OpenLMIS Sustainability Meeting - Resonance, Washington DC - Day 1

Day 1

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Participants:

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Introduction & Project Overview

Objectives:

- 1. Evaluate potential business models and agree on the best model to pursue
- 2. Lay the groundwork for the business plan that takes the chosen business model forward

Business Models: First Look

Theoretical Constructs Model Narrowing Focus on Customer Customer Narrowing Pathway Approach Country Narrowing These components, with ongoing research, engagement, and analysis, with the conversations over the next 2 days, with lead to the business plan

5 Ways to Take OpenLMIS Forward

Core attributes perceived by Resonance from the OLMIS Community:

- Remain open-source
- Focus on public health first, then adjacent markets
- Strengthen the capacity of local and regional partners.

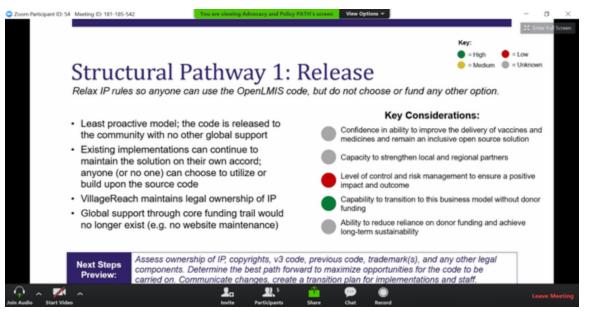
Funding Trail A: Core Funding

Funding Trail B: Implementation Funding

Structural Pathways:

(These are not exclusive – we could come up with a blended model)

- 1. Release (relax IP rules so anyone can use the OpenLMIS code, but do not choose or fund another option)
- 2. Handover (Coordinate an acquisition-style of "sell" of OpenLMIS to an interested 3rd party
- 3. Partner (Lean on the mandate of other orgs and nest OpenLMIS within their structure)
- 4. **OpenLMIS Inc.** (Create an independent entity where OpenLMIS is able to continue its operations and pursue additional revenue generating mechanisms
- 5. Global Good Incubator (Create an independent entity that enables OpenLMIS to continue its operations, pursue new customers and revenue streams, and grows to create efficiencies between many global goods)
- 1. Release



Comments:

-ODK might be somewhat an example of this pathway.

-Next steps would be VR doing an analysis: Inventory of IP in former versions, make sure all potential pathways are known to the community, come up with a transition plan for staff.

-It would be unknown if there was sustainability based off if it was deemed necessary or desirable product from outside entities (for-profit or nonprofit)

2. Handover

Structural Pathway 2: Coordinate an acquisition-style "sell" of OpenLMIS	
 A for-profit or non-profit entity takes ownership and control of (i.e. "acquires") OpenLMIS, though funds may not be exchanged Enables a continuation of OpenLMIS' services through a third party, which would expand and/or complement what the community has built While control after the "sale" will be limited, put into place transactional requirements to make sure there is alignment with OpenLMIS' core attributes and mission 	Key Considerations: Confidence in ability to improve the delivery of vaccines a medicines and remain an inclusive open source solution Capacity to strengthen local and regional partners Level of control and risk management to ensure a positive impact and outcome Capability to transition to this business model without dor funding Ability to reduce reliance on donor funding and achieve long-term sustainability
	seeking out partners (e.g., RFP, existing partners, "purchaser," understand legalities, explore, evaluate, ire transition funding.

-This would have parties looking at investment vs return, would likely have to be profit-neutral or profit-building for someone. Unclear if it's a given that implementations/capacity building would be included. A lot less control on our side - only control is the transaction and trying to choose the right partner.

-This one is mostly focused on the core funding trail, not the implementations or thinking about that component.

-As an open-source product it's hard to fully do a handover here (and option #1 always has to be a part) since the basic code has to be available to anyone... Copyright vs. Open-source code

-There could be a community version that everyone has access to, but it is officially parked with another organization.

-Commcare might be a good example of this one, Odoo,

-We'd have to get more precise about the value of OpenLMIS before we can move forward here (or on any of these).

-The value of what we've done here is goodwill, which might be hard to put a value to.

-The greens/yellow/reds aren't set in stone, and they could all technically be unknown

2 examples of where this could go:

Mezzanine

Comments:

-Understanding is that Mezzanine would only be interested in OpenLMIS is if it became cross-sectoral

-Because they have staff, "boots on the ground," already, and the other partners that they have, OLMIS could expand quickly and tap into new/more places

-Part of the next steps with Pathway 2 are fully understanding what things we would be looking for in a partner and doing a deeper analysis -Confirmation that this model would remain open-source

-What is the best thing to do for a Global Good when determining what kind of entity to transfer this to?

-Under the partner model, you have a little more control moving forward than handing it over completely

<u>IQVIA</u>

Comments:

-They have seen a gap in accessibility of products, and OLMIS could help them fill the gaps, while collecting data that they then could sell back -This model flips the open-source a bit by people using this free software with the understanding that their data will be used down the line

-This company collects and sells data, so we'd have to look more at what this model would look like for them and what the countries are getting out of it vs getting

-Opinion that this one feels like less of a fit than Mezzanine or something else – on the flip side, Mezzanine would be looking at solutions more outside of health, and IQVIA would be looking more within health

3. Partner



4. OpenLMIS Inc.



5. Global Goods Incubator



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Cross-Pathway	COID	ipariso	511		
Key Considerations	1. Release	2. Handover	3. Partner	4. OpenLMIS Inc.	5. Global Goods Incubator
Confidence in ability to improve the delivery of vaccines and medicines and remain an inclusive open source solution		٠	٠	٠	٠
Capacity to strengthen local and regional partners		٠	٠	•	۲
Level of control and risk management to ensure a positive impact and outcome	٠			٠	۲
Capability to transition to this business model without donor funding	۲	٠		•	٠
Ability to reduce reliance on donor funding and achieve long-term sustainability			٠		٠

Digital Public Goods Sustainability

"Successful stewardship requires a diverse set of stakeholders to coordinate responsibilities and contributions" DIAL Open Source Center has split the support of a public goods ecosystem into 4 categories:

- 1. Maintainers: primarily responsible for open-source Project
- 2. Contributors: give time and resources
- 3. Sustainers: provide financial support to open-source project
- 4. Consumers: use the open-source project

What digital public goods need*:

- 1. Fiscal Sponsorship
- 2. An organization home
- 3. Advisory and technical assistance
- 4. Access to funding
- 5. Connection to a community practice

*These are not the OSC's service offerings – these are what we have identified as the real, felt needs of the programs. We currently do some of these



One of the most important components of the above slide is the *maintainer* - without the maintainer a program tends to die. Mifos is a really good example of an org that started out with all these responsibilities and then was able to transfer these responsibilities successfully. The legal/fiscal was moved from one entity and then landed with Apache. Mifos chose to take on the role of 'maintainer' and continue on operational activities.

OpenCRVS and OpenLMIS are going through the phases now. It doesn't have to all-or-nothing. You can transfer some responsibilities and maintain others.

The case for a common organizational home for digital public goods:

- 1. Cost savings
- 2. Focused Team
- 3. Grant Audit Requirements (especially for small orgs/local software implementers)
- 4. Long term support capabilities
- 5. Facilitate synergies between projects

Comments:

-Lots of similar programs are housed at an educational institution before they are transitioned, so there is often high overhead and not a lot of structure that is ready for transfer. NGOs run into similar problems.

-We are seeing lots of small projects that could benefit from a larger community and sustainable funding mechanisms

-Thought that Digital Square was a good place for this to land as a home community (is there a gap with what they are currently doing for them to be this home?)

Response:DS is definitely not the maintainer, but they do support some ops and some fiscal

-Need to talk through who is doing each of those 3 critical responsibilities, and should/wants to

-Everyone has a hypothesis for how to do this, but we need to determine the need

-Community governance is a powerful thing – multiple orgs and entities can fit into one program. Share IP and assets without having to stand up a new standalone entity around the solution.

-Don't forget to identify the coders! We are looking a lot at grants and IP and governance, but coders are essential piece that these all do end up going back to

Creating an Independent Entity

Non-profit attorney Jeff Tenenbaum

- 1. Release- Lowest amount of control.
- 2. Handover- Selling/giving OLMIS to another entity under whatever terms we/they lay out. This entity might have its own board of directors, etc, that make the decisions down the road. The initial contract would be important in laying the foundation, but the overall long term control lies with them.

3. Partner -

4. **OpenLMIS Inc.** - Setting this up as a non-profit mostly just requires set-up as a 501C-3, a mission, values, and a board of directors. You *can* set this up as a for-profit, which isn't common on these types of programs, but does happen. We couldn't get donor funding from USAID, etc without being a 501C-3, but could find other sources of revenue.

LLC example:	Contraction - The solution
NP partner partner MPV / \ LLC1 LLC2 LLC3	COCHEREN NO Farme
	Re La Lia

5. Global Goods Incubator- Difference between 4 and 5 depends on the mission etc. and could look pretty different depending on the plan to

"expand the tent."

Comments: Option 2 offers little control, where Option 4 and 5 offer more.

OpenLMIS currently has an open-source license, which is housed under VR. This could be transferred fairly easily whichever of these 5 is chosen.

?- In Option 2, what level of control/limitations do we have of what they do with OpenLMIS?

A- It comes down to the contract. You can craft a contract between VillageReach and the new entity to. But we don't have control of how long that party will be willing to make commitments. Will they be willing to sign a contract to offer a certain level of service 5 years into the future?
What about 501c6 membership organization? (like the Linux Foundation) The members would pay in to receive a say in the product roadmap.
A- It's also an option. The difference is that the 501c3 has a broader social mission to benefit society. The 501c6 has a mission just to benefit its members.

?- What about B Corporations?

A- They are just another type of for-profit corporation that also has a social mission in addition to a charitable mission. B Corporations still have owners, and we would need to determine who the "owner" is.

?- Option 4, What about domicile of entity? Does it have to be in the U.S.?

A- You can consider all options. In Pact Global example, we ultimately decided on U.S. But an organization based/domiciled in a different country can still apply and gain tax-exempt status in the U.S.

?- Option 4, What is the benefit of creating the nonprofit instead of creating the partnership

A-You probably wouldn't jump to #5 without exploring those other options – but sometimes in time after the partnerships it makes sense to have it be a standalone entity. This doesn't mean, either, that the OpenLMIS org can't then be a part of other partnerships – again, these aren't always mutually exclusive, but they are contract-driven.

An LLC would have it's own governance that would make core decisions every day, it wouldn't necessarily have to go to the top person each time. Business income would happen at the LLC level and go up to the MPV

?- Option 4, Who is the fiduciary and audit holder? EG, a grant comes to the Non-Profit (NP), how does it flow?

A- If the terms of the grants or cooperative agreements allow you to use money that way, you could flow it down. I just want to be clear that Option 4 does not foreclose any of the kinds of private or public activities and partnerships you want to pursue.

?- If \$10M goes to the NP, and they give \$1M to NPV and on to LLC to capitalize.

? - Option 4, How long does it take to set this up?

A- Depends. You can do the application in like a week, could take 2-6 weeks to make it through, and sometimes, due to redtape, can take up to a year. You can continue operating in the meantime, but wouldn't be a 501C-3 yet, which could delay funding during that time.

To stand up a new entity you first need: A name, statement, 3 board members. Then bi-laws, organizational resolution, tax-exempt application. The IRS wants to see a detailed app of what you are going to do and how you are going to do it + a proposed 3 year budget. (This all isn't actually a very big deal – the main things we would have to think about are who are going to run us and who is going to fund us).

*Jeff's personal bias would be to lean towards 4 or 5, depending on if the \$\$ is there, due to the maintenance of control. Probably from there more towards 4, just because jumping to 5 might be too much too fast without outlined funding.

Clarification:

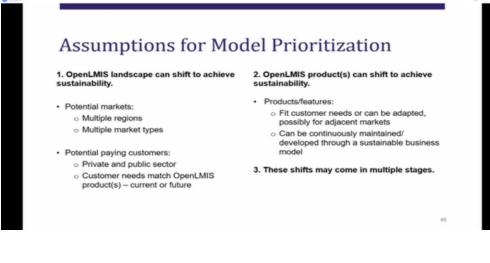
Trademarks: all about the brand. How the public sees/knows it. Best way to protect this is from a federal registration. A partner, business, or OpenLMIS Inc would own this and could license out. "If you don't enforce this, you could use it." You could have sub-brands under this. **Copyrights:**

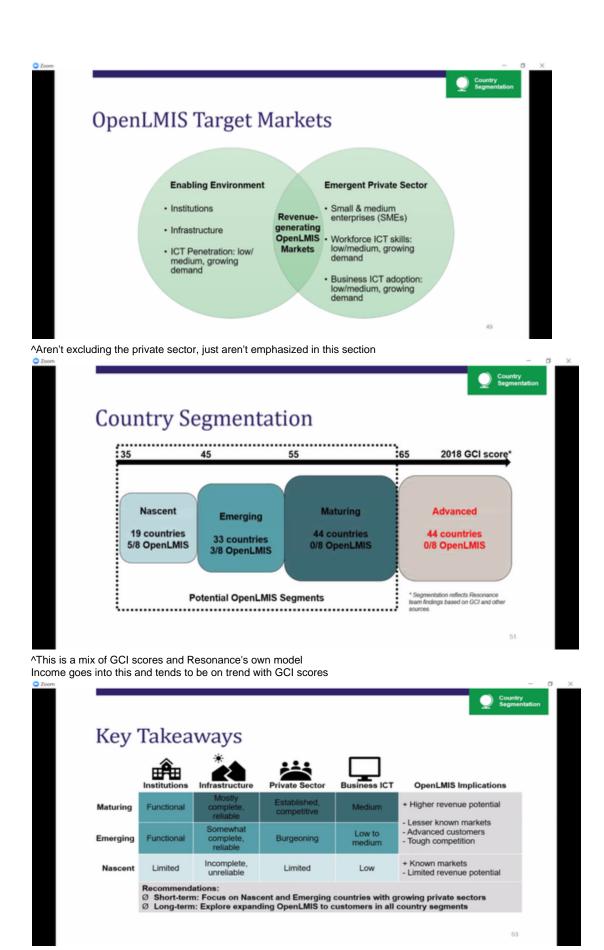
Patents:

Trade secrets: (we probably don't have any)

Comment: Technically nothing needs to change. VillageReach could keep ownership and keep going as is, keep up with (and further formalize) the governance committee etc. We need to look at what we want this to look at in 5 years, and then make decisions around these 5 options or a hybrid.

Future-State Research & Analysis





Product is suited for/built for **nascent** markets--There is some potential for profit here, but not super high. **Emerging/Maturing** markets end up at about the same level according to this scale. There is more room for profit here, but there is also more competition.

O Zoo

Where's the balance?: Recommendation is to focus on nascent and emerging markets for now. In the long term we could explore implementing it in all markets.

? - A lot of this is focused on revenue, but how do we look at value that is not in terms of actual \$\$?

A - It depends on the value proposition we put out there – tabled for the next session

"We are a little data-dark in how it is used in implementations, and if we had a little more info on its use that could steer us in where to invest these \$s and also where we might get them back"

**Firms that have an online presence already puts them at a certain level – there could be firms/partners that don't have websites that could be a perfectly could fit if we could find them

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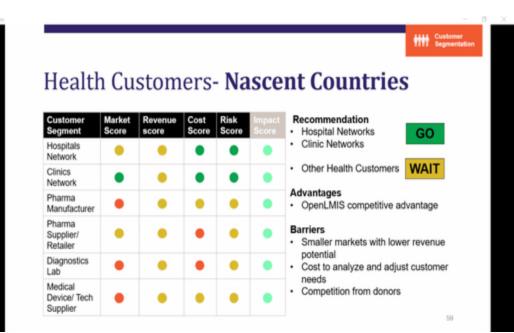
	Customer Segment	L	MIS Nee	d*	
	Hospital Network	1	1	1	Maturiz
	Clinics Network	~	1	1	Emerg
Li - shi	Pharma Manufacturer	~	1	1	1485.00
Health	Pharma Supplier/ Retailer network	1	1	1	
	Diagnostics Lab	~	1	1	
	Medical Device/ Tech Supplier	~	1	1	
	K-12 Schools		1	1	
Education	University/ Technical & Vocational Education & Training (TVET) Institutions	1	1	1	
	EdTech				
Logistics	3PL	~	1	1	
Logistics	4PL				
Andreathan	Input Supplier	1	1	1	
Agriculture	Co-op	1	1	1	
Humanitarian/ Disaster Relief	NGO, UN Organizations	1	1	1	

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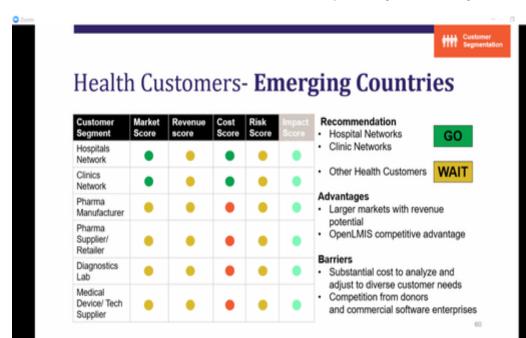
Customer Segment Scorecard

Score	Description	Indicators (Estimated)	Low	Medium	High
Market size	# of potential customers	 # of facilities per country 	0-150	150-500	500+
Revenue	% of potential customers in the private sector	% for-profit private facilities % nonprofit private facilities (weighed at 50%)	0%- 25%	25%- 50%	50%- 100%
Cost	Additional investment required vs. baseline implementation costs	Customer research & analysis Product development & adjustment Marketing	0-1 true	2 true	All 3 true
Risk	# of potential competitors	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	 % 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%

The potential for revenue and risk balance out in these.



Because some of these countries are so data-dark, the cost of initially evaluating these can be high.



There's always some kind of cost involved in these.

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Adjacent Market	Customer Segment	Market Score	Revenue score	Cost Score	Risk Score		Overall Recommendation
	K12 School Network	•	•	•	•	•	WAIT
Education	University/ TVET	•	•	٠	•	•	 Barriers High cost to analyze and
Logistics	3 PL	٠	•	٠	•		adjust to needs of advanced/ diverse
Agriculture	Inputs Supplier	•	•	٠	•	٠	 Competition from donors and commercial software enterprises No OpenLMIS competitive advantage
Agricatore	Co-op	٠	•	•	•	•	
Humanitarian/ Disaster Relief	NGO/ UN Org.	•	•	•	•	•	

Comments:

-For humanitarian/disaster relief there is not a lot of potential for income (that doesn't mean there isn't a need)

-This doesn't mean we shouldn't explore these adjacent markets down the line, just that we should explore those other markets first since there is more potential for revenue and that these markets weren't able to be further explored for now.

-We should establish our base market first. More research (or really good partnerships) are likely needed to successfully enter these spaces. -Look at longterm money plans and also planning/readiness to enter any of these markets

-OpenLMIS Tanzania, for example, is fairly well-established, so if you built off a system like this that is using OLMIS the way it was built to be used, then you might be able to use that as a foothold for one of these other markets in that region, for example, ag.

-You could partner with the other ministries in the successful implementation countries and expand out that way.

-You could need to really test the waters with those first.

-DHIS2, for example, is extending their functionalities in countries that they already operate - this isn't even necessarily good, because

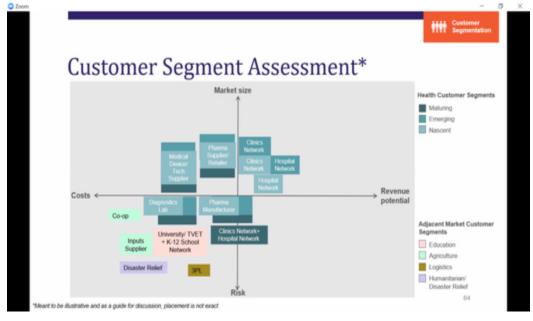
sometimes these are outside of an org like that's expertise, but because the name and partners were there they are expanding.

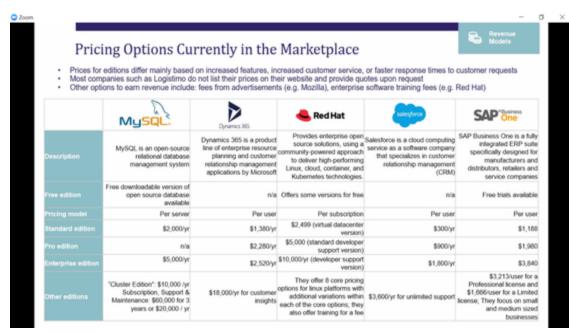
-Even if we move into nascent and adjacent markets, we need to go back to looking at sustainable funding. This should be addressed before too many conversations about expanding out.

-These models are looking at revenue as a priority, but this doesn't mean that donor funding is completely nixed.

-With the current OLMIS countries/implementations: moving this to sustainable funding is a multi-year transition and we'd have to figure out how these still get served no matter the model we chose.

--Conversation tabled until the afternoon reflections





Some of these are branded for a specific market and then have social responsibility arms that are or aren't related to what they do as a company. Looking at cost per 'customer.' Right now structured by 'per facility' but could instead be structured down to the individual user. Comment: Gut feeling is that we would need 150 customers for this to be successful.

Features / pendied Features / pe	Annual	<\$1MM	\$1MM to \$5MM	\$6MM to	\$26MM to	\$51MM to	•	The annual revenue	
Earstein \$4,000 \$80,000 \$12,000 TBD TBD TBD TBD to be included in "basic or "advanced" bundles have to be determined Earstein \$5,000 \$10,000 \$15,000 TBD TBD "TBD" is laid out here to show that eventually OpenLMIS could offer more features and				\$26MM	\$50MM	\$100MM		categories could be changed to # of users	
Basic + additional service \$4,000 \$80,000 \$12,000 TBD TBD or "advanced" bundles have to be determined Basic + additional customer service \$5,000 \$10,000 \$15,000 TBD TBD "TBD" is laid out here to show that eventually OpenLMIS could offer more features and	product bundles						•	Please note that features	
stitional customer \$5,000 \$10,000 \$15,000 Service Advanced \$50,000 \$15,000 \$15,000 TBD TBD TBD * "TBD" is laid out here to show that eventually OpenLMIS could offer more features and	Basic	\$4,000	\$8,000	\$12,000	TBD	TBD		or "advanced" bundles	
Advanced more features and	additional customer	\$5,000	\$10,000	\$15,000	TBD	TBD	•	"TBD" is laid out here to show that eventually OpenLMIS could offer	
TBO TBO TBO TBO TBO TBO TBO TBO TBO pricing options	Advanced bundle 1	TBD	TBD	TBD	TBD	TBD		more features and services and have more	
TBD	Advanced							accordingly; It's also	

Comments:

-Frontloading might be something we should look at in our world, since donor dollars can come at the beginning

-Could break this down further by customer, regions, etc

-It could be pitched as "This LMIS will shave 5% off your waste. If we can successfully do that, can we have 1% of that?"

-Any time we enter a new country or customer segment there will be new marketing costs

-If we enter a new country in the same customer segment, we assume the cost is 50% less since we will not have to do as much research on the segment, design, etc

-Maintenance cost = 15% of total cost

-Marketing cost = 7% of total cost

-May need to clarify what we mean about "implementation costs" - these sometimes involve customization, trainings, etc, so these costs can be much higher than this

"Continue to invest in product features to keep it cutting-edge" vs. "keep the lights on"

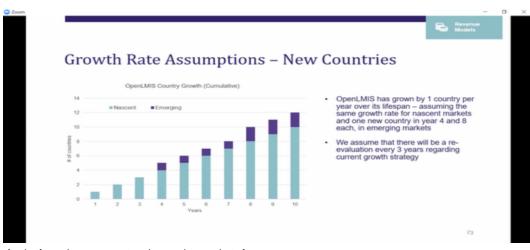
High/low models will be provided later that display these different realities

-\$50,000-1 million might be a more accurate range (this # even assumes that you have a base [people who have done this before, systems already in place] difficult to gauge how much it would be without these

-It might be helpful to split these into buckets: software, implementation

-There are upfront costs, then yearly subscriptions... "Professional services" cost higher in the first year.

-Need a bigger market test for this



-Again, focus is on nascent and emerging markets for now.

-This starts from scratch (doesn't include existing 'customers' in existing countries) because none of these are actually paying in the way that's being assumed in these models

-With additional investment, growth could happen faster

-One of the assumptions made is that the private market is more likely to pay

-This assumes that we won't enter an emerging market until Year 4 – this is based off risk/return balances. The nascent market has a better estimated return to start.

-The decision COULD be made for someone to invest more earlier on so we could enter more countries/more markets at the beginning and grow faster

-You have to further look at the region/language and build from there i.e. we have a francophone version for Cote d'Ivoire, how could we build off that. Similarly, we have many partners in Tanzania and could grow out quickly these. We should definitely look at our strengths and what we have already built, where, and with which partners.

-Initial investment amount in Year 1 is \$1,000,000. From there, the cost grows lower and the revenue higher every year. There would need to be investment for the first 4-5 years before breaking event and then beginning to make money. Investors would want to see these estimates before getting in.

? - Going forward, over the next few months, how much and what kind of data do you need from us?

Α-

? - Logistimo, CommCare haven't captured this market, why not? Did they try and fail or did they not try?

? - When Resonance traveled for this data collection, did they meet potential customers that are already engaged?

A: Yes, Bangladesh comes to mind as a very interested party. Thailand was too difficult.

Evaluate Business Models

*When we look at our current product customer we would need a stepping up model, where customers come first, then adjacent markets, then new customers, then another adjacent market, etc. to get to its future state

-We could also continue working in health only and not moving into adjacent markets.

-What would it look like to create a generic model and move from there?

That means we have to know what model ~ generic for ag vs generic for pharmaceuticals etc look different. This amount of effort would not be trivial.

-We could decide as a community which market(s) to enter, and in parallel with that we could also *find* a partner who knows one of these other markets super well that could build out these other pieces.

-Some of it is just about getting the word out and getting strategic partners -- who are the community players that could build business off of this?

-Investors aren't used to building off of open-source programs

Exploring new markets: "If you don't do it now I don't think you're ever going to do it"

There could be a bridge factor where angel investors give \$ for the initial phase and/or exploring new markets. We don't necessarily need to make a decision on this now, but likely we should keep moving forward with health and explore the others down the line... This is especially true because we have those two paths (Core, and Implementation) so it's difficult to grab funding for both of these things in a new market vs in health.

-Going into adjacent markets could be additionally exciting because we are about to experience donor fatigue in our sector... There are other

investors out there that care about these other sectors

-Could look at a "road show for resources" where we identify the best second market to enter

	Legal Fiscal Sponsor	Maintainer	Operational			
1	Х	х	Х			
2	Org 1	Org 2	Org 1/2/3			
3						
4						
5	Doesn't exist yet - could come after # 3 or 4					

1. Release - This option is considered the least desirable solution by the people in the room for now. This is a backup option.

- 2. Handover/Acquisition -
- 3. Partner
- 4. **OpenLMIS Inc.** Could become #5 after a while.
- 5. Global Good Incubator. Are any of the existing entities set up to just be the NP in Jeff's model?

Remember that part of the core attributes included it remaining open-source, which would be included in any options we move forward with.

-#2 Handover almost seems like another version of #1, just with a specific entity. Though, this may include bridge funding. #2 is also one of the only options that really moves away from donor funding.

-Keeping in mind that we need to look at where the OLMIS Core Team would go --

- -How much control do we want?
- -How do we support the core? How can we generate enough revenue without donor \$\$