



THE OPPORTUNITY, TECHNOLOGY AND CALL FOR A
**GLOBAL EDUCATION MATERIALS TRACK
AND TRACE INFORMATION LEDGER**

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Asset deployment in development

Deployment of assets is a critical aspect of many development and humanitarian programs

- Programmatic assets: vaccinations, books, food baskets, etc.
- Operational assets: vehicles, generators, computers, etc.

Education asset deployment

Creative has for decades deployed education assets in donor-funded projects, such as teaching and learning materials (TLM).

We are currently via USAID projects, delivering millions of books in: Afghanistan (ACR), Nigeria (NEI+), Ethiopia (READ II), and Mozambique (Vamos Ler!).





Asset deployment issues in education

- Don't know if items are received by intended target.
- Items not delivered on time, or in the right condition, or right quantities, for various reasons including corruption.
- Solutions are fragmented, project dependent and are reinvented from project to project, donor to donor, etc.

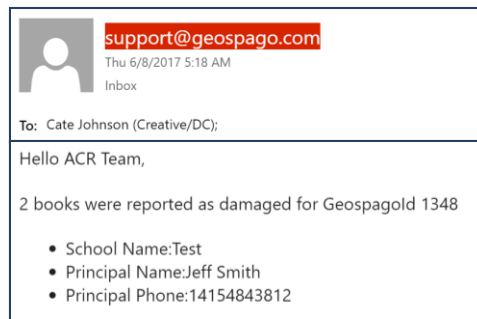
Solution: Asset Tracking

- Tracking systems (aka Track & Trace) provide a solution to alleviate some of these issues
- Creative partnered with GraphLI, to customize a digital asset tracking product for development needs – Creative Track & Trace

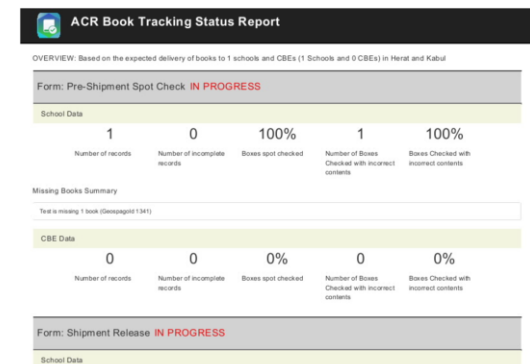
Blends mobile-app based and SMS-interaction technologies to facilitate data collection that provides confirmed book deliveries, and specific, actionable, and automatic report and alerts in real time



Mobile Apps/SMS



Notifications



Dashboards



Asset deployment issues in education

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What is distributed ledger technology?

Shared immutable ledger for recording the history of transactions implemented in a distributed fashion



The blockchain database isn't stored in any single location



No centralized version of this information exists for a malicious actor to corrupt or alter



Hosted by all members of the blockchain simultaneously, its data is accessible to all

Why is blockchain important for education asset tracking?



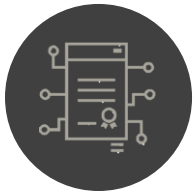
1. Trust platform

Distributed ledger database that is shared, replicated, and synchronized among the members of a network

Trust is inherent in blockchain architecture

Increased trust among stakeholders by access to immutable data – for example: donor, implementer, ministry, printers, deliverers, schools, community etc.

Why is blockchain important for education asset tracking?



2. Automated incentives and rules

Immutable data ledger records the transactions, such as the exchange of assets or data, among the participants in the network

Provides a platform where rules and incentives can be automated via **smart contracts**.

Can set up automated Results Based Financing (RBF) for incentivizing desirable behavior such as on-time delivery, automated rules such as validation against terrorist list.

Why is blockchain important for education asset tracking?



3. Standard information layer

A distributed ledger is essentially a database or information layer, and not a consumer software solution

Different solutions can connect to the ledger

Different vendors can connect to the ledger, to have a global aid assets ledger to provide learnings across projects, and data sustainability for governments

Demo introduction

Modelled on the Track and Trace processes to deliver books to schools in Afghanistan as part of the USAID Afghanistan Children Read project

- Deployed since 2017
- Partnered with Ministry of Education
- Tracked delivery of over half a million books.



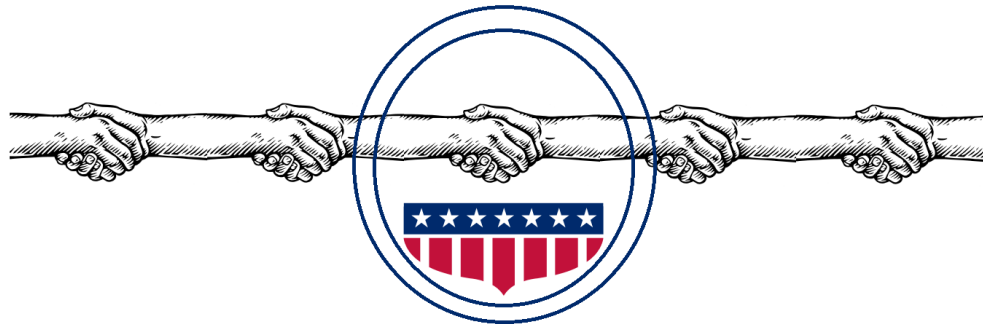
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Creative and GraphLI present:

AidChain*

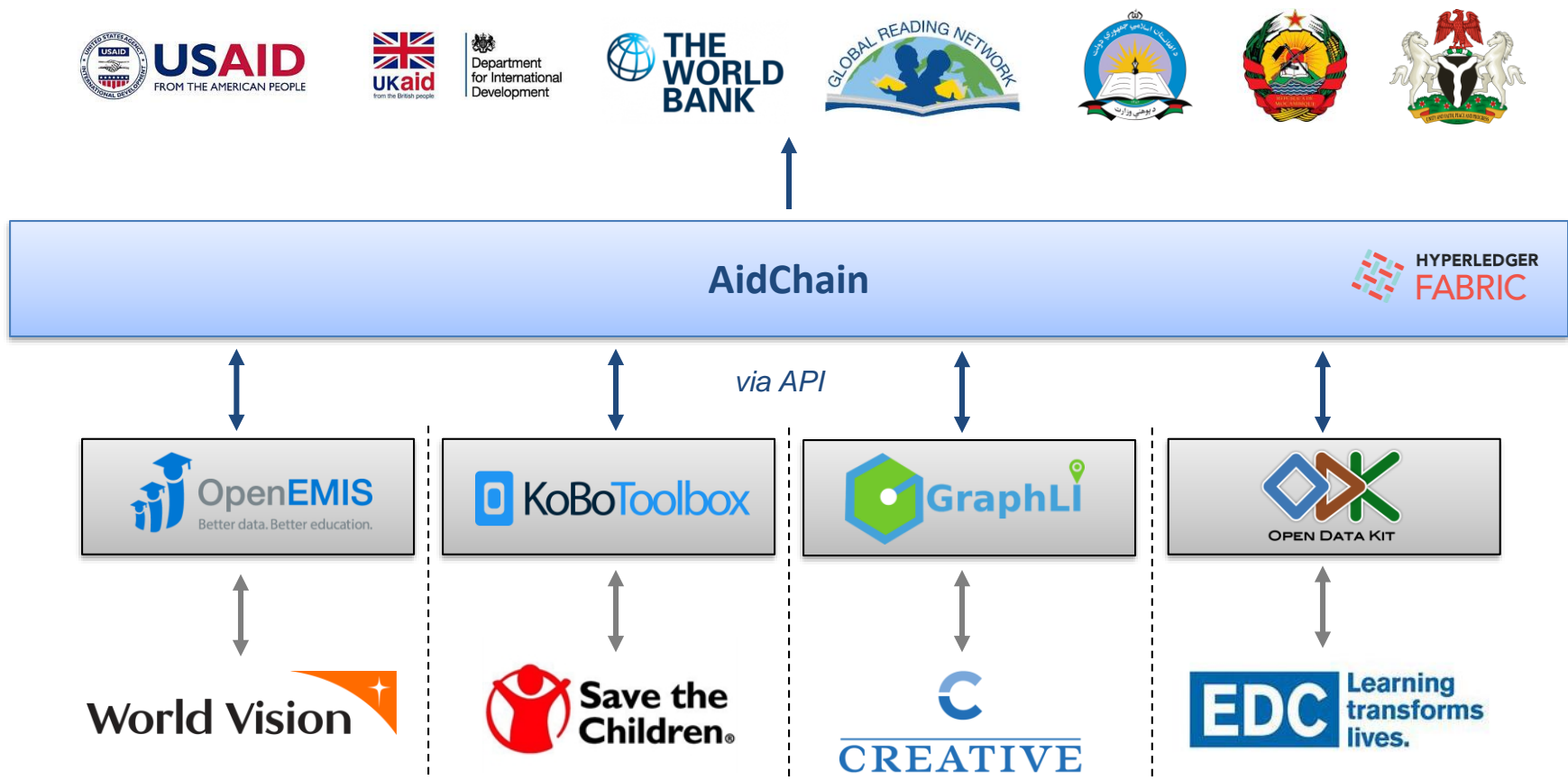
The first shared distributed ledger for donors, implementing partners, and governments to track education materials and aid assets globally



* Name and logo to be determined



Vision for development coordination





Asset deployment issues in education

- ✓ Know whether items are received by intended target.
- ✓ Rules can be automatically implemented to deliver on time, in the right condition, in right quantities to validated targets.
- ✓ Shared data across projects, donors, implementing partners, etc. that can promote learning.



Road Map

Phase	Activity	Benefits
1	Pilot	Establish case study on benefits compared to traditional asset-tracking systems
2	Connect other data tools	More comprehensive development solution, allowing stakeholders greater visibility into projects
3	Sign on other IPs	Begin to realize opportunity of having one digital information ledger for donors to track aid assets
4	Transition to donor consortium	Provides all IPs and donors single aid assets information ledger to work on, report from and learn

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**THANK YOU
QUESTIONS?**

