VILLAGE REACH® STARTING AT THE LAST MILE...

GAVI Immunization Supply Chain Strategy

Allen Wilcox June 4, 2014

Immunization Supply Chain: An Interconnected System Involving Flows of Goods, Funds and Data



Source: GAVI Alliance task force



Country Immunisation Supply Chains Do Not Meet WHO standards today



1. EVM (Effective Vaccine Management) Assessments – Average score of Principal, Sub-National, Local District and Service Point Level; Source: EVM assessment for 57 GAVI countries, WHO



Immunisation Supply Chain Challenges Will Increase Due to Higher Volumes, Doses and Vaccine Cost



Note: All figures relate to GAVI-funded vaccines

1. UNICEF Supply 2012 Financial report, WHO data for Pneumo and Rota vaccines, and HPV (only for girls); 2. 2010: GAVI Shipment Data; 2020; GAVI SDF Forecast; Including volume for GAVI future graduated countries; 3. Comparison based on 2013 Price; 2020 Vaccines include: Rota, Pneumo; HPV; 2010' vaccines include:YF, Measles, DPT, OPV (UNICEF SD); 4. GAVI Background SDF Information; 2010": estimates based on 2009 data; 2020: estimates based on 2013 forecast

VILLAGEREACH

Catalytic Investments Aim to Contain Cost Increase But Increased Funding Needed



Source: BCG Analysis, GAVI Alliance task force preliminary estimates and projections based on 53 GAVI eligible countries.



Putting Fundamentals in Place in Every Country and Improve System Design





System Design

Multi-Tier - Aspirational

Multi-Tier – Ad-Hoc

Replenishment decision/distribution responsibility at each tier. Must resource each tier for inventory management and distribution.



- Each level responsible for replenishment decision, inventory management, and delivering to level below
- Requires significant human resources, infrastructure and funds at each level to create functioning system
- Devolves into ad hoc due to insufficient resources/infrastructure

- Lack of resources/infrastructure = lack of a "system" and no regular distribution
- Health workers must use personal resources and leave posts to collect vaccines
- Ad-hoc is more expensive and less efficient, but costs are dispersed so easy to hide/ignore

Informed Push

Replenishment decision/distribution responsibility moved up to dedicated logistics teams. Resources for inventory management and distribution consolidated and focused at that tier



- Removes burden from health workers
- Creates regular distribution
- Costs consolidated at one level, so looks expensive, but actually more costeffective



System Design Impact on Personnel

(Data from VillageReach cost study comparing two provinces, each with ~100 health centers)



- The additional 210 staff days required to run the Ad-hoc Model falls <u>entirely</u> on health workers
- The Informed Push Model reallocates this time to health workers providing healthcare rather than collecting supplies and filing stock inventory reports

"With informed push mothers started trusting the program . . . they come now, because they know they will find vaccines. This system solved the problems of vaccine stock-outs . . . before I didn't have money to get public transport to go to the district to collect vaccines." – Emilia Albino Chilaule, Alto Changane Health Center, Mozambique



Impetus for Change

- Standardized assessment tool shows similar supply chain weaknesses across multiple GAVI countries
- Need more efficient supply chains due to greater cost and size of new vaccines
- New vaccines backing up due to supply chain capacity constraints
- Growing evidence base of better results from
 - Pilot projects
 - Modelling
- Equity goals can't be met and new vaccine investments will be wasted unless in-country supply chain challenges are addressed