Tracking and Tracing Books in Malawi: All Children Reading Grand Challenge

- In 2015 JSI and WEI was awarded a All Children’s Reading Grand Challenge* grant to create a technology solution that

**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.

*Funded by USAID, Australian Govt, World Vision - https://www.omnicompete.com/trackingandtracingbooks.html*
Track and Trace System Malawi

1. Shipment entered at central level
2. Shipments are assigned a barcode, scanned into the system, and depart for delivery
3. Upon arrival at intermediary site, SMS status update is sent to system
4. Books delivered to final destination
5. Delivery is confirmed when “received” SMS is sent
6. Registered Parents get “delivered” SMS
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
School District submits actual numbers. Province reviews and approves. PDH delivers to DOE. School collects and reports receiving delivery. DOE reports quantities issued to schools. SDs report delivery and spot checks classrooms. Schools can report delays, missing books or damages quickly and easily. MoEYS will have book requests immediately and can then use for next year budget. TNT calculates book projections reducing calculation errors. MoEYS calculates book projections reducing calculation errors. TNT allows MoEYS and PDH to track location and timing of deliveries in real time. TNT calculates book projections reducing calculation errors. MoEYS calculates book projections reducing calculation errors. TNT allows MoEYS and PDH to track location and timing of deliveries in real time. School Support Committee revitalizes SSCs giving them a role in textbook distribution. SSC confirms delivery and spot checks classrooms. PDH reports when dispatched from warehouse. PDH reports quantities issued to DOE. TNT calculates book projections reducing calculation errors. MoEYS calculates book projections reducing calculation errors. TNT allows MoEYS and PDH to track location and timing of deliveries in real time. TNT calculates book projections reducing calculation errors. MoEYS calculates book projections reducing calculation errors. TNT allows MoEYS and PDH to track location and timing of deliveries in real time.
Track and Trace System

- 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

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