

Bill and Melinda Gates Foundation

- ✦ Founded January 2000
- ✦ \$ 24 B in assets
- ✦ Has awarded \$ 5.95 B in grants
- ✦ Foundation Programs
 - Global Health
 - Education
 - Pacific Northwest
 - Libraries
- ✦ Curious? www.gatesfoundation.org

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The Problem

- ✦ **Enormous burden:** Millions die or suffer unnecessarily each year from infectious diseases
- ✦ **4 billion** of the 6 billion people can not access life-saving advances in biomedical science
 - AIDS, TB and malaria kill 6 million people annually
 - Vaccine-preventable diseases kill 1.7 million children annually
- ✦ **10/90:** \$70 billion spent annually on medical research, but less than 10% is devoted to the diseases that cause 90% of global illness and death
 - Only 20 of the 1,500 drugs approved in the last 25 years by the FDA were specifically for diseases that disproportionately affect the developing world
- ✦ **Result:** a global health problem that undermines economic development, social and political stability

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The Opportunity

- ✦ The world's greatest health challenges are solvable
- ✦ Use of existing tools
 - Save lives through vaccines and other low-cost, effective interventions
 - Overcome obstacles to delivering life-saving interventions
- ✦ Development of new tools to close the health gap between rich and poor countries
 - Unprecedented global political momentum to fight malaria, TB, and HIV/AIDS

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What's Needed

- ✦ Financial commitments have to match the scale of the crisis
- ✦ Targeted resources to support proven interventions – work!
- ✦ Scalability of interventions must be proven

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The Foundation's Approach

- ✦ The vision:
 - To ensure that a child born in the developing world has the same chance for good health as a child born in the developed world
- ✦ The goal:
 - Build on extraordinary recent advances in science and technology to save lives, improve health, and reduce disease in the developing world

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The Foundation's Strategy

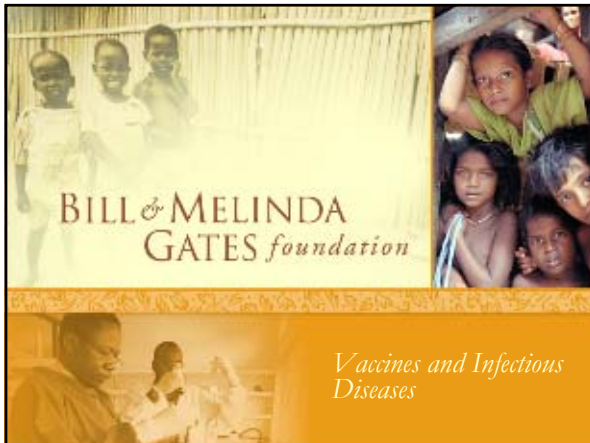
- ✦ **Build It:** Research and development of new tools
- ✦ **Prove It:** Test innovative approaches in the "real world" to see if they work and are cost effective
- ✦ **Sustain It:** Work with other partners to ensure long-term funding and support for proven health interventions

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The Foundation's Commitment

- ✦ Support innovative solutions to the toughest challenges
- ✦ Support projects based on the best scientific evidence
- ✦ Focus on results by promoting evaluation and accountability
- ✦ Promote new partnerships
- ✦ Build long-term human and institutional capacity

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The Problems

- ✦ Every year, millions of people die needlessly from preventable infectious diseases
 - ✦ Two billion people – 1/3 persons -- are infected with TB. In the next decade, at least 30 million people will die from the disease – nearly all in developing countries. TB is now the leading cause of death for people with HIV/AIDS. There have been no new drugs developed to treat TB in 30 years
 - ✦ HIV/AIDS has become the worst epidemic in human history. 45 million more people will be infected with HIV by 2010. At least 29 million infections could be prevented with greater access to proven HIV prevention tools and information
 - ✦ Today, fewer than one in five people at risk worldwide has access to prevention interventions, such as condoms, behavior-change programs or STD treatment
 - ✦ Simple, cost-effective interventions are not utilized to prevent death (malaria and chronic diseases (lymphatic filariasis))
 - ✦ "Brain-drain" of health care professionals and scientists from endemic areas

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What's needed

- ✦ Ensure that the world's children have access to essential vaccines, and that new drugs, vaccines and diagnostics are developed and used where they are needed most.
- ✦ Mobilize human and financial resources
- ✦ Build long-term human capacity for fighting disease
- ✦ Develop innovative financing mechanisms to ensure that health interventions reach those who need them

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Build it

- ✦ The Grand Challenges in Global Health
 - To identify critical scientific challenges in global health, and to fund research on diseases that cause millions of deaths in the developing world every year
- ✦ Development of needed drugs
 - Global Alliance for TB Drug Development
 - Medicines for Malaria Venture
- ✦ Development of needed vaccines
 - Malaria Vaccine Initiative
 - International AIDS Vaccine Initiative

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Prove it

- ✦ GAVI – working to fully vaccinate every child in the world – would save the lives of 3 million children every year
- ✦ International Trachoma Initiative – working to fight trachoma, a bacterial infection that has caused blindness in six million people worldwide. ITI pilot projects in Morocco and Tanzania have cut the prevalence of trachoma by more than 50 percent in just over one year
- ✦ Partners for TB Control – developing a new model for containing multi-drug resistant TB
- ✦ India AIDS Initiative - national partnership of government, private sector, and NGOs working to stem the spread of HIV in India by focusing on mobile populations

Sustain it

- ✦ The Vaccine Fund – provides financing to close the immunization gap
- ✦ Global Fund to Fight AIDS, TB, & Malaria – provides funds to expand prevention and treatment programs in the hardest-hit countries

Gates Foundation Product Development Projects

- \$126 M - IAVI
- 50 M - Malaria Vaccine Initiative
- 25 M - Sequella TB Foundation
- 25 M - Medicines for Malaria Venture
- 18 M - Hookworm (Sabin)
- 41 M - Measles (Hopkins and U. Md)
- 15 M - Leishmania Vaccine

Malaria – Disease Burden

- ✦ 2.4 billion people around the world are threatened by malaria
- ✦ Malaria kills 2.7 million people each year - mostly children, mostly in Africa

3 CHILDREN EVERY MINUTE

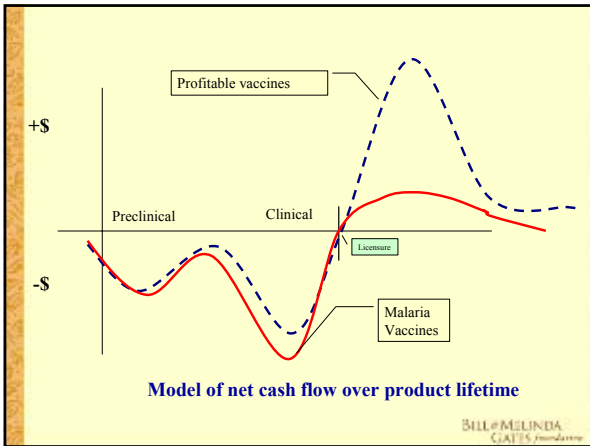


If the Need is so Overwhelming--Why No Vaccine?

ROI

Malaria Vaccine Initiative Mission

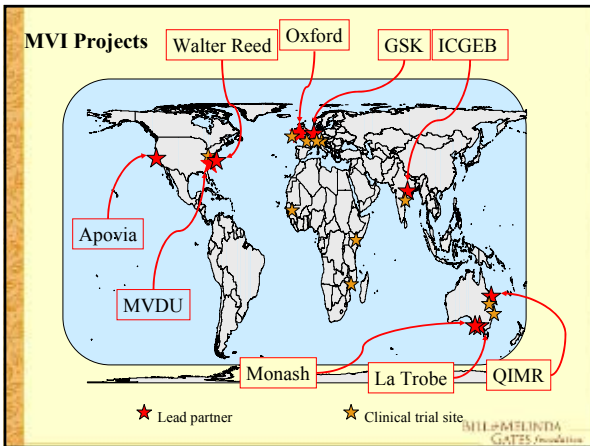
To accelerate the development of malaria vaccines and ensure their availability and accessibility for the developing world.



A malaria vaccine is feasible

- Irradiated sporozoites protect human volunteers from malaria challenge
- Passive transfer of antibody protects human volunteers
- People in endemic regions become clinically immune from severe disease

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Creating Successful Alliances

Learn the language of your partner!

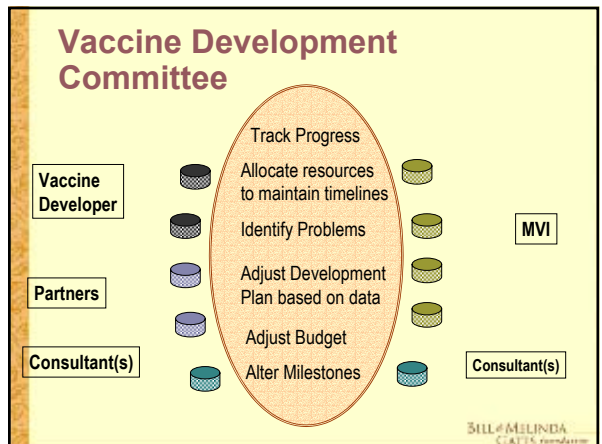
Kickery Kee!	Cockadoodle do!
High prices	Return on investment
LDC/developing nations	ROW
Grant	Non-diluting capital
Public Good	Cheap
Transparency	Disclosure

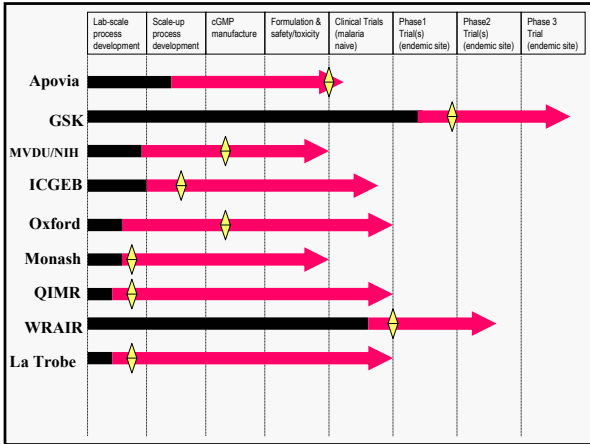
From Carol Nacy, Sequella Foundation

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	Pharma Partner	Biotech Partner	Gov't Partner	Academic Partner	Non-endemic Trial site	Endemic Trial site
Apovia		X	X	X	X	
GSK	X	X	X	X	X	X
MVDU		X	X	X	X	X
ICGEB		X	X	X	X	
Oxford		X		X	X	X
Monash		X		X		
QIMR		X	X	X	X	
WRAIR	X		X		X	X
La Trobe		X	X	X	X	

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Immunization Landscape

1990 - Universal Childhood Immunization

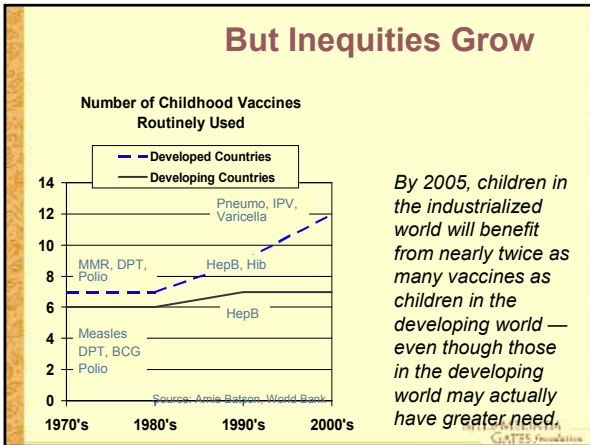
Smallpox Eradicated

1970-80's - Immunization programs established

1990's - Some donors decrease support, Growing Inequities, Infrastructure begins to decay

1970's 1980's 1990's 2000's

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Equity

Rights of Children; Access

Businesses, governments and philanthropists should work together to provide the life-saving vaccines that we take for granted to children around the world... Every child deserves access to these vaccines, and millions of lives can be saved. We can, and we should, do this together.

Unprecedented Partnership

Launching the Global Alliance for Vaccines and Immunizations (GAVI)

Saving Lives

Bill Gates

January, 2000

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Immunization Landscape

1990 - Universal Childhood Immunization

Smallpox Eradicated

1970-80's - Immunization programs established

2000 - New Alliance GAVI Launched

1998-99 - Gates Foundation Priority; CVP Launched

1990's - Some donors decrease support, Growing inequities, Infrastructure begins to decay

1970's 1980's 1990's 2000's

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GAVI Global Alliance for Vaccines and Immunization

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What is GAVI?

An Alliance

- Traditional and new partners
- Public and private sector

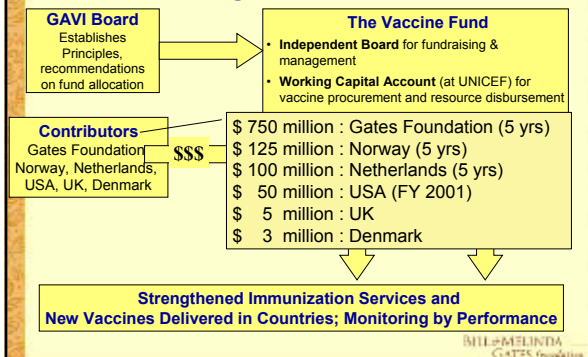
Partners have in common

- Understanding of the challenges
- Vision
- Set of strategic objectives & milestones

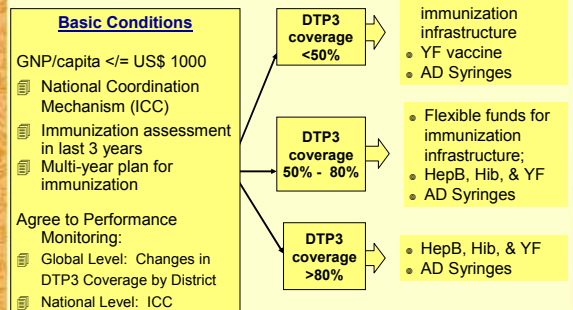
How does the Alliance work?

- Board (Chaired by Carol Bellamy)
- Small Secretariat (no program implementation)
- Working Group
- Task Forces :
 - Advocacy (UNICEF)
 - Country Coordination (WHO)
 - Financing (World Bank and USAID)
 - R&D (Academia, Industry, WHO)
- Regional Groups
 - Africa (2)
 - East Asia-Pacific
 - South Asia
 - Middle East
- National Interagency Coordinating Committees

The Vaccine Fund - Working in Collaboration with GAVI



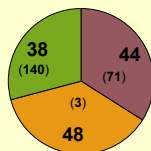
What will the Vaccine Fund support?



Target Children for the Vaccine Fund

Annual Birth Cohort in Millions

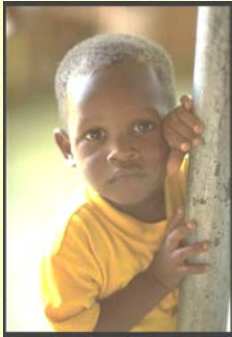
(Number of Countries)



- GNP/Capita \leq \$1000, Pop < 150 million
- China, India, Indonesia, Pop > 150 million
- GNP/Capita > \$1000

Recap

- Landscape is changing** - Reaching new peaks by reaching more children safely with priority vaccines
- Basic immunization infrastructure in place** offers great potential, but at risk for rapid decay
- Collaboration** catalyzing each partner to do their job more effectively
- Leadership** in parallel activities across the immunization continuum
- Additional Information**
 - GAVI: www.vaccinealliance.org;
 - CVP: www.childrensvaccines.org;
 - Gates Foundation: www.gatesfoundation.org



“The ward for measles, if you go there now, is empty! And tetanus -- it was killing many of our babies. In Muhimbili alone we were admitting 300 to 400 children per year to the hospital. Now it is down to only two! But while we see lots of progress, we still have our job cut out for us. There are children who don't get immunized at all and only the rich can afford hepatitis B or Hib vaccine. So we cannot rest, we must strive to bridge these gaps as soon as we can.”

*— Senior Officer, Health Services,
Tanzania*

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