Track & Trace Books

John Snow, Inc.
World Education, Inc.
Improves the community’s visibility into the location of textbooks and other teaching materials during the distribution process empowering parents and teachers with the information needed to advocate for improved supply chain performance.

In 2016 a prototype was created and a small field test conducted in Malawi in two schools in collaboration with World Vision, USAID and the Malawi Ministry of Education. Field test demonstrated the usability of the system and got positive feedback from schools and the community.

Track and Trace System Malawi

Shipment entered at central level

Shipment are assigned a barcode, scanned into the system, and depart for delivery

Upon arrival at intermediary site, SMS status update is sent to system

Books delivered to final destination
Delivery is confirmed when “received” SMS is sent

Registered Parents get “delivered” SMS

Google Map of Malawi with marked locations and data table showing shipment details.
In Cambodia WEI and JSI was awarded an 18 month (July 2017 to December 2018) contract to scale Track and Trace to 400 schools and add results based financing to the model.

WEI and JSI are working with the Ministry of Education, Youth and Sport (MoEYS) and local implementing partners to design, adapt and implement.

To date project has conducted a baseline assessment and mapped requirements with MoEYS and Printing and Distribution House. Training is set to start in March 2018.

TnT will provide data for results based financing and incentives, for
  • Monitoring the performance of the distributors
  • Incentivizing School Committees based on their engagement with the system
**Track and Trace System Cambodia**

- **TnT** calculates book projections reducing calculation errors.
- **MoEYS** will have book requests immediately and can then use for next year budget.
- **SDs** report receiving delivery.
- **SSC** confirms delivery and spot checks classrooms.
- **Schools** can report delays, missing books or damages quickly and easily.
- **PDH** delivers to **DOE**.
- **TnT** allows **MoEYS** and **PDH** to track location and timing of deliveries in real time.
- **TnT** calculates book projections, reducing calculation errors.
- **Schools** collect data and submit actual numbers.
- **District** reviews and approves.
- **Province** calculates book projections and reduces calculation errors.
- **MoEYS** reports when dispatched from warehouse.
- **PDH** reports receiving delivery.
- **DOE** reports quantities issued to schools.
- **School Support Committee** reviews and approves.
- **SDs** report receiving delivery.
- **TnT** calculates book projections, reducing calculation errors.
- **MoEYS** will have book requests immediately and can then use for next year budget.
- **SDs** report receiving delivery.
Cambodia digital feasibility assessment revealed that

- 75% of school directors own smartphones, and use it for Facebook and other messaging.
- School committee members only 20% smartphone, 68% basic phone and 0% use SMS
- Fully cloud-based data storage, accessible from anywhere in the world with an internet connection
- Alerts on delays or missing orders displayed on dashboards or sent to users via email, messenger, voice or SMS
- Use of barcodes for easy reporting
- Simple Android based app (Taroworks) to collect and store data online and offline
- Basic chat-bot or SMS based reporting and interactive voice queries / notifications for community levels