

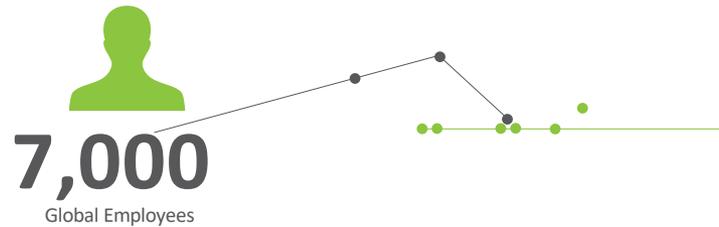


# 8th International Skills Forum Future of Skills and Jobs in the Age of Digital Disruptions

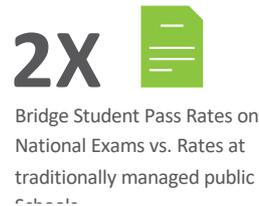
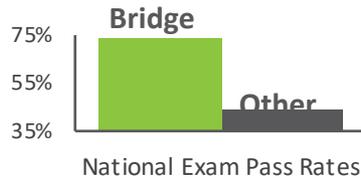
27-29 August 2019 • Asian Development Bank, Manila, Philippines



Cloud-Powered Scaling Architecture for Learning Delivery



Snapshot



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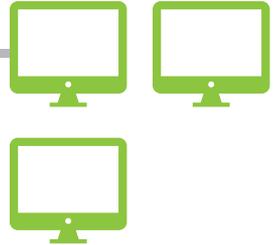
**1B**  
data points  
collected annually

- Teacher Attendance
- Student Attendance
- Lesson Start/End Times
- Lesson Completion
- Student Exam Data

# Enabling data from classrooms to drive school and system level decisions



Custom, Android e-ink tablet delivers digital teaching guides to every teacher



IT support, device repair, and replacement all within the State

Head teacher smartphone creates ERP platform to support school and communicate with central office



## Low Infrastructure Optimization for challenging infrastructure and environments



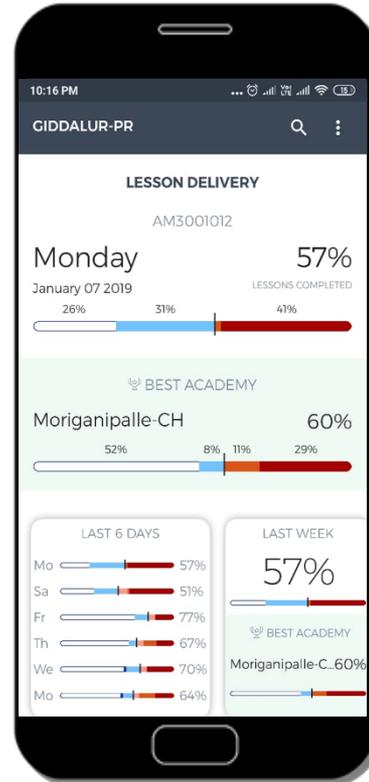
**Low Electricity**  
Tablets work up to five days on single charge

**Low Data Access**  
Only a single device that needs 2G connection

**Data Caching**  
System requires only 20 mins. of daily active connection



# Put the analysis in the hands of educators, Policy makers, principals and coaches



Kenya Isinya-KAJ

PUPIL TO TEACHER RATIO



ACADEMY RESOURCES



DEVICE TRACKING



FACILITIES INVENTORY

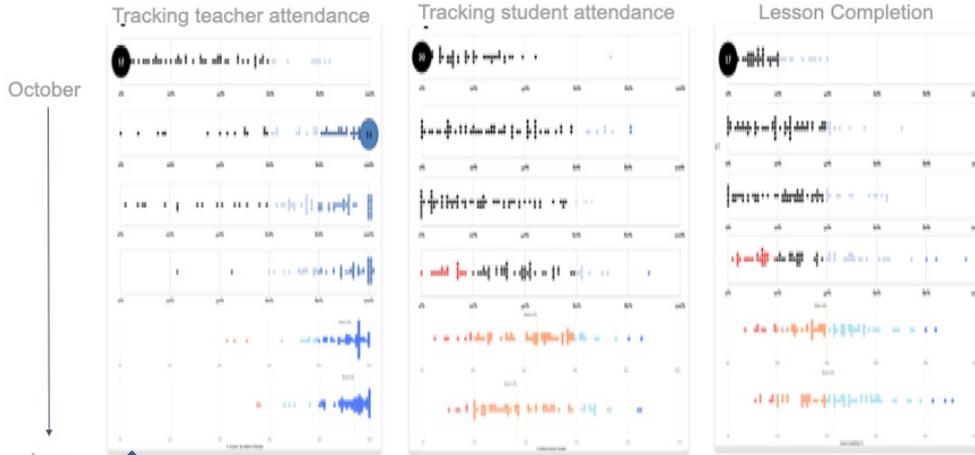


COMMUNITY INFORMATION

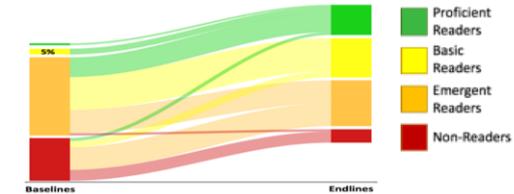




# Our Learning Impact



## % of Proficient Readers increased by 23x from baseline

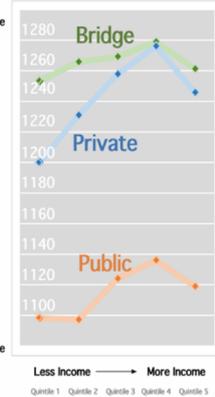


## 4x children reaching fluency in Liberia after 4 months

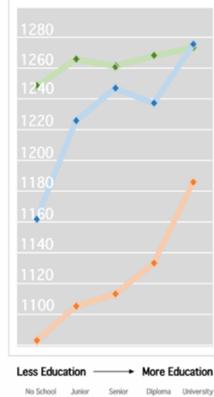


Liberia - Operational consistency led to learning impact

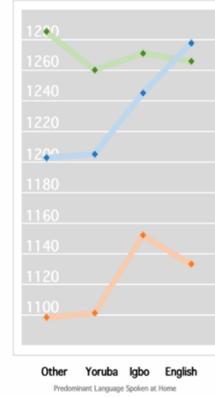
Impact of Parental Income on Literacy & Numeracy Performance



Impact of Parental Education on Literacy & Numeracy Performance



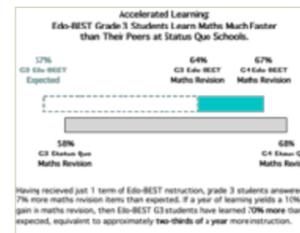
Impact of Home Language on Literacy & Numeracy Performance



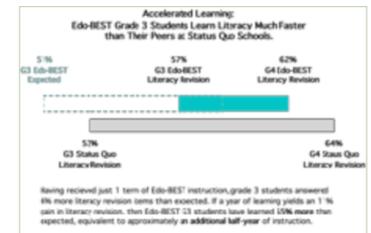
Higher Performance  
Lower Performance

4 In first 2.5 months, gains by students in EdoBEST were equivalent to:

Math ↑ 70% of a year worth of instruction



English ↑ 55% of a year worth of instruction



Equity: In these graphs, the slopes of each line tell an equity story; the flatter the line, the more equitable are performance outcomes across each family background characteristic.

Nigeria - Equity in Learning – Bridge is a social justice movement; Bridge replicates learning effects in complex public systems



# Partnering with Governments



## 1) System Transformation

- Radical learning gains across all schools in the system
- Teacher and head teacher Training & Continuous Professional Development Programs
- Institutionalize Academic Monitoring, Observation, and Feedback to drive work planning and goal setting
- Teaching and Learning Materials for teachers and pupils
- Technology platform, dashboards and system wide performance monitoring



## 1) System wide Teacher Transformation

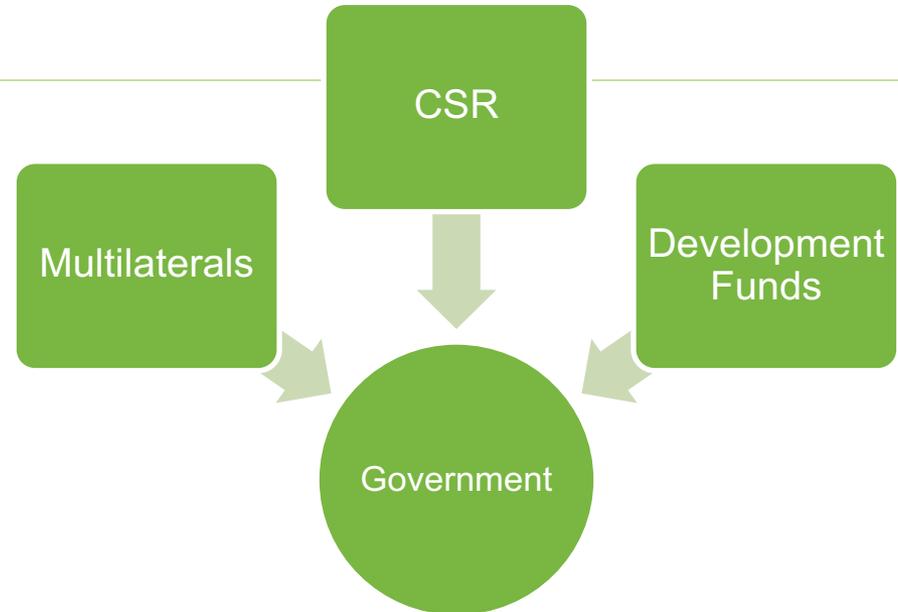
- Teacher selection & recruitment
- Institutionalize Teacher Training & Continuous Professional Development Programs
- Institutionalize Academic Monitoring, Observation, and Feedback
- Teaching and Learning Materials
- Assessments and Monitoring Learning Gains for Pupils
- Institutionalize Teacher performance based on learning gains



# Government led funding to create globally competitive Government schools



Building Sustainable Models Of Funding



- Governments Should Own And Drive The Agenda For Investment Into Partnerships
- Governments Should Primarily Invest And Other Agencies Should Supplement
- Partners Could Start With Increased Investment And Bring It Down To Per Child Spend Equivalent To Government