

PERSPECTIVES ON IMMUNIZATION SUPPLY CHAINS

prospects and opportunities for the future

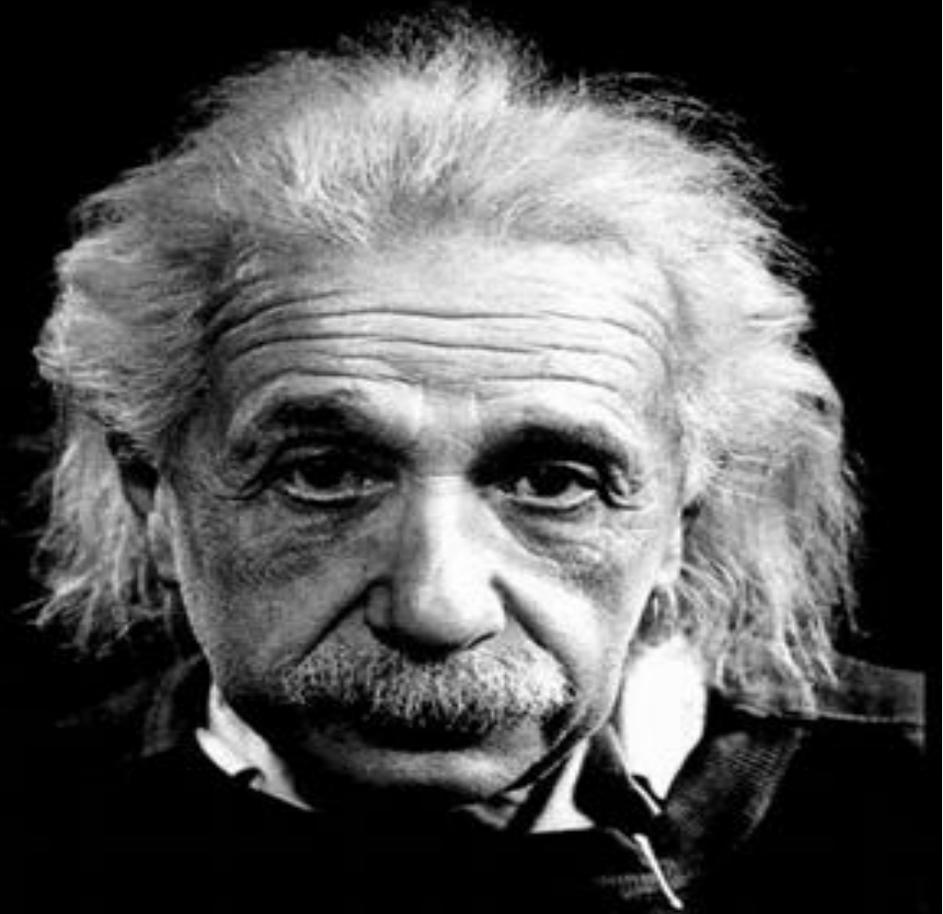
May 11, 2015

Raja Rao

Random Thoughts...On the supply chain...
In the context of our work in global development
Innovation and the Long Road ...
Documenting success... And... Perspectives on...
Future Approaches

“Everything should be made
as simple as possible,
but not simpler.”

Albert Einstein



Complexity...

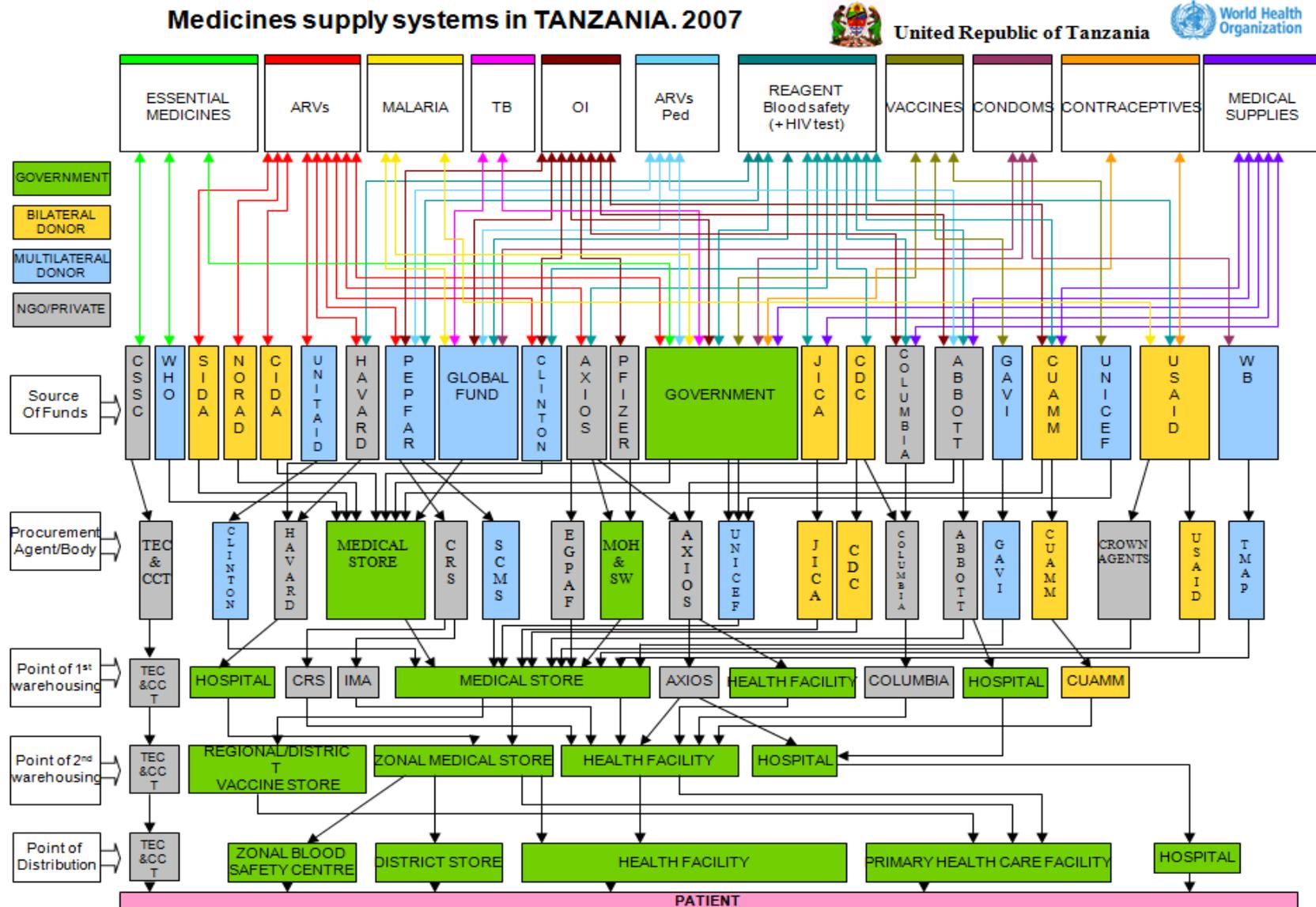
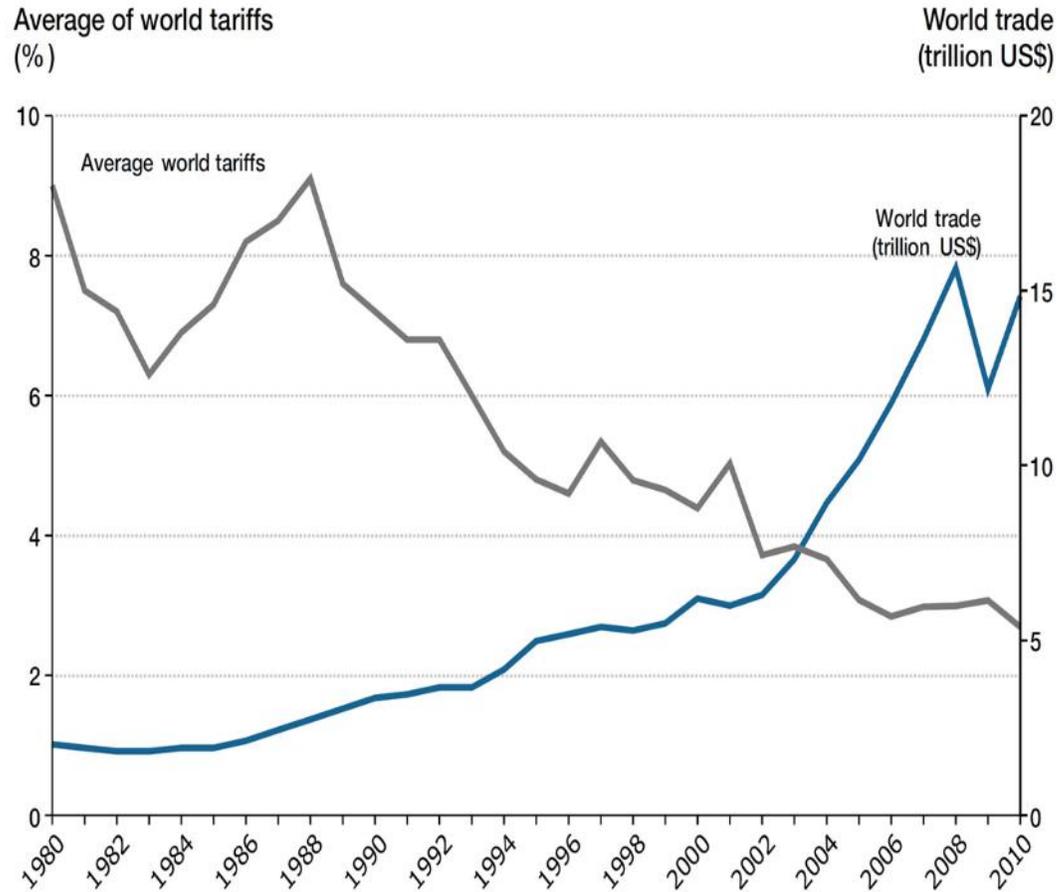


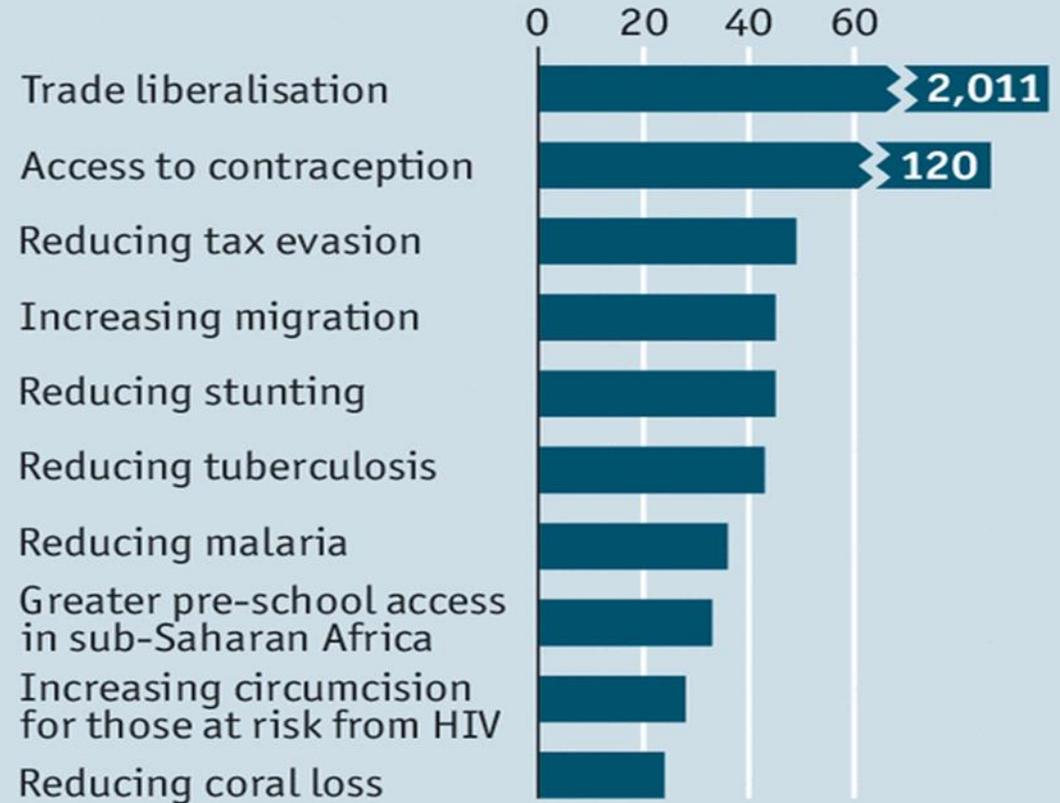
Figure 1: Tariff removal has been successful in increasing trade



Source: Tariffs adapted from Coatsworth and Williamson, 2002 and Mitchel, 1992; referenced in Nenci, 2009; World Bank, World Trade from World Trade Organization report, 2012.

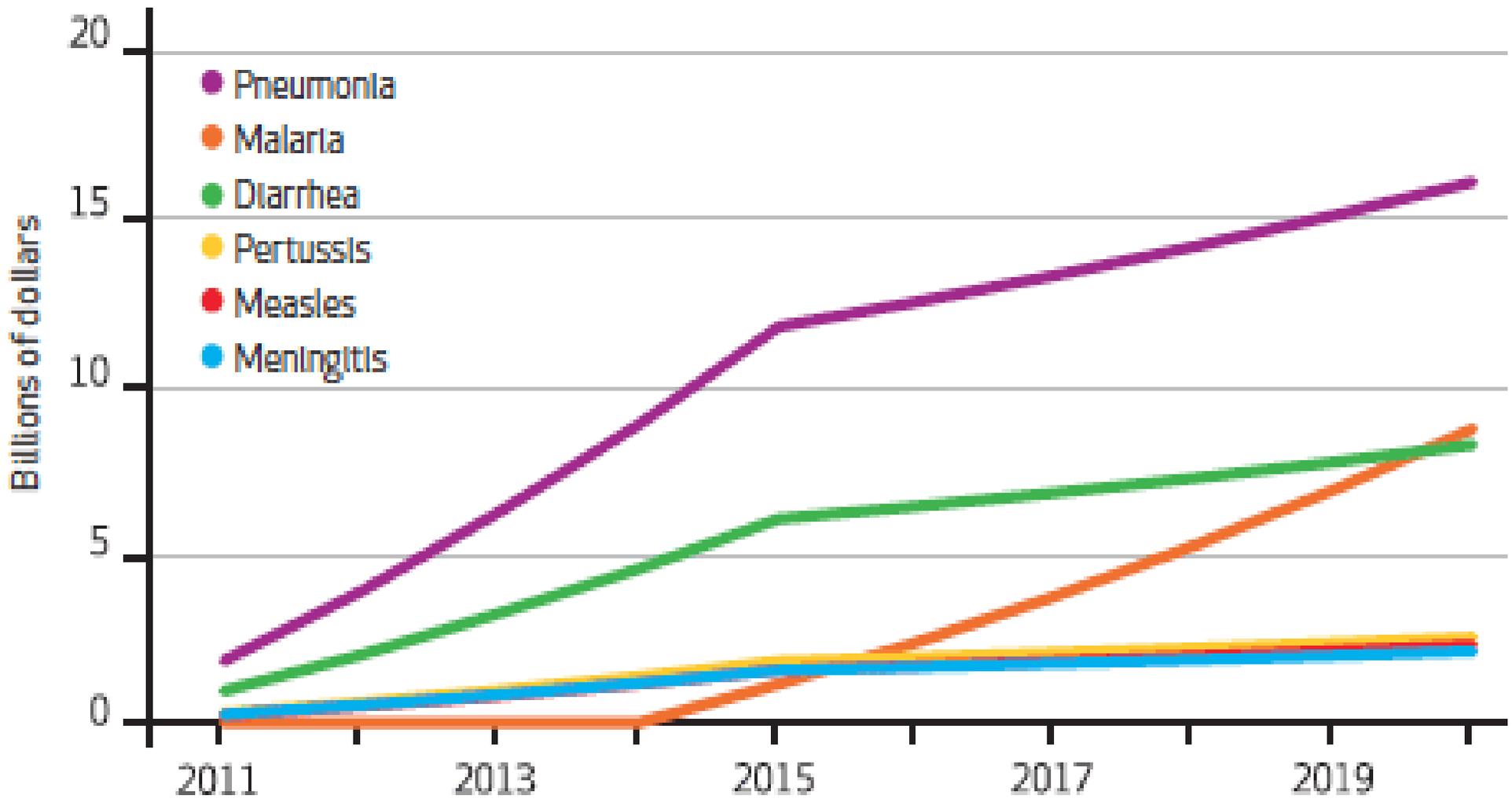
No-brainers

Benefit per dollar spent for various development targets, \$



Source: Copenhagen Consensus Centre

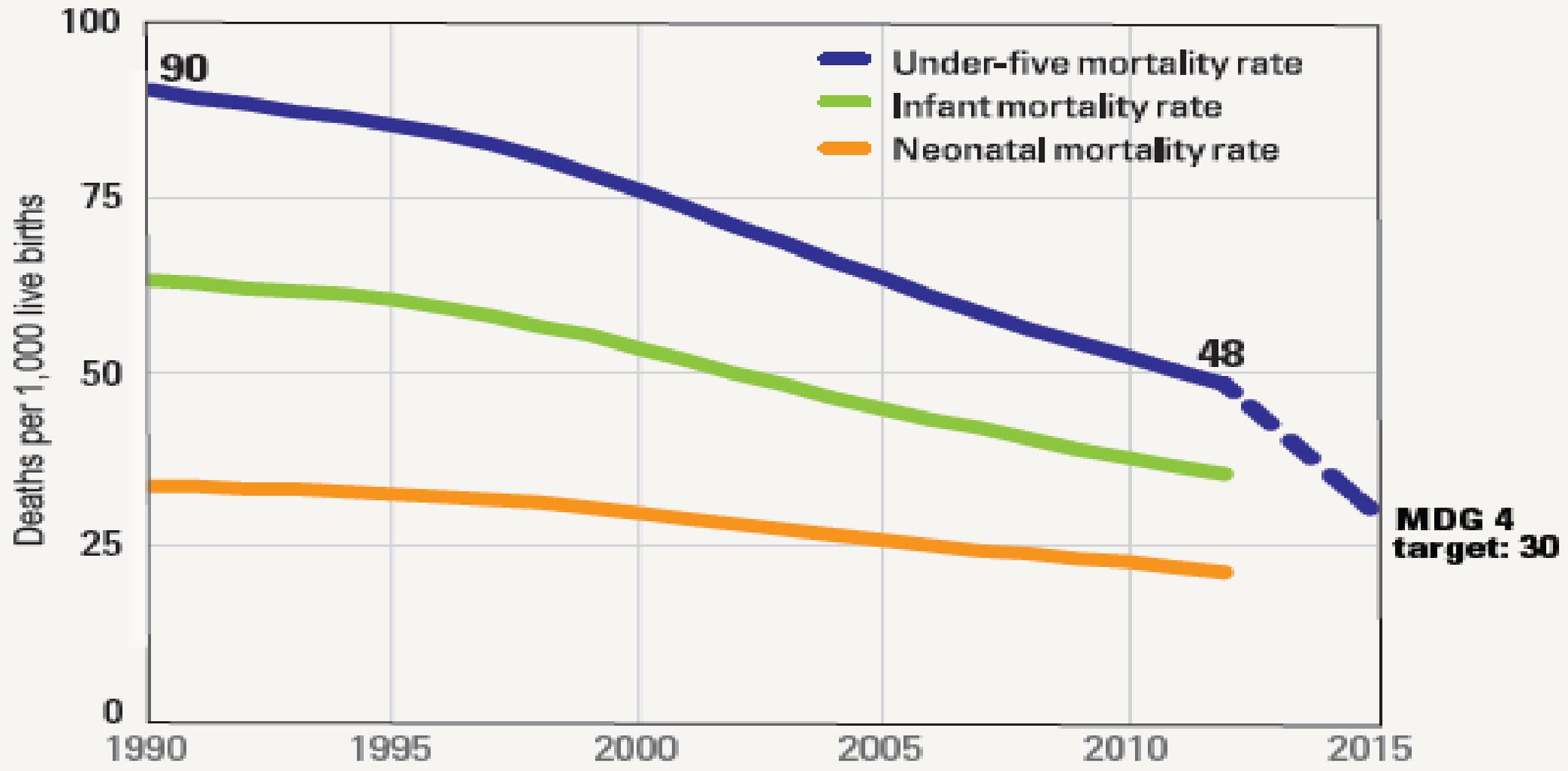
Annual Value-Of-Statistical-Life Savings, By Vaccine-Preventable Disease, 2011-19



The global under-five mortality rate has almost halved since 1990

FIG. 1

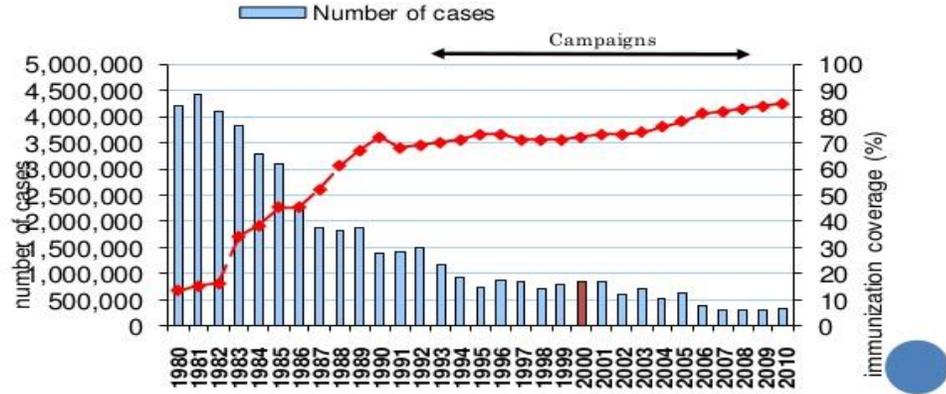
Global under-five, infant and neonatal mortality rates, 1990–2012



Source: UN Inter-agency Group for Child Mortality Estimation (IGME) 2013.

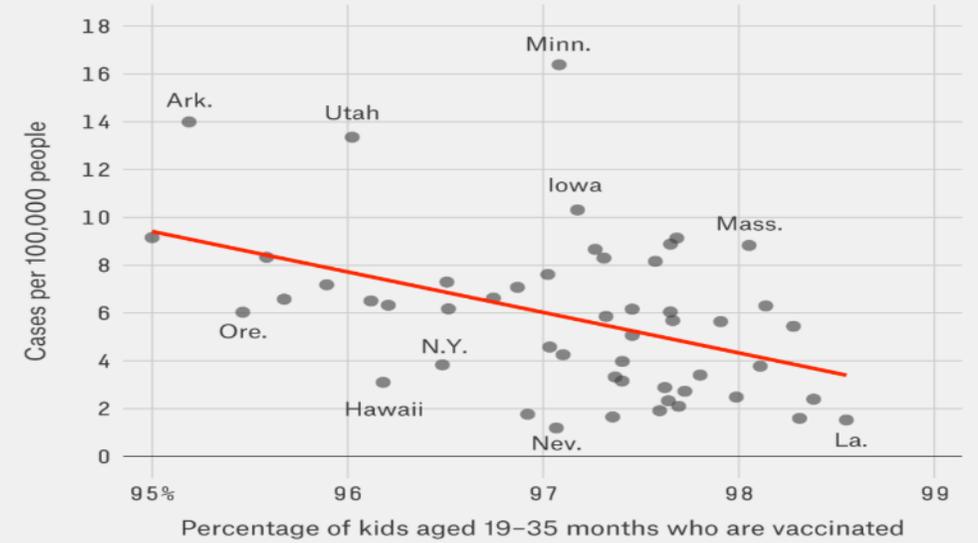
GLOBAL CASES

Measles global annual reported cases and MCV coverage, 1980 to 2010



Whooping Cough Cases And Vaccination Rates

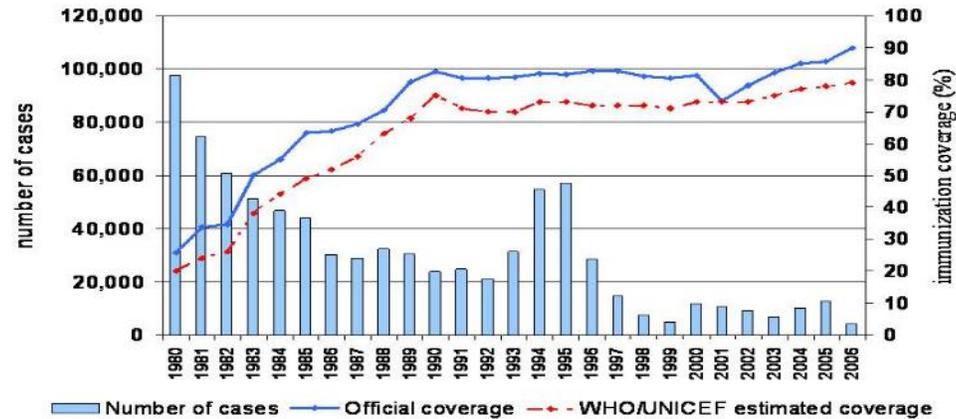
By state, 2012



FIVETHIRTYEIGHT

SOURCE: NATIONAL IMMUNIZATION SURVEY

Diphtheria global annual reported incidence and DTP3 coverage, 1980-2006

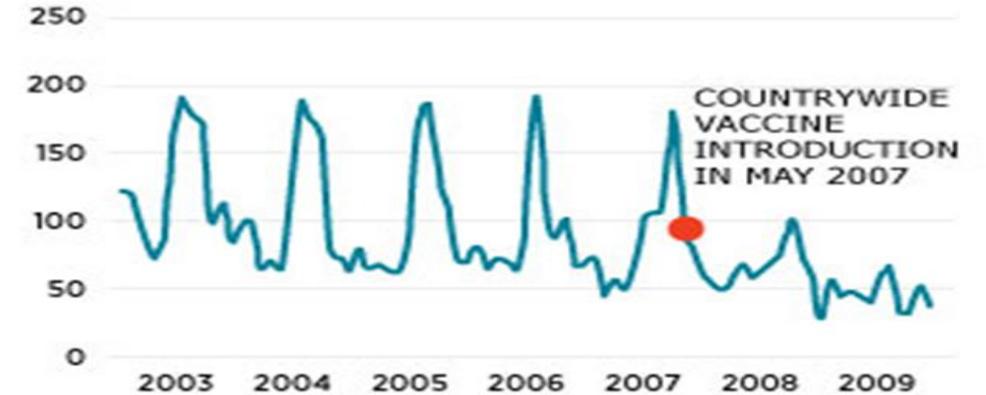


Source: WHO/IVB database, 2007
193 WHO Member States. Data as of September 2007

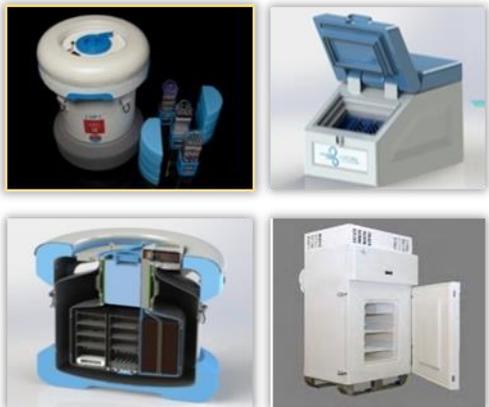
Date of slide: 04 October 2007



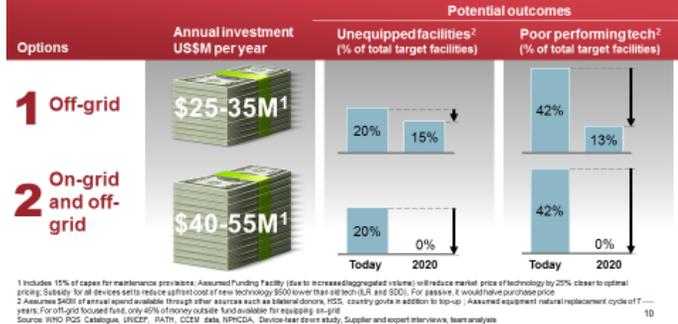
NUMBER OF DIARRHEA-RELATED DEATHS PER MONTH AMONG 11-MONTH-OLD CHILDREN IN MEXICO



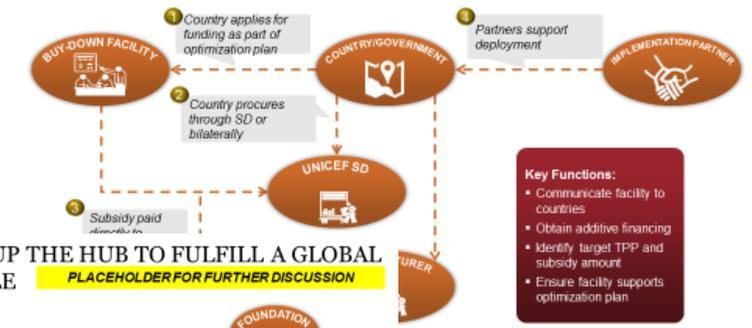
SOURCE: NEW ENGLAND JOURNAL OF MEDICINE.



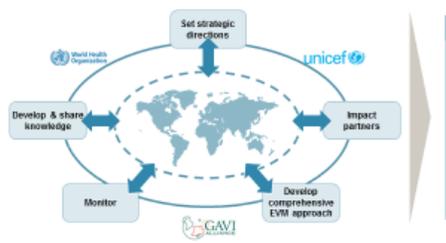
THE FUND COULD HAVE BIG IMPACT FOR ~\$50M IN TOTAL COST/YEAR



ILLUSTRATIVE FACILITY PROCESS FLOW

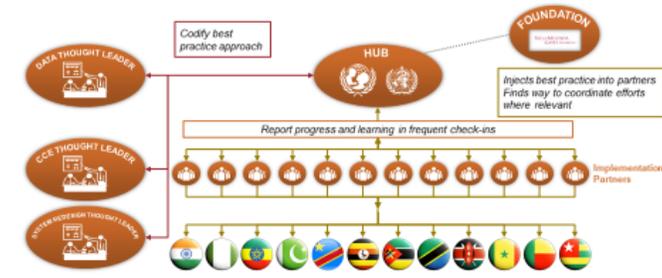


GLOBAL: ACTIVITIES MANAGED AND COORDINATED THROUGH GAVI ALLIANCE AND NEWLY CREATED HUB



- Primary activities of the Hub**
- Enhancing global collaboration
 - Setting the standards
 - Catalyzing in-country
 - Coordinating implementation
 - Developing

WE WILL HELP SET UP THE HUB TO FULFILL A GLOBAL COORDINATING ROLE



COLD CHAIN INNOVATIONS SUCH AS THE P6 CAN NEW APPROACHES TO ISC SYSTEMS



The hold time of the P6 is opening the door to extend and new delivery methods

- Enables 1-3 day travel to remote locations on a regular basis

"Ethiopia's vaccination rate is still over 80% yet in Afar some of the Woredas have only achieved 35%. The P6s deployed in Afar are helping to change this." — BMGF Field Report

"Before the P6 we didn't do routine vaccinations in this Woreda, only measles and polio campaigns." — UNICEF technician, Ethiopia

New technologies being researched at Global Good could further revolutionize the way systems and outreach are designed today

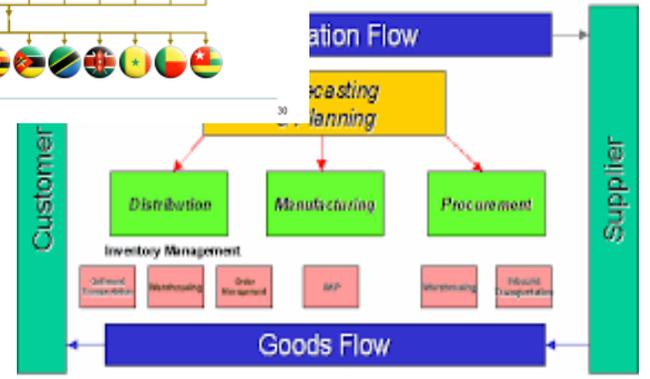
SYSTEM REDESIGN STRATEGY

- Challenges addressed:**
- Poor forecasting/inventory management
 - Many cancelled sessions
 - Slow movement of vaccines
 - Sub-optimal use of staff
 - High logistics cost/ dose
- Goal:**
- Transform supply chains in a small number of countries at scale by making them high-performing and sustainable
 - Use these countries as models for others



SOURCE: BMGF

13



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THANK YOU

