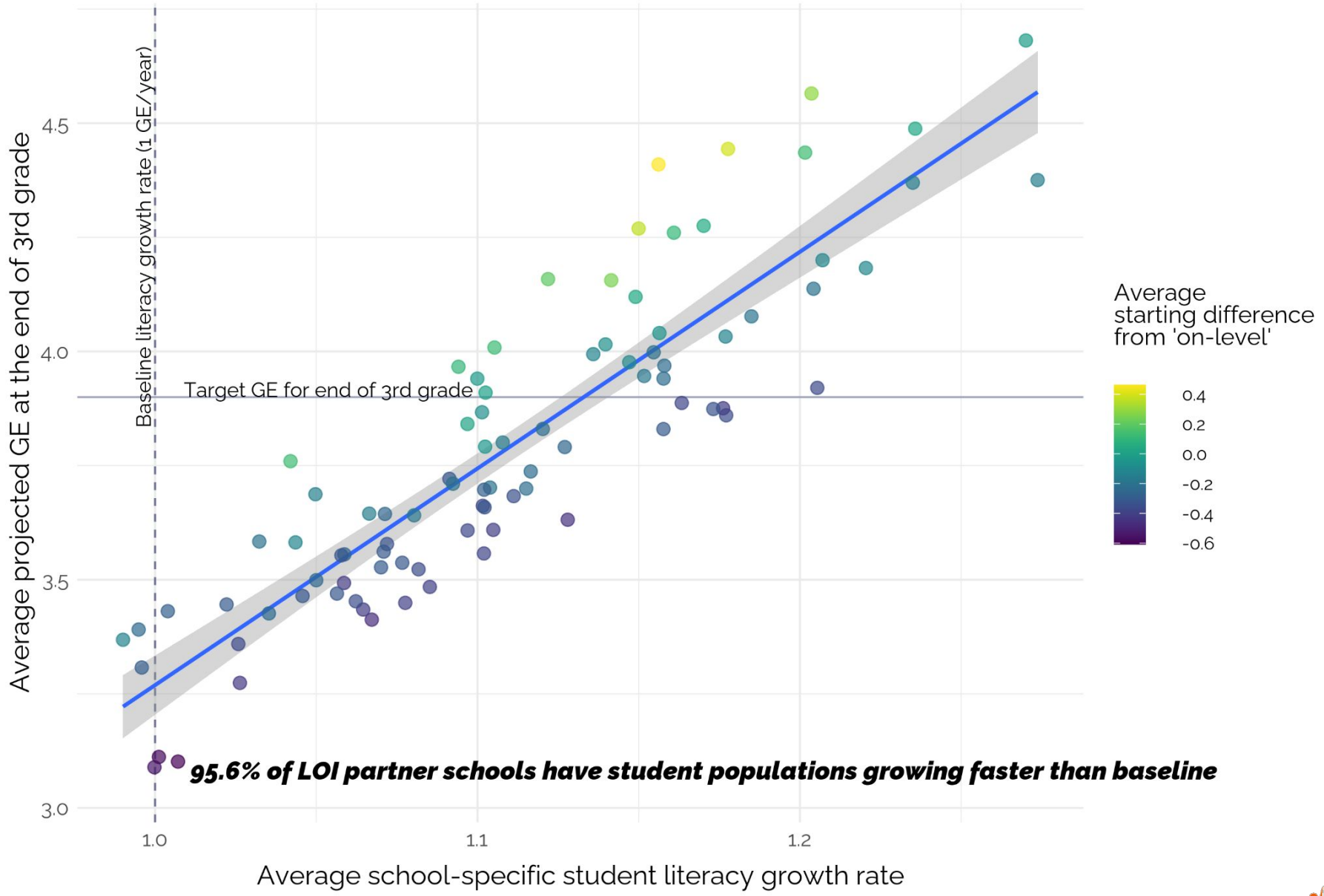
Determinants of GE at end of 3rd grade, school-level:

Learning Ovations

Schools with faster literacy growth rates have higher projected GEs, which are also influenced by the starting literacy levels of students

(all districts - preCV (all schools))



97.9% of variation (at the school-level) in average projected GE at end of 3rd grade can be explained by the combination of growth rate & starting literacy level.

Learning Ovations

We analyzed data from **21,772 students** in **90 schools** across **17 districts** and **4 states** in an attempt to understand how the important work being done in classrooms contributes to efforts and interventions that take place outside of the classroom. We used student literacy *growth rates* as our measure of student learning taking place in classrooms, and student literacy *starting points* as our measure of learning *prior to* and *outside of* the classroom. End-of-3rd grade literacy at the level of individual schools was our measure of student outcomes.

We found that the combination of literacy growth rate & starting literacy level explain 98% of the variation in end-of-3rd grade literacy levels among partner schools. We can break down the relative contribution of these two variables via hierarchical partitioning (Lindeman et al. 1980; Chevan & Sutherland 1991) and multiply the resulting 'relative importance' values by 98% to determine the percentage contribution of each factor.

Our analyses suggest that student literacy *growth rates* accounting for 60% of the variation in student outcomes, reflecting learning in the classroom. In contrast, we found that student literacy levels upon entering school (*starting points*) account for 38% of the variation in student outcomes and reflecting learning *prior to* and *outside of* the classroom (i.e. the community).

References

Chevan A, Sutherland M. 1991. Hierarchical Partitioning. The American Statistician. 45: 90-96
Lindeman RH, Merenda PF, Gold RZ. 1980. Introduction to Bivariate and Multivariate Analysis. Glenview, Illinois: Scott Foresman & Co.

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