







Impact Opportunities 1: Inputs or Accountability? How to improve the supply of education services?

E-Readers in Nigeria

Shwetlena Sabarwal
World Bank

Dakar, Senegal Monday, September 30, 2013

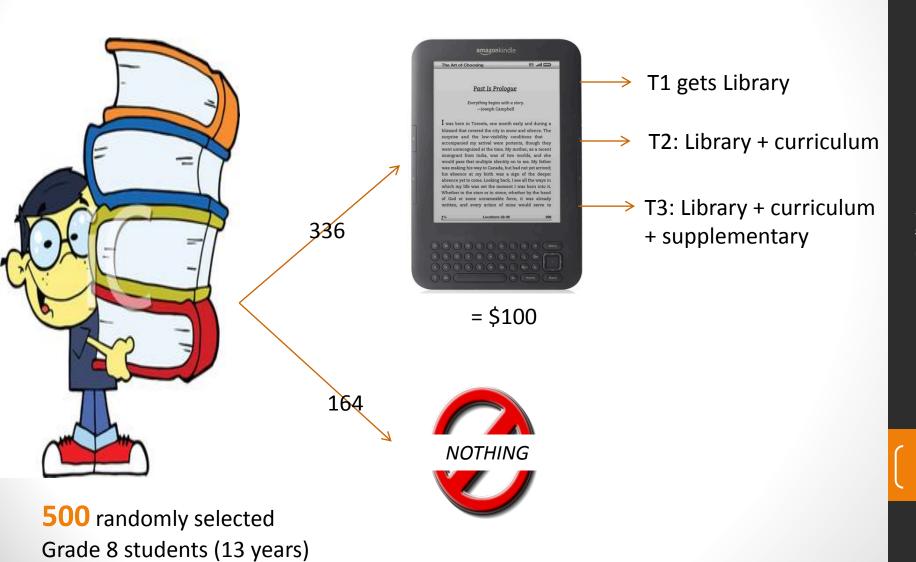
Re-Kindle-ing Learning

E-Readers in Lagos

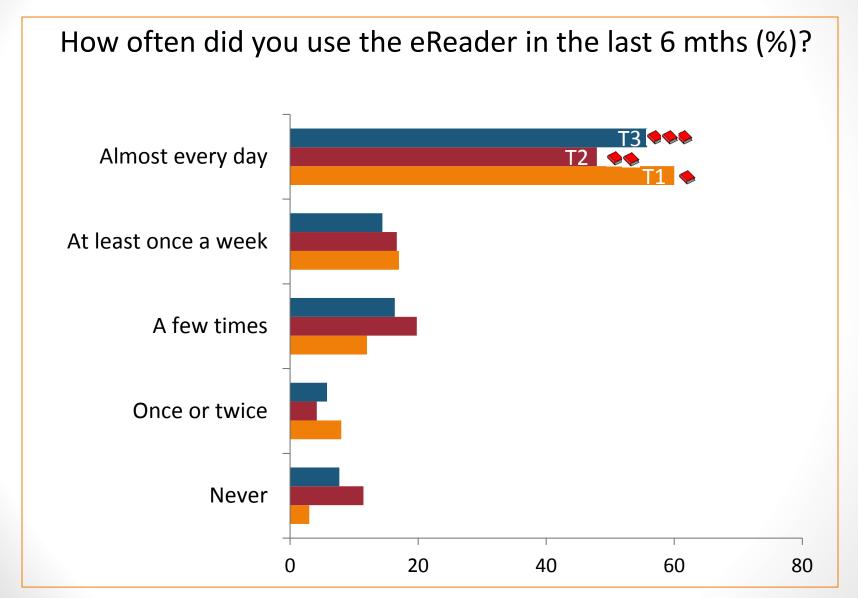
James Habyarimana & Shwetlena Sabarwal (with Michael Koenig & Marito Garcia)

Can digital technologies be used to improve learning in Africa?

We test this



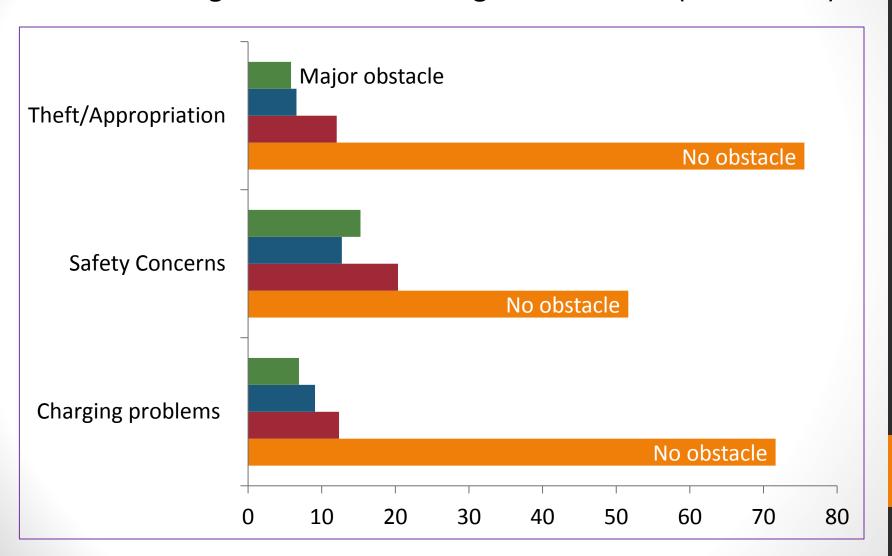
& YES, THEY CAN



Note: T1 higher than T2 (at 5%)

YES, THEY CAN

Is the following an obstacle to using the eReader? (% students)



YES, THEY CAN

In Six months, sig impacts:

- On 'non-verbal' intelligence (raven's matrix) for T 2
- On reading comprehension for students with low reading outcomes at baseline for T 2

But technology is just a vehicle



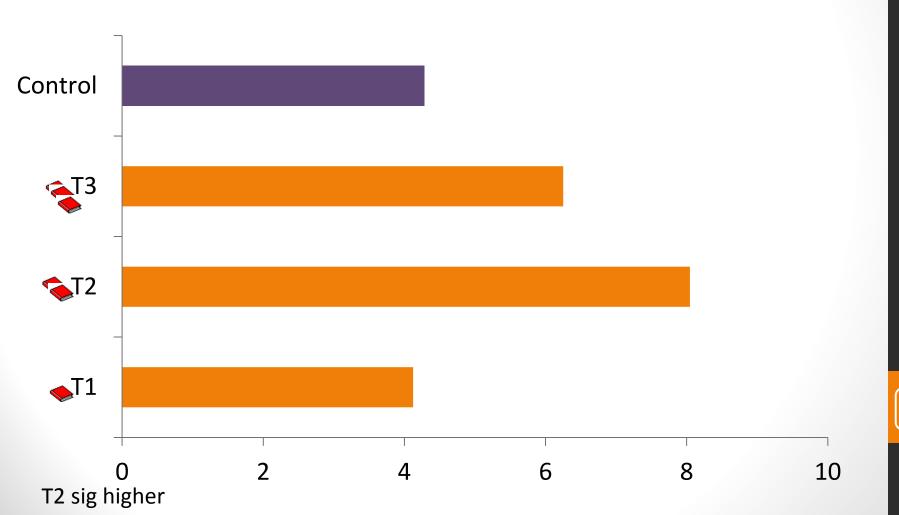
& content is king

Learning impacts confined to group with curriculum material

... However, cool technologies can provide an advantage

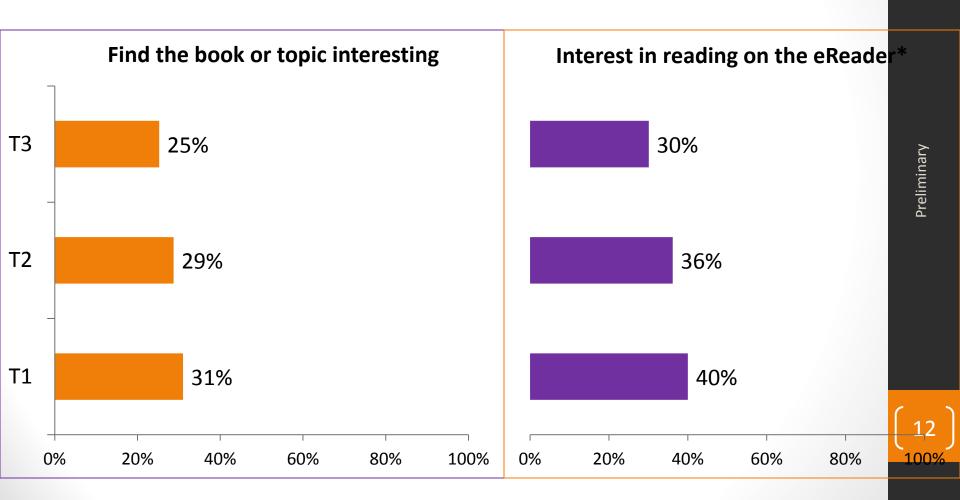
They appear to shape student aspirations

% of students with improved educational aspirations



They can promote desired behavior – the 'Gadget Effect'

What motivated you to <u>read</u> in the last mth?



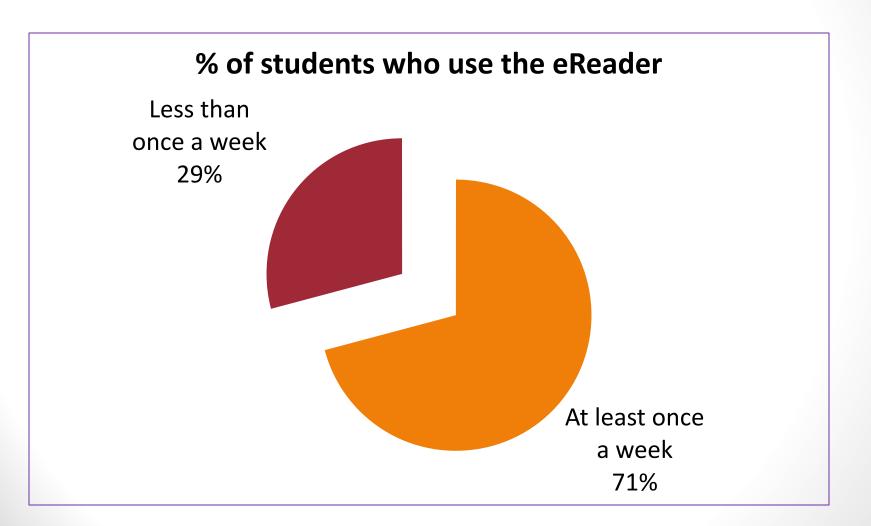
*: T3 sig lower than T1 (at 5%)

Its time to think about targeting students directly

AND NOT JUST THE SYSTEM

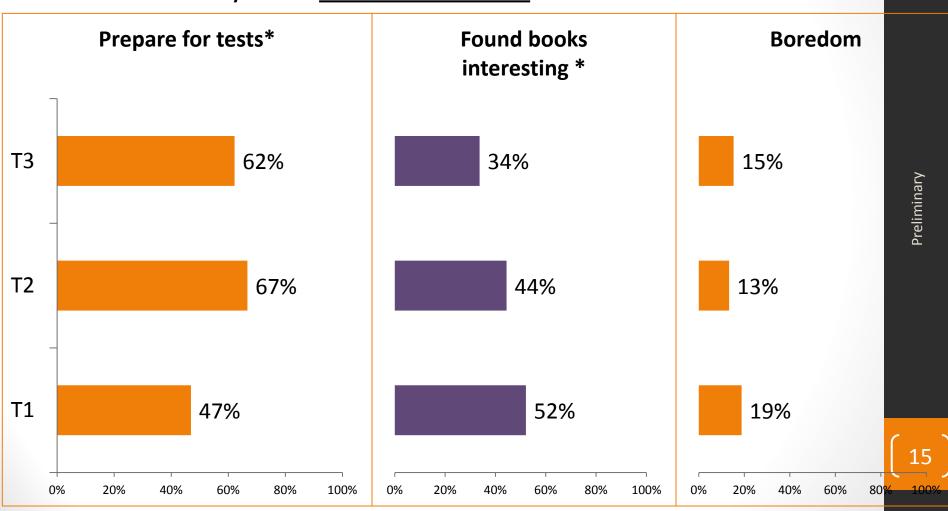
To better exploit margins on student effort

No teacher training provided but ...



& this does not imply only recreational use

What motivated you to use the eReader in the last mth



*: T1 diff (at 5%)

So the idea is ...

We can leverage digital technology for education in urban Africa

For learning impacts:

- Content is key
- Student interest/effort is a dimension on which margins exist

Results are promising &:

- Prices are
- Ecosystem is ←→



Opportunities for:

- Student-centered learning approaches
 - Teaching what the system can't or won't
 - Impacting student effort/aspirations
 - Possibilities for remedial instruction
- Need to test:
 - variety of content +
 - diagnostics and feedback