Reimagining Rural Education





ABDUL LATIF JAMEEL Poverty Action Lab

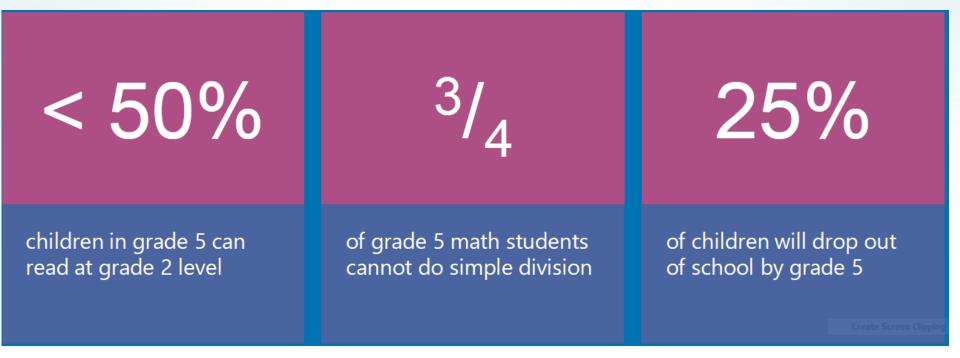
TRANSLATING RESEARCH INTO ACTION







Problem – Lack of Quality Education



Sources: ekstep.org, ASER Survey, 2014, Educational Statistics at a Glance (2010-2011)



Speculation on the Current State of Education

Lack of Quality Teachers

- High rates of teacher absenteeism
- Unmotivated teachers
- Poor qualifications
- Lack of Quality Content
 - Content is not standardized across grades
 - Textbooks utilize poor pedagogy
 - Teachers lacking strong supplemental material
- Lack of Support Systems
 - Parents lack literacy to provide support
 - Tutors too expensive for most families
 - Once a student falls behind, its difficult to catch up



Past Approaches to Attempted Solutions

- Past approaches to improve education quality
 - Improving classroom inputs like textbooks or class aides
 - Giving teachers performance-based incentives
 - Training or hiring more teachers
- Rigorous testing shows that past approaches have delivered limited results
 - Demonstrated little impact
 - Too expensive to implement
 - Difficult to scale

Research argues for solutions with new approach*

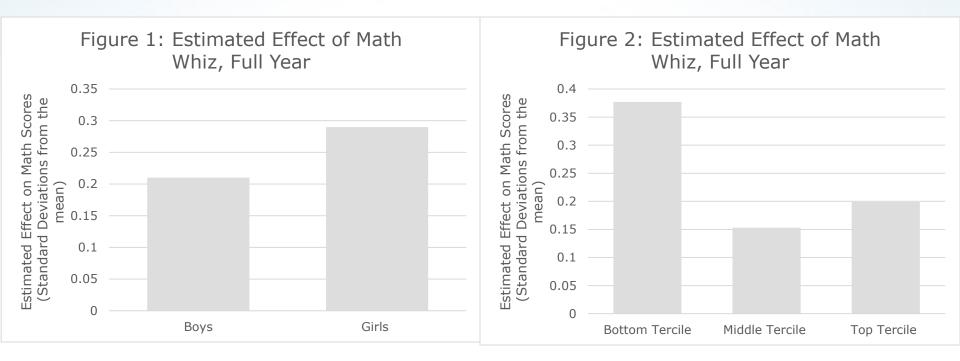
- Allowing for diverse student ability and remedial training within each grade
- Content that is unaffected by teacher quality or high teacher turnover

*Glewwe and Kremer, Handbook on the Economics of Education 2006; Banerjee and Duflo, Poor Economics, 2011

Pixatel's Solution

- A novel tablet-based learning platform that provides children with dynamically tailored adaptive content suitable to their individual learning level
- Enables daily practice and testing to enable mastery of each topic learned
- The platform runs on inexpensive tablets and does not require constant electricity or Internet or computer literacy among teachers
 - Auto-generated metrics show teachers which students most in need of attention in real time

Large Learning Gains for Students with Tablets - 2015 Full Year Results





Adaptive Learning Delivers Positive Results in Field Implementation

- Large increase in learning outcomes for bottom tercile of students and girls
- Tablets help teachers use classroom time more effectively
- Student non-cognitive skills improving
 - Real time feedback improving student confidence
 - Greater self-esteem and more focused attention
 - Disruptive students are more engaged and calm
 - Tablets helping overcome "math-phobia"
 - Habits for life-long learning developing



Thank You

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