Challenges

- Accessing Vaccinations
- Lack of Legitimate Health Records
- Sustaining Availability of Vaccines
- Disease Surveillance
- Ineffective Training
- Lack of Education
Key Improvement Areas

Vaccine Accessibility

Creating a Record Keeping System

Implementing Effective Training
How we will make vaccinations more accessible?
“Sustainability is the capacity of programs to continuously respond to community issues and maintenance of focus on set goal.” - International Journal of Telemedicine and Applications
How can we improve the record keeping process?
Electronic and Mobile Health

5.3 billion mobile subscribers across the globe

90% of world population covered by wireless signal

80% of rural populations

57% of population of Uganda
How can we overcome lack of training?
Health Care Provider Training and Diagnostics
Uniject Syringes
Alternative Considerations

Village Health Teams

inefficient use of funds

not sustainable

Sustainable Drug Seller Initiative

store distribution of vaccines unnecessary
How are we going to allocate our funds?
Financial: Year 1 Costs

- Bikes: $3,100,000
- Provider Training: $850,000
- Diagnostic Timers: $50,000
- Polar Pack: $1,500,000
- Bikers (training/salary): $6,126,654.24
Bikes for Lives Value Chain

Accessibility
Providing a bike to every 10 km² zone in order to deliver PCV 10

Logistics
eHealth system to improve record keeping and enable communication between patients and clinics

Education
Basic training for vaccine delivery bikers; More education funding for existing healthcare professionals
World Bicycle Relief

- “World Bicycle Relief is mobilizing people through the Power of Bicycles. We envision a world where distance is no longer a barrier to education, healthcare and economic opportunity.”

- “We provide specially-designed, locally assembled bicycles to entrepreneurs, healthcare workers and students across rural Africa through sustainable work-to-own and study-to-own programs. We also train field mechanics to ensure access to maintenance and spare parts.”

- “To meet the growing demand for high-quality bicycles in the developing world, World Bicycle Relief’s wholly-owned subsidiary, Buffalo Bicycle Ltd. sells bikes directly to non-governmental organizations, corporations and individuals in need of affordable, sustainable transportation.”
Rapid SMS Texting

Case Study: ChildCount+

Organization: Millennium Villages Project in Kenya, Tanzania, and Ghana

Project: Use RapidSMS based mobile application as a community health events reporting and alerts platform

- empower communities to improve child survival and maternal health

- workers are able to use text messages to register patients and send in health reports to a central web dashboard

Implementation: Sony Ericsson provided phone handsets for community healthcare workers; Airtel Kenya, then known as Zain, assisted in setting up a toll
**Strengths**
- Encourages early vaccination
- Provides access to families of all income levels
- Creates a partnership with the government so there is mutual stake in the process

**Weaknesses**
- Doesn’t address the issue of limited access to healthcare
- No plan to educate public on importance of vaccine

**Opportunities**
- Provide more widespread access to PCV 10
- Educate public about importance of vaccinations and symptoms of pneumonia

**Threats**
- Exponential growth of population
- Difficulties gaining widespread understanding and acceptance from public