CEO Board presentation

Seth Berkley MD, 22 June 2016



Gavi 3.0 TRANSITION Gavi 4.0

IMMUNISATION ON THE GLOBAL AGENDA



A transition period

- Decade of Vaccines: midpoint
- New leaders: US President, WHO Director-General, UN Secretary-General, German Chancellor?
- New sustainable development goals vaccine indicator?
- Global focus on outbreaks













G7 summit, Japan, May 2016



"The promotion of UHC requires provision of services to protect and improve the health of all individuals throughout their life course... In this regard, we welcome platforms such as Gavi the Vaccine Alliance"

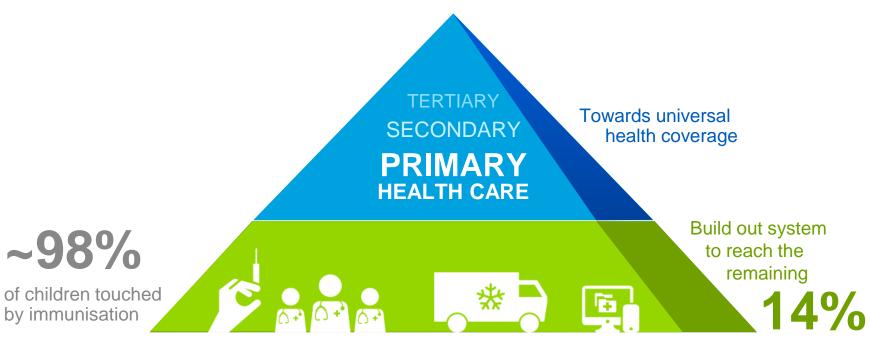
G7 Leaders' Declaration

Credit: Japanese cabinet

IMMUNISATION ON THE GLOBAL AGENDA



Immunisation: a platform for universal health coverage

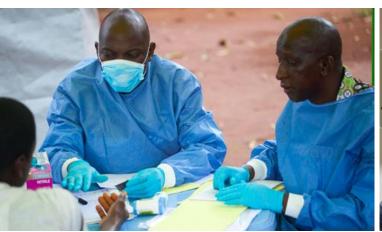


IMMUNISATION PLATFORM

Board meeting 22-23 June 2016 **86%** of children reached through routine immunisation

Outbreaks threaten health systems: Ebola example

- Two-year anniversary of outbreak, February 2016
- Flare-ups in Liberia and Guinea (latest in April) with good emergency response from the countries
- 300,000 doses through Gavi's advance purchase commitment available for use in clinical trials and emergencies







Yellow fever: Angola outbreak

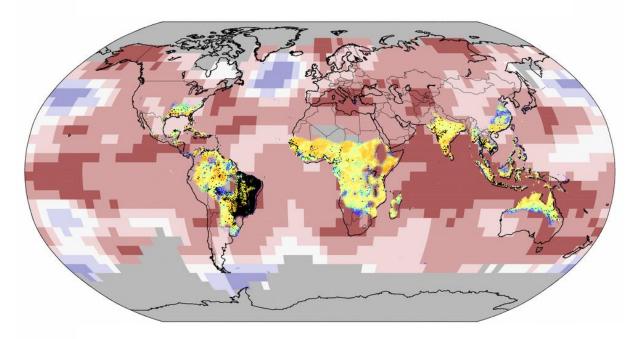
- Exported cases to China, Kenya, DRC
- Separate outbreak in Uganda
- Confirmed cases in Chad, Sao Tome, Congo, Ghana, Brazil, Peru, Colombia
- Gavi supported 5.4m vaccine doses for Angola so far, invested 12m doses in 2016 stockpile
- Working with WHO to manage current outbreak and review strategy for routine, campaigns and stockpiles

Yellow fever infected districts in Angola





Climate change and distribution of Aedes Aegypti



Aedes Aegypti



The global distribution of Aedes Aegypti

Occurrence of Aedes Aegypti plotted on prediction surface (from 0 to 1 yellow) at a spatial resolution of 5 km x 5 km

Source:

https://elifesciences.org/content/4/e08347/figure1/figuresupp4

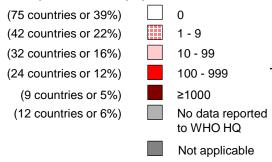


IMMUNISATION ON THE GLOBAL AGENDA

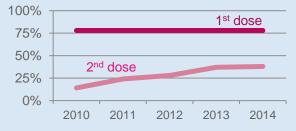


Reported measles cases with onset date from Nov 2015 to April 2016 (six-month period)

Rate per 1,000,000 population

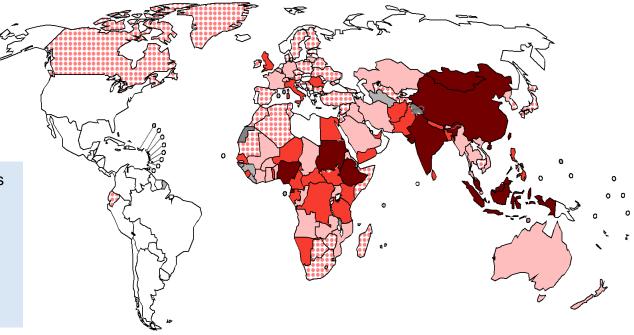


Measles vaccine coverage in Gavi countries



† Data Source: RDC Bulletin surveillance rougeole 14 juin 2016 § Data source: Somali EPI/POL Weekly Update Week 23

Data source: surveillance DEF file Data in HQ as of 13 June 2016



Board meeting 22-23 June 2016 The boundaries and names shown and the designations used on this map do not imply the expression of any opinion whatsoever on the part of the World Health Organization concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries. Dotted lines on maps represent approximate border lines for which there may not yet be full arcreement. @WHO 2016. All rights reserved.



Progress on Gavi's new measles-rubella strategy

- Implementation: applications from September, implemented from 2017
- Measuring coverage and surveillance: now part of joint appraisals
- Readiness assessments & coverage surveys: mandatory before and after campaigns
- Stronger collaboration with partners:
 e.g. risk assessments, lessons learnt
- Early work on modelling: for geographic areas, target age groups
- Already higher campaign coverage:
 e.g. Nigeria: 84.5% in 2015, from 74.5% in 2013

EXECUTIVE SUMMARY, MEASLES MIDTERM REVIEW REPORT June 15, 2016

Overarching conclusions

- The Global Measles and Rubella Strategic Plan, 2012 2020 set the goal of achieving measles and rubella elimination in at least five World Health Organization (WHO) regions by 2020 through the implementation of five core strategies. However, with the exception of reaching rubella elimination in the Region of the Americas, current trends indicate that progress toward this goal is not on track.
- Although all six WHO regions have measles elimination goals and the ultimate vision is
 of a world free of measles, it is premature to set a timeframe for eradication at this
 point. A review should be undertaken in 2020 to determine formal goals with
 timeframes for achievement.
- Strengthening of immunization systems is critical to achieving regional elimination goals. There must be a focus on how working to achieve measles and rubella elimination can help strengthen health systems in general and immunization systems in narticular.
- Measuring coverage with measies and rubella containing vaccines, while important, is not the best indicator of progress towards measles/rubella control/elimination. Disease incidence, in the presence of an effective surveillance system, is the most important indicator of progress. The presence or absence of measles is one of the best indicators of overall immunization program performance.
- There is an urgent need to strengthen the collection and use of surveillance data to better guide program strategy and implementation.



New initiatives to tackle health emergencies

- New WHO Outbreaks and Health Emergencies Cluster
- World Bank's Pandemic Emergency Financing Facility
- WHO Contingency Fund for Emergencies
- WHO R&D Blueprint
- Coalition for Epidemic Preparedness & Innovation





Outbreak preparedness and response: Gavi's role

Will revert to the Board over coming year on:

- Support for vaccine stockpiles
- Role in humanitarian emergencies and fragile settings
- Yellow fever strategy
- Meningitis (timing tbd)



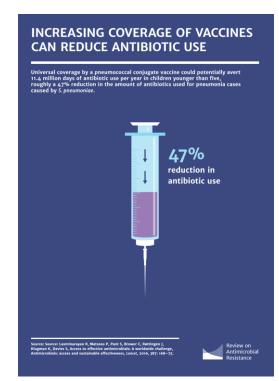
Further investments in vaccines against potentially epidemic diseases (e.g. Ebola 2nd generation and cholera) to be reviewed as part of 2018 Vaccine Investment Strategy



Vaccines help reduce antimicrobial resistance

Review commissioned by UK government

- Vaccine report: need to use vaccines more widely; value of pneumococcal vaccine in reducing antimicrobial resistance
- Summary report: Gavi
 model as example of how
 new antibiotics could be
 developed, e.g.:
 - Overcoming market failures
 - Encouraging innovation

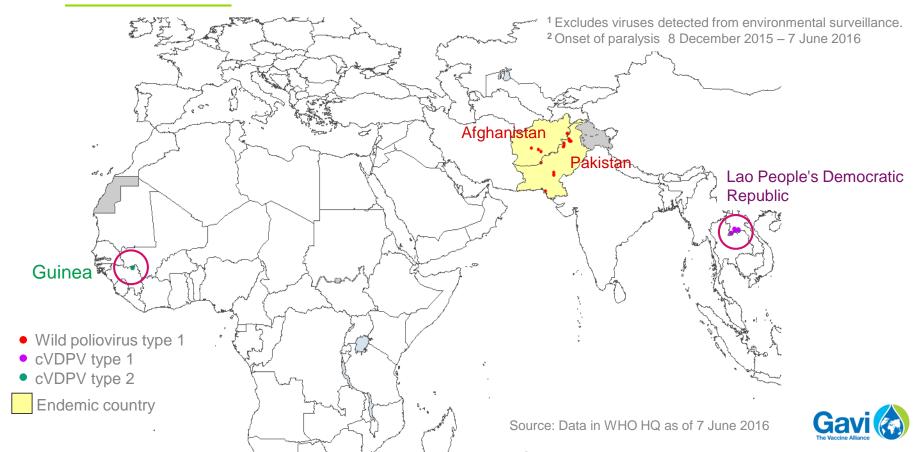






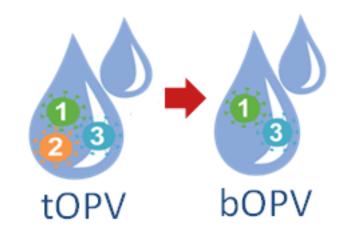
IMMUNISATION ON THE GLOBAL AGENDA

Wild poliovirus & cVDPV cases¹, previous six months²



Switch from trivalent to bivalent oral polio vaccine

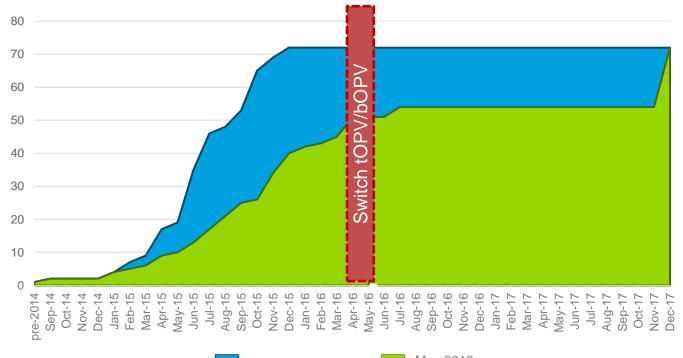
- April/May: all countries and territories switched
- Environmental samples of type 2 found in Egypt, Kenya, Nigeria, India
- Bivalent OPV doesn't protect against type 2
- Need for strong routine coverage with inactivated polio vaccine (IPV)





Supply shortages delay IPV introductions

Number of Gavi-supported countries that have introduced inactivated polio vaccine





Support for IPV post-2018

- Committed to support IPV through 2018 when Board will review
- If funding is made available, Gavi support to continue until Endgame target for stopping vaccination/exit strategy is developed
- Extension of Endgame led by Global Polio Eradication Initiative (GPEI)
- Expect GPEI to initiate discussions with donors on IPV support









Reporting back on 2011-2015

- 2015 Annual Progress Report
- 2011-2015 Review: highlighting successes and challenges

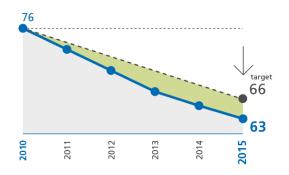






Three mission indicators all on track

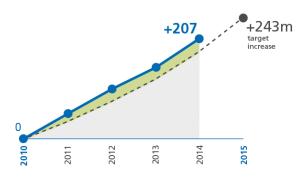
Under-five mortality rate in Gavi-eligible countries (per 1,000 live births)



Number of future deaths averted (millions)



Number of children immunised (millions)





Kiribati

Vaccine introductions

Over **200** introductions 2011–2015

70 introductions in 2015 – nearly 50% more than in 2014

> Honduras Guinea-Bissau Nicaragua

Pneumococcal Rotavirus

Inactivated polio

Human papillomavirus (demo)

Human papillomavirus (routine)

Meningitis A

Japanese encephalitis

Measles 2nd dose

Measles SIA

Measles-rubella



Advance Market Commitment: impact study

Innovative finance mechanism: US\$ 1.5 billion commitment from 6 donors to accelerate access to pneumococcal vaccines

Main findings:

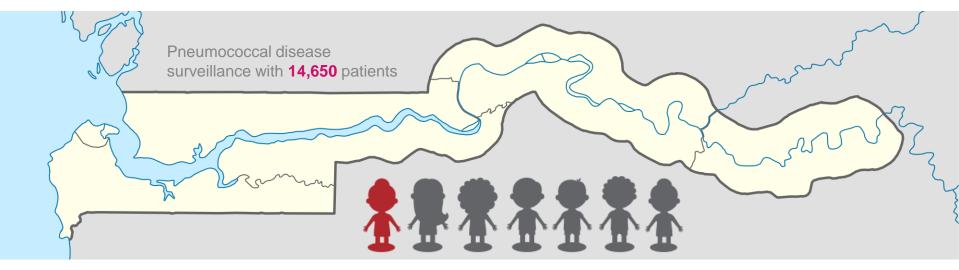
- Accelerated coverage in 50+ countries
- 6m+ pneumococcal disease cases, 230,000+ child deaths prevented by 2015
- 3m child deaths averted by 2030
- Increased available supply despite shortages
- Did not succeed in materially accelerating development of new products





Pneumococcal vaccine impact in the Gambia

If children in the Gambia develop serious pneumococcal pneumonia, sepsis or meningitis they have a 1 in 7 chance of dying



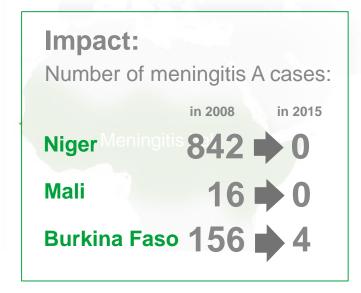
22-23 June 2016

PCV in the Gambia **reduced** severe pneumococcal pneumonia, sepsis and meningitis by **55%**



Meningitis A vaccine progress

- Campaigns in 16 countries in Africa's meningitis belt
- 235 million people immunised by end 2015
- Meningitis A eliminated as public health problem in the region
- Focus shifting to routine introductions: Sudan, Ghana and Mali planning to introduce this year
- Delayed routine introductions problematic
- · Meningitis C outbreaks, e.g. Niger, Nigeria





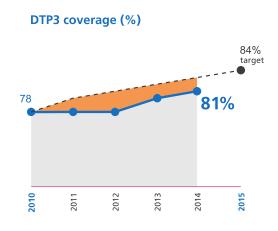
Percentage point difference

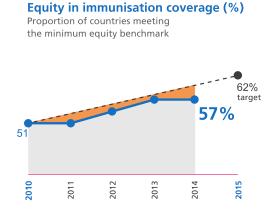
between DTP1 and DTP3 (%)

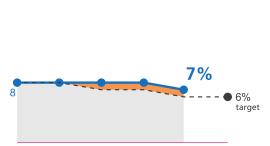
2012

Coverage and equity challenges

Unlikely to meet 2015 targets for coverage, equity and drop-out rate

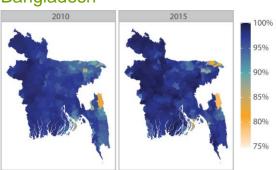




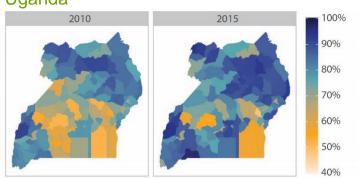


Increases in 3rd dose pentavalent coverage, 2010-2015

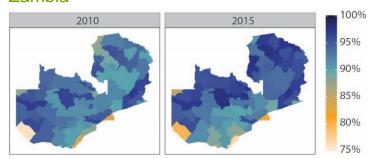
Bangladesh



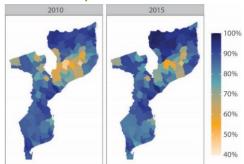
Uganda



Zambia



Mozambique













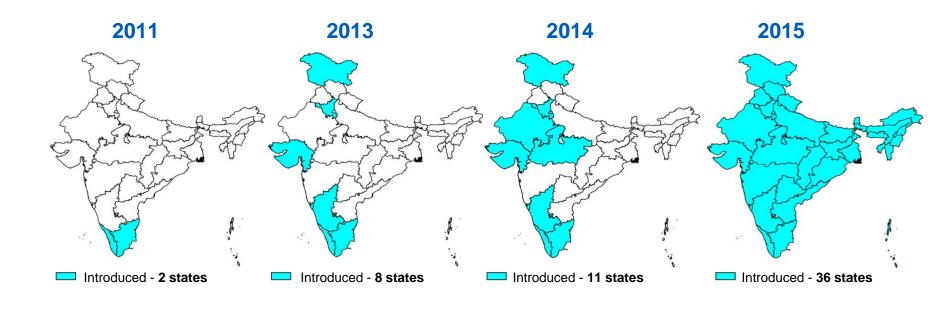








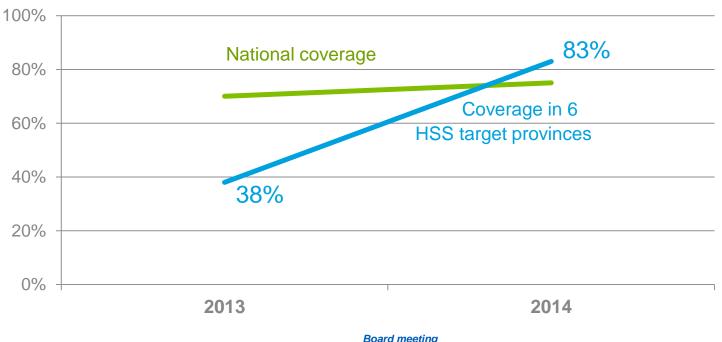
India completes pentavalent vaccine roll-out in all states





HSS results: Afghanistan example

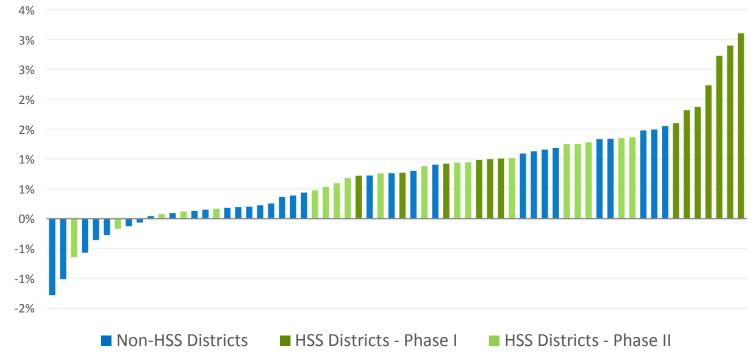
DTP3 coverage





Bangladesh: coverage improvements linked to HSS support

Changes in DTP3 coverage relative to HSS support phase, 2010-2014











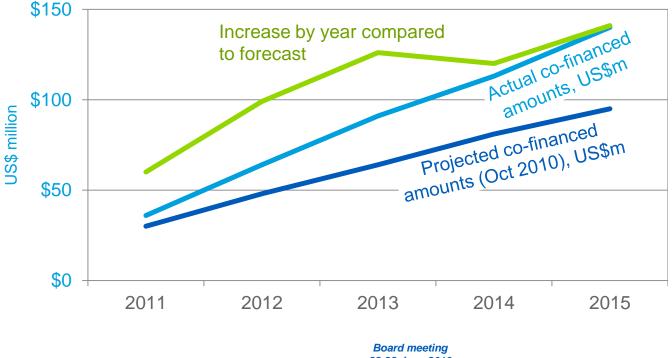








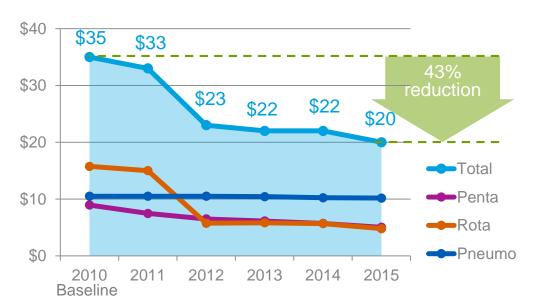
Improvements in country co-financing



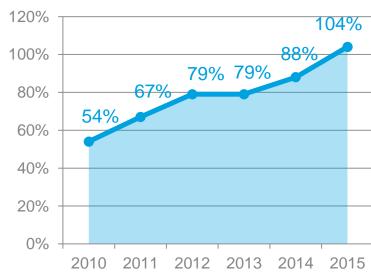


Market shaping results

Cost to fully immunise a child with pentavalent, pneumococcal and rotavirus vaccines (US\$)



Security of supply: products offered as % of 2015 target





Gavi prices start from low baseline

Cost of full course of: ⊢HEPATITIS B ⊨ · · · · · \$35 in 2010 Purchasing vaccines for 60% of world's birth cohort DTP | PENTAVALENT. Hib | III Gavi price: ROTAVIRUS 📥 Approx. US\$ **USA price:** PNEUMOCOCCAL | III 35 **US\$ 950** POLIO IPV MEASLES | III RUBELLA | HPV | III



Vaccine supply shortages

Cholera vaccine



Inactivated polio vaccine



Yellow fever









Liberia: double launch



- HPV demonstration project
- Rotavirus vaccine



Republic of the Congo



Inactivated polio vaccine



Nepal



 HPV demonstration project



Cambodia



 Japanese encephalitis vaccine



Bolivia



Inactivated polio vaccine



Democratic Republic of Congo



 Meningitis A vaccine campaign



Kenya



 Measles-rubella vaccine



Kyrgyzstan



Pneumococcal vaccine



Honduras



 HPV vaccine – national introduction



Vaccine introduction update





Building political will to improve coverage, equity and sustainability

Increasing engagement with finance ministers and advocates







Saving lives saves dollars Who is responsible for

Who is responsible for child health in government? The answer is everyone....



Shine a Light on the Gaps

How access to digital financial services changes the future for smallholder farmers in Africa



"I call on every Head of State across Africa to prioritise access to vaccination in each and every community."

President Kikwete, Global Ambassador for Immunisation, African Union Summit, Addis Ababa, January 2016



Immunisation's return on investment











Strengthening primary health care through community health workers.. Dessalegn H, Chambers R, Clinton C, Phumaphi J, Sirleaf J, Evans T, et al. 2015



48x (full income approach, in Gavi-supported

18x (cost of illness, in Gavi-supported countries)





3x

Public

infrastructure

Country focus key to improving coverage and equity

Understanding country needs

- 72 in-country Joint Appraisals in 2015
- Articulation of key barriers and needs

2

Responding to country needs

- Proposals from UNICEF/WHO seek to respond to joint appraisals
- Initial submissions include ~ 200 focused staff in country offices

3

Countries at the design table

- Improved harmonisation
- Greater transparency
- Enhanced accountability



High-level country visits

- Pakistan: focus on coverage and equity
- India: new partnership coverage and equity, market shaping, new vaccines
- Tanzania: Programme & Policy Committee meeting in Arusha



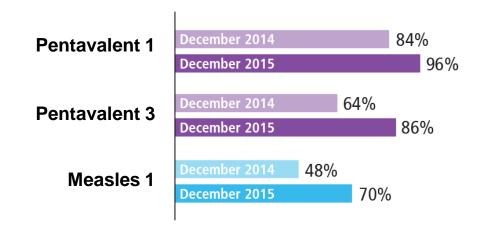




Priority country: Pakistan

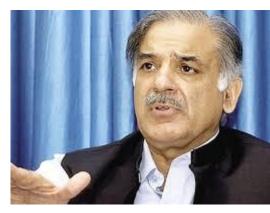
Punjab province: data and political leadership essential for accountability and results

Coverage (children aged 12 months) %



Pentavalent 3rd and measles 1st dose increased > 20% in one year

Source: Nielson (Dec 2014 & Dec 2015)



Chief Minister Muhamad Shehbaz Sharif



Priority country: India

Immunisation under stewardship of the Prime Minister

MISSION INDRADHANUSH





Prime Minister reviewed progress of Mission Indradhanush (February 2016)



Mission Indradhanush: PM Modi calls for aggressive action plan to cover all children for immunisation in a specific time-frame



Partnership agreement signed

Sets out commitments of the Government of India and Gavi

- Gavi support of up to US\$ 500m vaccine/cash allocation
- Government's commitment to sustain and scale up programmes
- Performance indicators for vaccines and health system support to be developed as part of tailored proposal review process





Pneumococcal vaccine fast-tracked, rotavirus launch started

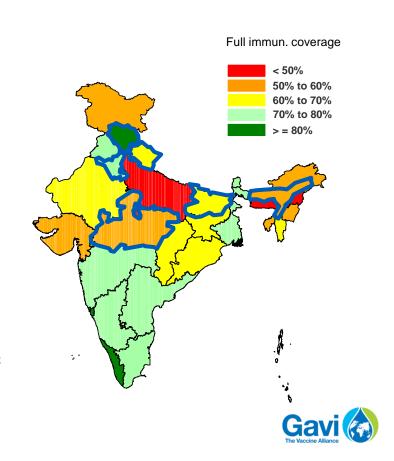
Pneumococcal

- February: ministerial group approved national introduction
- 6 states tentatively planned for Gavisupported first phase in 2017-19, accounting for >30% of pneumococcal deaths in country

Rotavirus

 March: Government funded first phase of rotavirus vaccine launch with indigenous vaccine

Board meeting 22-23 June 2016



Priority country: Madagascar

Coverage & equity – lessons learnt:

Prioritise

Use data to identify low coverage districts

Be open to new partners

 Additional expertise may be needed to implement recommendations

Learn from the past

- More regular monitoring by partners
- Specific strategies for challenging contexts more tailored approach



HPV vaccine programme reboot

- 28 countries approved for HPV demonstration programmes
- New programme for January 2017 IRC submission (tbd)
- Two changes already identified, taking onboard lessons learned:
 - One application for demonstration programmes and national introductions reduces delays, ensures country commitment from the start
 - Pre-application workshop to identify sustainable implementation strategies
 helps countries better understand cost and coverage implications
- More changes to come

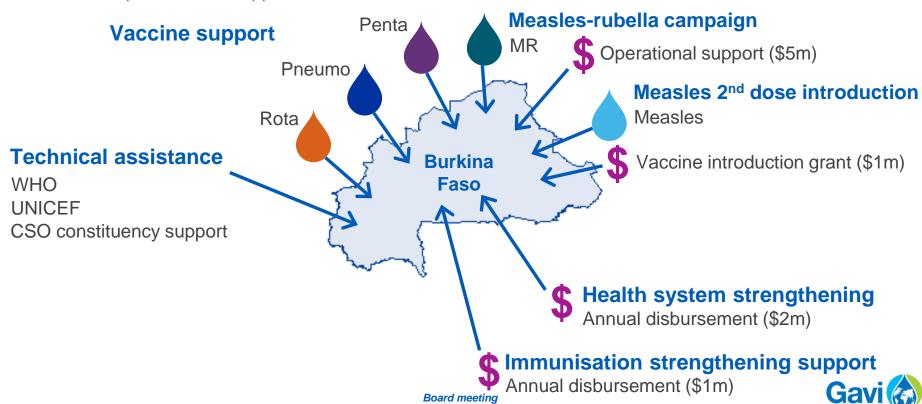




Multiple forms of immunisation-related country support

FOR BOARD DECISION

Example: Alliance support to **Burkina Faso** in 2014

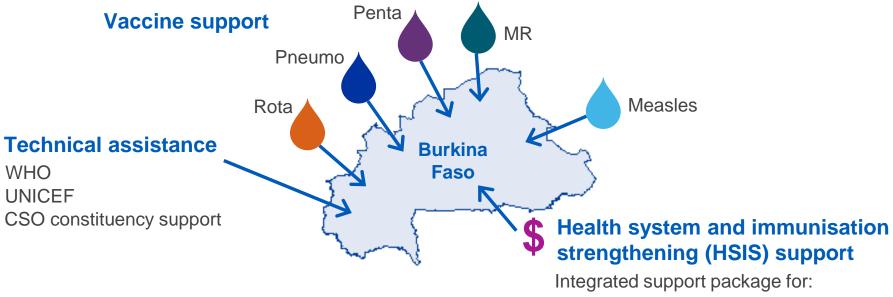


22-23 June 2016

Integrated approach to health system and immunisation strengthening



Example: Alliance support to **Burkina Faso** in 2014 (illustrative to show recommended model)



- System strengthening
- One-time costs of vaccine introductions, campaigns, product switches



Cold Chain Equipment Optimisation Platform: early progress

DEMAND

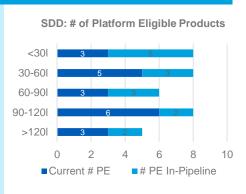
- Haiti recommended for approval
- 4 more countries applied, another 10-15 expected by year-end
- Tech guide helps countries choose the right equipment

Cold Chain Equipment
Optimisation Platform

SUPPLY

Innovative technology:

- Arktek: cooling technology for last-mile delivery
- Equipment designed to stop vaccines freezing: reduces wastage



Energy harvesting on solar direct drives (SDDs) – to charge phones, communicate supply data

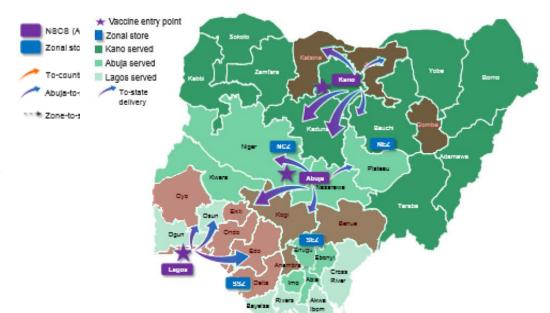
Full **installation & training** included, first 10-year **warranty** offered on SDDs



Nigeria's vaccine supply chain system redesign

Now three-hub architecture involves direct transportation of vaccines from hubs to states

Gavi funds will be used to support 12 states across the country





STEP: supply chain leadership training, Rwanda

- Launched at new East African Community Centre of Excellence for Supply Chain
- UPS created curriculum & leads training
- IFPW provides scholarships & mentorship
- 60 students in 2016
- Innovative course design:
 - Distance learning
 - In-person training at EAC centre
 - Follow-up mentorship









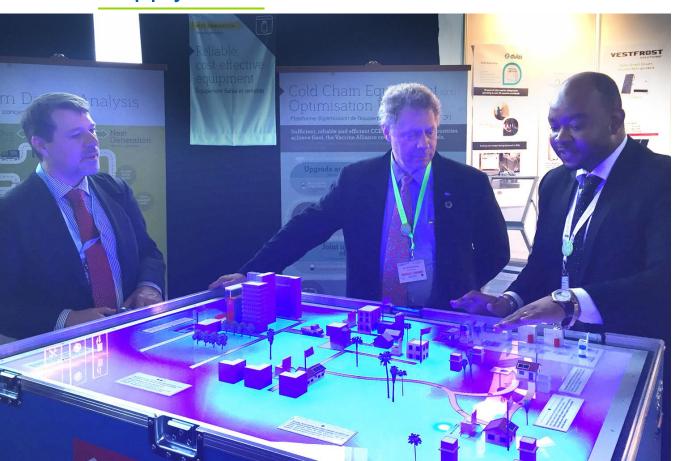








Supply chain model





Innovation: using drones to access the hard-to-reach

- Gavi partnering with UPS and Zipline to explore using drones to deliver vaccines in Rwanda
- Funded by UPS
- Currently planned for blood supplies and rabies vaccine
- Can reach inaccessible areas















New private sector initiative: INFUSE



- 60+ applied, 15 innovators selected for final round in July
- Aim: enable countries to access and scale most promising innovations
- Enhanced WEF partnership agreement signed
- 2016 focus: data improvements

Proven concepts in health innovation apply to INFUSE

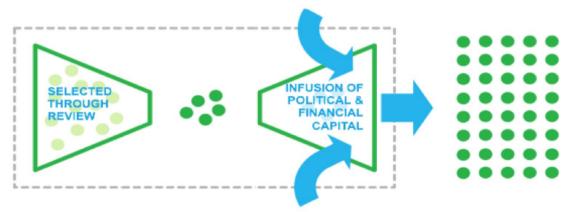
Identification of most promising proven concepts

Select concepts identified

Selected concepts matched with political & financial capital

Resulting partnerships scaled for global impact





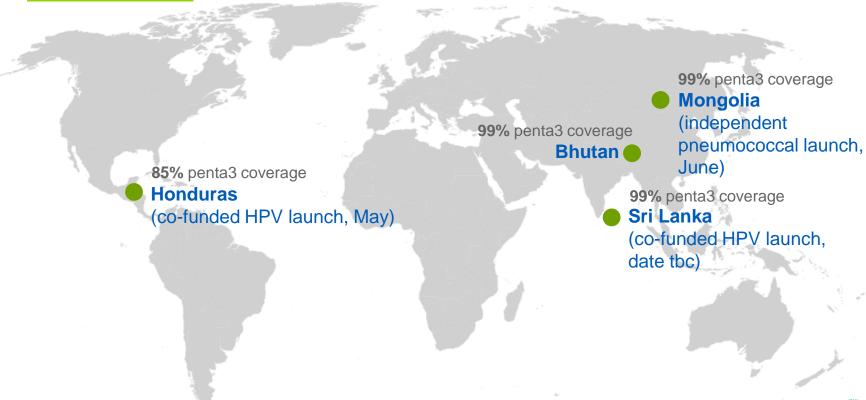


Aspirational vision for transition

"Countries have successfully expanded their national immunisation programmes with vaccines of public health importance and sustained these vaccines post-transition with high and equitable coverage of target populations, while having robust systems and decision-making processes in place to support introduction of future vaccines."



Fully self-financing countries: independently launching new vaccines, high coverage



Donor funding

- Close to 80% of grants signed, including Norway, UK
- Japan: new contribution brings total to ~ US\$ 100m for 2016-20
 - first multi-year commitment







New supply and procurement strategy

FOR BOARD DECISION

Three strategic priorities



Healthy markets

Moving beyond singular objectives to deliver on healthy markets, balance trade-offs



Long-term view

Taking a long-term view of markets



Innovation

Driving innovation to better meet country needs



Pneumococcal vaccine price reduction

GSK: record low price for pneumococcal vaccine, 10% reduction



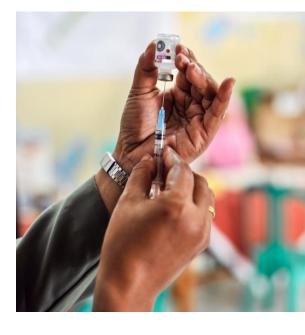
"A fair shot"
MSF campaign for lower prices





Pentavalent tender shows further price decreases

- First stage of multi-phase tender for 2017–2019
- Innovative procurement method with multiple bidding opportunities
- Price transparency
- Second phase starting in June





New country portal – improving country interaction

- One platform for countries' interaction with Gavi
- Simplifies the application and reporting process
- 69/73 countries have submitted/started to submit applications
- Average of nearly 150 users logging in each week
- Partner portal launched on same platform



Optimising programmatic outcomes with new risk-related tools

Performance framework

 Reports country performance against full set of agreed targets and indicators

Country risk matrix

 Identifies, monitors and quantifies key risks and tracks mitigating actions

Programme capacity assessment

 Evaluates capacity of implementers to manage Gavi support

Programme audit

 Gives independent assurance of country controls and appropriate use of Gavi support

Grant management practices

Proactive grant management to maximise programmatic outcomes while managing risk

HSIS grant design

SCM engagement/ focus Partner engagement/ focus



Changes to Board process

- Streamlining Board information:
 - Board papers:

680 pages in June 2015, 520 pages in Dec 2015, 160 pages + 215 pages 2nd pack for this Board meeting



- Annexes
- Additional information and reference material
- myGavi
- More items on consent agenda
- Closer coordination of committees, increased expertise
- More strategic Board agenda with stronger country focus, more time for in-depth discussion



Agenda for this meeting

- Gavi-Global Fund approach to collaboration
- Financial update
- Report from Audit and Investigations
- Malaria vaccine pilots
- Health system and immunisation strengthening support
- Partners' Engagement Framework & Alliance Accountability Framework
- Country Programmes: sustaining immunisation gains
- Supply and procurement strategy 2016-2020





By 2015 we are immunising >55 million children annually



But...
~1 in 5 children
still miss out on
basic vaccines;
we must do
better