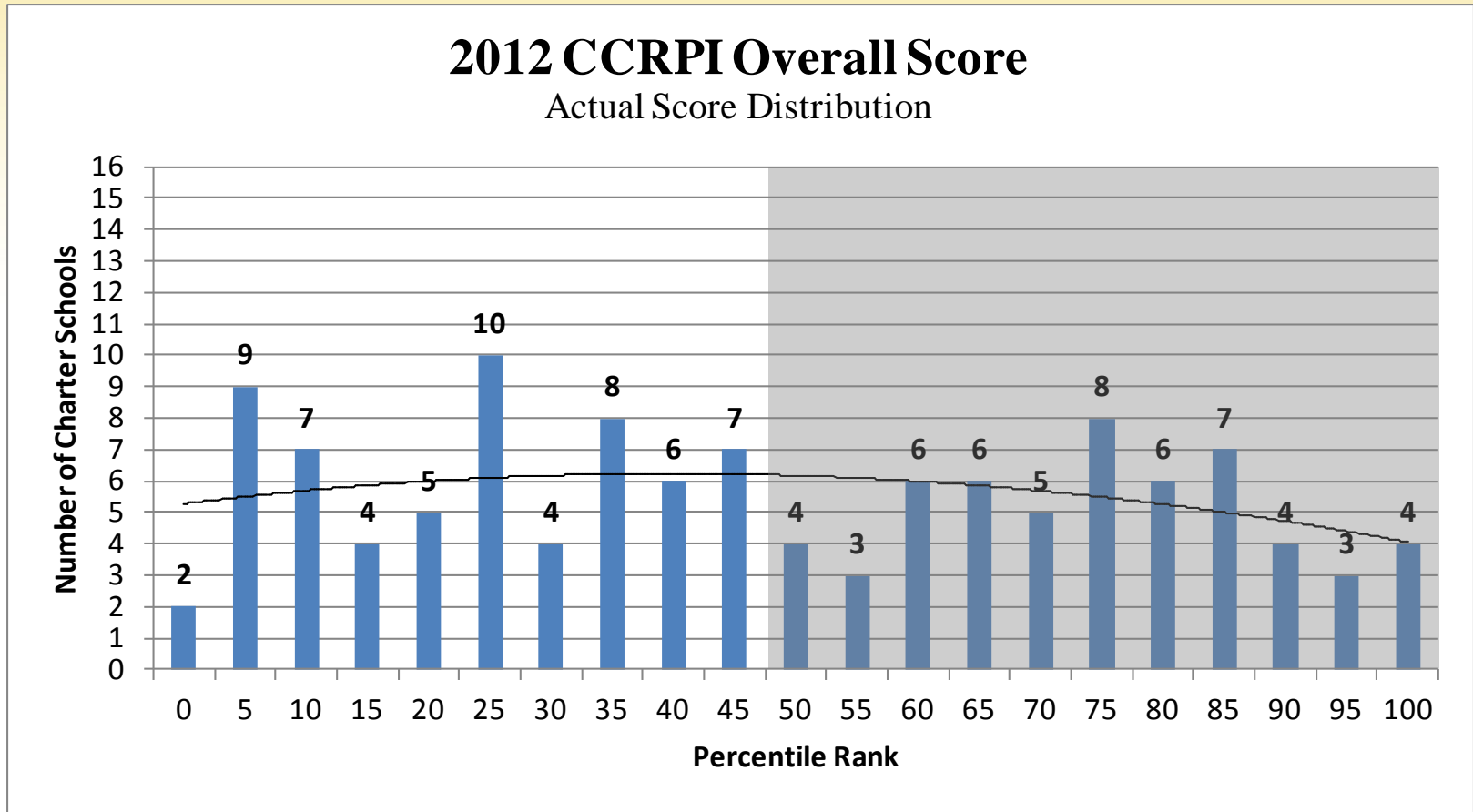


BTO and Charter Renewal

- Renewal decisions for new charter schools first opening in 2014 or later will be based in part on whether the school “beat the odds” in each of the first four years of its first charter term (Years 1-4)



CCRPI Overall Scores - Actual

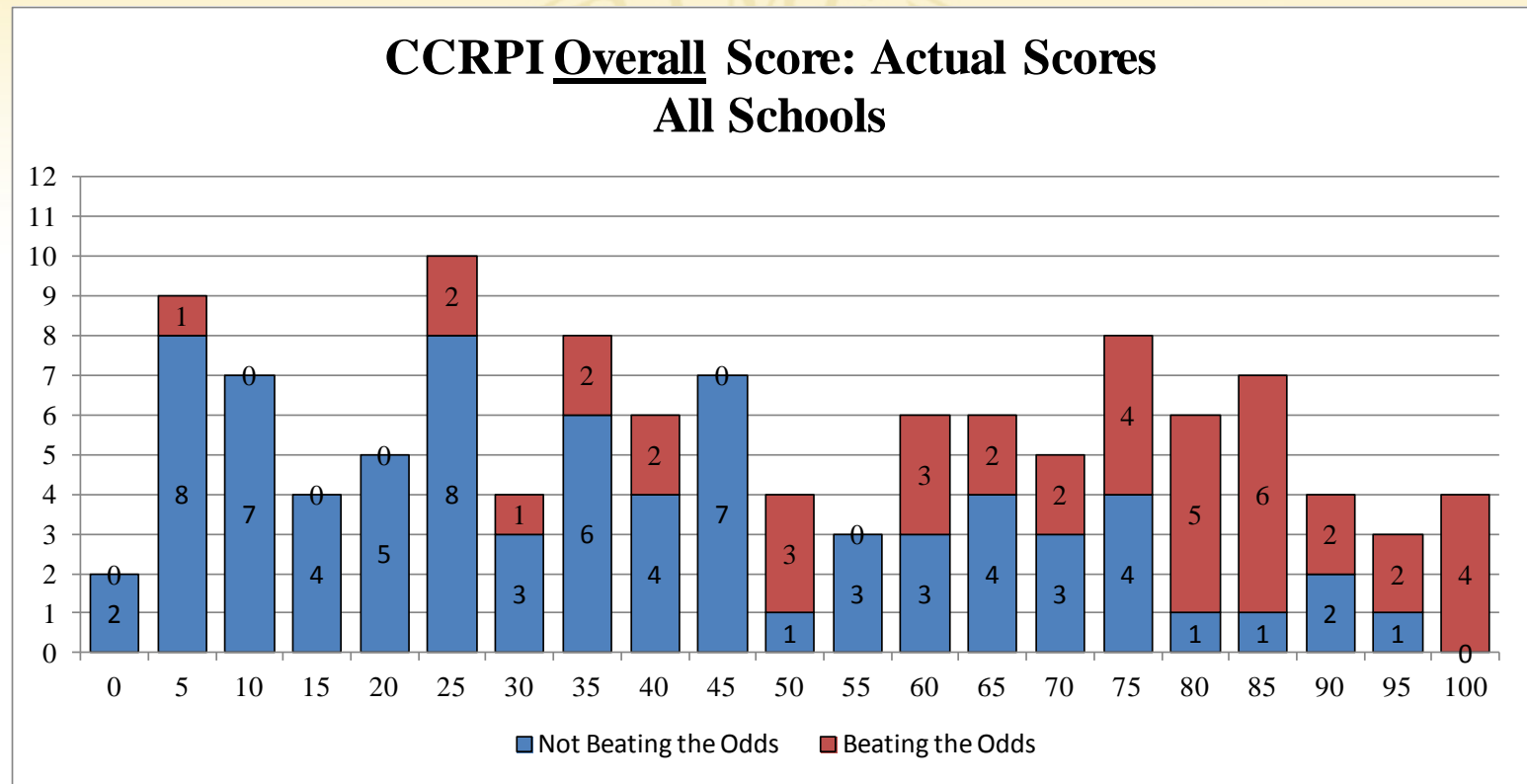


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CCRPI Overall Score - Actual & Prediction

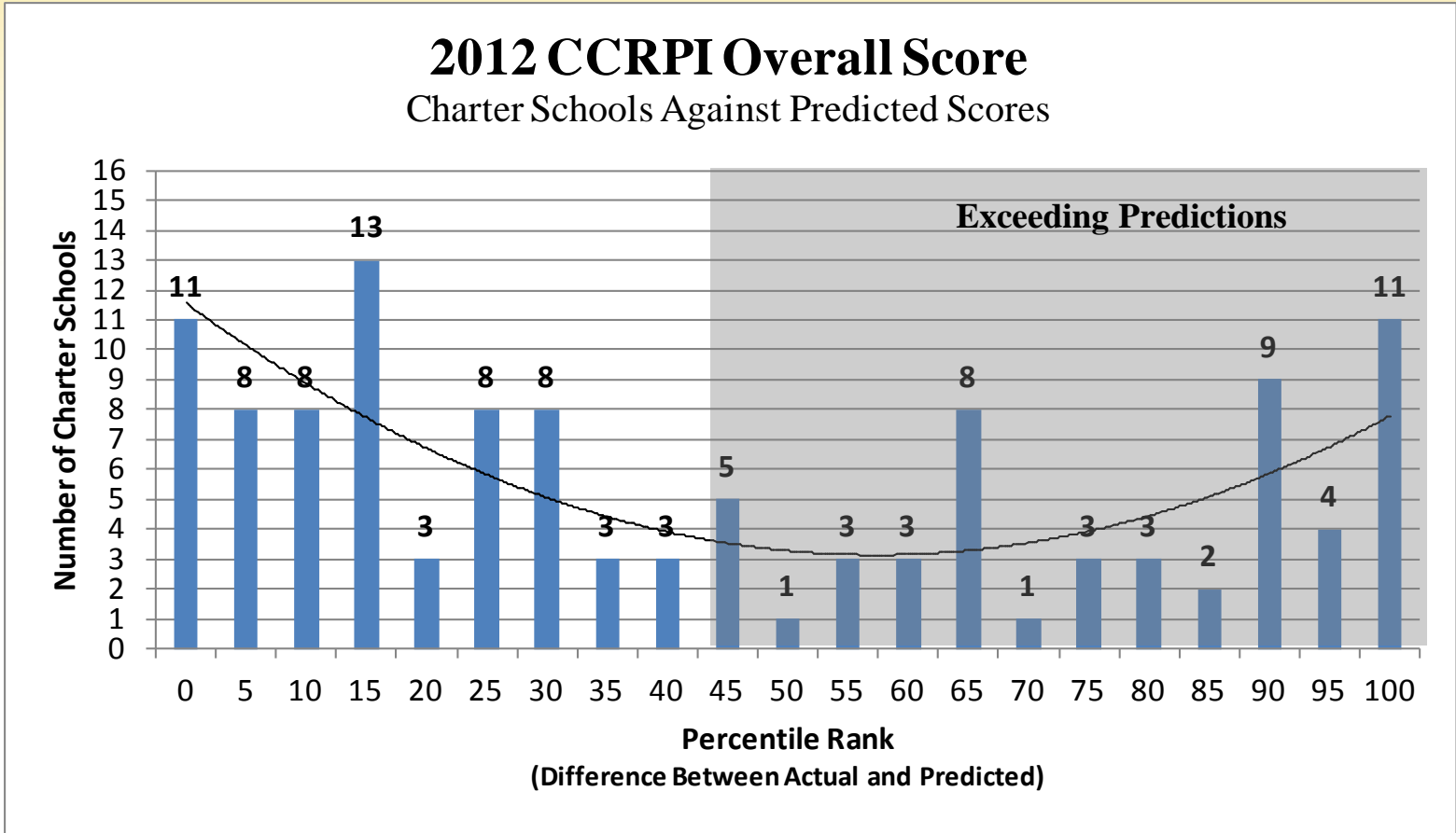


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CCRPI - Actual vs. Predicted



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