



WVM Pilot Program in Colombia



Team F2

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Leticia, Colombia

- Population: approx. 38,000
- 678 miles from Bogotá
- Remote region along Amazon River near Brazil

Vaccine Vial Monitors



Label indicates potency of vaccine

Purchased at \$0.05 per vial

40% of vaccines are wasted

VMM & Vaccine Value Stream

Funding partners

VVM production partner

Vaccine manufacturing partners

Purchasing partners

Country partners



Japan BCG Laboratory
日本ビーシージー製造株式会社



VVM recipient countries



Non-VVM recipient countries (Americas)



Funding

Labeling (VVMs)

Manufacturing

Purchase

Distribution

Colombia

- **Population:** Approximately 48.65 million
- **Geography:** Mountainous with remote locations
- **Climate:** Warm & tropical near coast, mild in mountains
- **Infrastructure:** More developed in urban areas
- **Instability:** Current federal government relatively stable; past long-term conflicts with rebel groups
- **Regulation:** Not highly regulated
- **Power supply:** 88% rural, 100% urban
- **Security:** Current peace accord has increased stability & security; some residual hostilities remain



Supply Chain

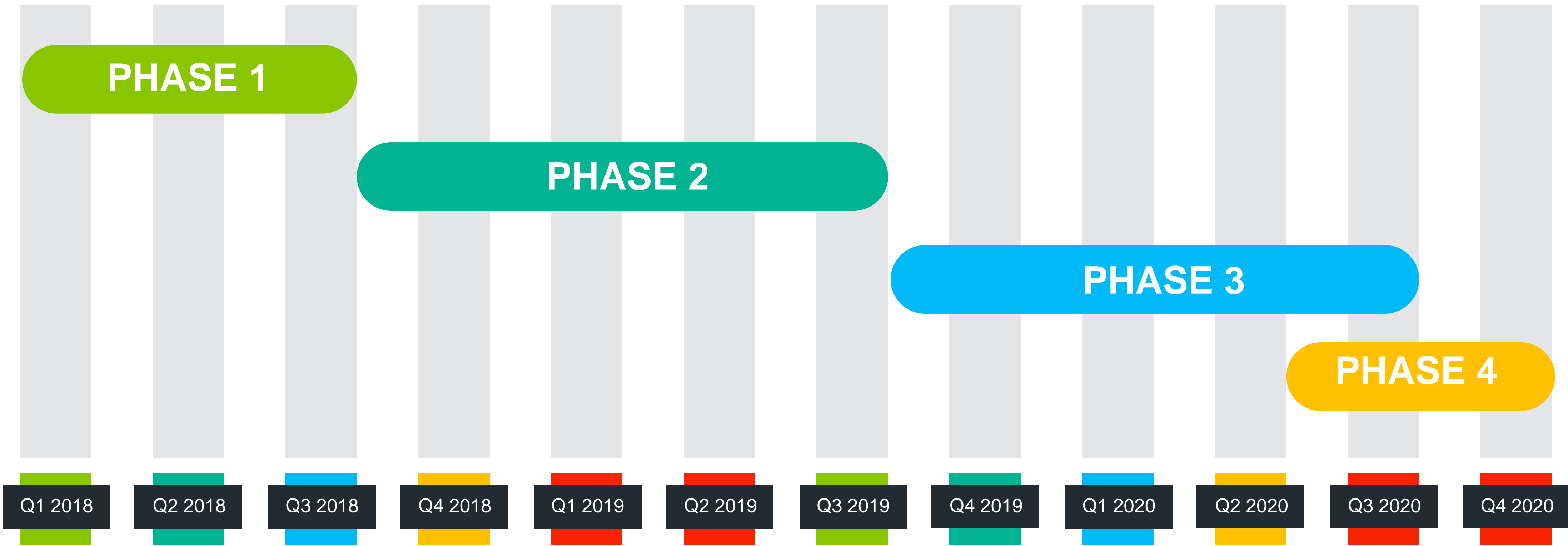
- Initial shipments to Bogotá
- Subsequent shipments to other locations in Colombia
- Final shipping methods vary based on terrain (mostly air & ground transport)



THE “F2” INITIATIVE



The “F2” Initiative Roadmap



Phase 1

- Funding
- VMM Production
- Educating & Developing Staff

Phase 2

- Influenza Vaccination Roll out

Phase 3

- Vaccination Feedback Data
- Order & Install Cold Supply Chain
- VVM Production for Vaccinations

Phase 4

- Begin Rollout of Vaccination

The “F2” Initiative

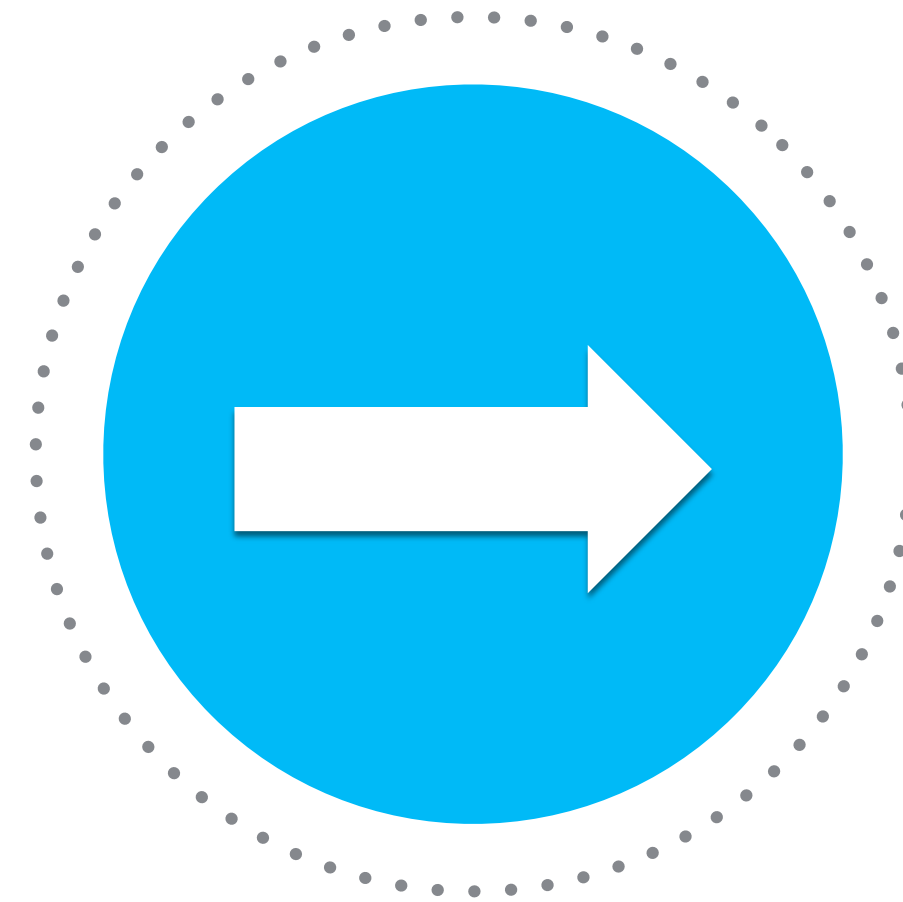
The “F2” Initiative Deliverables



EPS MEETS
GOALS



COLD SUPPLY
CHAIN FOR THE
FUTURE



FASTER
SUPPLY CHAIN
TO REGIONS



MODERN
VACCINATION
TRACKING

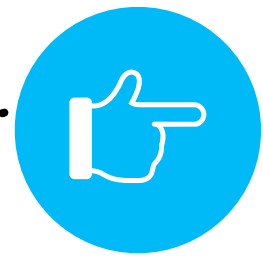
The “F2” Initiative



Phase 1



Phase 2



Phase 3



Phase 4

Cost of Influenza Vaccination VVM - \$2.2 million

-Why influenza?

- Educating health workers
 - High literacy rate – 94.5%
 - High medical education
- Begin production of influenza VVM

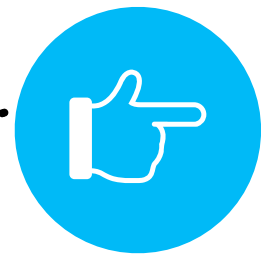
The “F2” Initiative



Phase 1



Phase 2



Phase 3



Phase 4

Funding Sources

- WHO
- World Bank
- Bill and Melinda Gates Foundation
- Nonprofit NGOS
 - Give To Colombia
 - World Vision

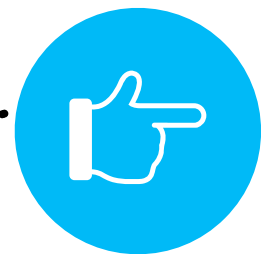
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Phase 1



Phase 2



Phase 3



Phase 4

- Influenza vaccination Rollout
- Focus on vaccination feedback data
- Data analysis on Cold Supply Chain

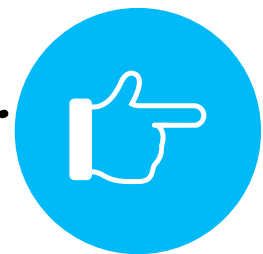
The “F2” Initiative



Phase 1



Phase 2



Phase 3



Phase 4

Finalize data analysis

- Order Cold Supply Chain from UNICEF
-3-4 weeks for order
- Install Cold Supply Chain equipment
-2-4 days per site
- Monitor and begin ordering VVM for Vaccinations

The “F2” Initiative



- Vaccination Rollout for EPS requirements
- Flexible for future vaccinations

2-Year Roll-Out

Influenza Savings (\$)			
	Y0 (2018)	Y1 (2019)	Y2 (2020)
No Intervention	(16,205,036)	(16,219,620)	(16,234,218)
VVM Intervention	(16,406,091)	(16,338,825.97)	(16,190,143)
Waste Reduction (%)	0.000%	0.500%	1.000%
Waste Reduction (\$)	-	82,030	163,388
Profit (Loss)	(16,205,036)	(119,206)	44,075
Cumulative	N/A	(119,206)	(75,130)

5-Year Scale-Up

TOTAL VACCINATION SAVINGS (\$)	
Profit (Loss)	3,437,398
Cumulative	69,685

Projected Outcome



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Appendix

1. The Conflict & Colombian Peace Accord
2. Pilot Selection Criteria
3. 5-year Comprehensive Roll-Out
4. Mumps & Pertussis in Colombia
5. Pertussis in Colombia
6. Cold Supply Chain Costs