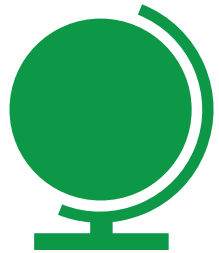


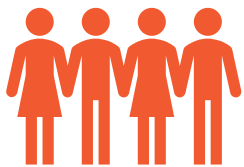


Future-State Research & Analysis

Contents



Country Segmentation



Customer Segmentation





Country Segmentation

Assumptions for Model Prioritization

1. OpenLMIS landscape can shift to achieve sustainability.

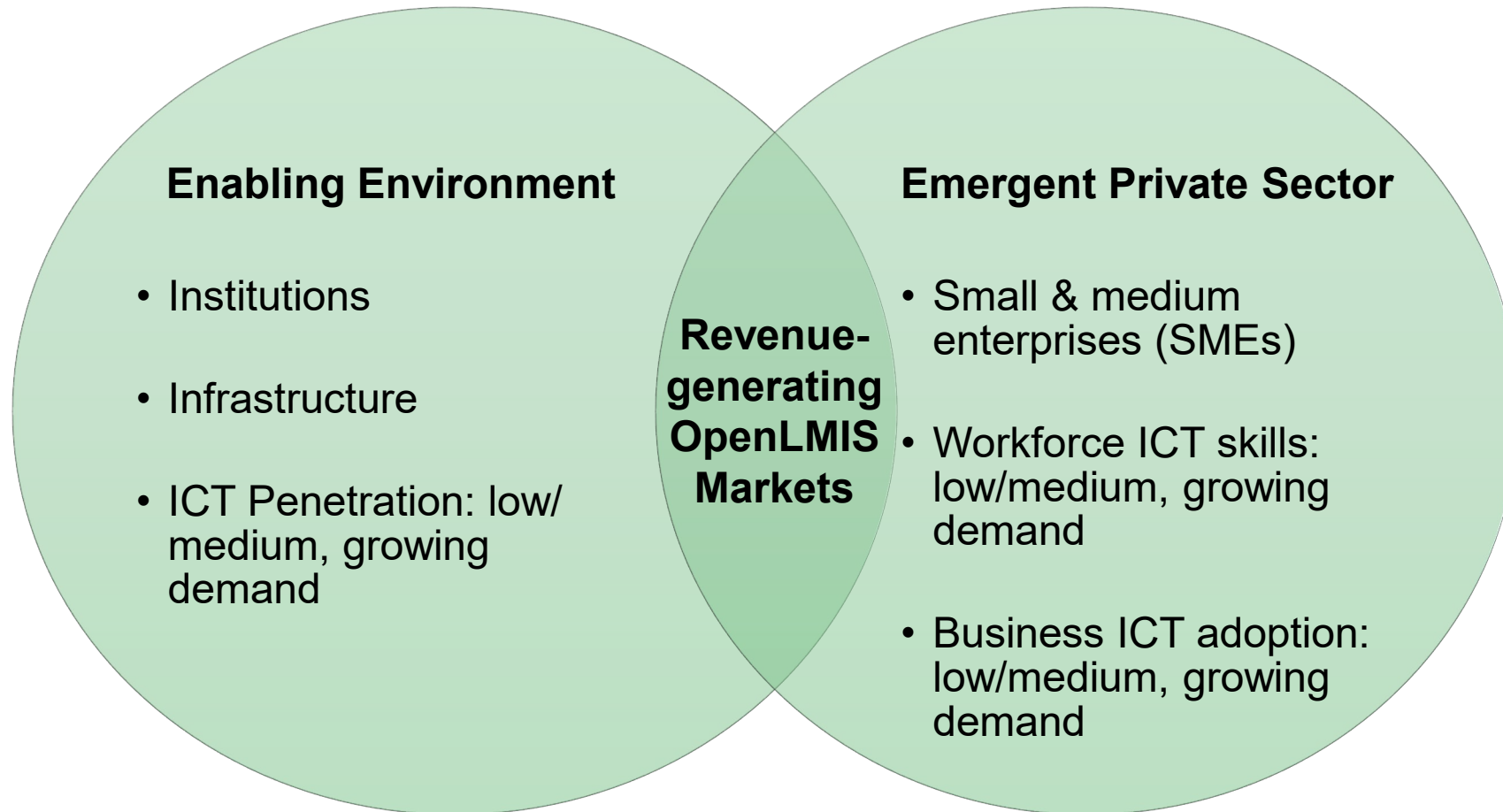
- Potential markets:
 - Multiple regions
 - Multiple market types
- Potential paying customers:
 - Private and public sector
 - Customer needs match OpenLMIS product(s) – current or future

2. OpenLMIS product(s) can shift to achieve sustainability.

- Products/features:
 - Fit customer needs or can be adapted, possibly for adjacent markets
 - Can be continuously maintained/ developed through a sustainable business model

3. These shifts may come in multiple stages.

OpenLMIS Target Markets



Research Approach

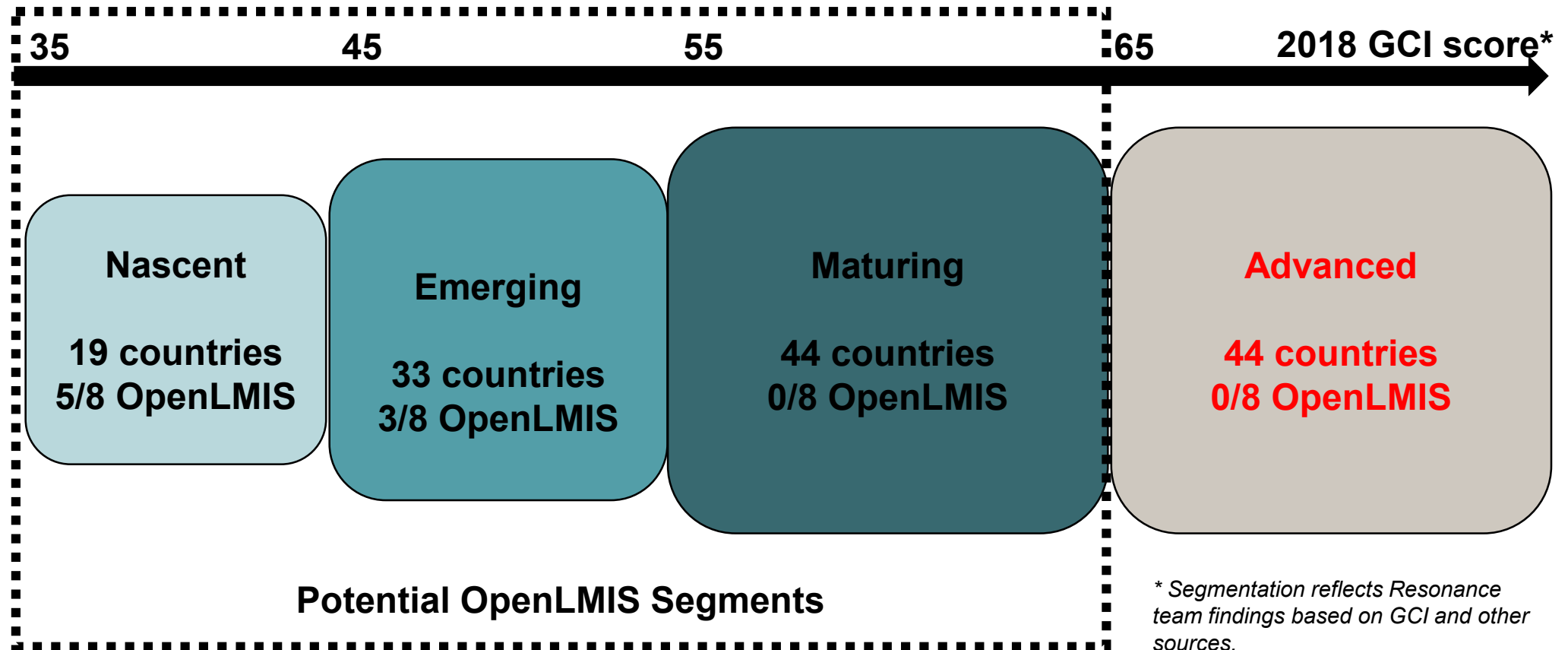
Focus: Developing countries where OpenLMIS can capture market share.

Sources

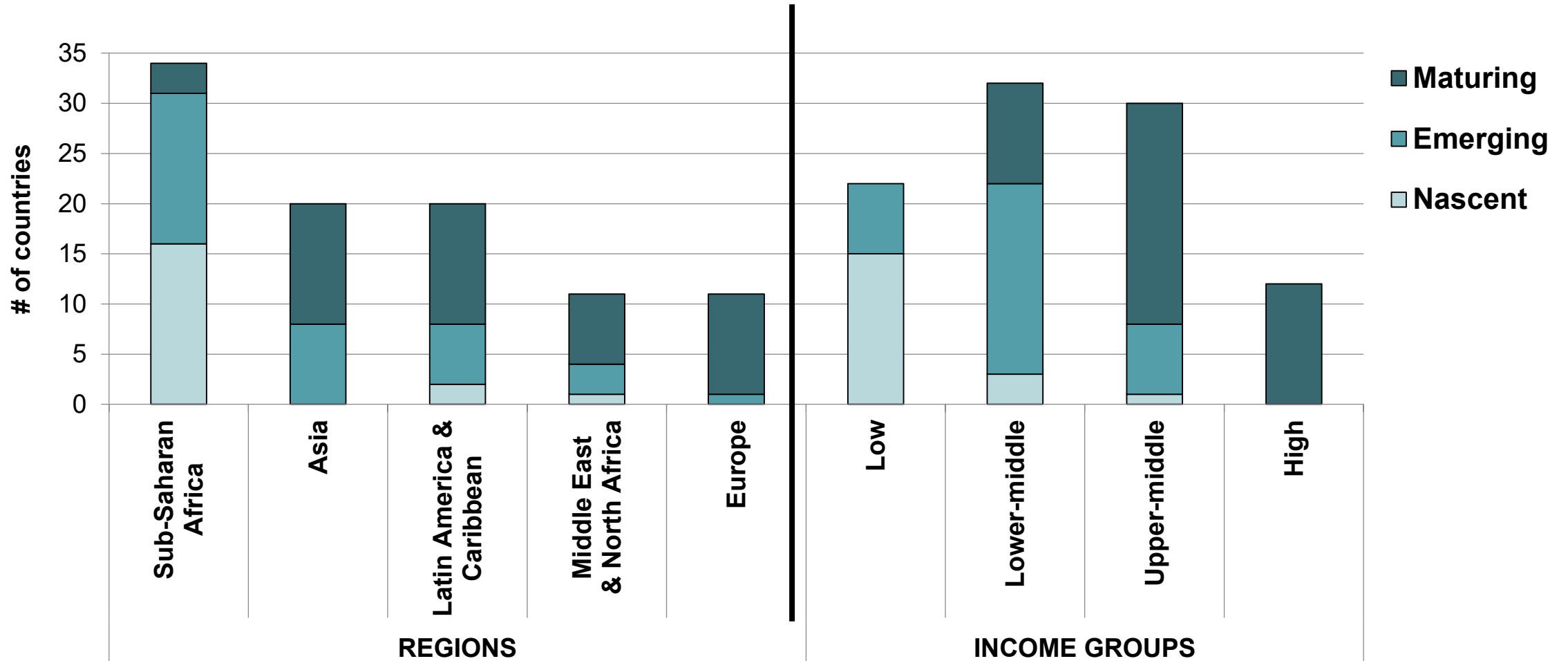
- World Economic Forum Global Competitiveness Index (GCI) 2018
- World Economic Forum Networked Readiness Index 2016 – Business ICT Use
- Additional country-level economic and demographic data

2018 GCI Pillars	
1	Institutions
2	Infrastructure
3	ICT Adoption
4	Macroeconomic Stability
5	Health
6	Skills
7	Product Market
8	Labor Market
9	Financial System
10	Market Size
11	Business Dynamism
12	Innovation Capability

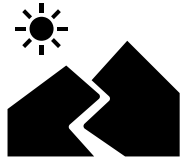
Country Segmentation



Country Segment Characteristics



Key Takeaways


Institutions

Infrastructure

Private Sector

Business ICT
OpenLMIS Implications

	Institutions	Infrastructure	Private Sector	Business ICT	OpenLMIS Implications
Maturing	Functional	Mostly complete, reliable	Established, competitive	Medium	+ Higher revenue potential
Emerging	Functional	Somewhat complete, reliable	Burgeoning	Low to medium	- Lesser known markets - Advanced customers - Tough competition
Nascent	Limited	Incomplete, unreliable	Limited	Low	+ Known markets - Limited revenue potential

Recommendations:

- **Short-term: Focus on Nascent and Emerging countries with growing private sectors**
- **Long-term: Explore expanding OpenLMIS to customers in all country segments**



Customer Segmentation

Approach

Focus: Potential revenue-generating customers across all country segments in multiple markets:

- Health
- Agriculture
- Education
- Logistics
- Humanitarian/ Disaster Relief

Sources

- Regional / country-level data, market analysis and case studies
- Market Sounding visits
- Firm websites


Key Considerations

- Current OpenLMIS customers
- Customer affiliations, target customers, quality controls



Customer Segments

	Customer Segment	LMIS Need*		
Health	Hospital Network	✓	✓	✓
	Clinics Network	✓	✓	✓
	Pharma Manufacturer	✓	✓	✓
	Pharma Supplier/ Retailer network	✓	✓	✓
	Diagnostics Lab	✓	✓	✓
	Medical Device/ Tech Supplier	✓	✓	✓
Education	K-12 Schools		✓	✓
	University/ Technical & Vocational Education & Training (TVET) Institutions	✓	✓	✓
	EdTech			
Logistics	3PL	✓	✓	✓
	4PL			
Agriculture	Input Supplier	✓	✓	✓
	Co-op	✓	✓	✓
Humanitarian/ Disaster Relief	NGO, UN Organizations	✓	✓	✓

 Maturing
 Emerging
 Nascent

*Segments that need a logistics management information system. Other factors will determine whether OpenLMIS is the right fit.

Customer Segment Scorecard

Score	Description	Indicators (Estimated)	Low	Medium	High
Market size	# of potential customers	<ul style="list-style-type: none"> # of facilities per country 	0-150	150-500	500+
Revenue	% of potential customers in the private sector	<ul style="list-style-type: none"> % for-profit private facilities % nonprofit private facilities (weighed at 50%) 	0%-25%	25%-50%	50%-100%
Cost	Additional investment required vs. baseline implementation costs	<ul style="list-style-type: none"> Customer research & analysis Product development & adjustment Marketing 	0-1 true	2 true	All 3 true
Risk	# of potential competitors	<ul style="list-style-type: none"> Weak/ absent OpenLMIS competitive advantage Donors offering similar product at similar cost Commercial enterprises offering similar product at similar cost 	0-1 true	2 true	All 3 true
Impact	% of customers contributing to one or more OpenLMIS core attributes	<ul style="list-style-type: none"> % customers improving delivery of key commodities, offering solutions for low- and middle-income countries, and/ or strengthening capacity of local and regional partners 	0%-30%	30%-70%	70%-100%

Customer Segments in Health

Segment Attribute	Pros & Cons
Market size	<ul style="list-style-type: none"> + Known and growing customer base +/- Market fragmentation
Revenues	<ul style="list-style-type: none"> + Growing private sector + Existing buy-in for product - Possible perception/ reputation of OpenLMIS / other open-source products as "free"
Costs	<ul style="list-style-type: none"> + Limited investment in product development required compared to adjacent markets - Some investment in understanding diverse customers required - Some investment in entering/ navigating new markets required
Risks	<ul style="list-style-type: none"> + OpenLMIS competitive advantage and partner network - Donors offering similar products at similar cost - Commercial enterprises offering similar products at similar cost +/- Market fragmentation
Impact	<ul style="list-style-type: none"> + Significant contribution to OpenLMIS mission and core attributes

Health Customers- Nascent Countries

Customer Segment	Market Score	Revenue score	Cost Score	Risk Score	Impact Score
Hospitals Network	●	●	●	●	●
Clinics Network	●	●	●	●	●
Pharma Manufacturer	●	●	●	●	●
Pharma Supplier/ Retailer	●	●	●	●	●
Diagnostics Lab	●	●	●	●	●
Medical Device/ Tech Supplier	●	●	●	●	●

Recommendation

- Hospital Networks
- Clinic Networks

GO

- Other Health Customers

WAIT

Advantages

- OpenLMIS competitive advantage

Barriers

- Smaller markets with lower revenue potential
- Cost to analyze and adjust customer needs
- Competition from donors

Health Customers- Emerging Countries

Customer Segment	Market Score	Revenue score	Cost Score	Risk Score	Impact Score
Hospitals Network	●	●	●	●	●
Clinics Network	●	●	●	●	●
Pharma Manufacturer	●	●	●	●	●
Pharma Supplier/ Retailer	●	●	●	●	●
Diagnostics Lab	●	●	●	●	●
Medical Device/ Tech Supplier	●	●	●	●	●

Recommendation

- Hospital Networks
- Clinic Networks

GO

- Other Health Customers

WAIT

Advantages

- Larger markets with revenue potential
- OpenLMIS competitive advantage

Barriers

- Substantial cost to analyze and adjust to diverse customer needs
- Competition from donors and commercial software enterprises

Health Customers- Maturing Countries

Customer Segment	Market Score	Revenue Score	Cost Score	Risk Score	Impact Score
Hospitals Network	●	●	●	●	●
Clinics Network	●	●	●	●	●
Pharma Manufacturer	●	●	●	●	●
Pharma Supplier/ Retailer	●	●	●	●	●
Diagnostics Lab	●	●	●	●	●
Medical Device/ Tech Supplier	●	●	●	●	●

Overall Recommendation

WAIT

Advantages

- Larger markets with good revenue potential

Barriers

- High cost to analyze and adjust to needs of advanced/ diverse customers
- Competition from commercial software enterprises
- Weaker OpenLMIS competitive advantage

Customer Segments in Adjacent Markets

Segment Attribute	Pros & Cons
Market size	<ul style="list-style-type: none"> + Potential customer base +/- Market fragmentation
Revenues	<ul style="list-style-type: none"> + Growing private sector - No existing buy-in for product - Possible perception/ reputation of OpenLMIS / other open-source products as "free"
Costs	<ul style="list-style-type: none"> - Substantial investment in product development required compared to health customers - Substantial investment in understanding diverse customers required - Substantial investment in entering/ navigating new markets required
Risks	<ul style="list-style-type: none"> - No OpenLMIS competitive advantage or existing partner network - Donors offering similar products at similar cost - Commercial enterprises offering similar products at similar cost +/- Market fragmentation
Impact	<ul style="list-style-type: none"> + Significant contribution to OpenLMIS core attributes

Adjacent Markets Customers

Adjacent Market	Customer Segment	Market Score	Revenue score	Cost Score	Risk Score	Impact Score
Education	K12 School Network	●	●	●	●	●
	University/ TVET	●	●	●	●	●
Logistics	3 PL	●	●	●	●	●
Agriculture	Inputs Supplier	●	●	●	●	●
	Co-op	●	●	●	●	●
Humanitarian/ Disaster Relief	NGO/ UN Org.	●	●	●	●	●

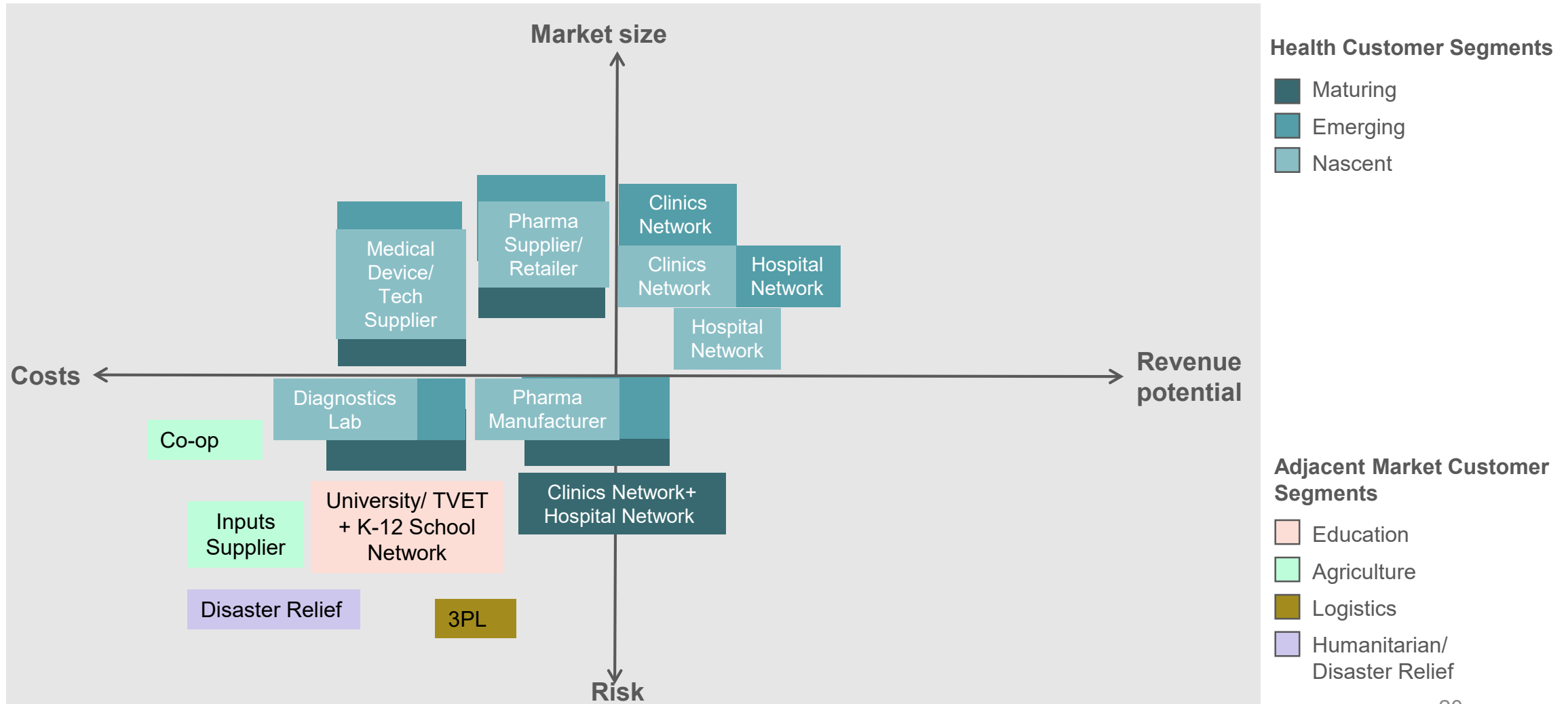
Overall Recommendation

WAIT

Barriers

- High cost to analyze and adjust to needs of advanced/ diverse customers
- Competition from donors and commercial software enterprises
- No OpenLMIS competitive advantage

Customer Segment Assessment*



*Meant to be illustrative and as a guide for discussion, placement is not exact.