

Sustainable Vaccination Schemes in Africa: Identifying and Overcoming the Barriers



Federation of African Medical Students Association General Assembly

19-23 November 2018, Ibadan

Life or death for a young child too often depends on whether he or she is born in a country where vaccines are available or not.

Nelson Mandela



World Health
Organization
AFRICA

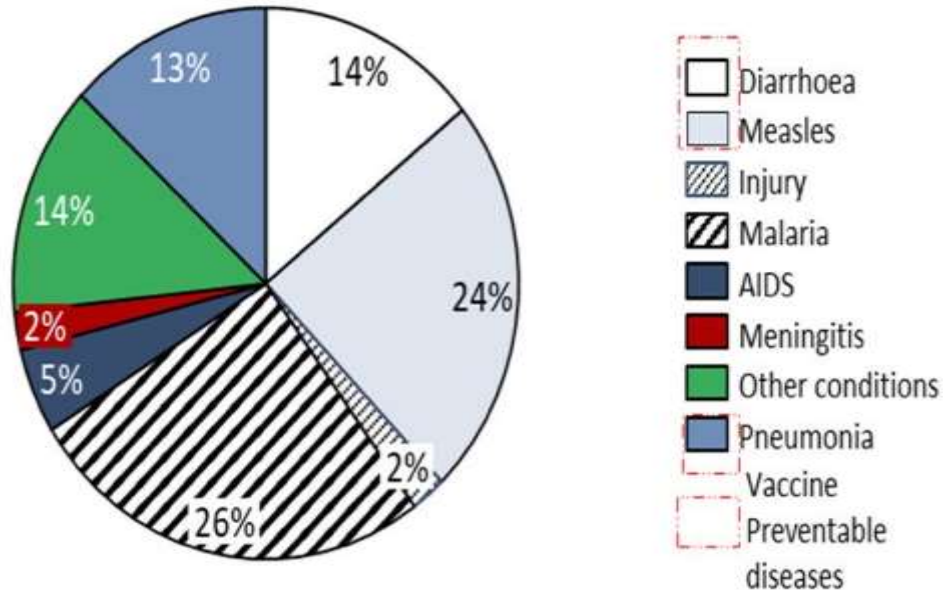


World Health Organization in the African Region

Partners people priorities

Over 40% of Under-5 deaths are due to Vaccine Preventable Diseases (DHIS 2013)

Major causes of under-5 mortality in Nigeria



26 Vaccine Preventable Diseases...

Meningococcal
disease

Mumps

Rubella

Tuberculosis

Cholera

Dengue Fever

Measles

Poliomyelitis

Pneumococcal
infections

Diphtheria

Malaria

Yellow Fever

Tetanus

Pertussis

Influenza

Q-Fever

Haemophilus influenzae
type b infections

Hepatitis E

Hepatitis B

Bat
Lyssavirus

Hepatitis A

Rotavirus

Plague

Rabies

Japanese
Encephalitis

Typhoid

Chicken Pox

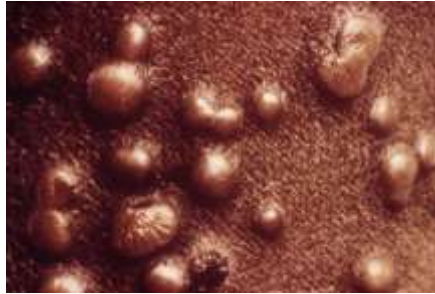
1. Context

Vaccines are one of the biggest success stories of modern medicine

Smallpox eradicated!

Last endemic case 1977

Eradication certified 1979

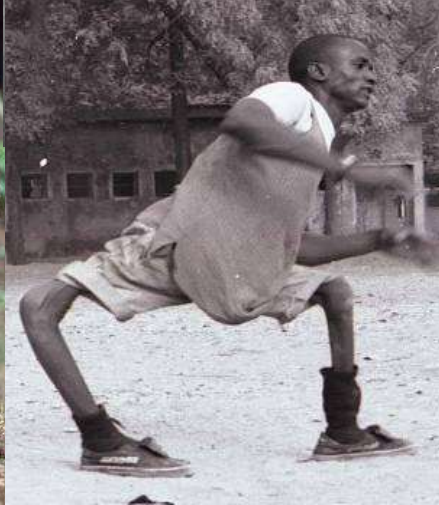


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Polio – a Paralysing Disease for Life



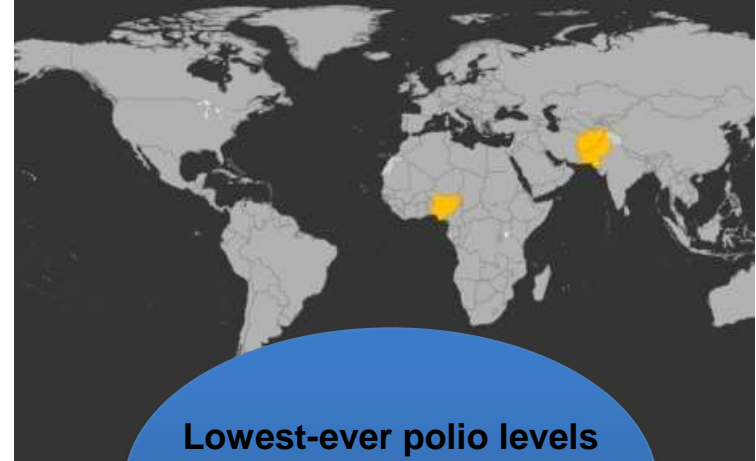
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We are on the brink of history – Progress in Wild Polio Virus Eradication



1988

>350,000 cases



Lowest-ever polio levels

Public Health Emergency of
International Concern



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The Global Vaccine Action Plan (GVAP)



- ... a world in which all individuals and communities enjoy lives free from vaccine-preventable diseases ...
- ... to extend, by 2020 and beyond, the full benefits of immunization to all people, regardless of where they are born, who they are, or where they live ...

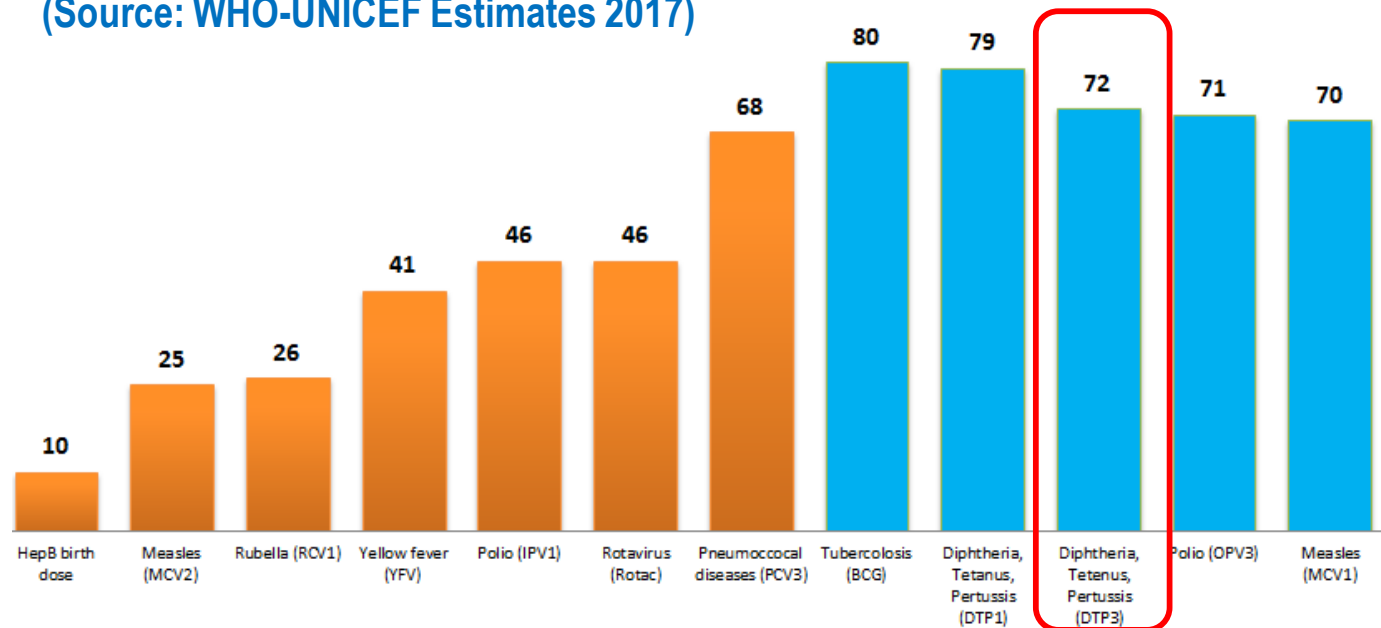


- ... to reach universal immunization coverage...
- ...country ownership, access to universal health coverage, partnership and mutual accountability, integration, innovation and sustainability...

2. Where are we in the African Region? What are the Key Bottlenecks?

Routine Immunization Coverage, Africa

(Source: WHO-UNICEF Estimates 2017)



- Population growth in Africa makes coverage “plateau”, even as ever more children are vaccinated every year
- African countries need to vaccinate $\frac{1}{2}$ million additional children every year just to keep up with growth

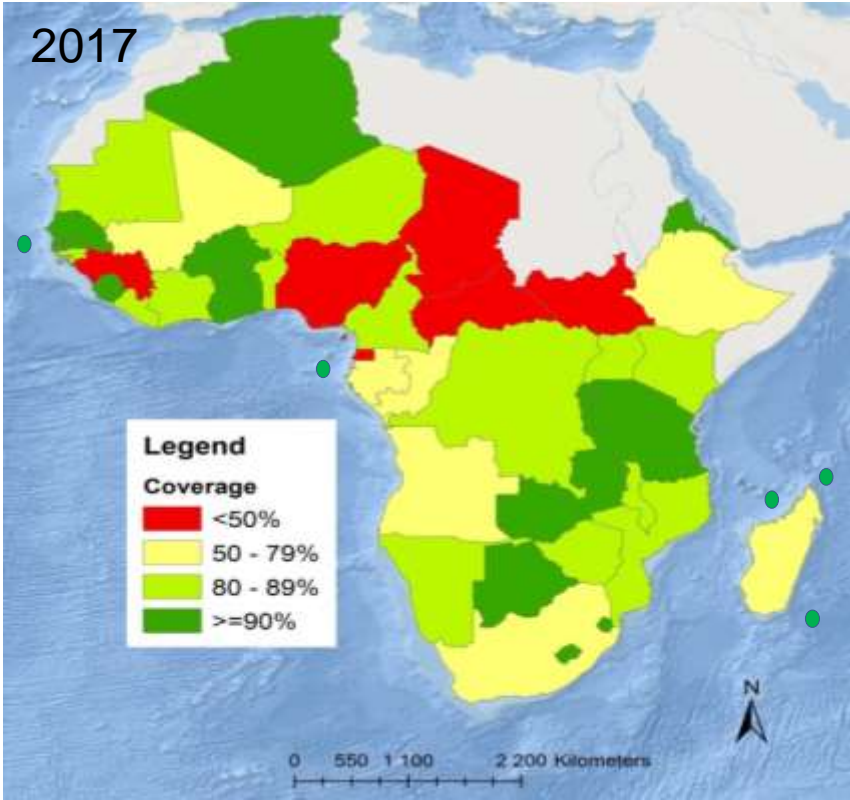
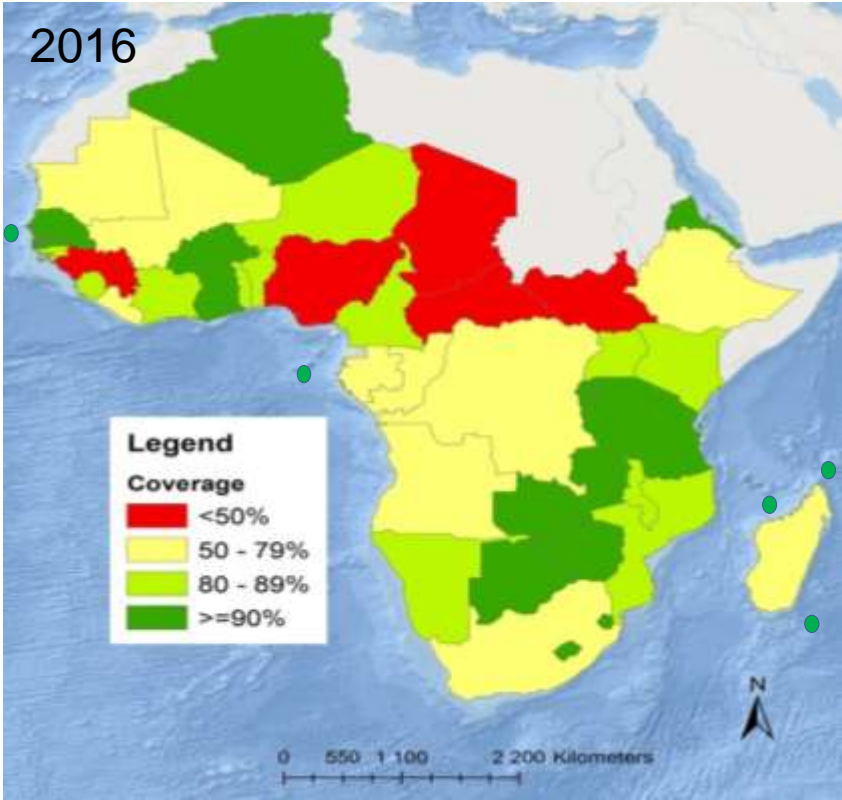
Number of vaccinated in millions (Derived based on coverage and UNPD target)

3.7	8.3	9.3	11.0	16.3	16.3	23.8	29.5	27.8	25.3	24.9	24.5
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Number of unvaccinated in millions

33.4	25.1	25.8	15.5	18.8	18.8	11.3	7.5	7.3	9.8	10.2	10.7
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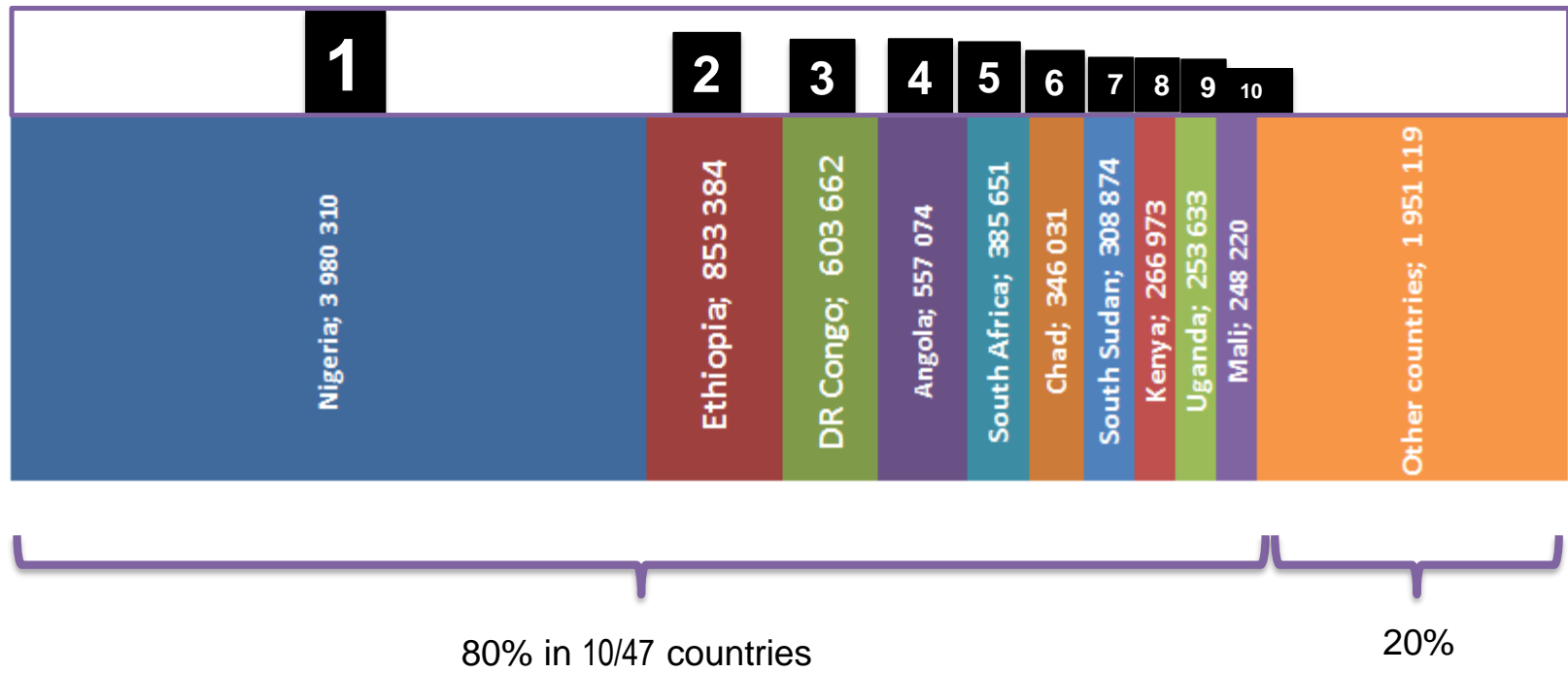
DTP3 Coverage at National level, 2016-2017



Sources: WUENIC 2017, released in July 2018



DTP3 Coverage: Top 10 countries with the highest number of un/under vaccinated children in AFR-2017

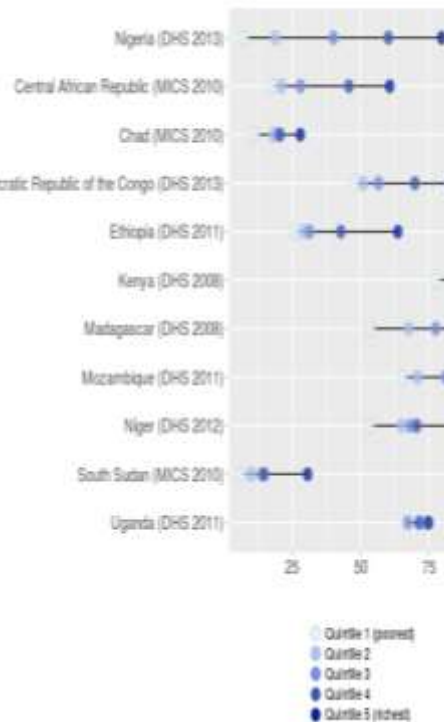


Sources: WUENIC 2017, released in July 2018

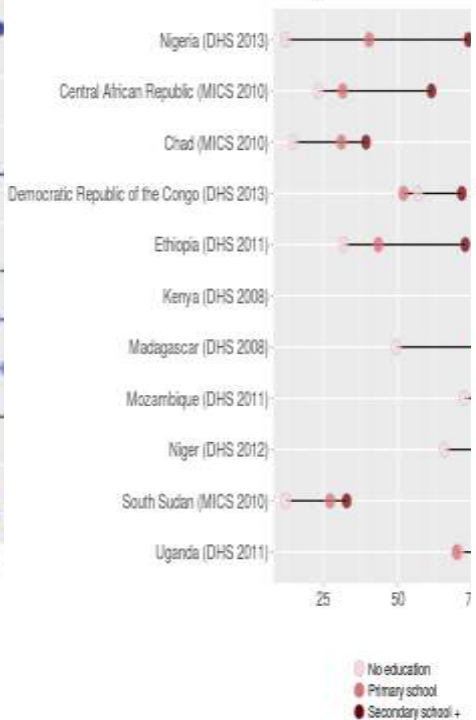


Immunization Equity Analysis in Priority Countries

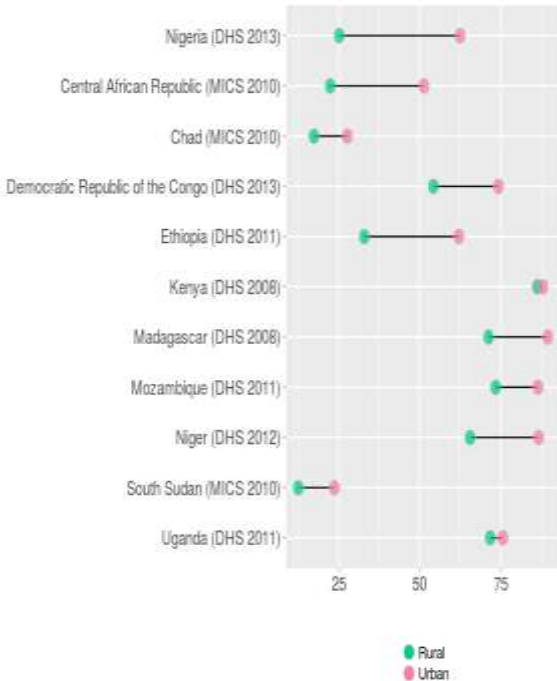
DTP3 immunization coverage among one-year-olds by economic status in 11 settings



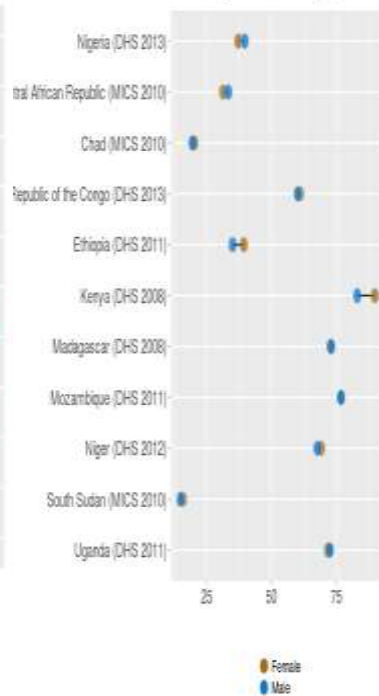
DTP3 immunization coverage among one-year-olds by education in 11 settings



DTP3 immunization coverage among one-year-olds by place of residence in 11 settings



DTP3 immunization coverage among one-year-olds by sex in 11 settings



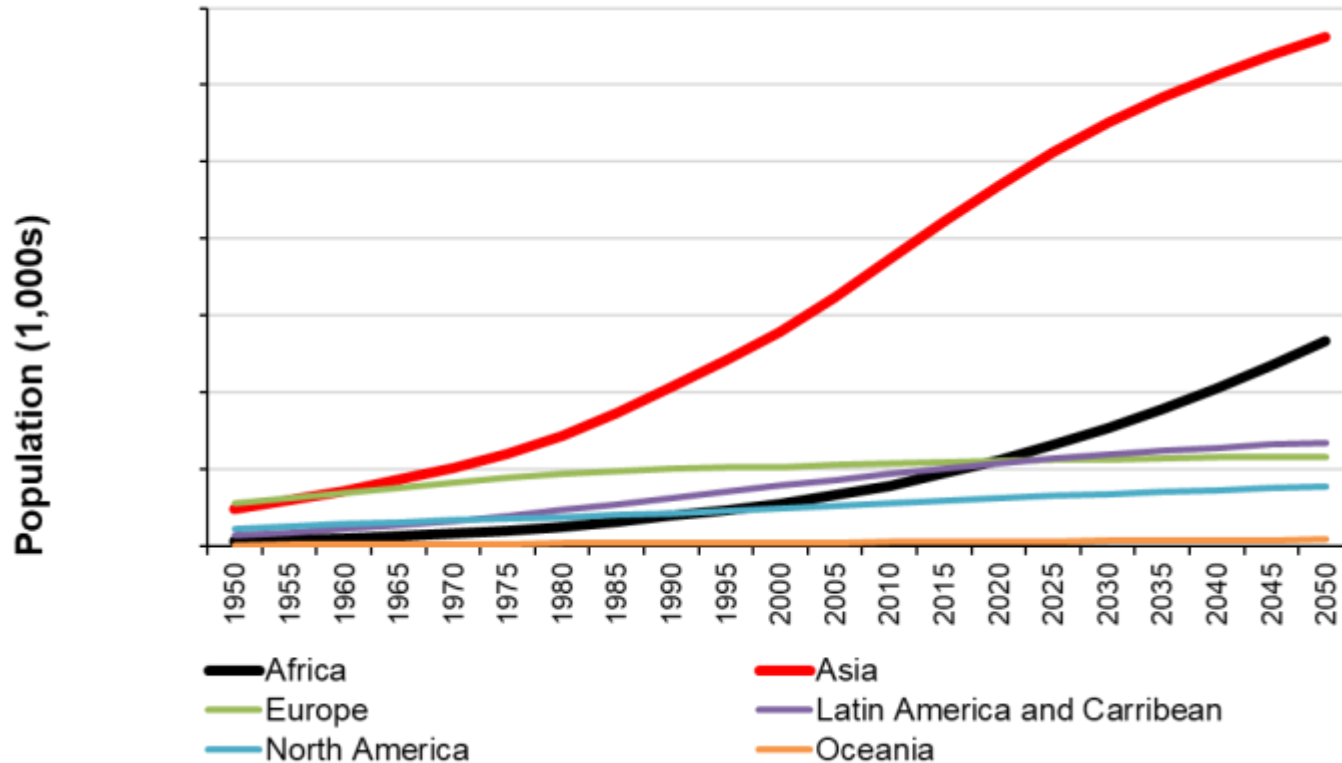
Source : 2018 WHO report using MICS and DHS surveys



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Africa



Africa and Asia urbanizing rapidly



- 90% of urban population increase from Africa and Asia
- Driven by migration and natural growth
- Small and medium size urban areas Fastest growing

Are current programme delivery platforms addressing the urban challenge?

Top 21 urban pop. contributing countries

- India, China, **Nigeria**,
- Indonesia, USA, Pakistan, **DRC**, Bangladesh,
- **Tanzania**, **Ethiopia**, Philippines, Brazil,
- Mexico, Egypt, Iraq, Kenya,
- **Uganda**, Iran, Sudan,
- Vietnam, **Angola**

Top 10 countries un/under immunised

- **Nigeria**, India, Pakistan
- Indonesia, **Ethiopia**
- **DRC**
- Iraq
- **Angola**
- Brazil
- **South Africa**

Low Immunization Coverage: Systemic and Non-systemic Issues

- **Socio-Economic barriers:** Poverty, lack of education, low status of women, and cultural barriers can hinder access to health services
 - **Low demand:** Families may not know when or where to access immunization services, or fear their effects.
 - **Hard-to-reach communities:** Difficulties to provide immunization and wider PHC services to remote rural and in urban poor areas.
 - **Issues with governance:** corruption.
- **Lack of infrastructure:** They often lack the infrastructure to support a basic health system.
 - **Mass population movements:** Movement of displaced persons within or across borders puts a strain on countries' health systems.
 - **Political instability:** there is often weak governance, including leadership of their health systems.
 - **Conflict:** Difficult to provide services of any sort to insecure areas of a country.

3. Investments in Immunization

Vaccination is one of the easiest things on the way to development. It's much easier than roads and a great education system. It's very basic. It's one of the first things you want to get right.

Bill Gates

quoteancy



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Partnership people progress

High Return on Investment in Vaccines

**For every
\$1 spent**

on immunization...

\$16

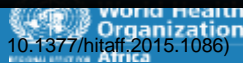
healthcare impact -
reduction in morbidity
and mortality¹

\$44

broader economic and
social benefits

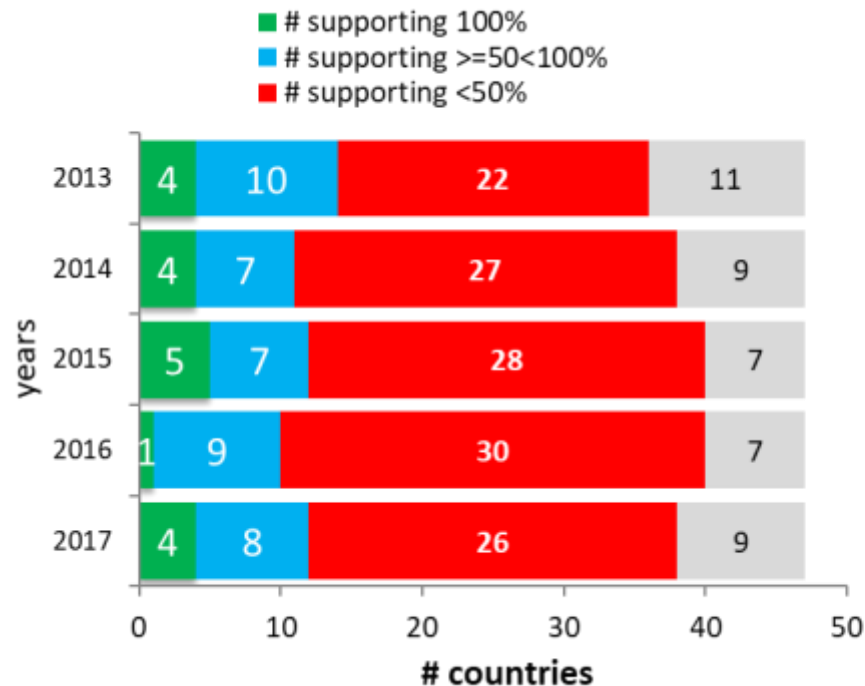
1 Average return on investment (cost of illness, treatment, loss of productivity etc) for low and middle income countries till 2020 (range: 9.78- 24.91)

SOURCE: Gavi estimates (Health Affairs 35. NO 2 (2016): 199-2017 DOI: 10.1377/hlthaff.2015.1086)

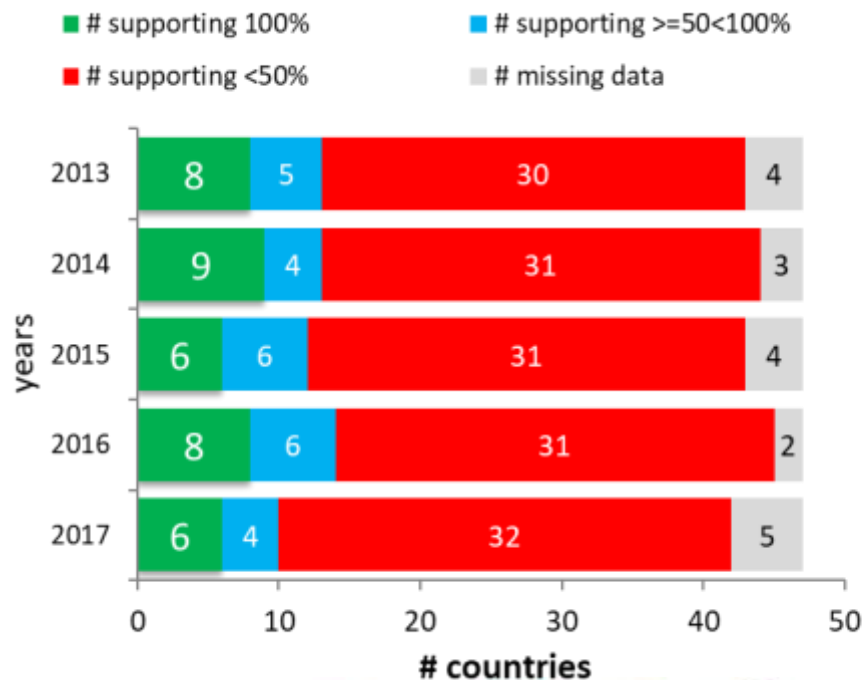


Immunization Financing in the African Region

Percentage of total expenditure on routine immunization financed by government funds, 2012-2016



Percentage of total expenditure on vaccines financed by government funds, 2012-2016



Sources: JRF 2017, as of July 2018

Addis Declaration on Immunization, January 2017

A historic and timely pledge

49

African Ministers
endorsed and signed the
Addis Declaration on
Immunization (ADI)
thereby committing to
advance universal access
to immunization across
Africa

More than
1,000

participants across
civil society organizations,
religious leaders and
parliamentarians sharing
statements of support for
countries to implement the
ADI

54

Heads-of-State
endorsed the ADI at the
African Union Summit in
January 2017

10 COMMITMENTS FOR UNIVERSAL
IMMUNIZATION



10 commitments to achieve
universal and equitable
access to immunization



Roadmap for Implementing
the Addis Declaration on
Immunization: Advocacy,
Action, and Accountability

Sources : 16) ADI Roadmap, WHO 2017

Business Case for WHO Immunization Activities 2018-2030





\$37 will be required to procure vaccines per child annually over next 10 years

89 million

children to be born in Nigeria over the next 10 years

\$37

required to procure vaccines for 1 child on the average, every year

SOURCE: National population commission, Nigeria cMYP as at December 31, 2015

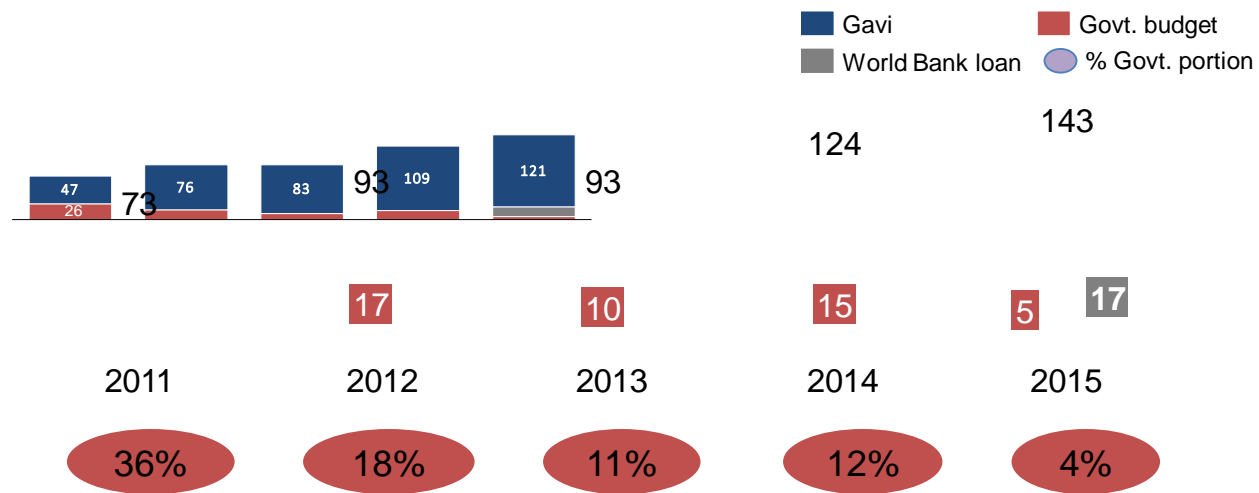


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Nigeria's vaccine needs have historically been co-funded by Gavi, an international alliance of donors that funds vaccines in developing countries

Nigeria vaccines funding sources (2011-2015)
\$ million



Government's budgetary provision has declined over the last 5 years despite increasing vaccine procurement costs

In the long term, a more sustainable solution is needed and these are some options the Nigeria Government is considering

Funding sources	Funding initiatives
1 Federal government	Federal budgetary allocation
	Basic healthcare fund
	Multi-lateral short-term debt e.g. World Bank
2 State governments	States co-financing
3 Private sector/ corporations	Corporate fund raising support for vaccines procurement
4 Citizens/ other innovative sources	Levies



"The science is pretty indisputable. We've looked at this again and again. **There is every reason to get vaccinated**, but there aren't reasons to not ... You should get your kids vaccinated."



LeftAction.com



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Africa



World Health Organization in the African Region

Makeup people healthcare

Be a Vaccine Champion...

- **Spread the word:**
 - Vaccines Work!
 - Vaccines Save Lives!
 - Vaccines Save Money!
 - When children are given a healthy start, communities thrive and economies grow stronger
- **Look at a child in totality:** Don't miss the opportunity to check their vaccination status and educate their caregivers on the benefits
- **Advocate for greater investments and sustainable funding** for vaccines

One child lost to a vaccine preventable disease, is one child too many!

"Never, never, never, never, never give up"

Winston Churchill



Thank You!