

Evaluating Impact: Turning Promises into Evidence

Liberia GPE Ministry of Education Team
Supplementary Readers and Teacher Training Evaluation

Ann-Dora Gbormie, Albert Coleman, David W. Baysah,
Abraham Dagher, Khalipha Bility, Gabriel L. Nelson,
Anthony A. Nimely, Douglas Sumerfield, Owen Ozier

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1a. Intervention - Background

❑ Background:

- ❑ Reading level is low in Liberia

- ❑ There are almost no textbooks/reading materials in schools

(In a recent visit, in the county seat, a school had a library. But in two other nearby schools, not a single book could be found!)

- ❑ There is now a policy push towards reading

- ❑ There are limited pilot activities (for example, LTTP with EGRA in some counties; LET ~36 schools; Read Liberia; etc.)

- ❑ But the Global Partnership for Education (GPE) is providing national-level coverage.

1b. Intervention Summary

❑ GPE provides a packet of 8 “supplementary readers” to each of Grades 1 through 4, with a ratio of 1 packet for every 3 students, **nationwide: every public school in every district. January 2014.**

❑ Intervention

❑ We propose to randomize and evaluate the teacher training that is meant to accompany the readers.

❑ The training is still being developed, but it is anticipated to roll out in a cascade over one month, and for a particular teacher training, it may last a few days to a week.

❑ The training instructs teachers in how to incorporate the new supplementary readers as teaching and learning aids; assist students with word recognition; provide illustrations; etc.

2. Results Chain



- Supplementary readers OR supplementary readers and teacher training
- Distribution of supplementary readers;
- Training of teachers;
- Sampling facilities and teachers
- Supplementary reader for every 3 children;
- This influx of books means more books in the school than before.
- Teachers trained
- Teachers teach differently with new techniques to reinforce the supplementary readers, as well as the culture of reading.
- Readability improved among students (words read per minute, for example)
- Spillover benefits for other subjects; theoretically enhance learning in every subject.
- Better preparation for grades 5-9, where textbooks are also provided by GPE in 4 core subjects.

3a. Research Questions

❑ **What is the impact of teacher training (in how to use new supplementary readers) in different types of districts on different literacy-related outcomes?**

❑ Types of areas:

High-literacy versus Low-literacy

Literacy is measured in census data aggregated by district. If no literacy statistics are available, the district average WAEC score can be used to partition Liberia into High-WAEC and Low-WAEC districts. (This might be a similar partition.)

Urban versus Rural

Urbanization also measured in census data at district level.

3b. Research Questions

□ What is the impact of teacher training (in how to use new supplementary readers) in different types of districts on different literacy-related outcomes?

□ Outcomes:

Letter recognition

Readability

Word recognition

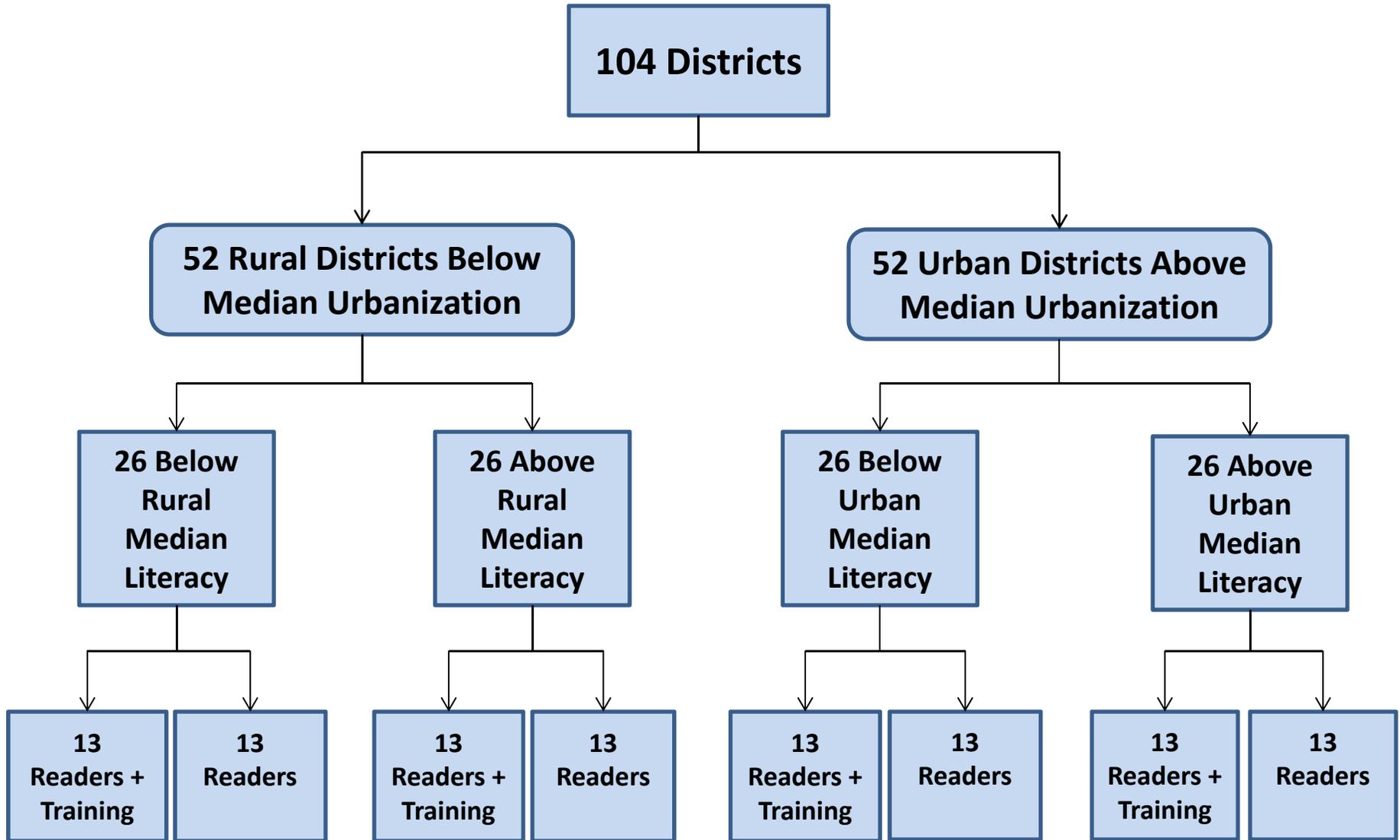
Reading comprehension

etc.

4. Impact Evaluation Design

- ❑ **Stratified randomization at the district level – see diagram:**

Stratified Randomization Model



5a. Sample and Data: Outcome Data

Outcome data:

Measures relating to literacy

- Letter recognition
- Word reading
- Sentence reading
- “Readability”
- Comprehension

Measures of other subjects – spillovers? *Not yet decided.*

5b. Sample and Data: Process Data

We want to be able to interpret our results meaningfully. Were there breakdowns in the delivery process? The training process? Are teachers using what they learned?

Process/monitoring data:

- Delivery records of supplementary readers
- Attendance records of trainings at all levels
- Later school visit data:
 - Pedagogy: do teachers reinforce readers? Teach phonics? How much instructional time is devoted to reading?
 - Supplies: are all readers still present? Where are they? Locked? Available?

5c. Sample and Data: Sampling

- ❑ Some issues remaining:

- ❑ SAMPLING

- ❑ How many schools per district to sample?

- 2? 4? How many? Power calculations still needed.

- ❑ How many pupils per grade to sample?

- 5? 10? 15? Power calculations still needed.

- ❑ Which grades to sample?

- Grades 1, 2, 3, 4 are “treated” versus “comparison,” but we might also consider Grade 6 or Grade 7 to provide something like the “1996 vaccination rates” did in the JPAL Vaccination example.