

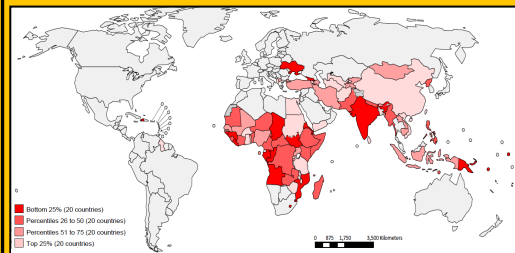
GOING FORTH

CAN ORCHESTRATION OF INFORMAL TRANSPORT TRANSFORM EPI AT SCALE?

SUPPLY CHAIN | HEALTH FINANCING | HUMAN RESOURCES FOR HEALTH | SYSTEM REDESIGN | DATA FOR MANAGEMENT | GOVERNANCE | DECENT WORK

BACKGROUND

85% OF EPI COUNTRIES HAVE SUBSTANDARD DISTRIBUTION



FORMAL LOGISTICS MARKETS ARE FRAGMENTED & UNREADY FOR EPI

MARKET/SUPPLY CHALLENGES

REACH. No third-party logistics (3PL) provider can reach all RI; 87% of facilities are rural, underserved.

EXPENSE. Building new fleets dedicated to EPI is expensive, hard.

INTEREST. The business case for in-country EPI distribution unproven.

GOV'T/DEMAND CHALLENGES

COMPLEX. New, difficult admin burdens: sourcing, contracting, monitoring, paying 3PLs.

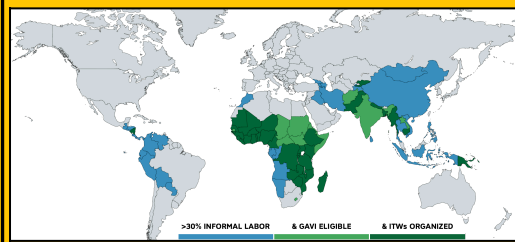
FRACTURED. Purchasing power weakened dividing by admin area.

SILOED. EPI shoulders full cost of dedicated fleet and administration

3PLs NEITHER ABLE NOR INCENTIVIZED TO PROVIDE SOLUTIONS THAT SCALE, SUSTAIN

STATES LEFT WITH DISTRIBUTION SYSTEMS THEY CAN NEITHER AFFORD NOR MANAGE

YET THESE SAME MARKETS HAVE LARGE SURPLUSES OF INFORMAL TRANSPORT WORKERS (ITW)



THESIS

UPSKILLING & ORCHESTRATING ITWs AT SCALE WITH MOBILE TECHNOLOGY CAN ENABLE

1. Consolidation of national delivery needs under a single control tower
2. New implementation cost-sharing
3. High-value Decent Work

RESEARCH QUESTIONS

- ▶ Are ITWs ready, willing, and able to perform compliant, cost-effective vaccine deliveries?
- ▶ Could it create sustainable shared value for all stakeholders?



METHODS

USER, FIELD, MARKET RESEARCH

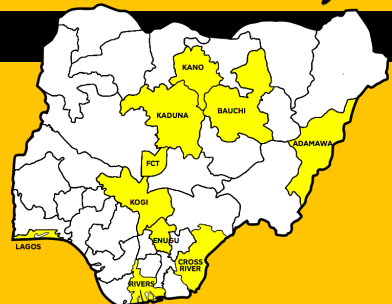
Structured observations, KAP surveys, dispatch simulations, and vaccine-handling pre-testing in 10 states in Nigeria (n=100)

STAKEHOLDER MAPPING

Key informant interviews at National Union of Road Transport Workers (NURTW), National Primary Health Care Development Agency (NPHCDA), and UNICEF

FINANCIAL MODELING

Supply chain modeling and simulation

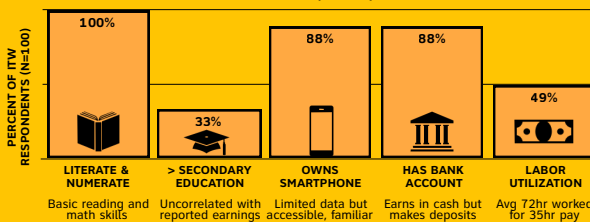


WHY NIGERIA?

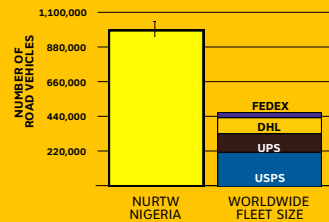
Nigeria has over 1m ITWs, the second highest child-mortality rate in the world, and the greatest inequality in vaccine access.

FINDINGS

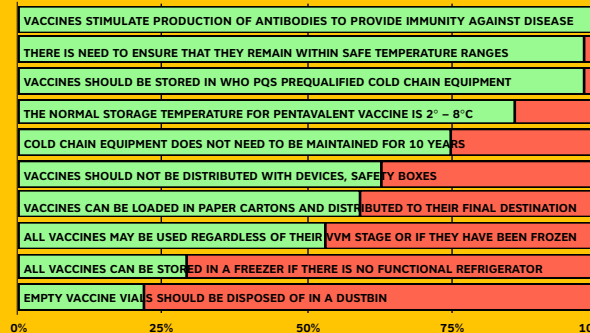
CAPABILITIES OF NIGERIA'S ITWs (2016)



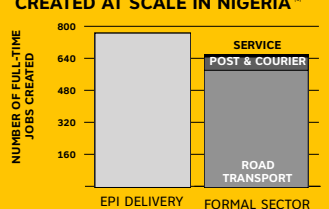
NIGERIA ITWs & LEADING FLEETS



VACCINE MANAGEMENT PRE-TEST OF ITWs



NEW FULL-TIME TRANSPORT JOBS CREATED AT SCALE IN NIGERIA



HIGHLY COST EFFECTIVE
With technology to train and orchestrate in place, engaging extant ITWs exhausts little to no cap-ex, scales rapidly, and operates at or below the current benchmark of 4.3% of program costs in the first 12 months.

CONCLUSIONS

READY, WILLING & ABLE Research found a population equipped with the tools and enthusiasm to learn and serve EPI. The size, interest, and availability of the Nigerian ITW "fleet" merit further exploration to determine the exact role of this potentially high-value stakeholder.

PRO-EQUITY The consolidation that a ubiquitous, centrally orchestrated fleet of ITWs presents could turn distribution into a tool for equity, simplifying and availing implementation financing to put the benefits of outsourcing within reach for even the poorest districts. It further augments existing private-sector outsource models with an exemplar form of tripartism, availing EPI to new local and global stakeholders.

PROGRESS Building on the research Field Intelligence has entered into an agreement with the NURTW in Nigeria to bridge its membership to health logistics, which is currently being tested in essential medicines and scaled to vaccines in 2018.

REFERENCES

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- [3] Assumes outsourcing is net-positive with no loss of civil servant job and replaced with full-time equivalent jobs for ITWs. Extrapolates 2015's quarterly job creation data in Nigeria for an annualized forecast. Employment (Job) Creation Survey, 3rd Quarter 2015, Nigeria, November 2015.
- [4] "World Employment Social Outlook", International Labour Organization, Geneva, 2016.
- [5] "Health system cost of delivering routine vaccination in low- and lower middle income countries: what is needed over the next decade?" World Health Organization, 2014.
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- [7] "Achieving immunization targets with the comprehensive effective vaccine management (EVM) framework." WHO/UNICEF Joint Statement, 2016.
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- [12] National Union of Road Transport Workers, www.nurtwng.com, 2016.