

The roles of NPHIs in the Health Sector

The Ethiopian Public Health Institute (EPHI): *from bench to societal change*



December 04, 2019
Addis Ababa, Ethiopia



ጤና ሚኒስቴር - ኢትዮጵያ
MINISTRY OF HEALTH-ETHIOPIA

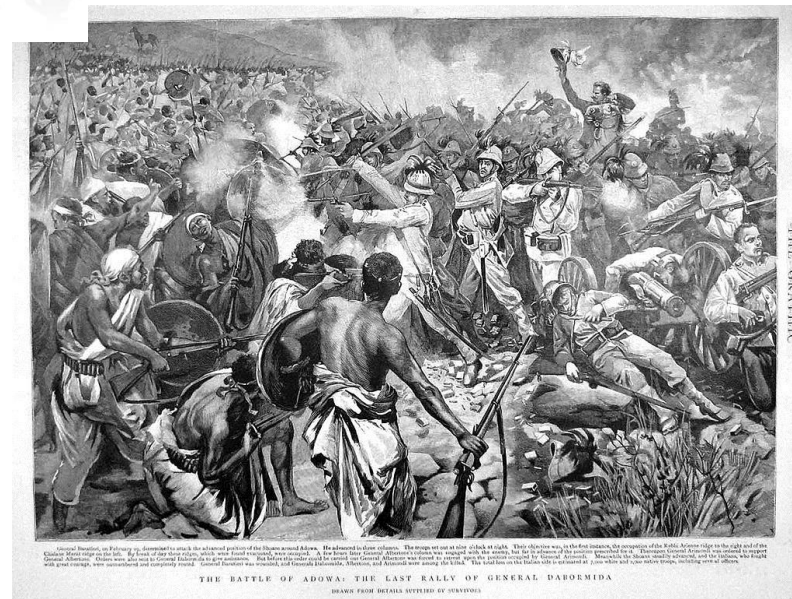
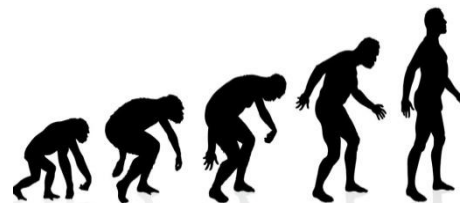
የዜጎች ጤና ለሃገር ብልጽግና!
HEALTHIER CITIZENS FOR PROSPEROUS NATION!



Ethiopia

LAND OF ORIGINS

Motherland of all humans











Global Public Health Challenges

A WORLD AT RISK

Annual report on global preparedness for health emergencies

Global Preparedness Monitoring Board



Global Challenges



Thanks for joining. The livestream will begin Sept. 23 at 7 p.m. ET.

The AMR Challenge

A Night Celebrating Global Antimicrobial Resistance (AMR) Fighters

 **CDC Foundation**
Together our impact is greater

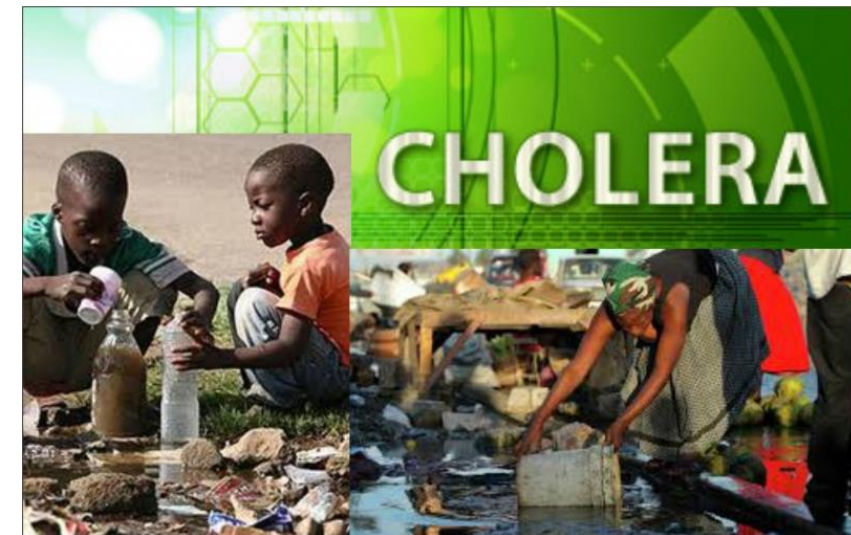
 **wellcome**

 **BILL & MELINDA GATES foundation**

 **AMERICAN SOCIETY FOR MICROBIOLOGY**

 **ANTIMICROBIAL RESISTANCE FIGHTER COALITION**

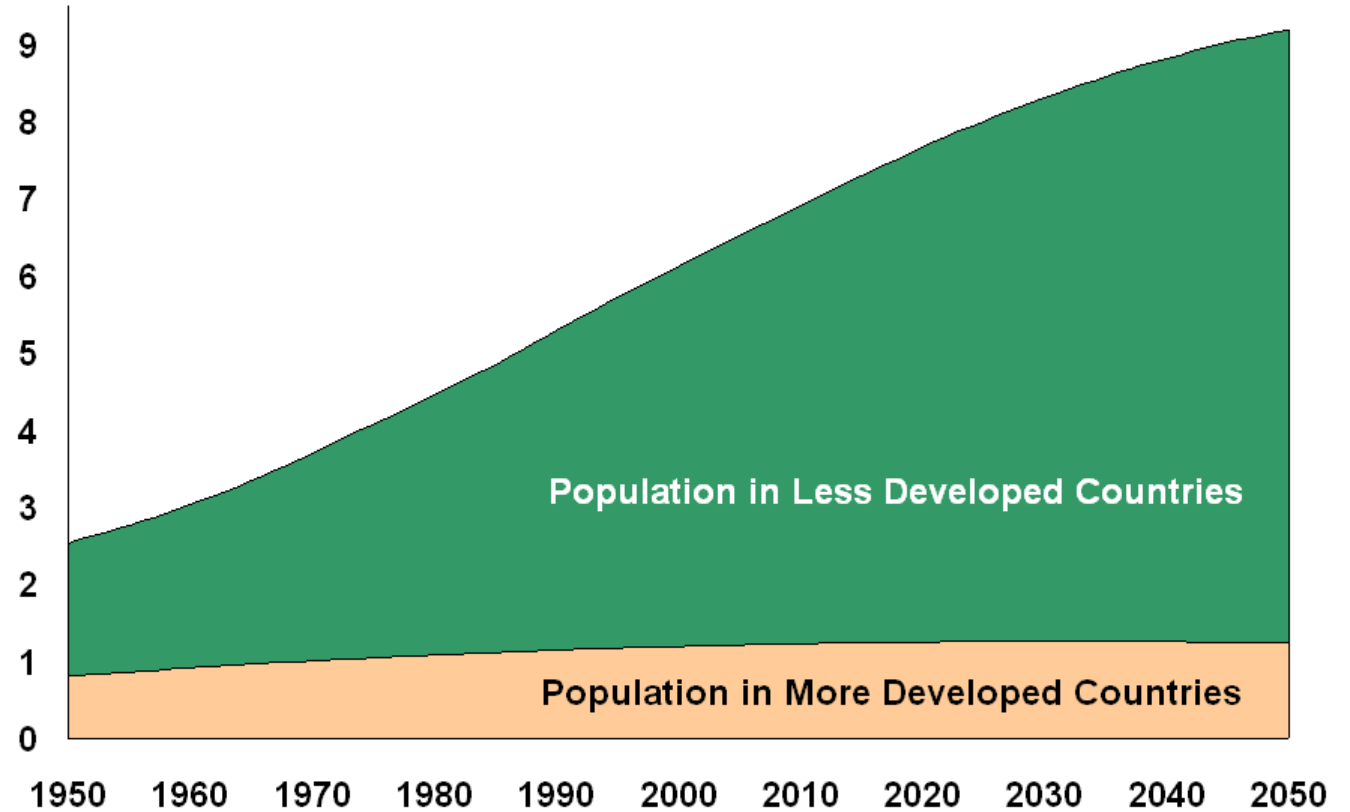
Centers for Disease Control and Prevention



Public Health

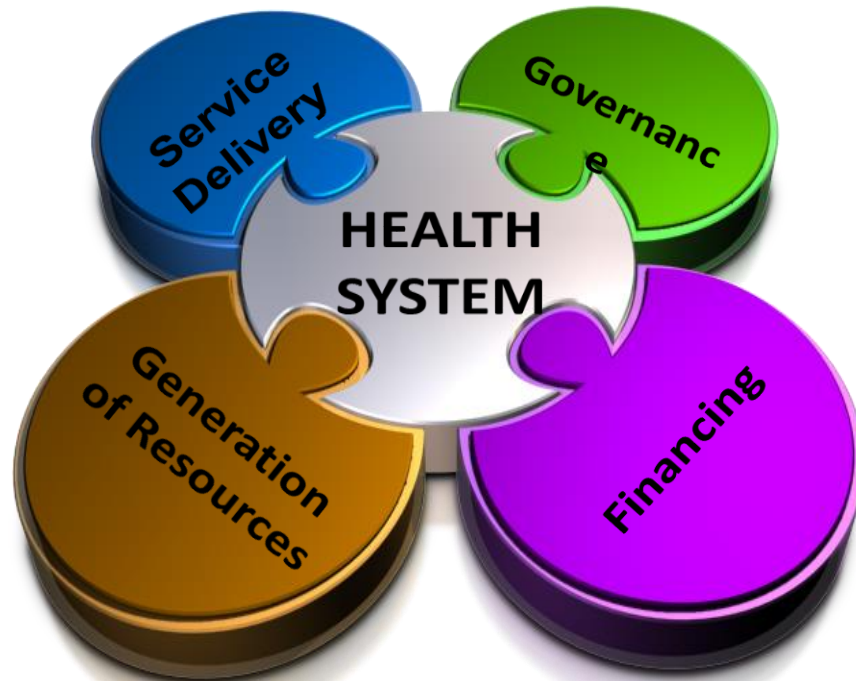
It is a cornerstone of preventing diseases/emergencies and promoting health

How ???



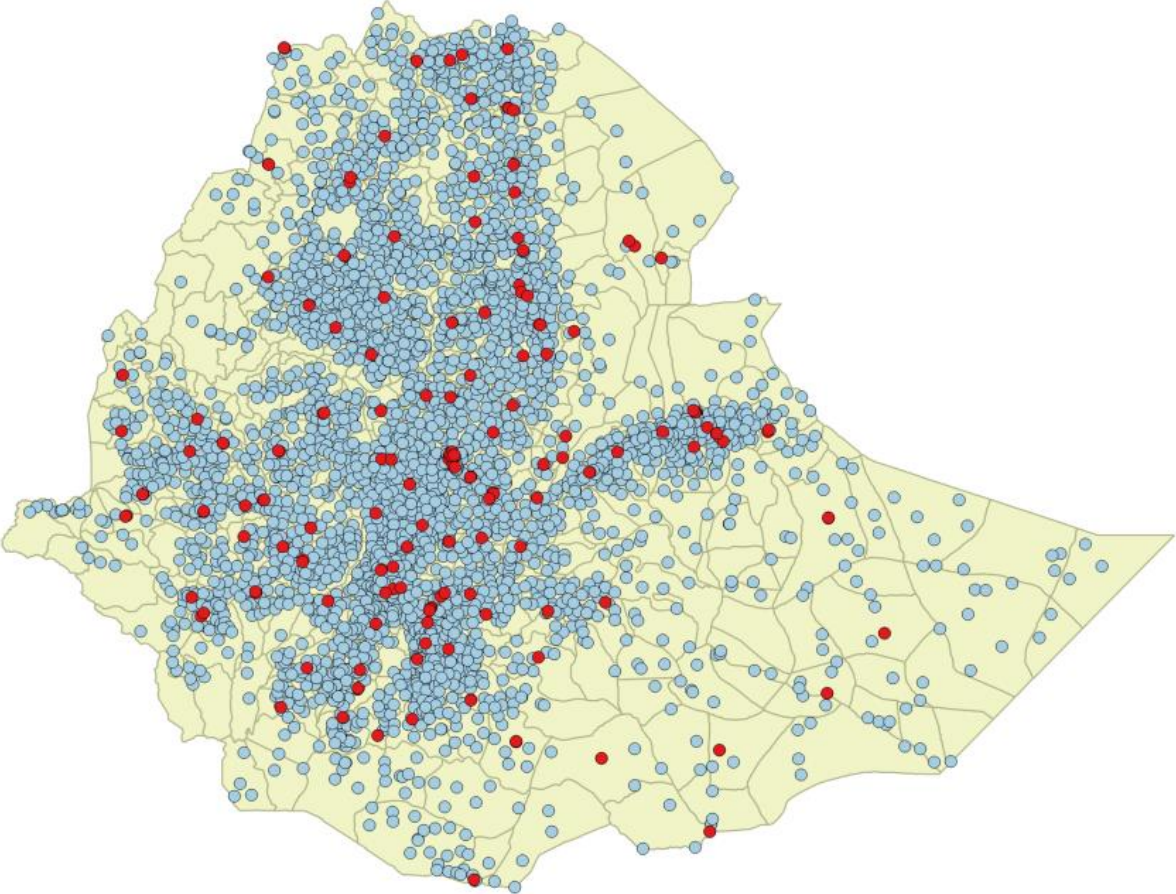
Public Health: *health system strengthening*

1. Strategy, epidemiologic information



Public Health: *health system strengthening*

2. Public Health laboratory networks



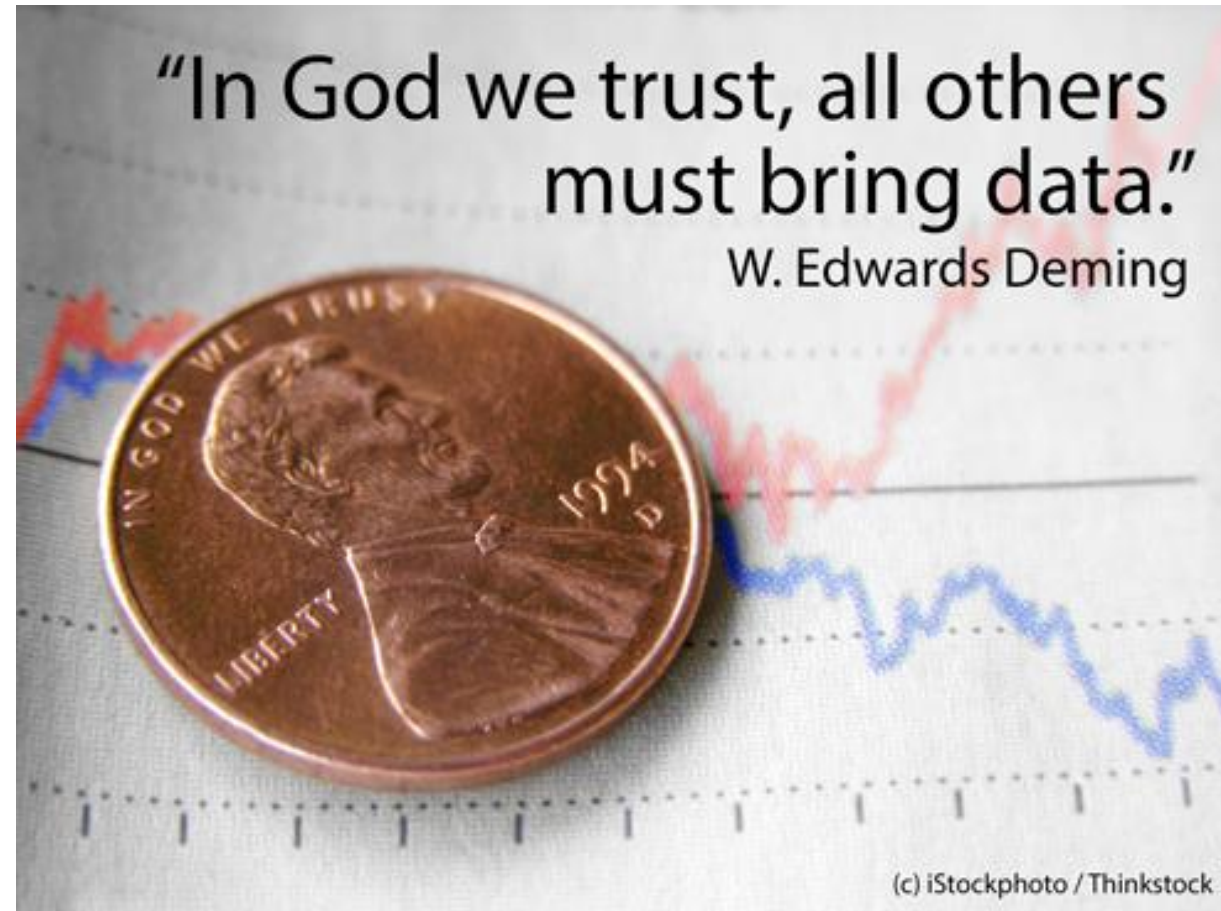
Public Health: *health system strengthening*

3. Work force development



Public Health: *health system strengthening*

4. Evidence generation and use



Public Health: *health system strengthening*

5. Public Health institutions and infrastructure

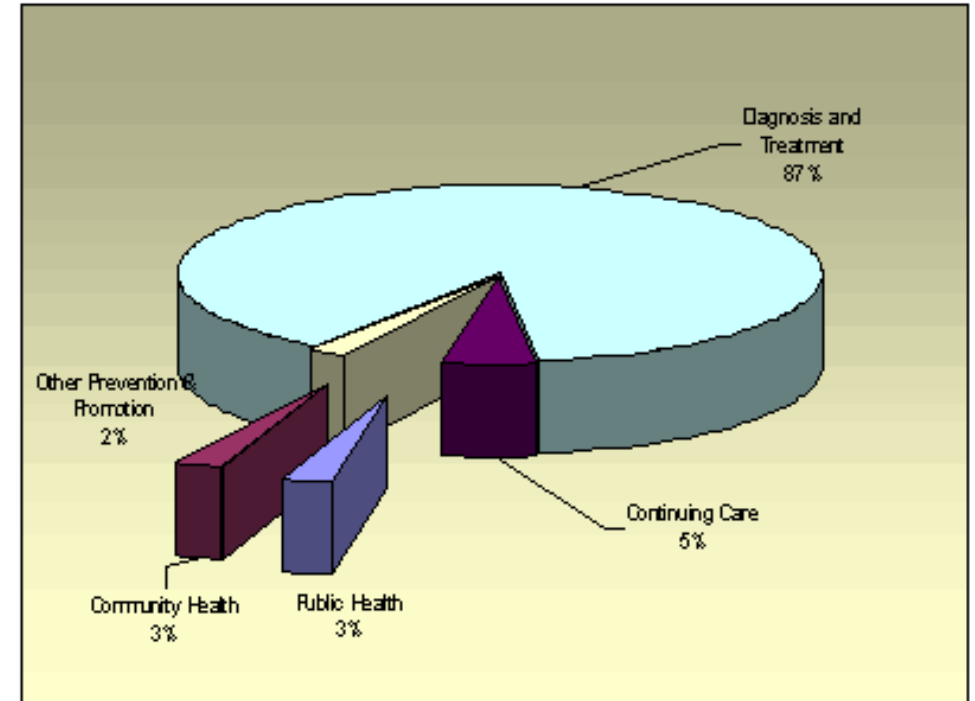
NPHIs



National Public Health Institutes (NPHIs)

- Permit the assembly of:
 - *Disciplines*
 - *Critical mass of skills*
 - *Systems*

→ *serve as a building block towards more robust national capacity*



National Public Health Institutes (NPHIs)

- A strong NPHIs enable countries to:

- Improve delivery of public health services

- Prevent, detect, and respond to public health threats

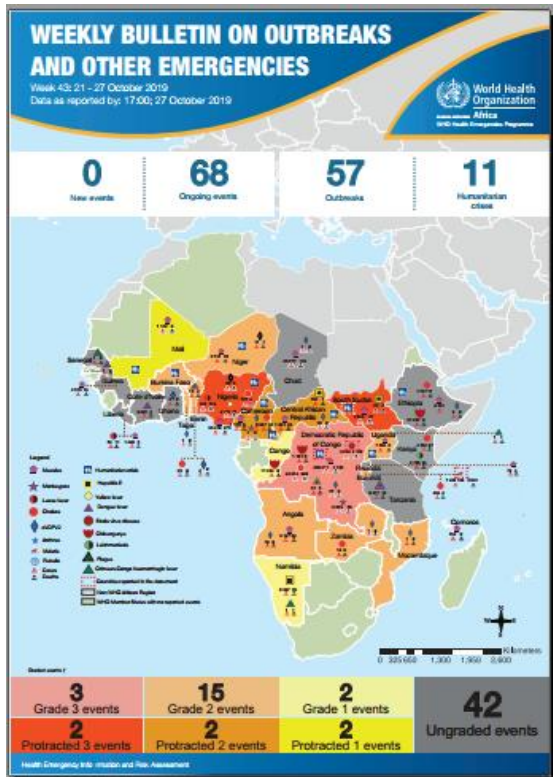
- Have a strong national voice for public health issues

- Evidence generation and use

- Use limited funds more efficiently



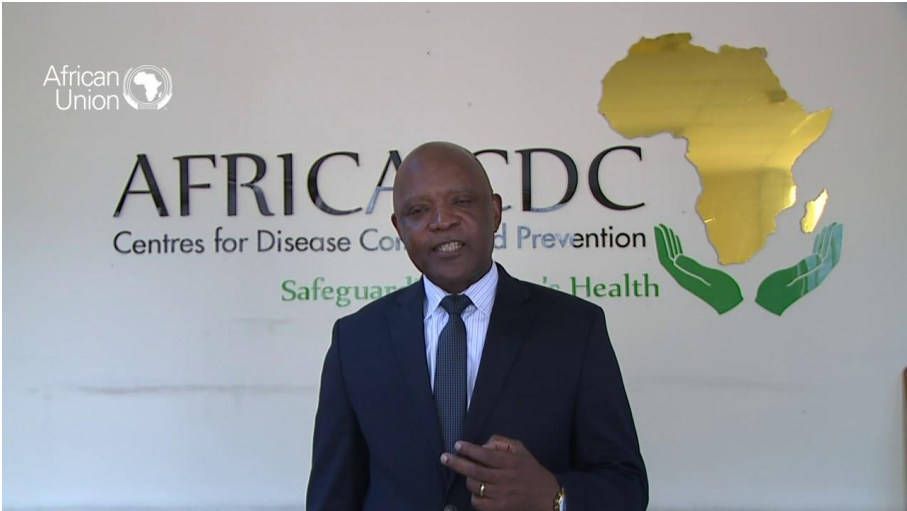
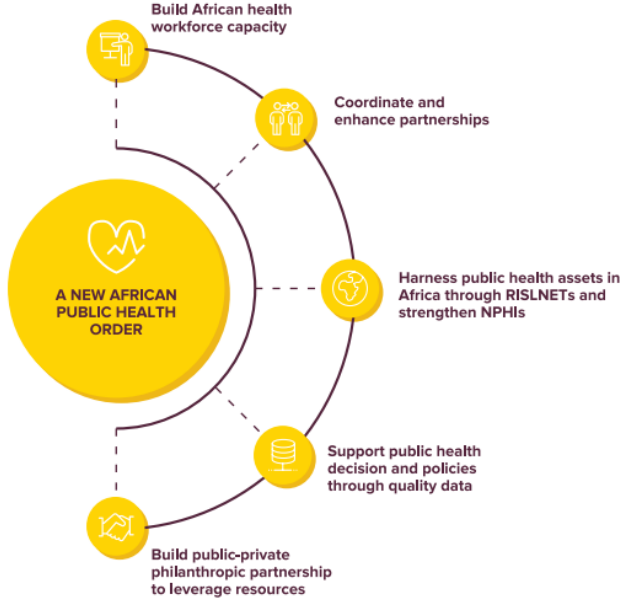
Public Health: *The case of Africa*



Public Health: *The case of Africa*

- “It is clear that we must find an African solution to our problems, and that this can only be found in African unity. Divided we are weak; united, Africa could become one of the greatest forces for good in the world.”

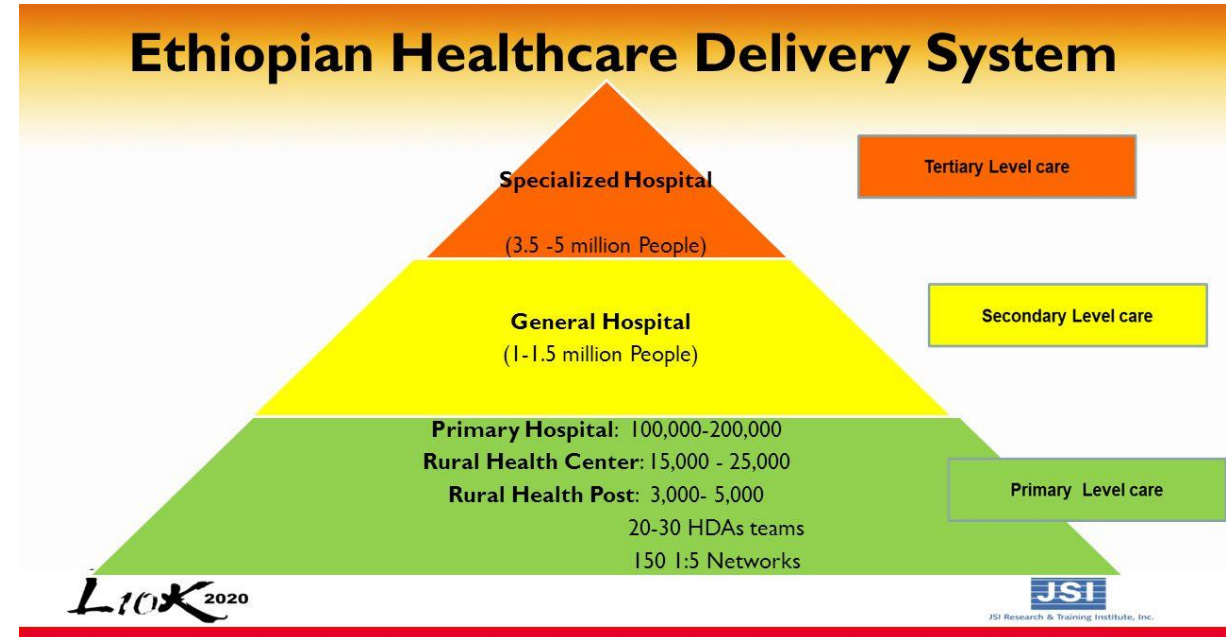
Kwame Nkrumah, 1953



Ethiopia's experience

Health sector development

- Good progress over the years
- Achieved MDG goals
- Strive to achieve the HSTP targets



Executive committee members of the Ministry of Health, Ethiopia



ዶ/ር አሚር አማን
ሚኒስትር



ወ/ሮ ሳህረላ አብዱላሂ
ሚኒስትር ዴኤታ



ዶ/ር ኤባ አባተ ዩኒቨርሲቲ
ኢንስቲትዩት ዋ/ዳይሬክተር



ዶ/ር ሊያ ታደሰ
ሚኒስትር ዴኤታ



ዶ/ር ሉብ አብርሃም የመ/ፈ/አቅርቦት
ኢጀንሲ ዋ/ዳይሬክተር

Health for All!



ወ/ረት ሄራን ገርቡ-የምግብና መድኃኒት
ቁጥጥር ባለስልጣን ዋ/ዳይሬክተር



ዶ/ር አበበ ገነቱ -የአርማወር ሀገሥት
የምር/ኢንስቲትዩት ዋ/ዳይሬክተር



ዶ/ር ሄሊና ሀይሉ-የብ/ደም ባንክ
አገልግሎት ዋ/ዳይሬክተር



ዶ/ር ሚዛን ኪሮስ የጤና መድሀኒት
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ዶ/ር ጽጌረዳ ክፍለ የኢት.አይ.ሺ/
ኤድስ መ/መ/ ዋና ዳይሬክተር

Evolution of EPHI

1922- Hospital by the American missionary, Dr. Lambie

1935- “Ministro dela Sanita”

1940- Imperial Medical Research Institute

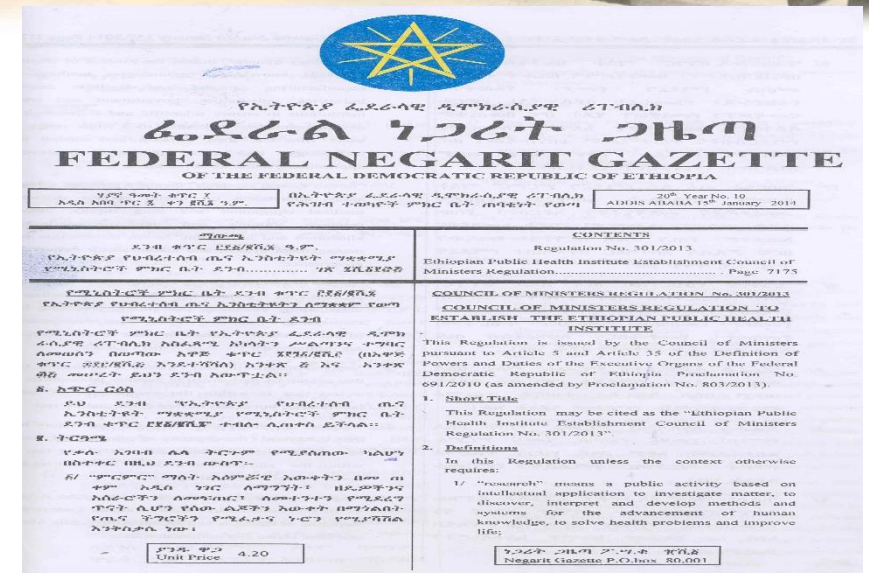
1952- ‘Institute Pasteur d’Ethiopie” established

1965- Imperial Central Laboratory and Research Institute (ICLRI)

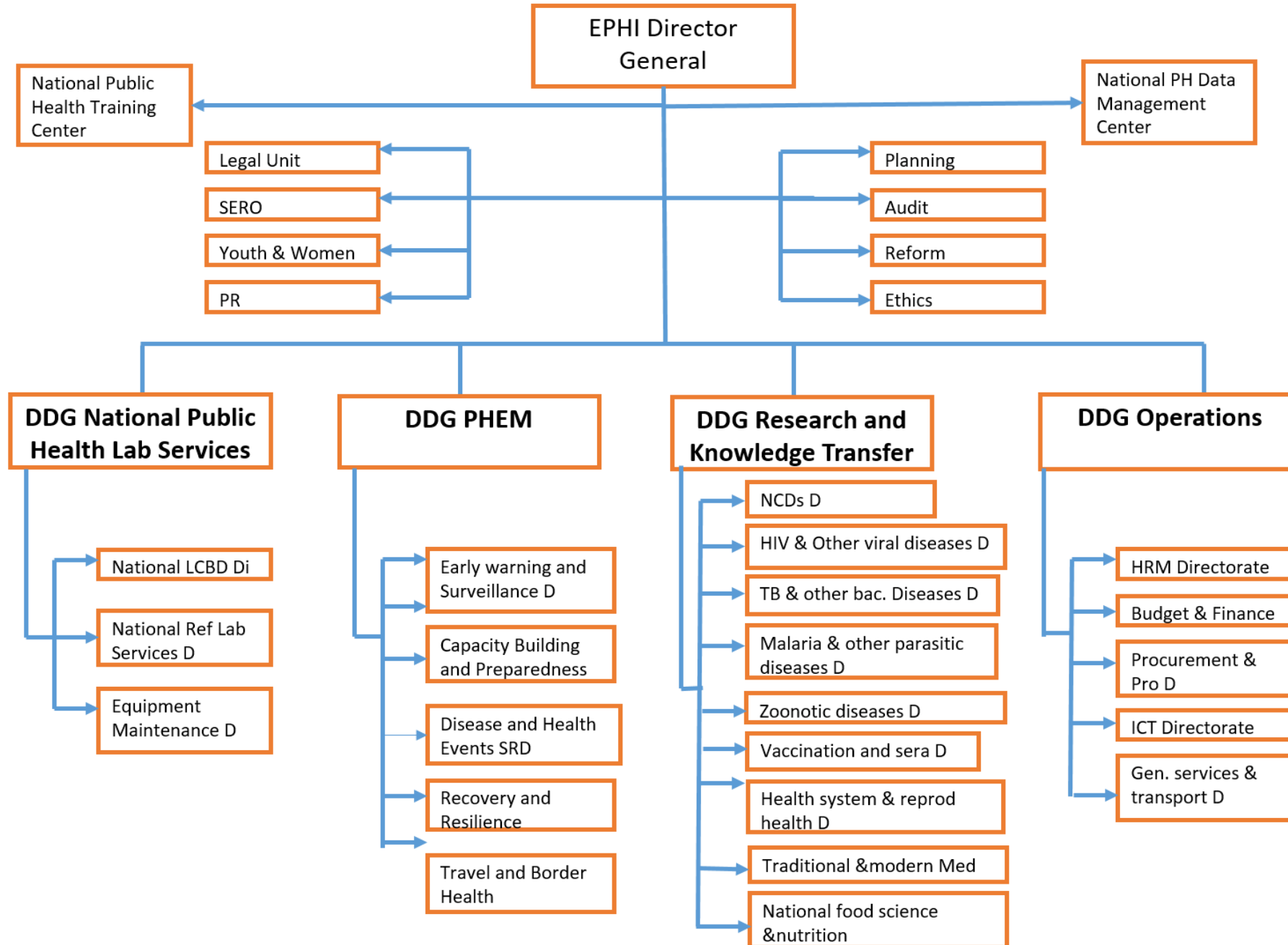
1986- the National Research Institute of Health

1996- The Ethiopian Health and Nutrition Research Institute (EHNRI)

2013- Ethiopian Public Health Institute (EPHI)



Revised EPHI organogram



The Ethiopian Public Health Institute

Four major strategic missions

- National laboratory system building
- Public Health Emergency Management
- *Research-Evidence synthesis and translation*
- Capacity building and workforce development

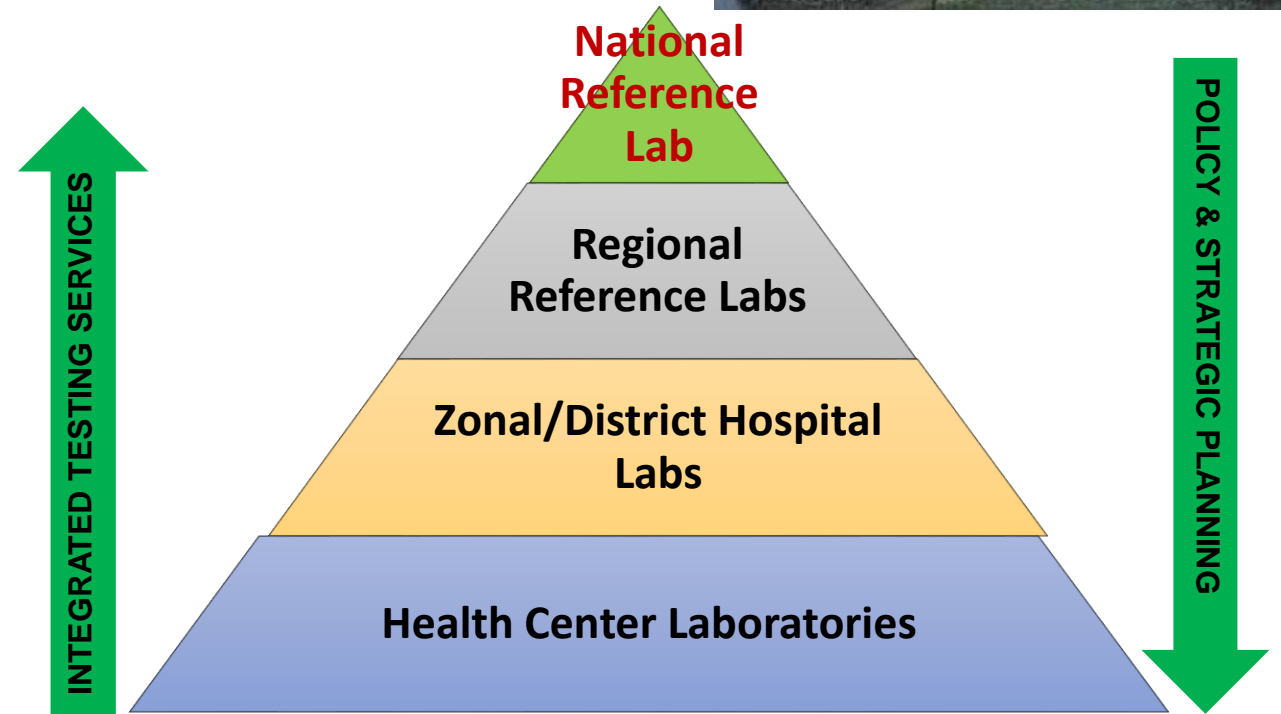
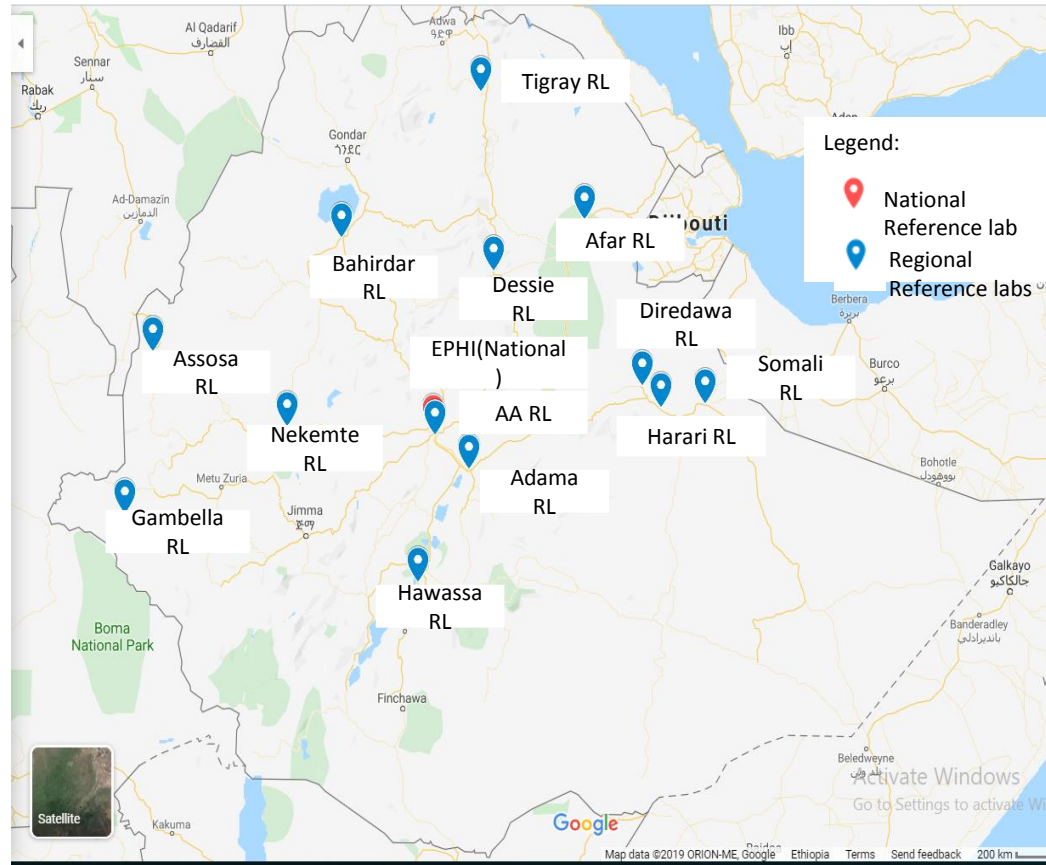


Mission-1

National Laboratory System Building

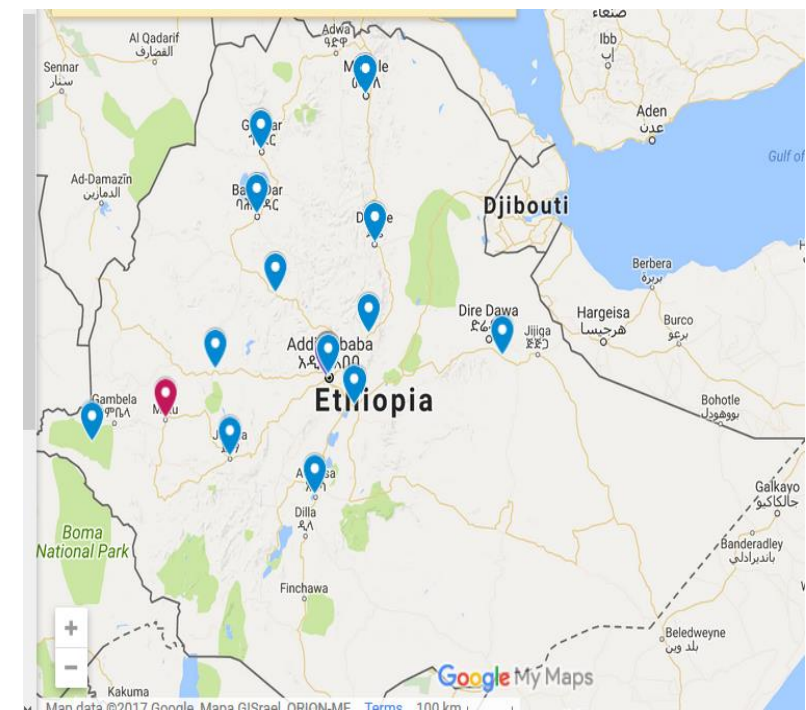
Roles- in the health sector

□ 13 regional laboratories



Roles- in the health sector

- National HIV Viral load/EID services (target for the 3rd 90)

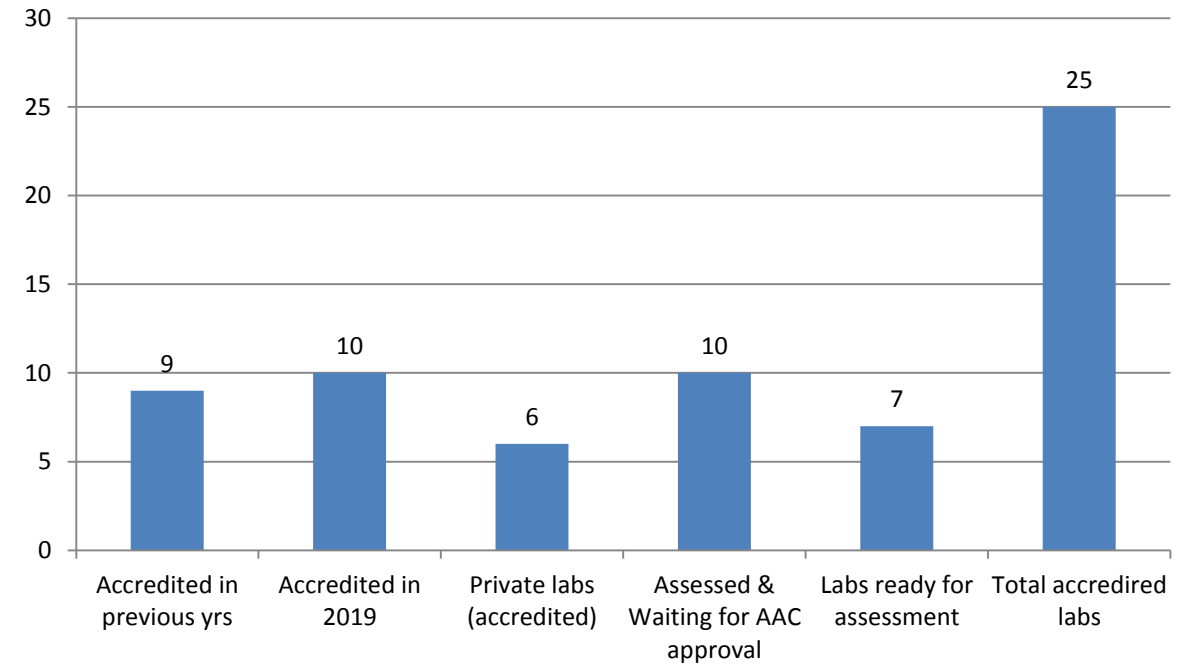
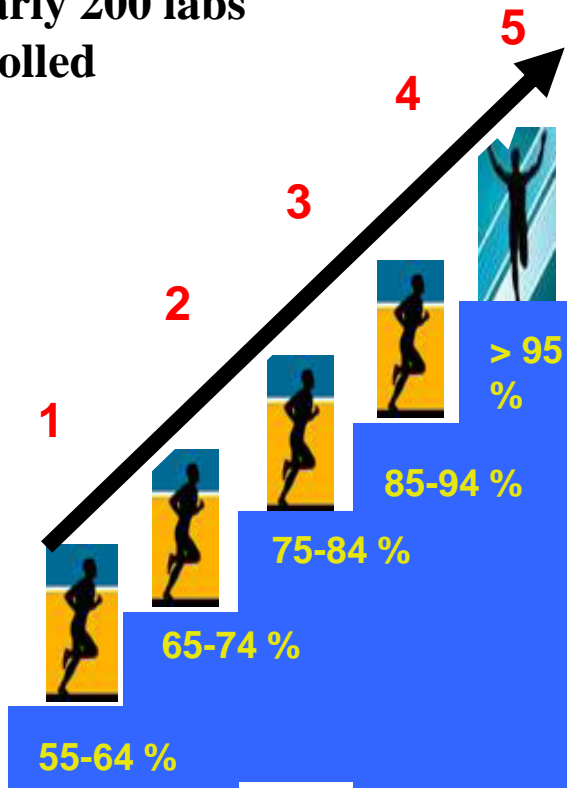


Year	VL Coverage	Target	VL Sup
2016	5%	-	76%
2017	54%	65%	87%
2018	61%	75%	88%
2019	67%	90%	89%

National Laboratory Quality System Strengthening



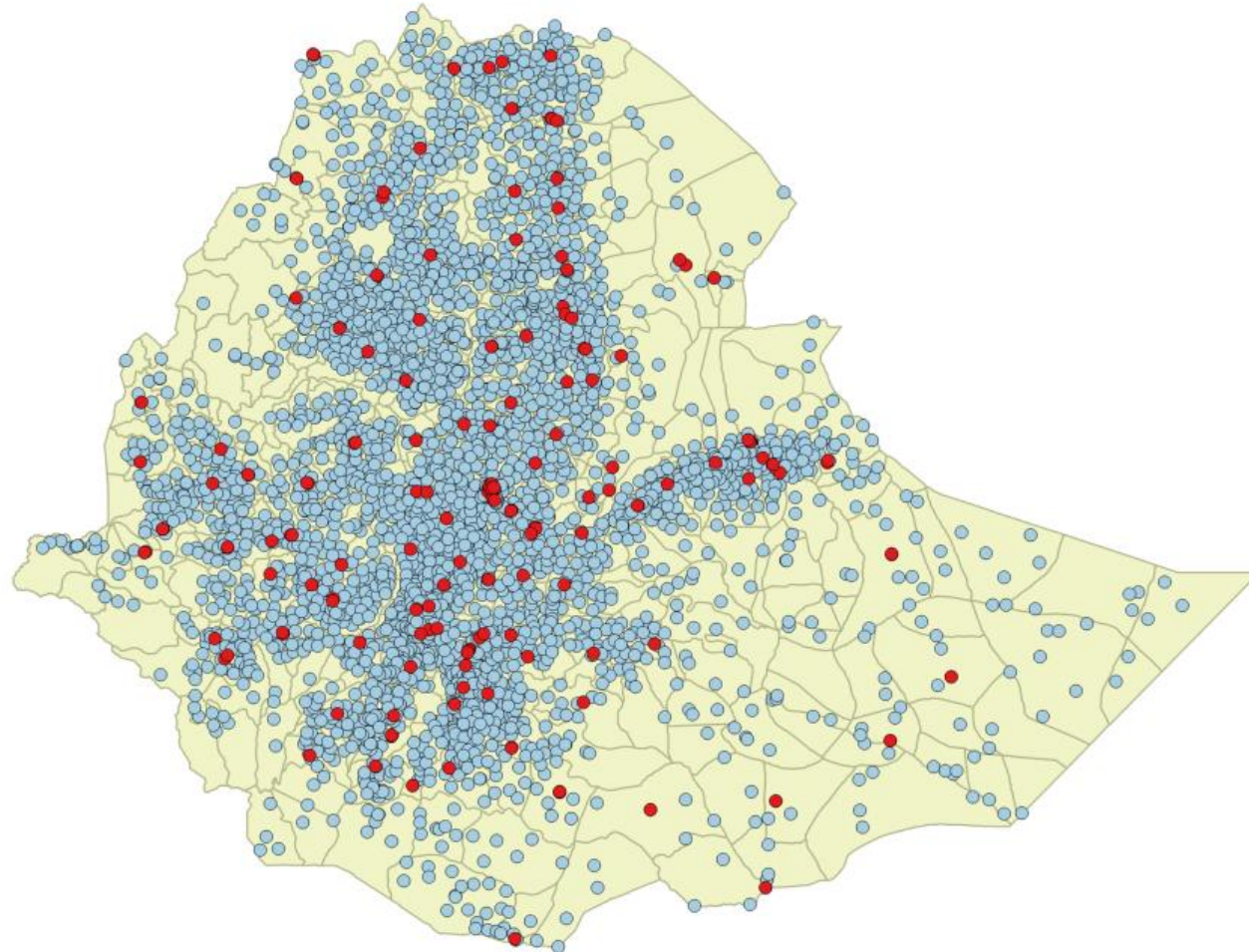
Nearly 200 labs enrolled



Major Laboratory Programs...

Specimen Referral Linkage and testing services

- *3843 health facilities mapped and networked*



National Lab capacity building



150 million USD initiative

Grand project



Mission-2

Public Health Emergency Management System

Global Health Security

Disease has no passport
and border
Spread faster



Faster movement
of goods and population



Only 1/3 of the
countries are prepared



Urbanization



Huge economic impact

Ex. SARS: \$40B Globally

Ebola: >\$30B Globally



Population Growth



Public Health Emergency Management System



Building Emergency Resilience in Ethiopia

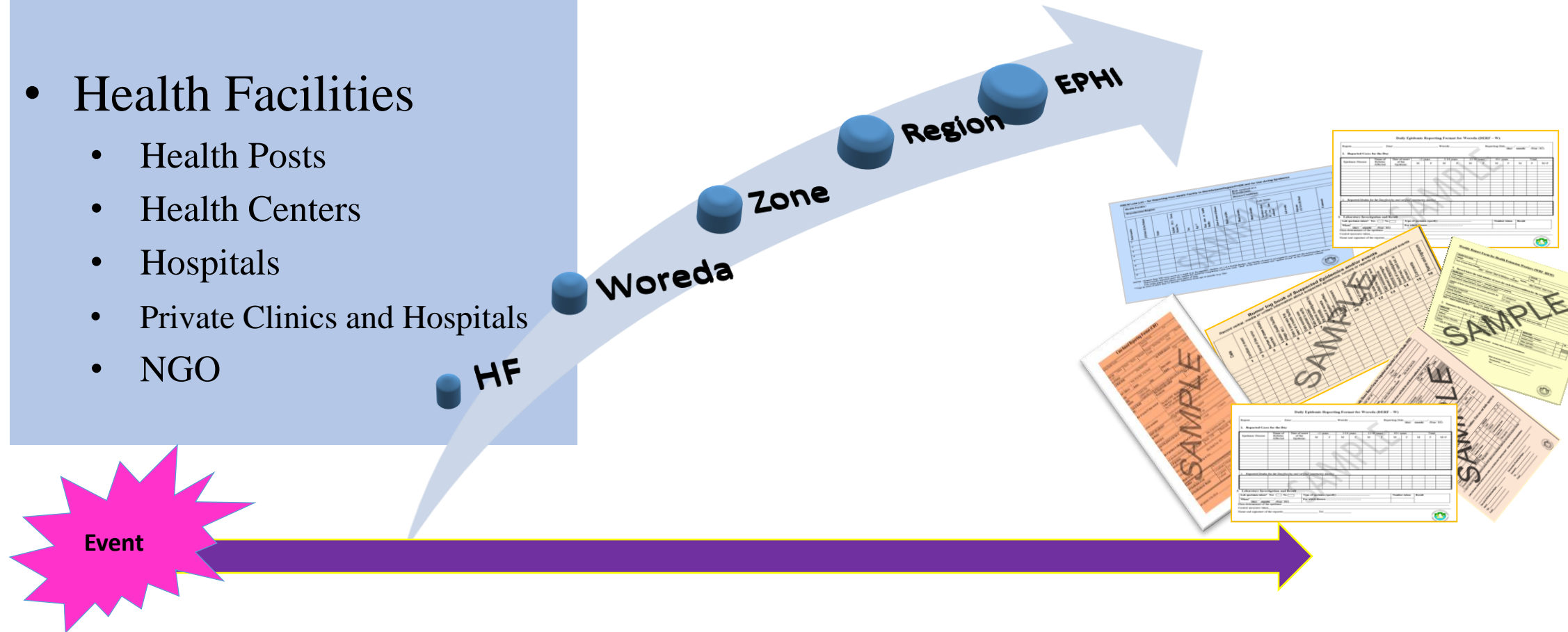


The Ethiopian Public Health Institute

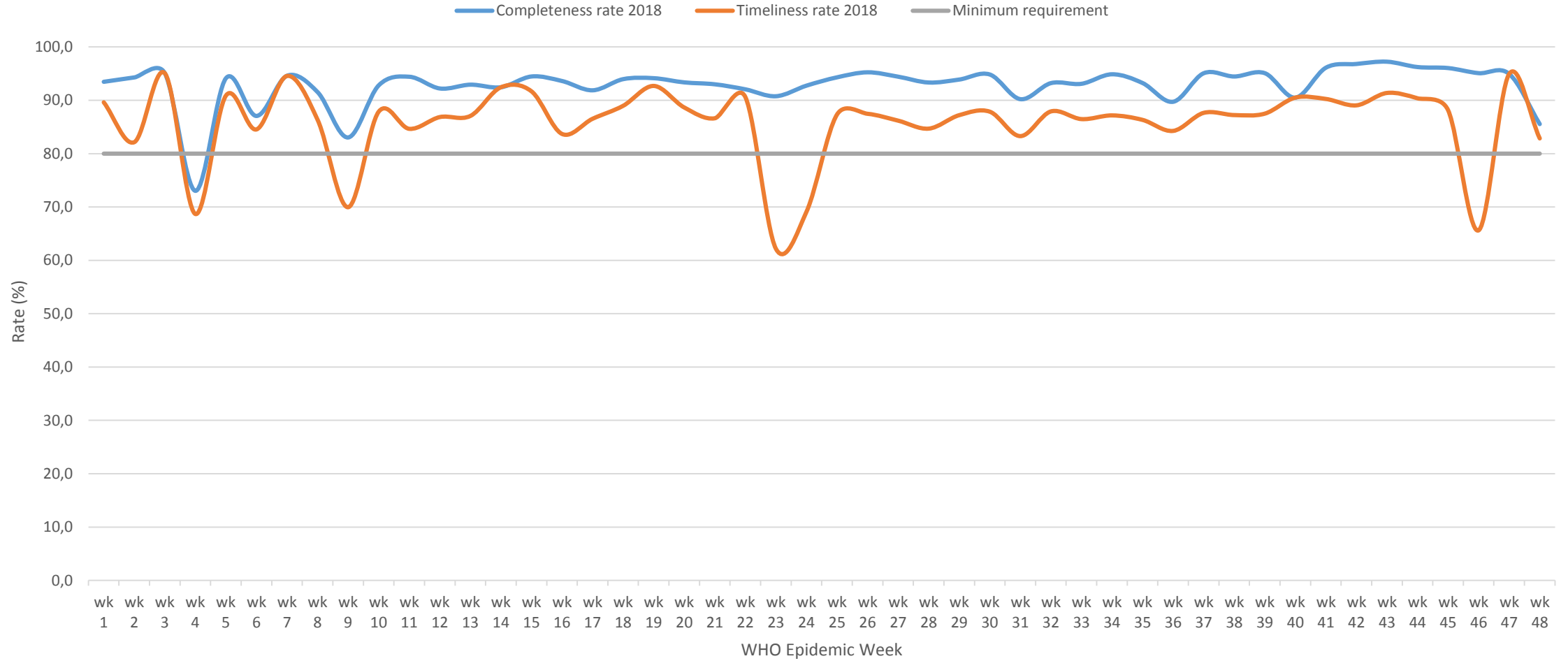


Reporting and feedback mechanisms

- Epidemiological Week
 - Monday to Sunday
- Health Facilities
 - Health Posts
 - Health Centers
 - Hospitals
 - Private Clinics and Hospitals
 - NGO



Timeliness and Completeness of Weekly Reports



Emergency Operating Center (EOC)

Before Activation



After Activation



Mission-3

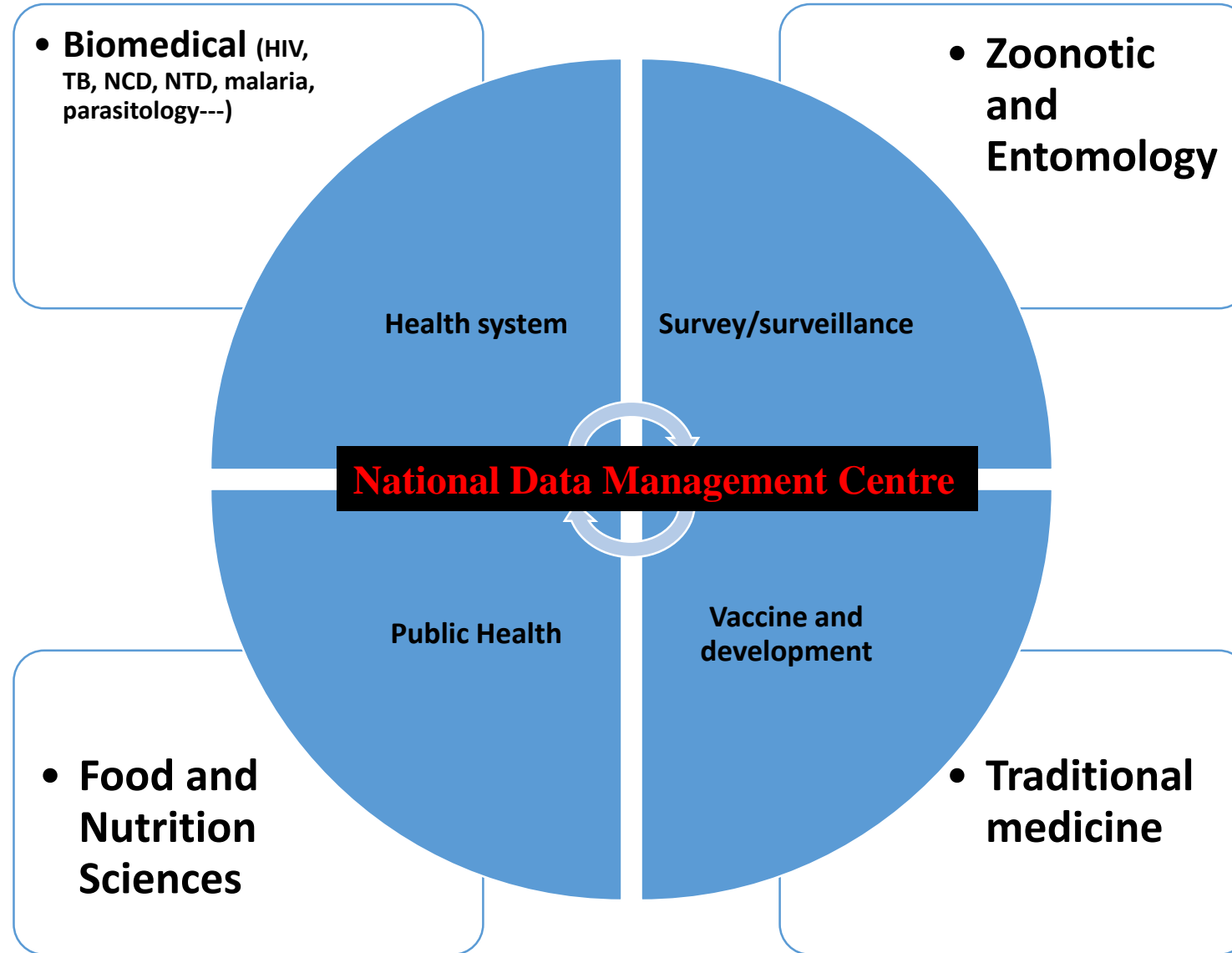
Evidence synthesis and translation

Research

Data to action!



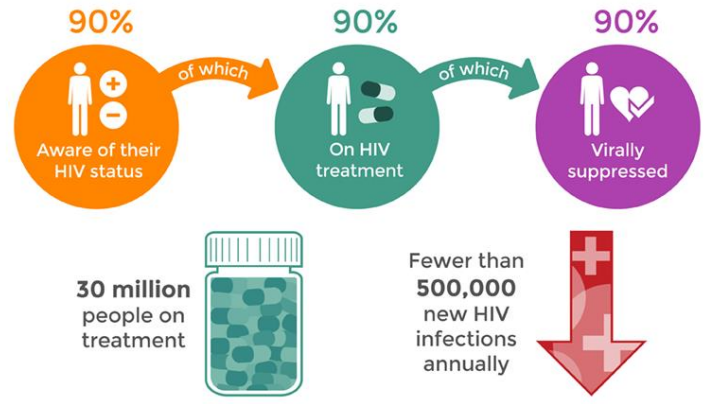
Research outlays





The journey to

KEY 2020 FAST TRACK TARGETS



Source: UNAIDS data 2017

Avert) www.avert.org



Ethiopia Antimicrobial Resistance Surveillance Plan

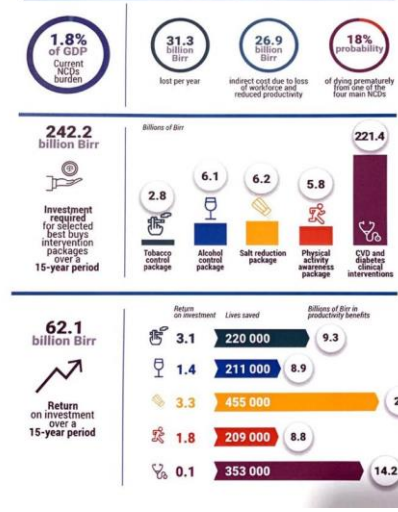
The Surveillance of Antimicrobial Resistance Using Public Health Laboratory-Based Sentinel Sites in Ethiopia 2016–2020

March 2017

The Ethiopian Public Health Institute
Bacterial, Parasitic and Zoonotic Diseases
Research Directorate
Clinical Bacteriology and Mycology
Addis Ababa
Ethiopia

ETHIOPIA

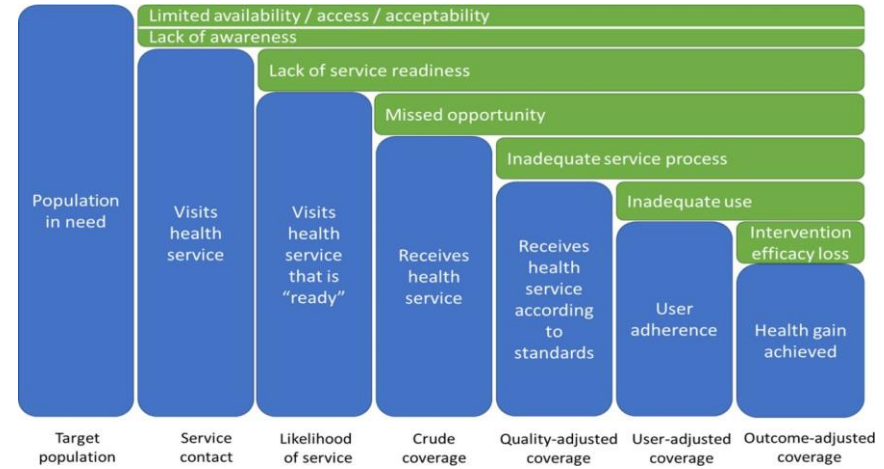
The case for investment in prevention and control of noncommunicable diseases (NCDs)

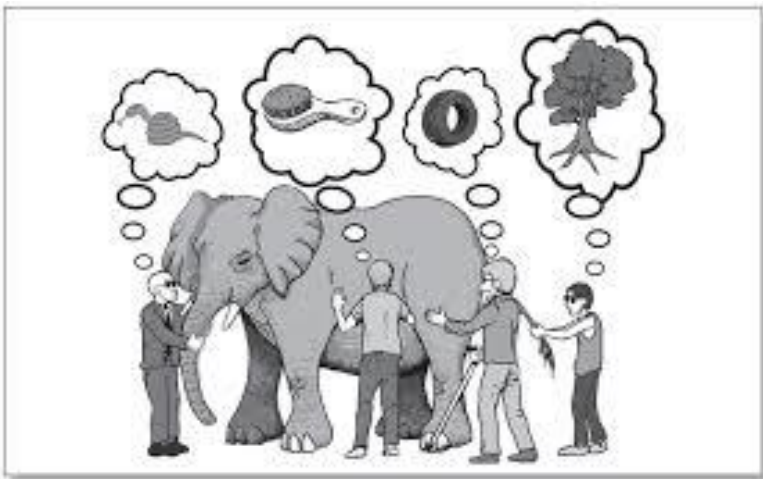


Ethiopia Service Provision Assessment Plus Survey 2014

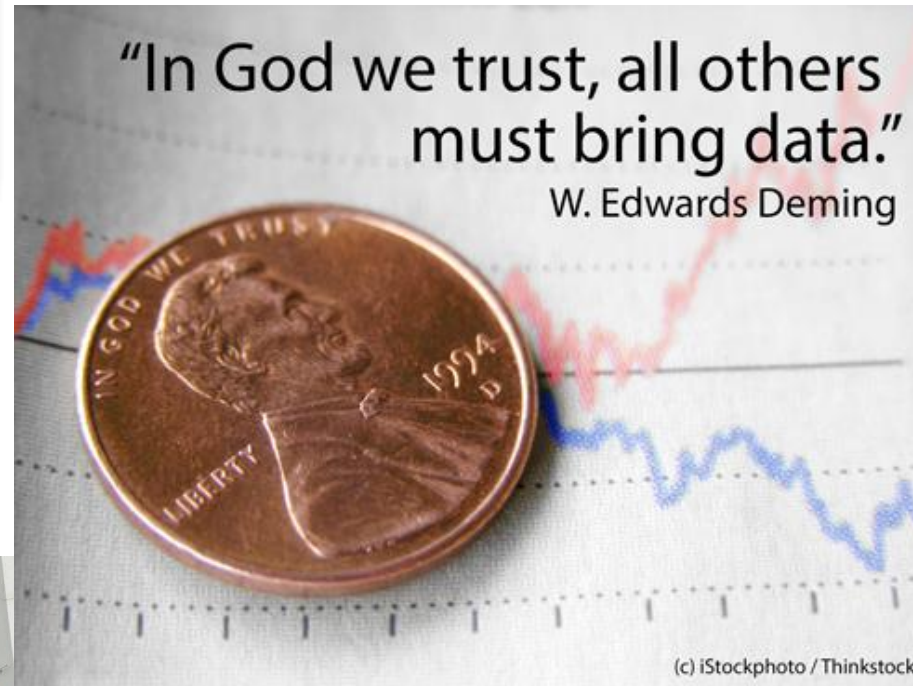
Key Findings

Ethiopian Public Health Institute (EPHI)
Federal Ministry of Health
ICF International





**EPHI & IHME project launching,
Sept 02, 2019**



**“In God we trust, all others
must bring data.”**
W. Edwards Deming

**12 million USD initiative
(BMGF)**

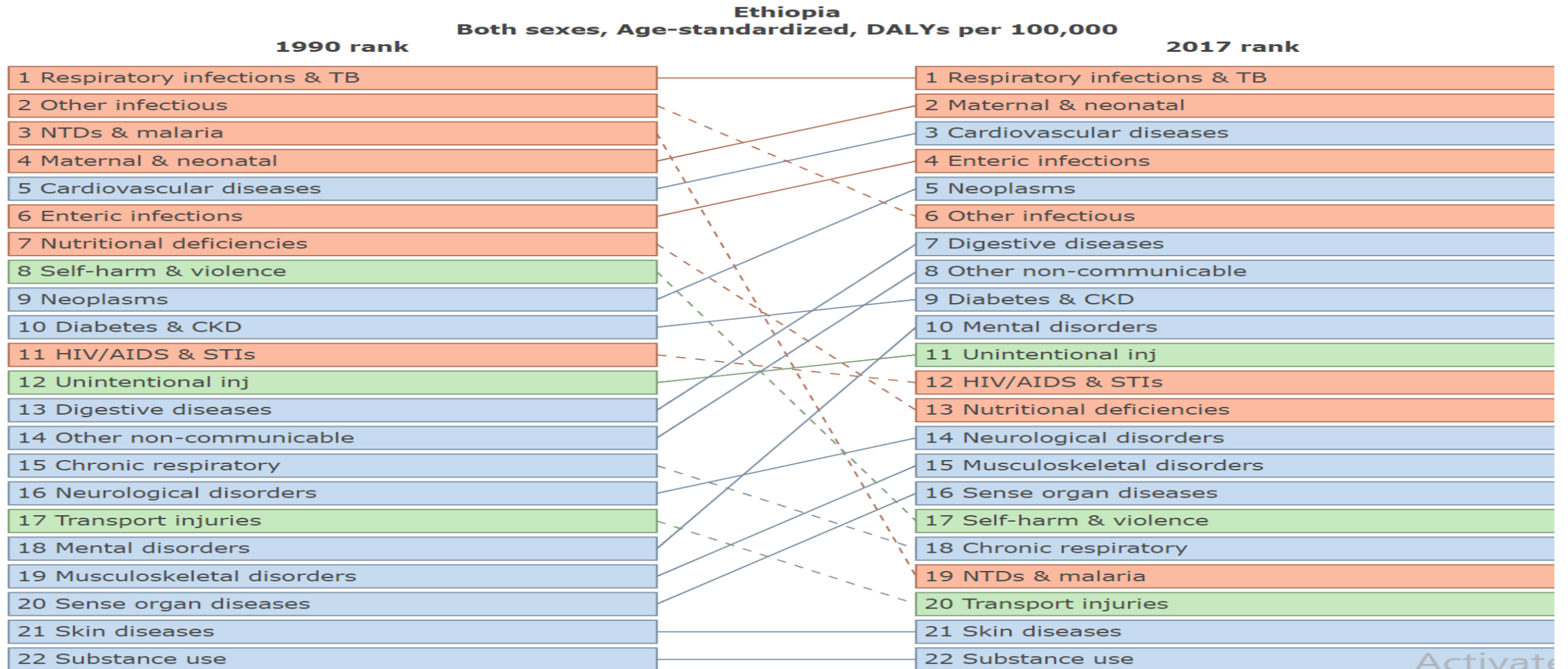


**National Data Management
Center
(NDMC)**

“Data to action”

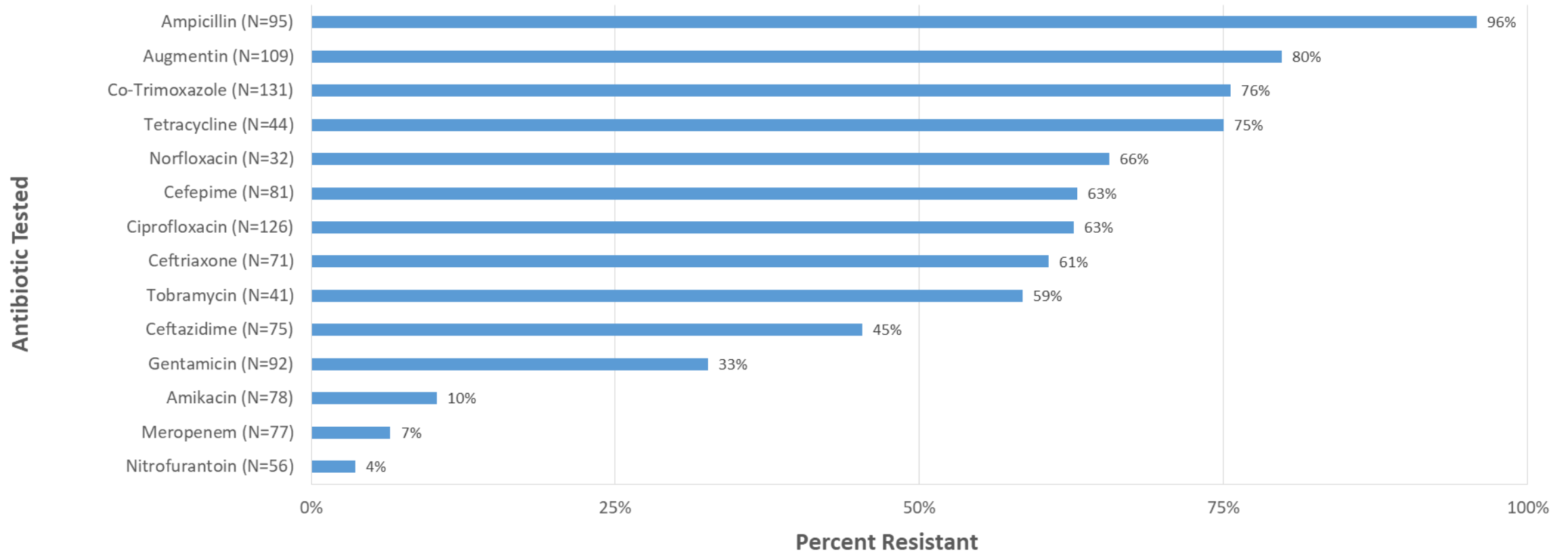


Burdens of diseases- Ethiopia: 1990- 2017



Antimicrobial resistance (AMR)

Proportion of *E. coli* Isolates from Urine Showing Resistance by Antibiotic Tested
Preliminary Findings - Ethiopia AMR Surveillance, July 2017 - February 2018

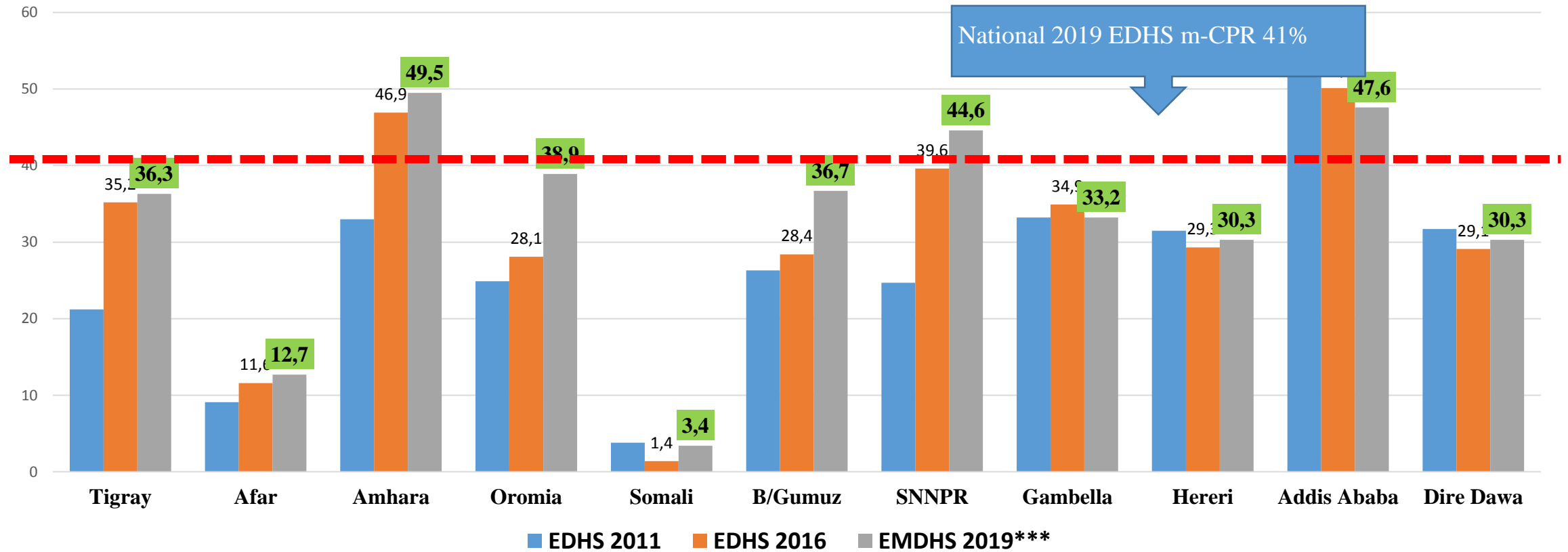


Program evaluation: *Mini DHS survey findings*

Its impact on: *Trend, Progress, Gaps, Future intervention*

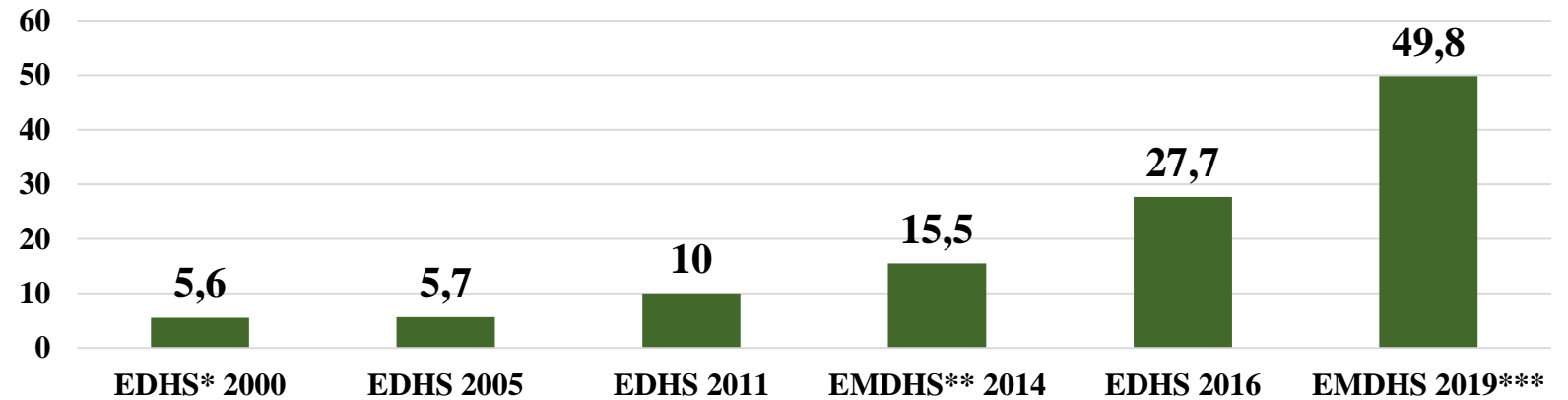
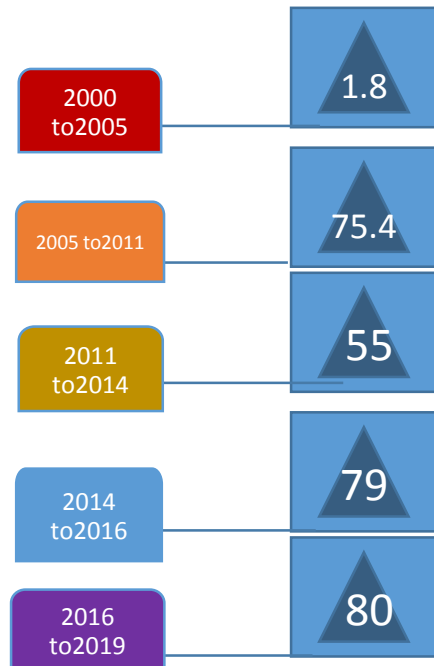


Regional CPR (2005-2019 DHS)



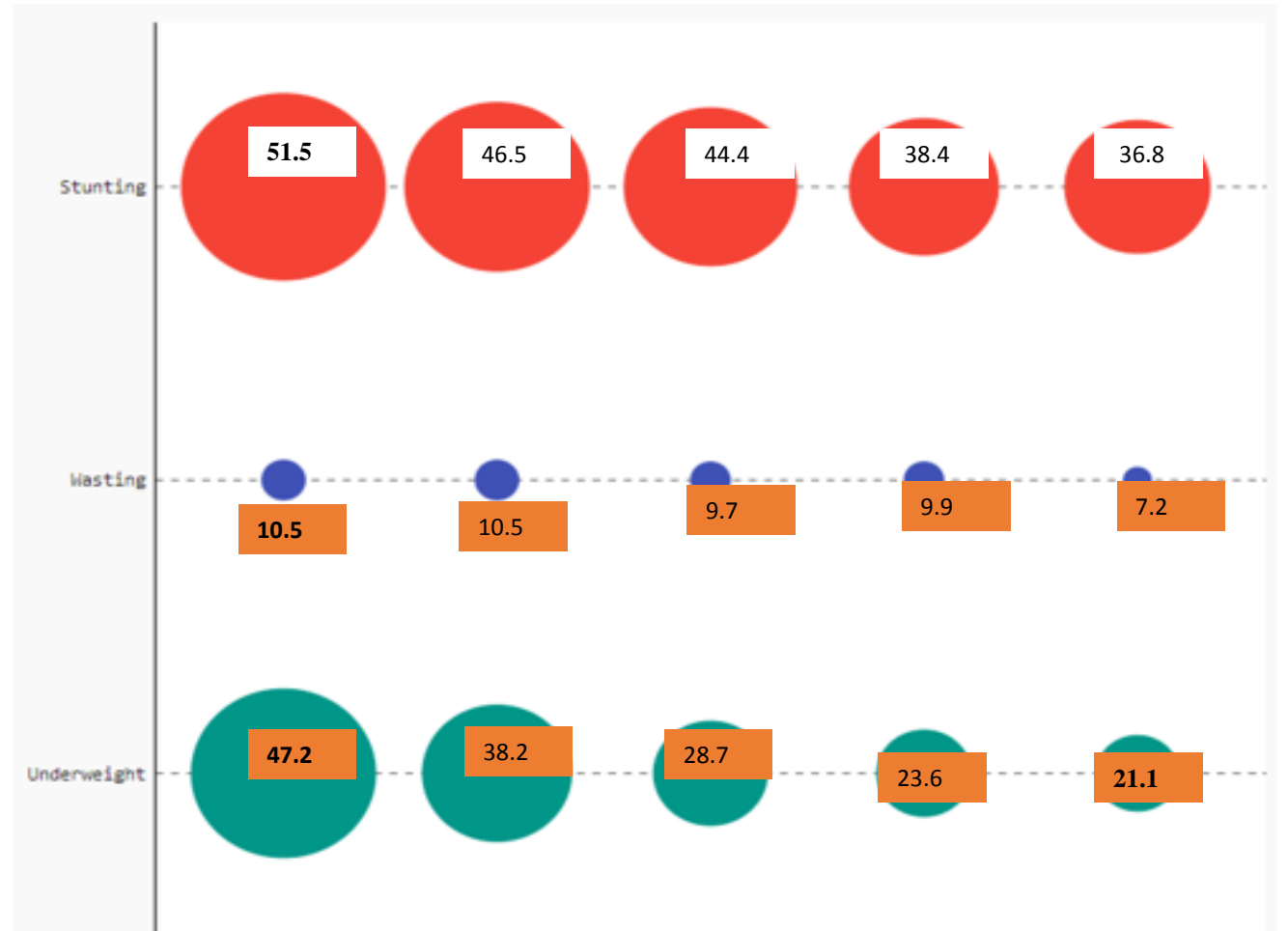
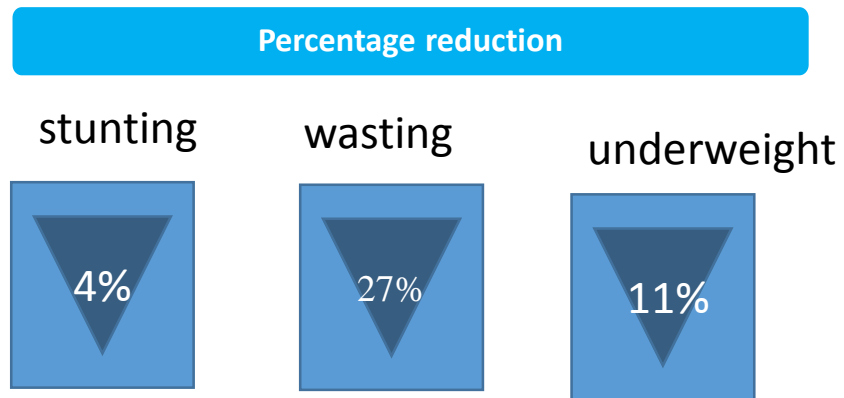
Skilled delivery trend (DHS 2005 -2019)

Percentage increase in between survey

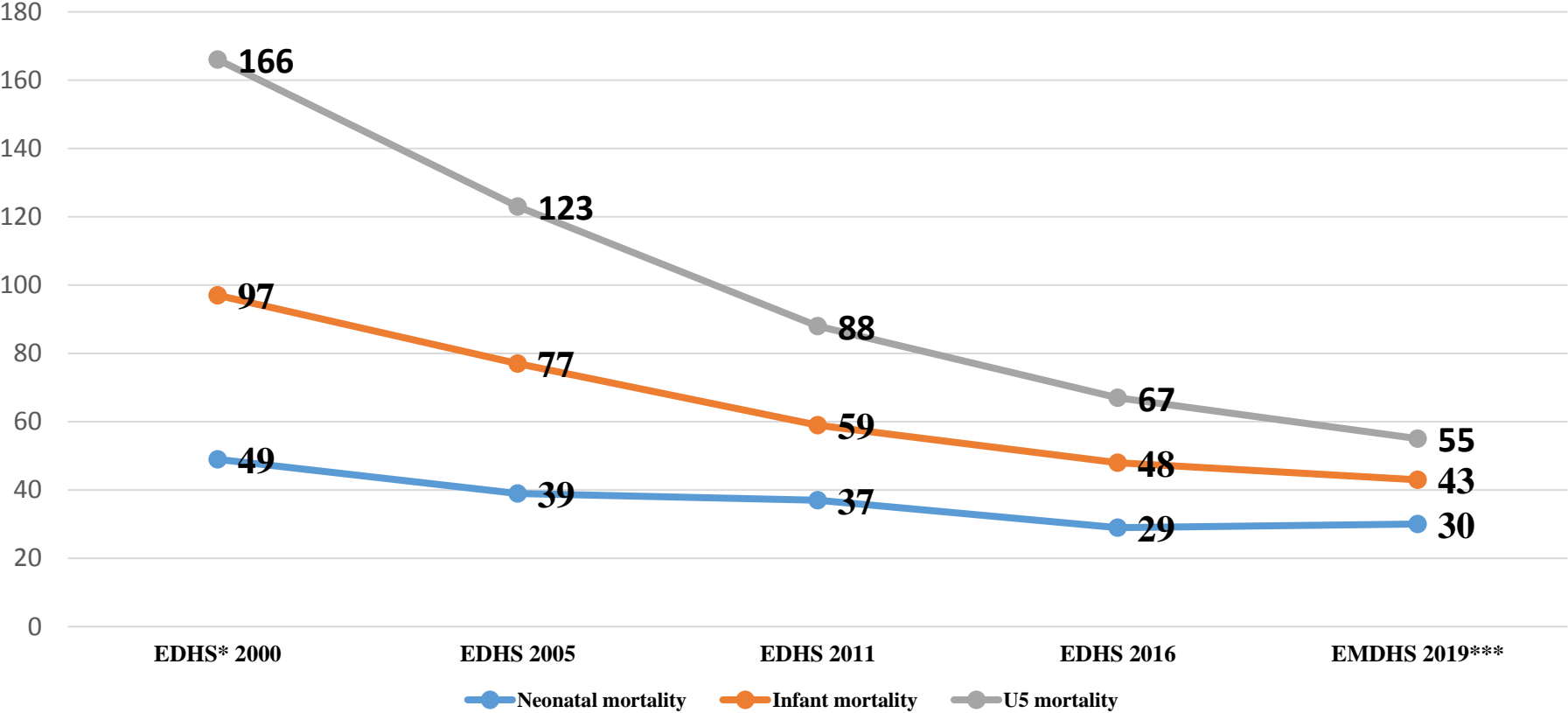


- There is high jump in performance in the recent 2019 Mini DHS compared with previous survey

Children Nutrition Status



Child Mortality Status



Capacity building activities and sharing evidence



Seminars/Workshops/Trainings





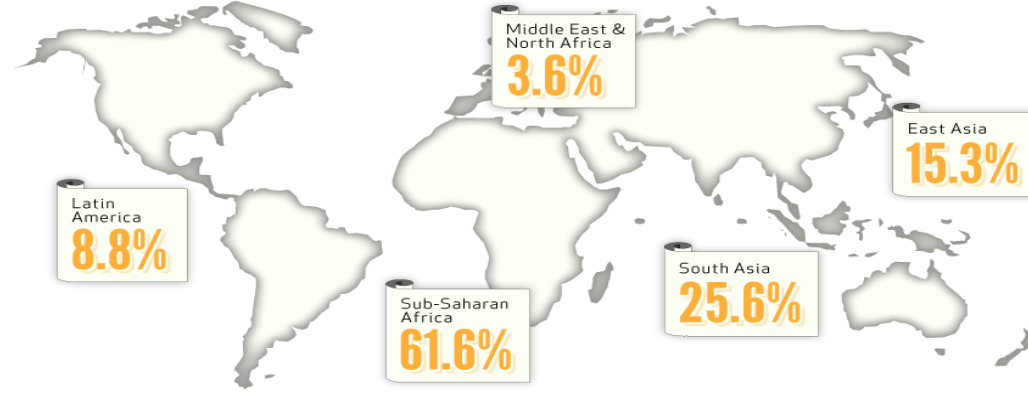
EPHI- 4th Health Science congress- *May, 2019*



Incidence of extreme rural poverty

percent of people living on US\$1.25/day)

20% of the world's population lives on less than \$1.25 / day.



1.4bn → **1.0bn**
living in poverty of which live in rural areas



from Rebecca Swayn



"Poverty..yet WOW!, impressive, creative, innovative, humble (TEACHABLE, therefore, rich). WHAT IF one appears rich, yet poor in another way because of pride (not teachable, therefore ignorant). That is the tragedy. That is the greater poverty."-MarianneTSites

Innovation



Health in all



The struggle sometimes is to have something from almost nothing





Health in all





Health in all





Health in all





Health in all



Health in all



Wellcome Images





Yes, we can!!!

Thank you!