

Fogarty International Center: New Directions

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Director, Fogarty International Center
Associate Director for International Research, NIH

93rd Meeting of the Advisory Committee to the
Director, NIH

December 1, 2006



JOHN E. FOGARTY
INTERNATIONAL
CENTER



Mission

- To address global health challenges through innovative and collaborative programs for research and training
- To support and advance the NIH mission through global partnerships

“Science for Global Health”

Rhode Island Congressman John Edward Fogarty



“... a man who, for more than a quarter of a century, worked tirelessly for a healthy America, in a healthier world.”

Congressman Melvin Laird
(R-WI) 1967



JOHN E. FOGARTY
INTERNATIONAL
CENTER

Goals

- Train the next generation of medical researchers – both US and foreign - in global health
- Build centers of research excellence abroad through collaborations and partnerships
- Diplomacy - Rebuild international relations through health
- Reduce health disparities and inequalities
- Increase America's involvement in global health
- Provide scientific leadership in issues of global health



National Institutes of Health

Office of the Director

National Institute on Aging

National Institute on Alcohol Abuse and Alcoholism

National Institute of Allergy and Infectious Diseases

National Institute of Arthritis and Musculoskeletal and Skin Diseases

National Cancer Institute

National Institute of Child Health and Human Development

National Institute on Deafness and Other Communication Disorders

National Institute of Dental and Craniofacial Research

National Institute of Diabetes and Digestive and Kidney Diseases

National Institute on Drug Abuse

National Institute of Environmental Health Sciences

National Eye Institute

National Institute of General Medical Sciences

National Heart, Lung, and Blood Institute

National Human Genome Research Institute

National Institute of Mental Health

National Institute of Neurological Disorders and Stroke

National Institute of Nursing Research

National Institute of Biomedical Imaging and Bioengineering

National Center for Complementary and Alternative Medicine

Fogarty

National Center for Research Resources

National Library of Medicine

National Center on Minority Health and Health Disparities

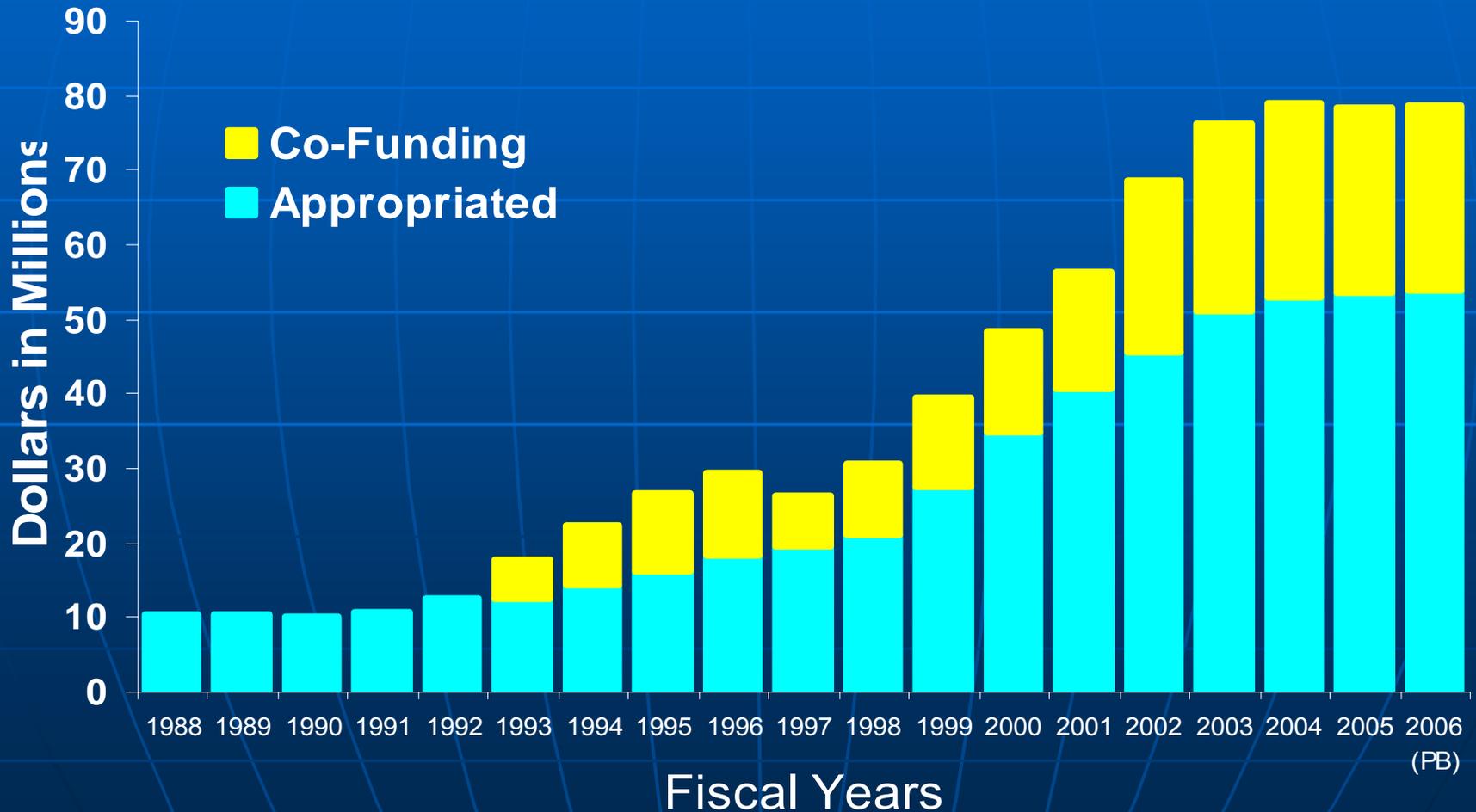
Clinical Center

Center for Information Technology

Center for Scientific Review

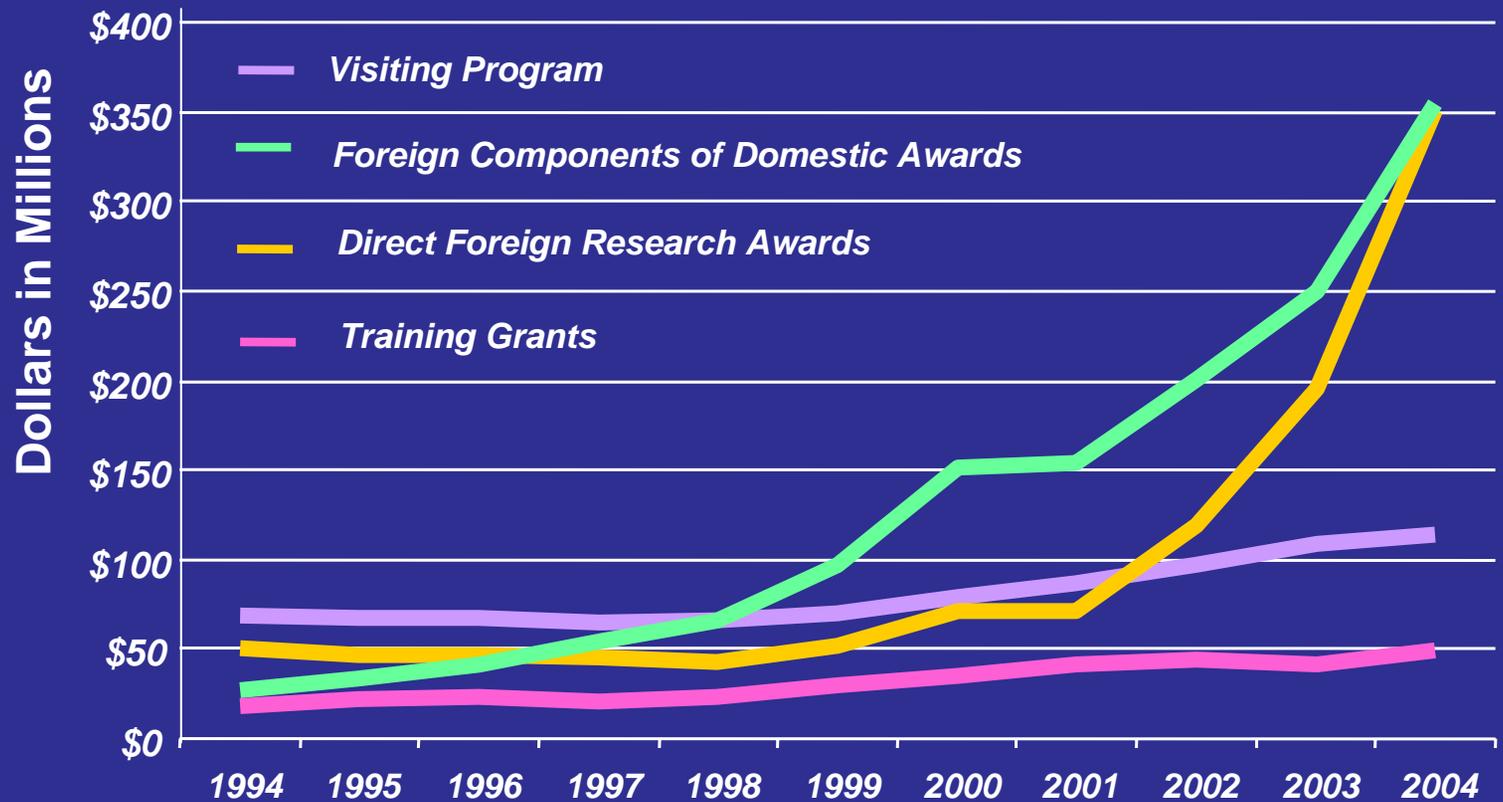
FIC Extramural Grants 1988-2006

Leveraging our resources

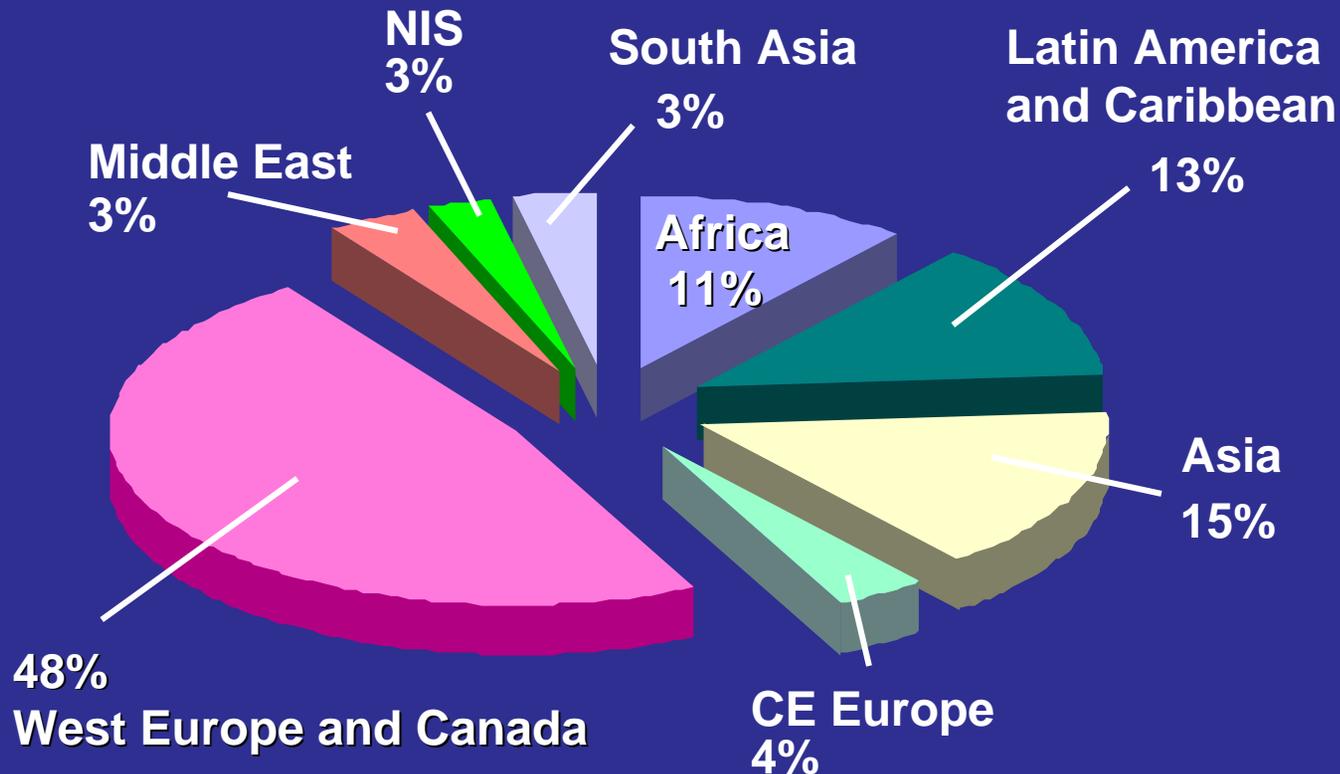


NIH Increased International Research Expenditures

Source: Fogarty International Center, Nov. 2005



NIH-Supported International Partnerships 2004

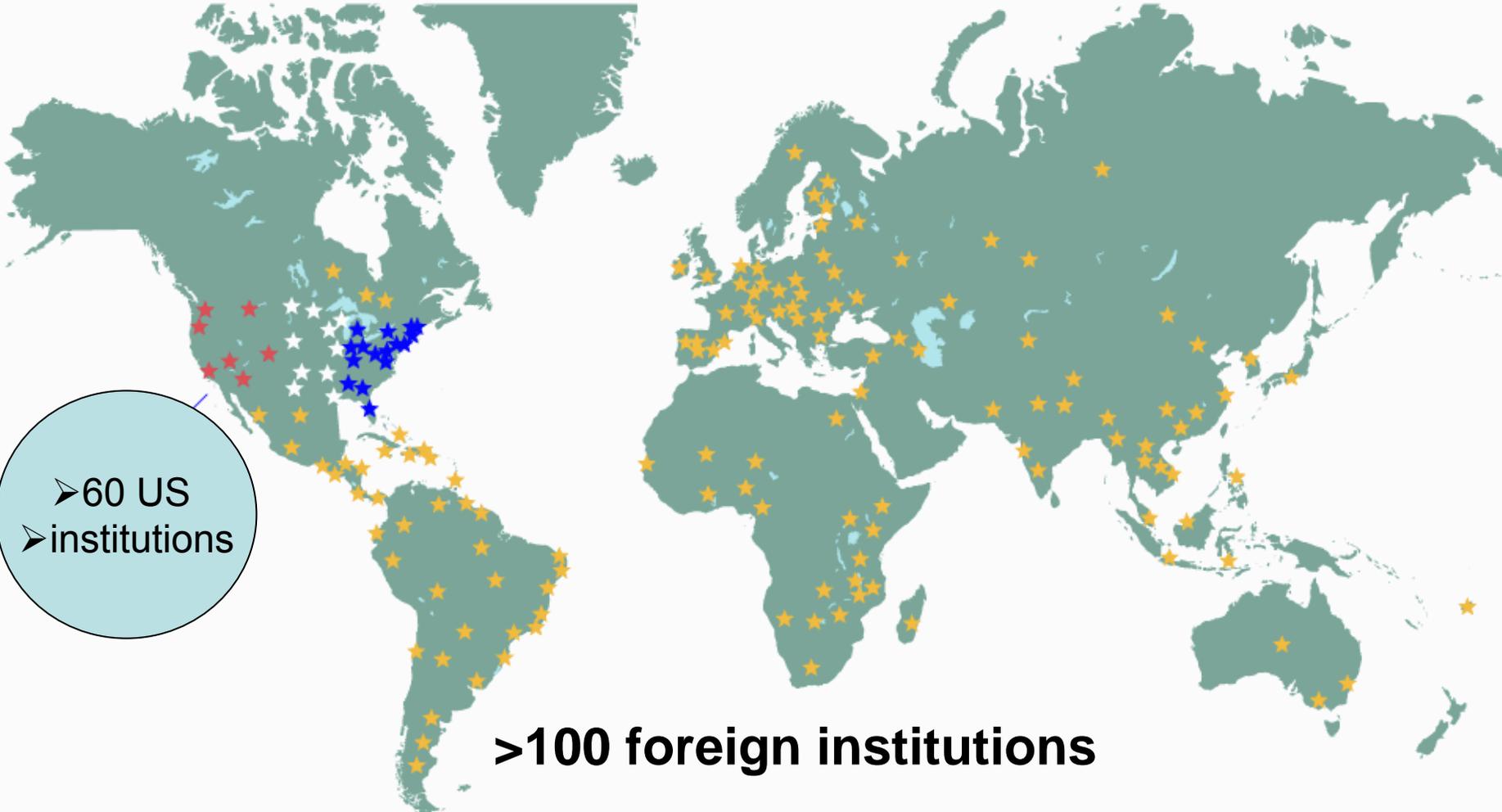


*These figures are based on the numbers of foreign components to US awards made in Fiscal Year (FY) 2004. In FY 2004, NIH supported 2,232 such partnerships for a total support of \$354 million. In FY 2003, there were 2,137 partnerships, for a total support of \$250 million.



Fogarty International Center

Major Research and Training Sites



The Fogarty Portfolio – an Alphabet Soup

Collaborative Research

Global Health Fellowships- U.S.

Research Training- Foreign

Development of Institutional Capacity



2006

\$68 million

> 400 grants



Pedro Chequer,
Director, National
STD/AIDS Program,
MOH, Brazil



Salim Abdool Karim,
Director, CAPRISA
S. Africa



Jean Pape,
Director, GHESKIO,
Haiti



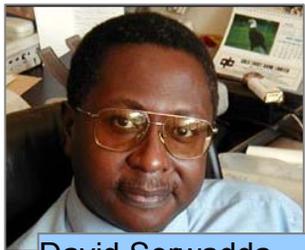
Philippa Musoke,
Chair of Pediatrics,
Makarere University,
Uganda



Glenda Gray,
Co-founder/Co-Director,
Perinatal HIV Research
Unit, Chris Hani
Baragwanath Hospital,
South Africa

AITRP (Aids Intn'l Training & Research Program (1988-...))

Investing in Leaders



David Serwadda,
Director, Institute of Public
Health, Makarere University,
Uganda



Marcos Espinal, Stop
TB Partnership
Secretariat, World
Health Organization



Zunyou Wu, Director, National
Center for AIDS/STD Control &
Prevention, Chinese CDC, China



Patricia Garcia, Chief,
National Institute of Health,
Peru

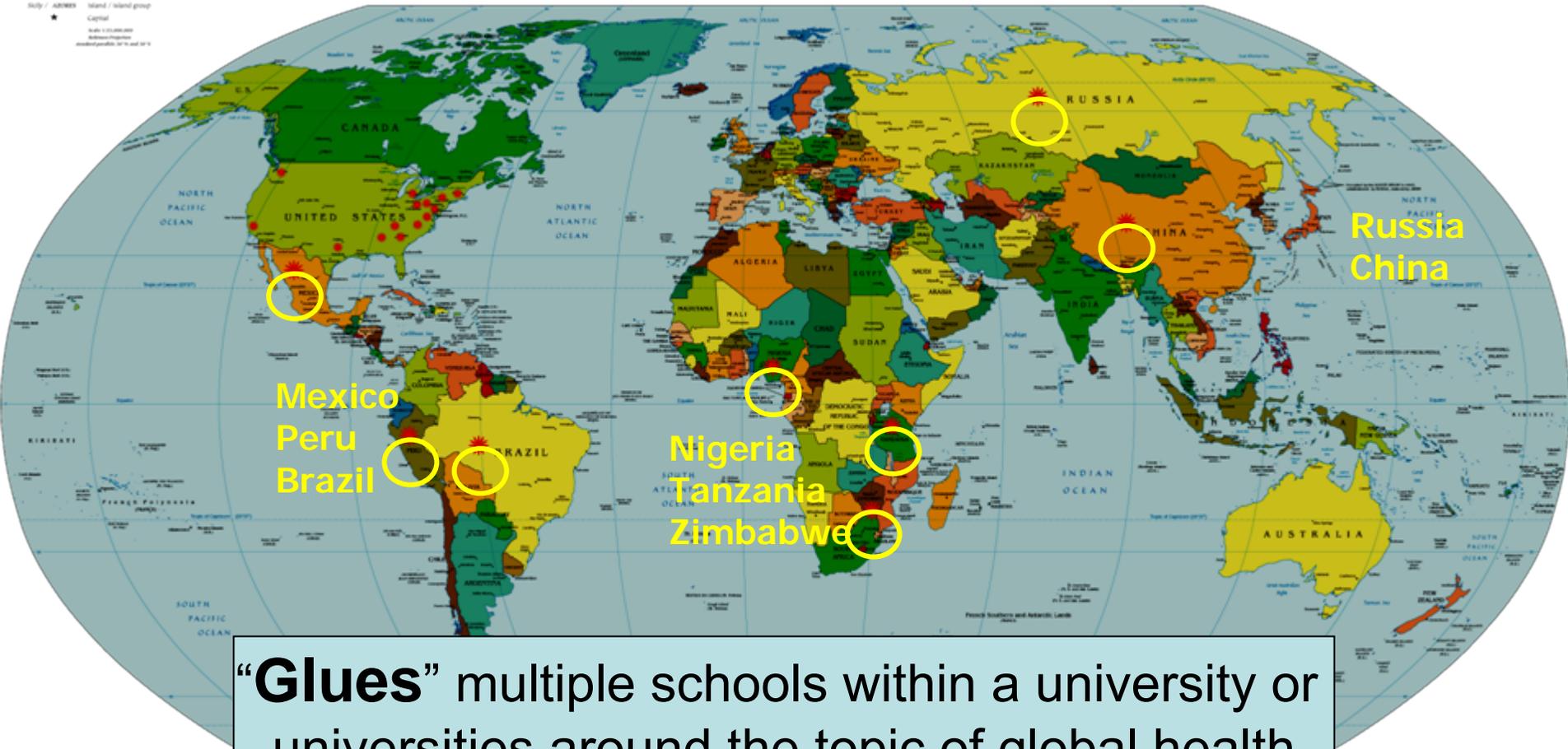


Ruth Nduati,
Faculty of Medicine, College of
Health Sciences, University of
Nairobi

Framework Program 2005-2006

Political Map of the World, April 2006

AUSTRALIA Independent state
Bermuda Dependency or area of special sovereignty
Cuba / ARMX Island / island group
★ Capital
NEW ZEALAND
Other countries
International date line



“**Glues**” multiple schools within a university or universities around the topic of global health
~19 US Programs

America's leaders in global health have early overseas training



Al Sommer
Hopkins
Bangladesh

Mike Merson
Duke
Bangladesh

Barry Bloom
Harvard
India

Bill Foege
CDC
Nigeria

Alan Rosenfield
Columbia
Nigeria, Thailand

Bob Black
Hopkins
Bangladesh

Palmer Beasley
Taiwan

Jeff Koplan
CDC/ Emory
Bangladesh

Tom Quinn
NIAID
Zaire

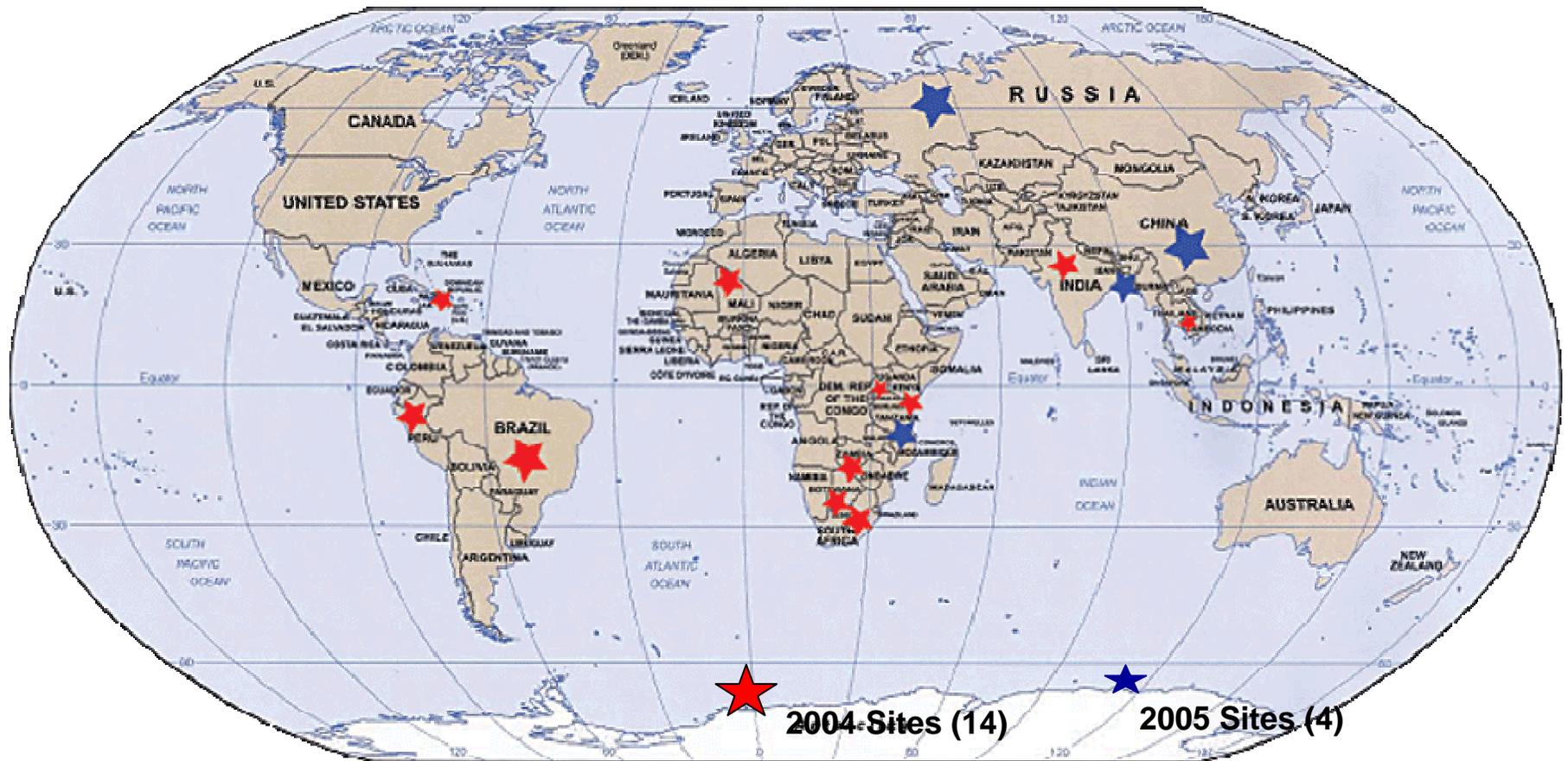
Dick Guerrant
U. Va
Brazil

Fogarty Ellison Scholars 2006

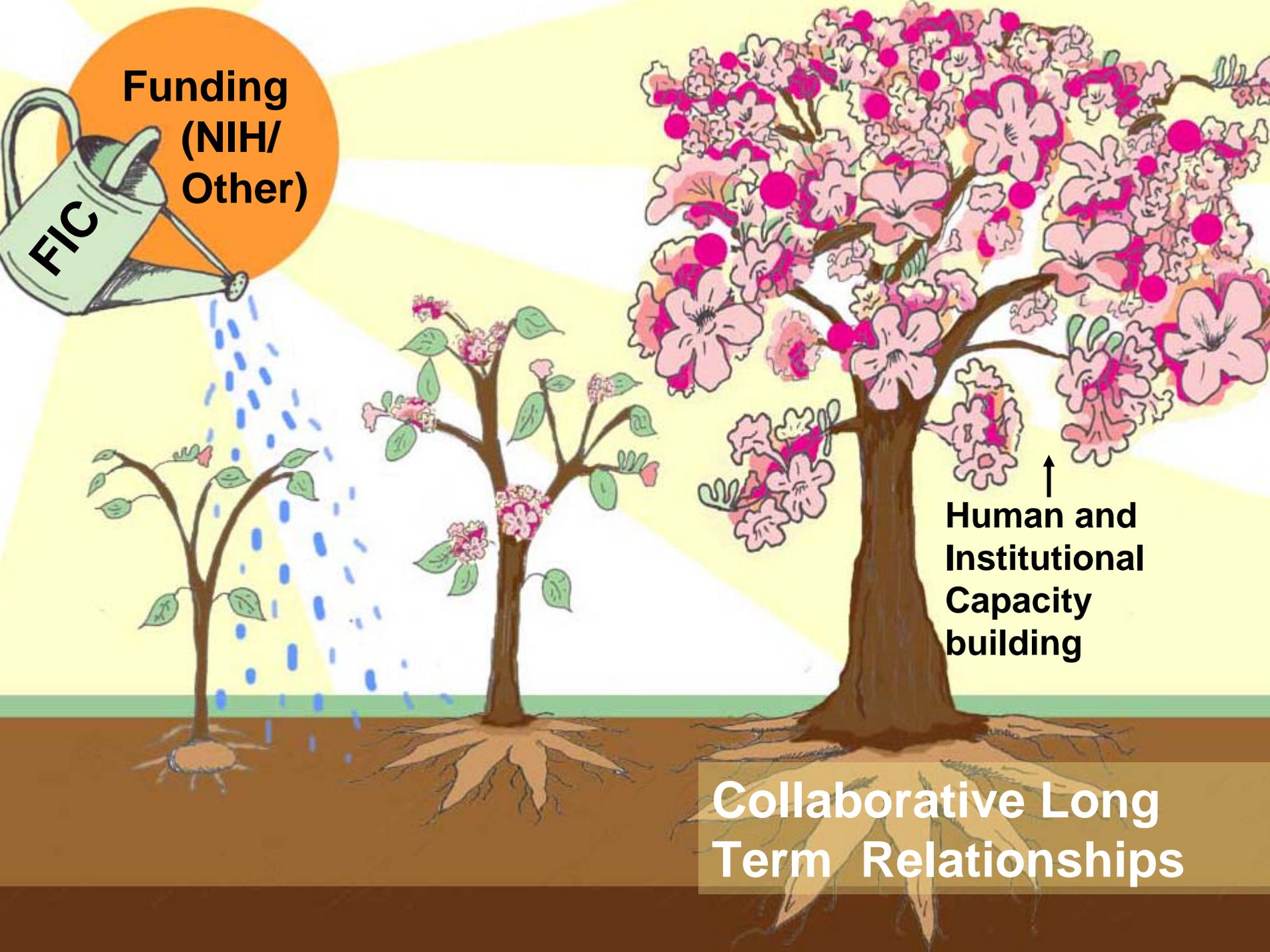


24 “pairs” of trainees going to 16 medical centers in the developing world

Fogarty- Ellison Overseas Fellowships in Global Health and Clinical Research



~25 medical & public health students spend 1 year overseas
Mentored clinical research experience paired with local trainee

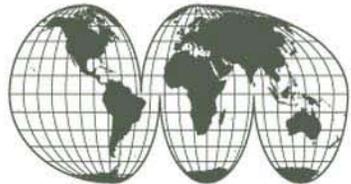


**Funding
(NIH/
Other)**

FIC

**Human and
Institutional
Capacity
building**

**Collaborative Long
Term Relationships**



DISEASE CONTROL
PRIORITIES PROJECT

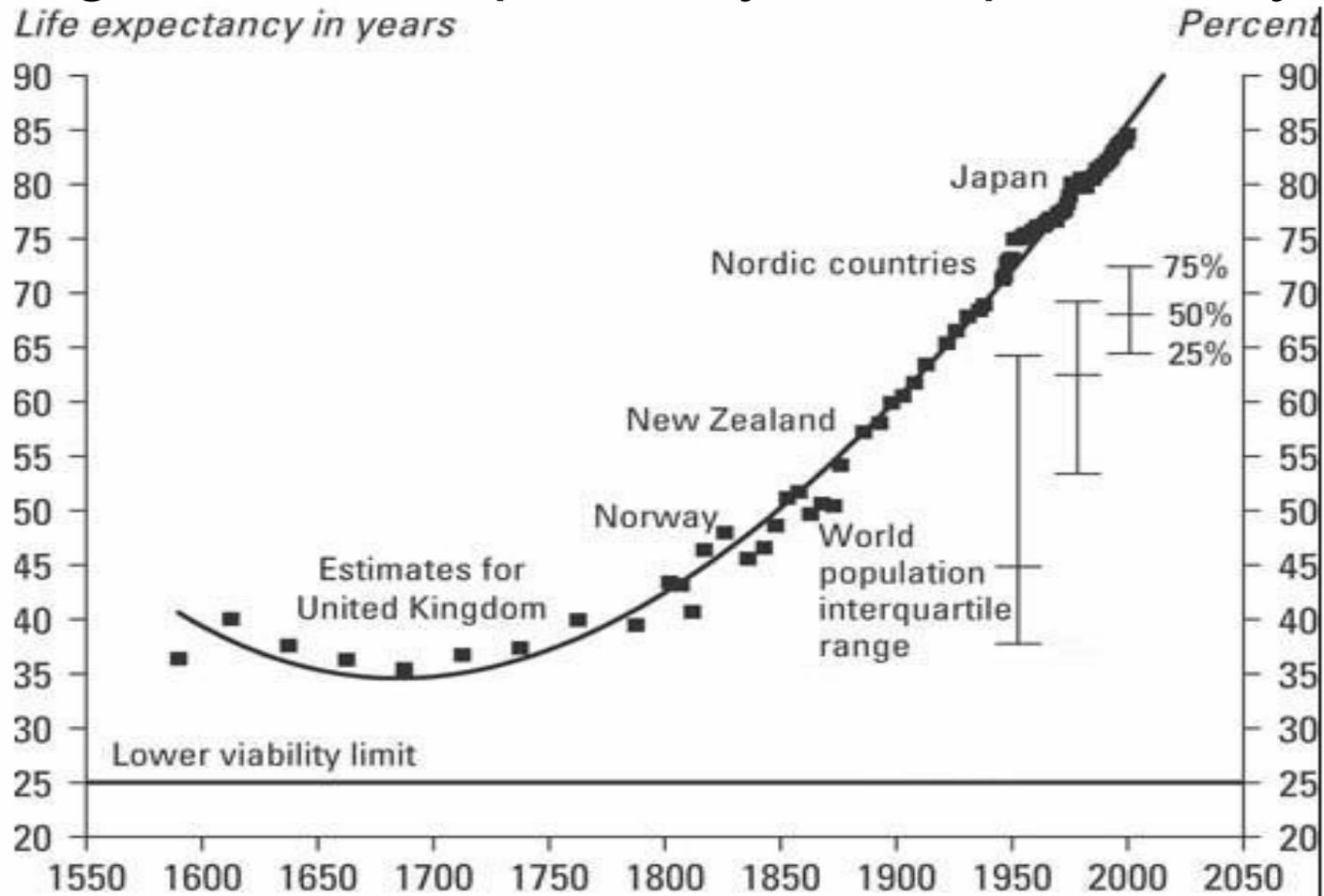


Investing in Global Health “Best Buys” and Priorities for Action in Developing Countries”

Fogarty International Center, the World Bank, the World Health Organization, and the Population Reference Bureau, 2006

The Question: *Can the world tackle its most challenging health problems?*

Changes in Life Expectancy in the past 500 years



Source: Oeppen 1999.

10 Best Buys for Health

1. *Prevent neonatal mortality*
2. *Ensure healthier mothers and children*
3. *Promote good nutrition*
4. Reduce deaths from cardiovascular disease
5. *Stop the AIDS pandemic*
6. *Stop the spread of tuberculosis*
7. *Control malaria*
8. Combat tobacco Use
9. Reduce fatal and disabling injuries
10. Ensure equal access to high-quality health care

**Items in blue have an infectious etiology*



Feature Story: Taking Prosperity to Heart

Rising cardiovascular disease rates accompany economic development around the world, but cost-effective prevention and treatment can save countless lives.

[Learn More](#) | [Past Features](#)

About DCP2

The **Disease Control Priorities Project (DCPP)** is an ongoing effort to assess disease control priorities and produce evidence-based analysis and resource materials to inform health policymaking in developing countries. DCP2 has produced three volumes providing technical resources that can assist developing countries in improving their health systems and ultimately, the health of their people. [More](#)

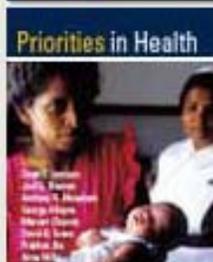
DCPP Publications [Website: DCP2.ORG](http://dcp2.org)

Disease Control Priorities in Developing Countries

The second edition of this seminal work (DCP2), written by more than 350 specialists in diverse fields from around the world, provides the results of indepth research, offers insightful analyses, and proposes context-sensitive policy recommendations to significantly reduce the burden of disease in developing countries and to improve the quality of life for all people.

Priorities in Health

This companion volume distills the essence of DCP2 into a succinct and readable format, providing information on how to devise better strategies, policies, and choices among health interventions; how to put those decisions into practice; and how to



Browse by:
[Disease/Condition](#)
[Region/Country](#)
[Topic](#)
[Intervention](#)

Download Data Files

Create and download your custom book

Combine your selection of chapters into a single PDF for

QUICK BROWSE

Find specific content in the three core DCP2 publications.

Region

Country

Disease / Condition

Topic

EXPERT Q&A

DEAN T. JAMISON [bio](#)

THE LANCET

Volume 368 Number 9545 Pages 1393-1406 October 21-27, 2006

www.thelancet.com

Health Diplomacy

“Health is now the most important foreign policy issue of our time.”

See Comment page 1395

Articles

Deaths in Iraq: January 2002, to July 2005
See page 1421

Articles

Antibiotics for acute otitis media
See page 1429

Articles

Treatment of severe tetanus with magnesium sulphate
See page 1435

Articles

Amniotic-fluid embolism after medical induction of labour
See page 1444

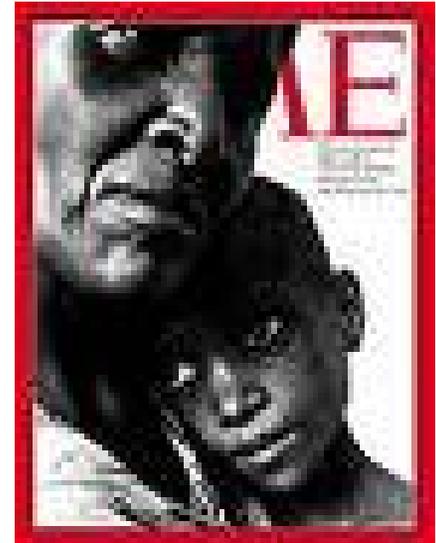
Review

Oral renin inhibitors
See page 1449

Presidential Initiatives in Africa



**President's Emergency Program
For Aids Research PEPFAR
\$15 B – 5 years**



**Efforts to control
avian flu and
emerging infections**



**President's Malaria Initiative - PMI
\$1.2 B – 5 years**

“Implementation Science”

International Collaborations



Professor M.K. Bhan, Secretary of the Department of Biotechnology negotiating agreements with NIH on HIV, child health, eye disease, Vaccines, emerging infections, biotechnology,

Selected Middle East Partnerships



1. HIV and Drug Use (*Iran*)
2. Mustard Gas Exposure and Lung Carcinogenesis (*Iran*)
3. Esophageal Cancer (*Iran*)
4. Tobacco control (*Syria*)
5. Deafness gene in Palestinian Newborns (*Israel/Palestine*)
6. Health Impacts of Khat use – FIRCA. First NIH grant, first IRB (*Yemen*)

Israeli-Palestinian Cooperation



Building Bridges in a Battle-Scarred Land

With peace tantalizingly close, a handful of joint Israeli-Palestinian research projects show that collaboration is not only possible but also beneficial

TEL AVIV—Hashem Shahin's career suffered some collateral damage from the recent Palestinian uprising, or intifada, and from

is a long collaboration between Shahin's Palestinian and Israeli supervisors, Moien Kanaan of Bethlehem University in the West

nership. This is a prescription says Abdeen. Warburg agrees: "Here, Palestinian and Israeli are on an equal footing."

The rare success stories from the effects of the conflict: Moien Kanaan, a resident of East Jerusalem does not have to travel in Israel, one Palestinian supervisor, Moien Kanaan of Bethlehem University in the West insisted on anonymity says that such roadblocks have hindered



The Genetics of Hearing Loss

Mary-Claire King- University of Washington -Seattle

Moien Kanaan – Bethlehem Univ., Palestine

Karen Avraham- Tel Aviv Univ., Israel

"It meant the world to me."

ist Mary-Claire King of the University of

*FIRCA "Seed Grants"
Fogarty International Research
Collaboration Award (FIRCA)*

Iranian Delegation to NIH, Dec, 2006





Kaveh Khoshnood

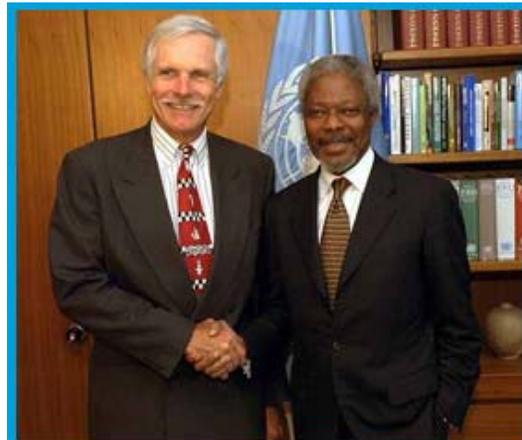
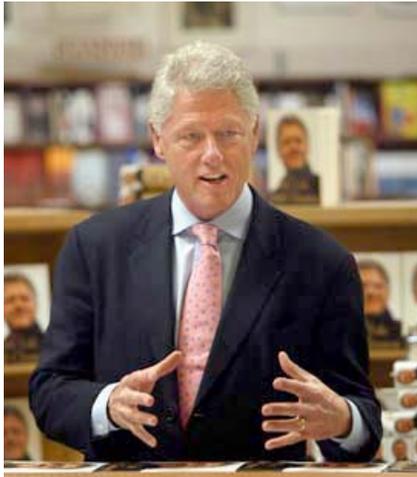


Arash Alaei



Navid Madani

New Advocates for Global Health



UN/DPI Photo No. 195059C
by Milton Grant

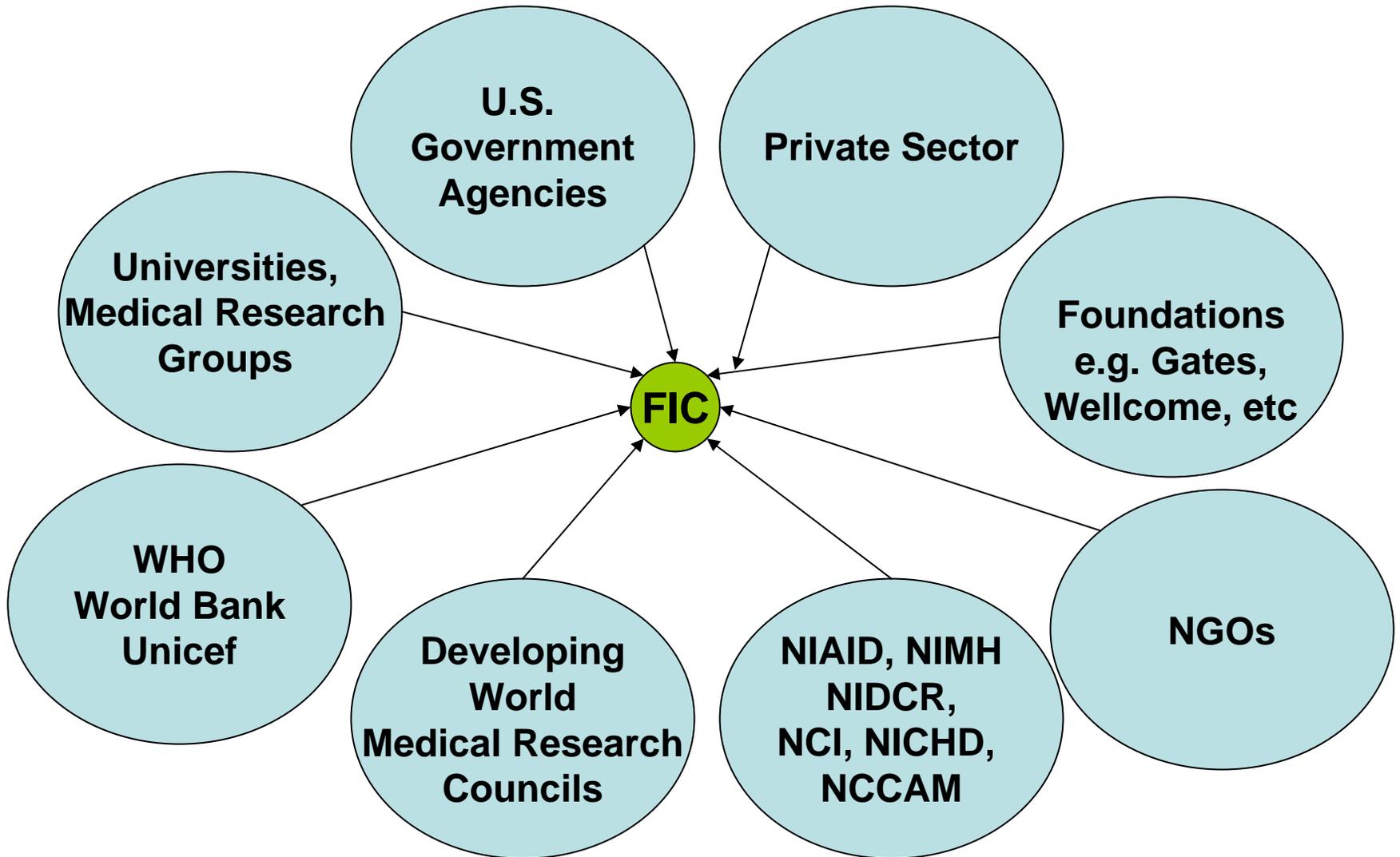


New Global Health Efforts

ORGANIZATION	FOCUS	YEAR LAUNCHED	DONORS	PLEGGED, COMMITTED, OR SPENT FUNDS*
Bill and Melinda Gates Foundation	Global health	2000	Bill and Melinda Gates	\$6.2B
The Global Fund to Fight AIDS, Tuberculosis and Malaria	Financing treatment and prevention	2002	Governments, foundations, corporations	\$8.6B
President's Emergency Plan for AIDS Relief (PEPFAR)	Financing and delivery of HIV/AIDS prevention and treatment	2004	U.S. government	\$15B
International Finance Facility for Immunization	Financing vaccine delivery/GAVI	2005	U.K., France, Italy, Spain, Sweden	\$4B
Multi-Country HIV/AIDS Program	Financing scale-up of existing government and community prevention and treatment efforts	2000	World Bank	\$1.1B
Global Alliance for Vaccines and Immunization (GAVI)	Financing and delivery of childhood vaccines	1999	Gates Foundation, governments	\$3B
Public-Private Partnerships	Drugs, vaccines, microbicides, diagnostics	n/a	Philanthropists, governments, industry	\$1.2B
Anti-Malaria Initiative in Africa	Cut malaria incidence in half by 2010 in 15 countries	2005 (proposed)	U.S. government	\$1.2B
United Nations Foundation	Children's and women's Health	1998	Ted Turner	\$360M

* Overlap exists between organizations (e.g., PEPFAR money supports the Global Fund).

Potential Partners for Global Health



Bringing Issues of Global Health to NIH:

Engaging the other Institutes & Centers

Sir Richard Peto
Fogarty Scholar in Residence
July, 2006

Discussions of

Halving Cardiovascular Disease
Halving Malaria
Halving Neonatal mortality
Addressing Mental illness

Sir Richard Peto
of the Clinical Trial Service Unit & Epidemiological
Studies Unit, University of Oxford

at NIH

Halving premature death:

Is it realistic?

July 13, 2006
12:00 to 1:15 p.m.

Room E1/E2
Natcher Conference Center
National Institutes of Health
Bethesda, MD

Richard Peto

Design by Julie Marquardt of FIC

2006 David E. Barmes Global Health Lecture

presented by

Dr. Barry R. Bloom

Dean, Harvard School of Public Health

agendas &
architecture
of
global health
research

December 4

12:00 Noon
to 1:00 PM

Masur Auditorium

Building 10 (Clinical Center)
National Institutes of Health
Bethesda, MD

Sponsored by the Fogarty International Center and the
National Institute of Dental and Craniofacial Research

Coming Attraction December 4, 2006

2006 Barmes Global Health Lecture

Dr. Barry R. Bloom

Dean, Harvard School of Public Health



December 4, 12:00 Noon to 1:00 PM
Masur Auditorium, Building 10

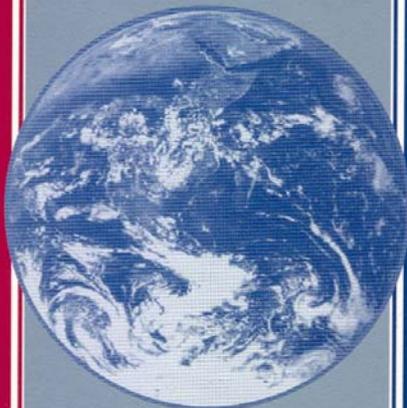


“Now more than ever, an informed, proactive, and unified strategy will be key to advancing the science needed to improve *the health of the world.*”

How has the American Public Benefited from Collaborative International Health Research

- Anti malarial therapy - Artemisinin
- First Chemotherapy for Cancer
- Oral rehydration therapy
- Huntington's gene discovery www.nih.gov/25th/Outlook 2003.Ink
- Viral antecedents of CA - Burkitts lymphoma
- Identifying emerging infections (SARS/Ebola/AI)
- HIV vaccine research
- Traditional medicines research
- ***We have all benefited in ways untold !***

AMERICA'S
VITAL
INTEREST
IN
GLOBAL
HEALTH



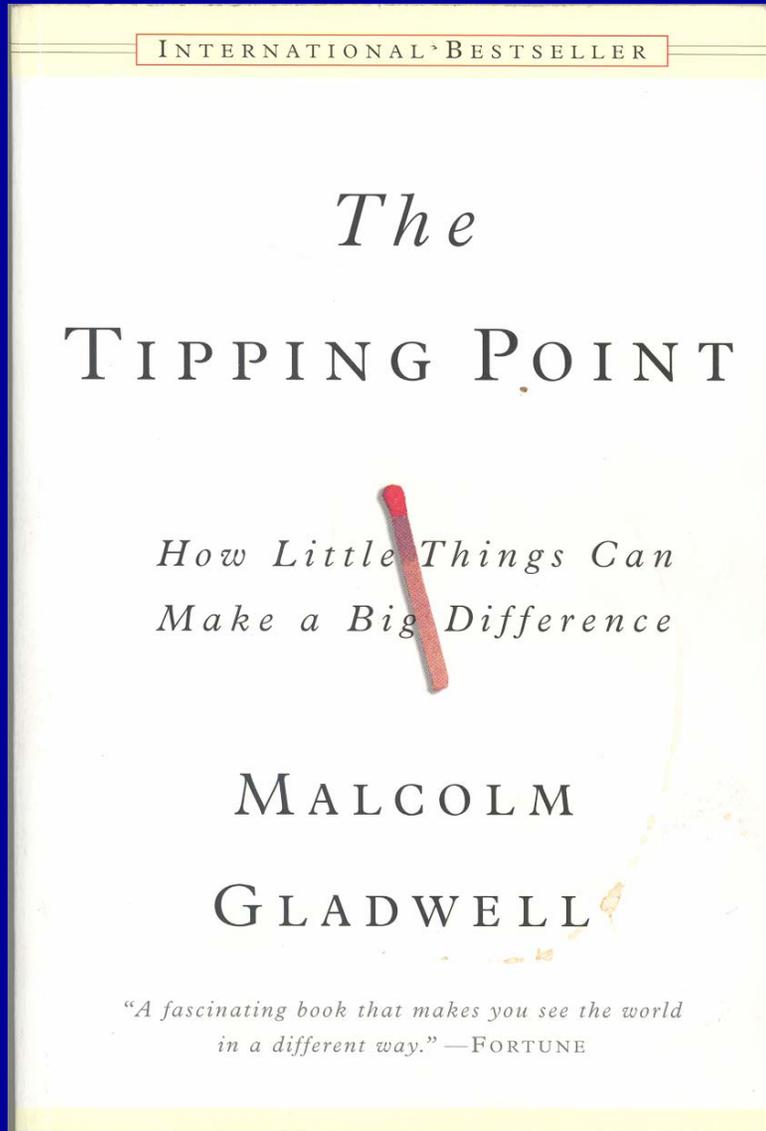
INSTITUTE OF MEDICINE

1997 IOM Report

“The United States is currently the global leader in biomedical research...”

The failure to engage in the fight to anticipate, prevent, and ameliorate global health problems would diminish America's stature in the realm of health and jeopardize our own health, economy, and national security”

Has Global Health reached “the tipping point?”



The tipping point is that magic moment when an idea, trend, or social behavior crosses a threshold, tips, and spreads like wildfire. Just as a single sick person can start an epidemic of the flu, so too can a small but precisely targeted push cause a fashion trend, the popularity of a new product, or a drop in the crime rate.....

Where do we go from here?



We stand at a unique tipping point in global health. Political concern, new economic understanding, broader funding, novel scientific advances, and global consciousness are all acting in concert to enable improvements in the health of underserved populations.

We need to seize this opportunity and build on its momentum!