

From Data to Metrics

Multi-Country Vaccine Supply Chain Cost and Performance Benchmarking

 **Gabriella Ailstock**, Tapiwa Mukwashi, Joseph Roussel, Dorothy Thomas

INTRO

Benchmarking is the practice of assessing costs, processes and/or performance across comparable entities.

VillageReach is establishing an vaccine supply chain (iSC) cost and performance benchmarking database that empowers stakeholders to use standardized references to evaluate iSC cost and performance against peer groups.

METHODS

1. Literature review and project scoping through key informant interviews with broad iSC stakeholder group.
2. Protocol developed and reviewed by 33 stakeholders.
3. Data collection methodology and tools developed, using Microsoft excel.
4. Data collection tools and processes piloted in 1 East African country at 2 sub-national levels.
5. Data collection tools refined and tested in 2 additional Sub-Saharan African countries

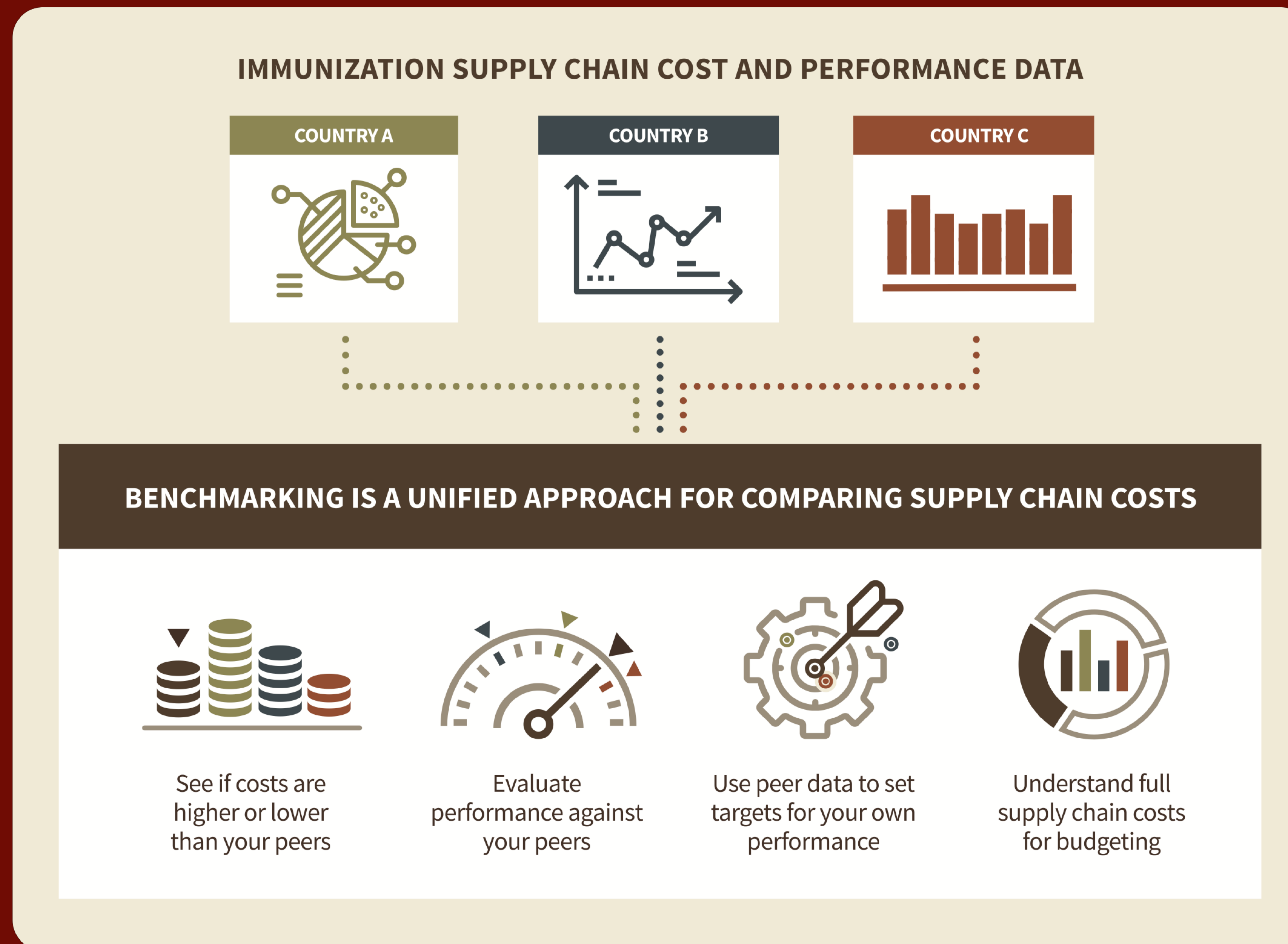
RESULTS

- Due to inconsistencies in data quality, data availability and costing approaches, leveraging secondary data collection to obtain cost data a limiting factor to objective cross country comparisons.
- Performance indicators may be difficult to access and/or inconsistently defined across countries, which could lead to inconsistent comparisons.
- End-to-end cost and performance data was more limited than expected based on pre-qualification standards for participants. There was poor visibility into cost data particularly at lower levels of the supply chain.

DISCUSSION

The objective of benchmarking is to normalize cost and performance data to more objectively compare entities within the same peer group. We observed data scarcity and quality concerns even within the context of well-performing supply chains. Further validation is necessary against primary costing studies to better understand the extent to which benchmarking results provide reliable directional insights. Next steps include refining protocol and data collection methodology to address known limitations. In order to maximize benchmarking utility, additional data are needed to facilitate more robust cross-country comparisons.

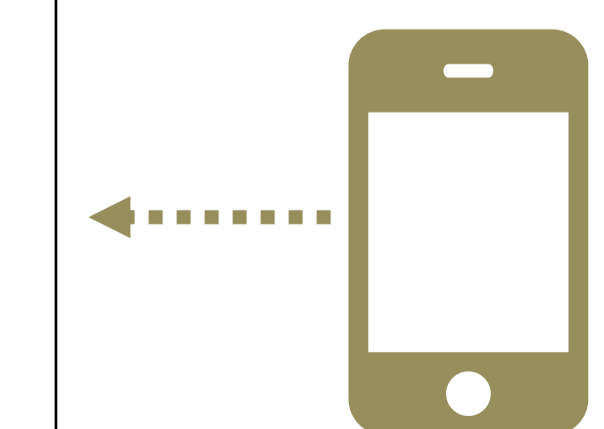
VillageReach has established an approach that enables stakeholders to evaluate immunization supply chain cost and performance against comparable peer groups.



Benchmarking Protocol Scope	Rationale/ Lessons Learned
Administrative Level	Sub-national Province, State or similar unit & proportional allocation of national costs
Supply Chain Type	Routine Immunization
Target Population & Vx type	Children between 0-12 months old
Activities to Cost	Procurement, Management, Storage, Transportation
Cost Elements	Personnel, Suppliers, Building, Utilities or other overhead and shared costs, per diems and travel allowances
Performance Metrics	Stock availability (penta), OTIF, Closed vial wastage (penta), CCE Functionality, Stocked according to plan
Supply Chain Complexity	# children immunized per vx location, # of vx locations per sq. km, # of storage locations per vx location, Volume delivered per distribution/collection, # of SC tiers, Transportation mix, Vehicle capacity, % delivered vs collected, Vx Volume throughput, Value of throughput
Supply Chain Maturity	% sites with sufficient 202X storage capacity, Dedicated supply chain personnel in EPI team, Target coverage, Actual coverage



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