



Are we there yet? Destination SAHPRA

Professor Helen Rees

Executive Director, Wits RHI Institute & Personal Professor Ob/Gyn University of Witwatersrand, South Africa
Co-Director, African Leadership in Vaccinology Excellence (ALIVE), University of Witwatersrand, South Africa
Honorary Professor, London School of Hygiene and Tropical Medicine, UK
Honorary Fellow, Murray Edwards College, Cambridge University, UK
Chairperson, South African Medicines Control Council

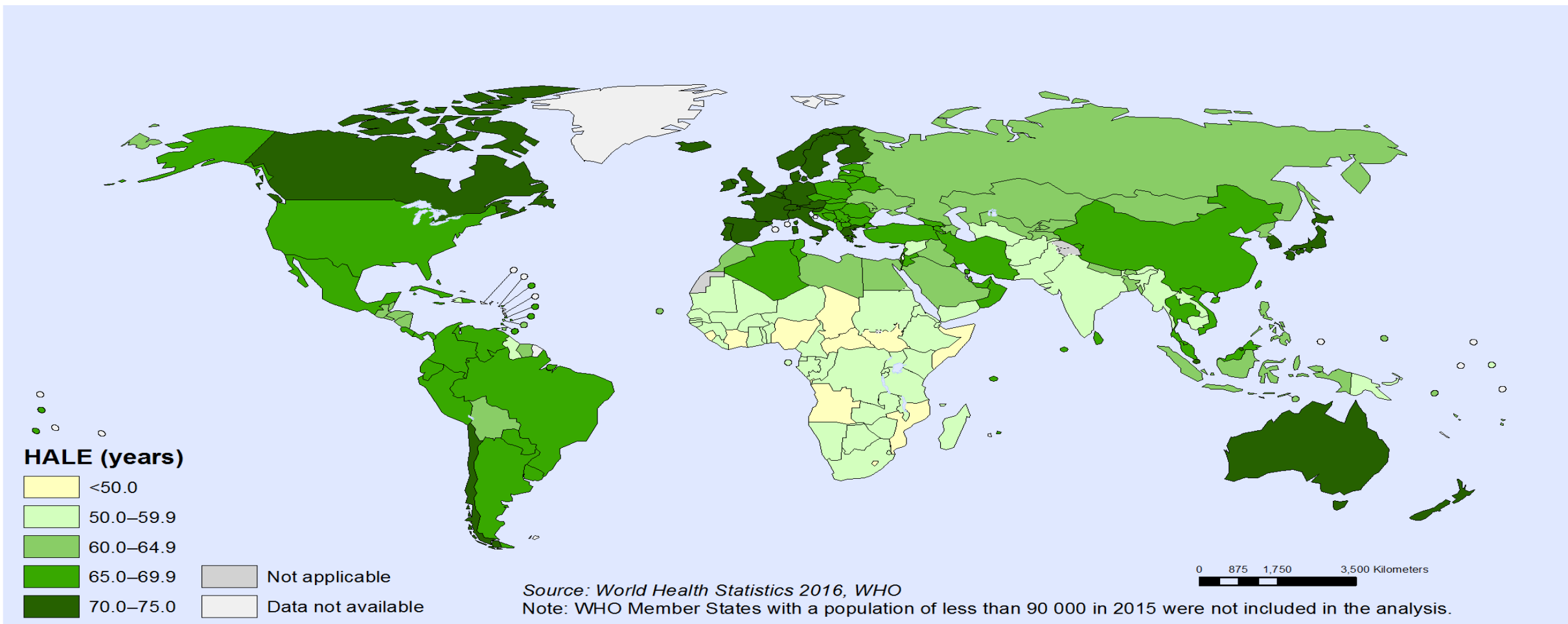


SAAPI 2017 Conference

INDUSTRY IN TRANSITION, 5- 6 OCTOBER , BYTES CONFERENCE CENTRE, MIDRAND

- The context
- SAHPRA

Healthy life expectancy (HALE) at birth, both sexes, 2015



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 and dashed lines on maps represent approximate border lines for which there may not yet be full agreement.

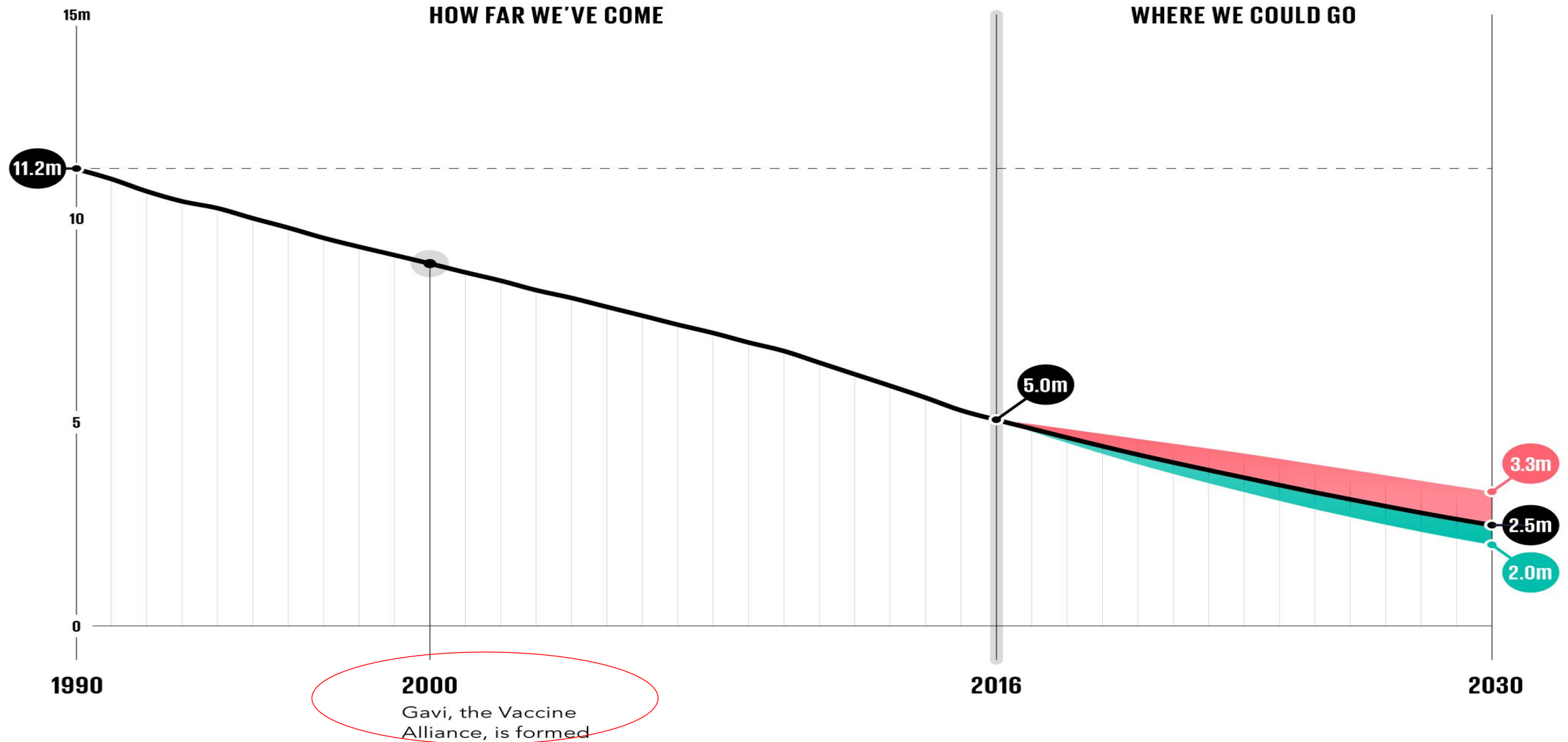
Data Source: World Health Organization
Map Production: Information Evidence and Research (IER)
World Health Organization



© WHO 2016. All rights reserved.

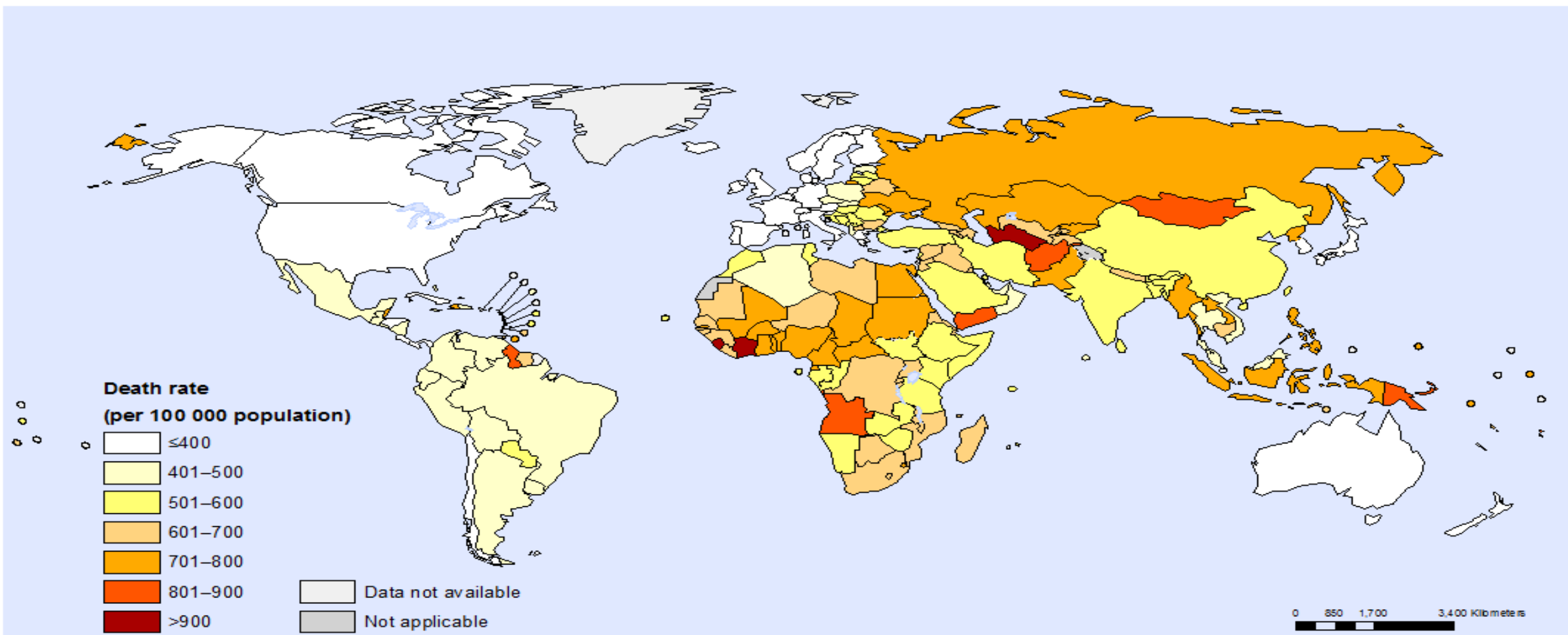
Global number of deaths of children under age 5 (in millions)

● Current projection ● If we progress ● If we regress





Deaths due to noncommunicable diseases: age-standardized death rate (per 100 000 population) Both sexes, 2015



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 and dashed lines on maps represent approximate border lines for which there may not yet be full agreement.

Data Source: World Health Organization
Map Production: Information Evidence and Research (IER)
World Health Organization



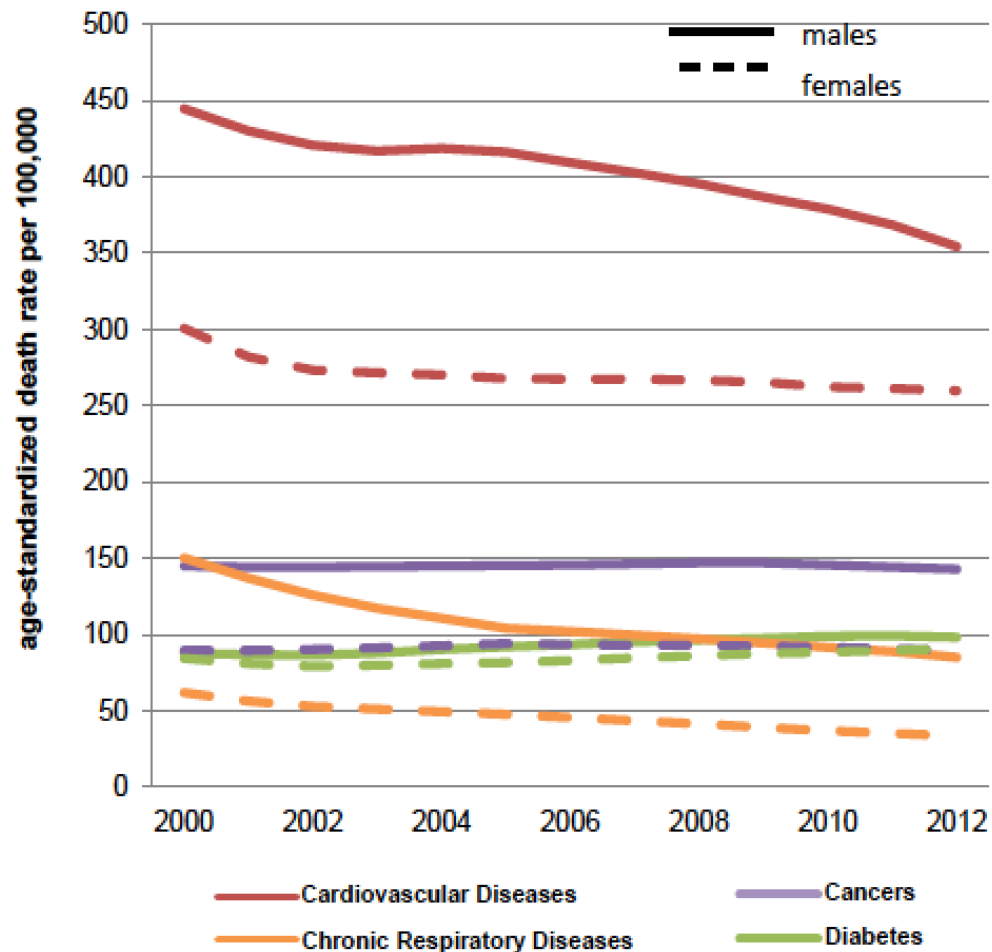
© WHO 2017. All rights reserved.

South Africa

Total population: 52 386 000

Income Group: Upper middle

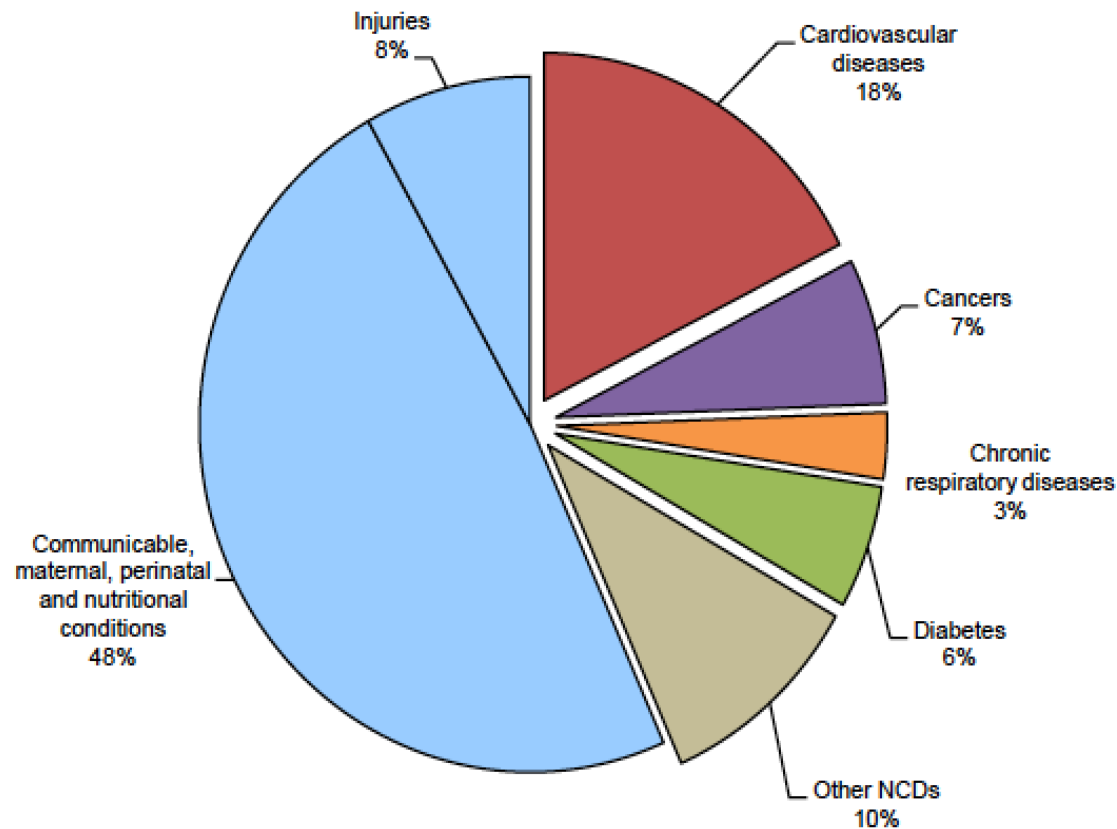
Age-standardized death rates*



Percentage of population living in urban areas: 62.0%

Population proportion between ages 30 and 70 years: 38.3%

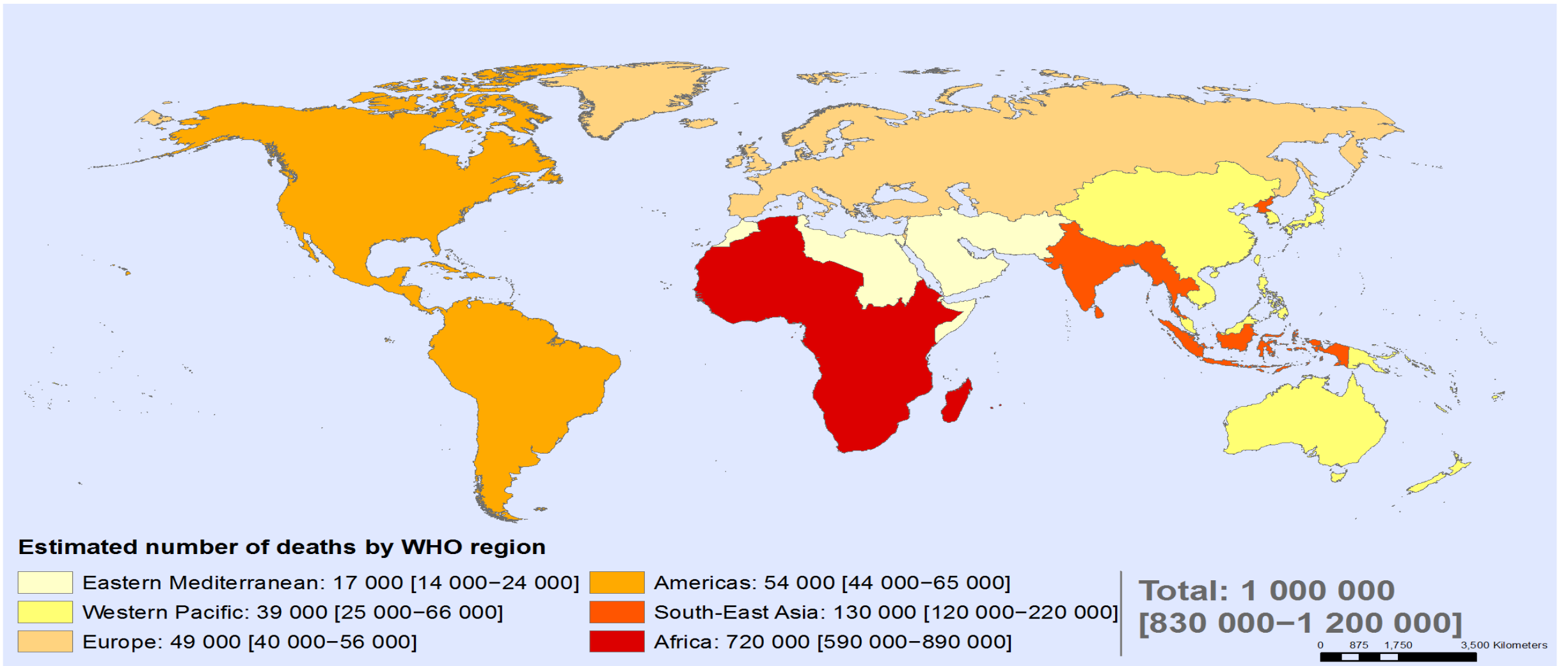
Proportional mortality (% of total deaths, all ages, both sexes)*



Total deaths: 608,000

NCDs are estimated to account for 43% of total deaths.

Estimated number of people dying from HIV-related causes, 2016 By WHO region



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 and dashed lines on maps represent approximate border lines for which there may not yet be full agreement.

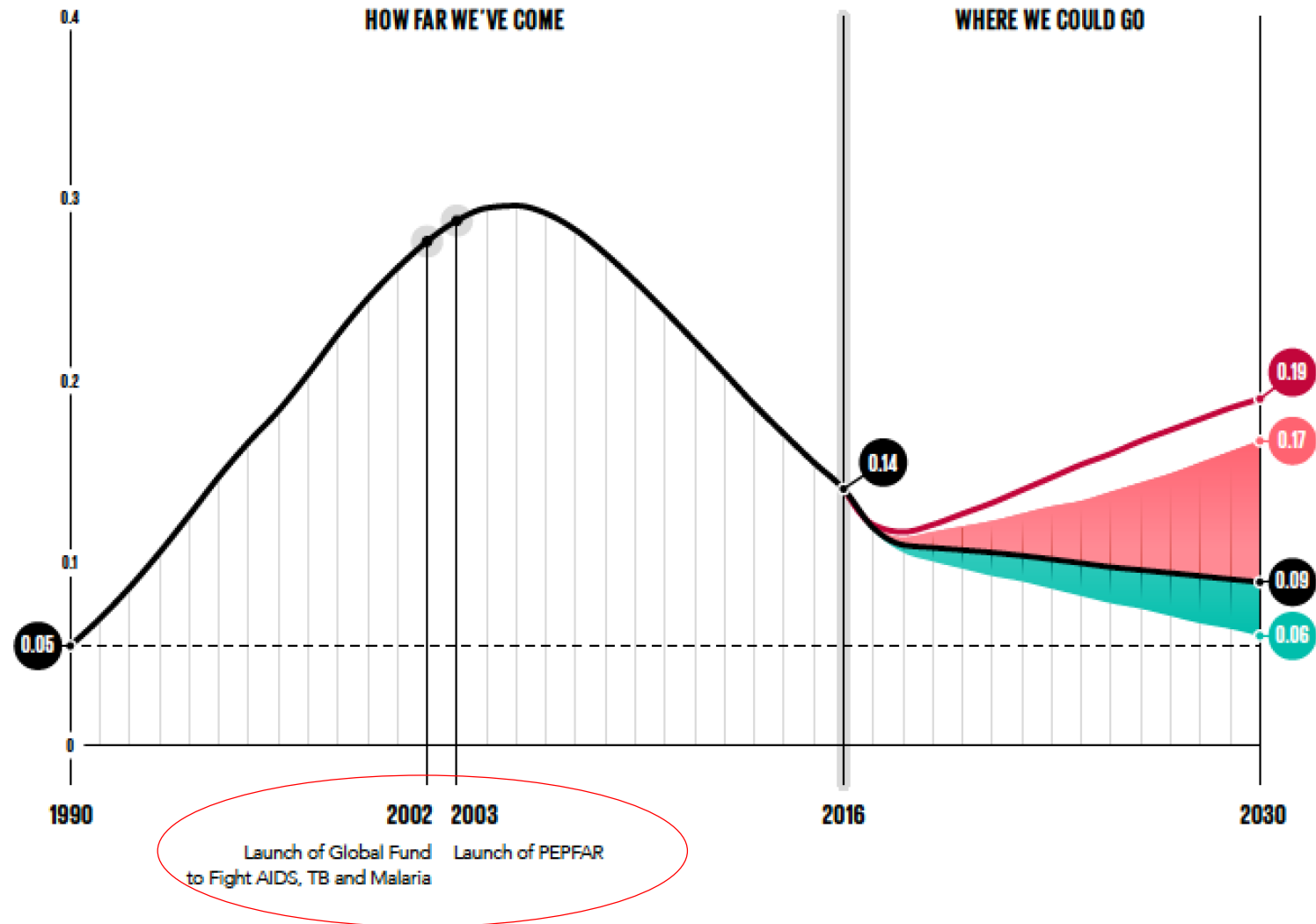
Data Source: World Health Organization
Map Production: Information Evidence and Research (IER)
World Health Organization



© WHO 2017. All rights reserved.

Global HIV deaths per 1,000 people

● Current projection ● If we progress ● If we regress ● 10% budget cut



This model reflects the impact of a cut in donor funding to HIV treatment, just one aspect of global HIV programs, which also include diagnosis and prevention.



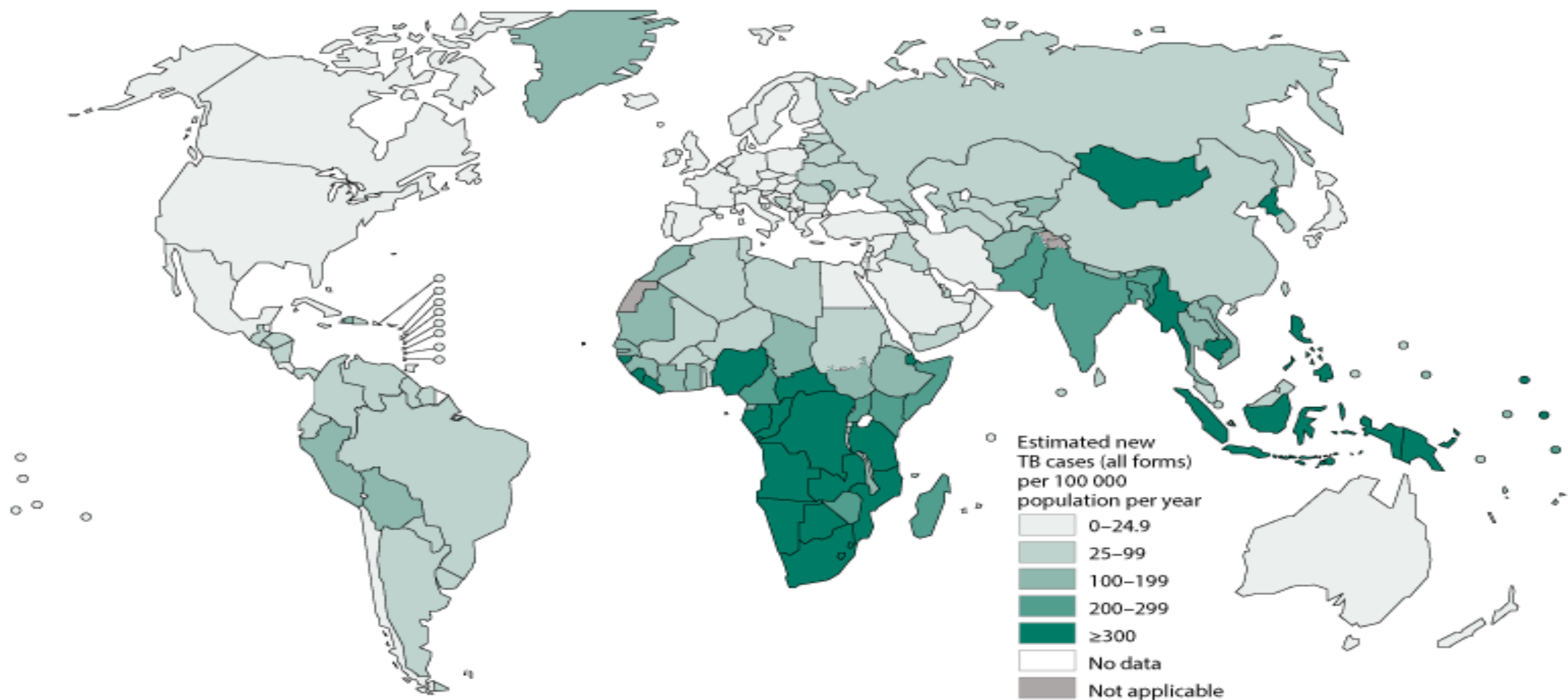
TECHNICAL BRIEF

PREVENTING HIV DURING PREGNANCY AND BREASTFEEDING IN THE CONTEXT OF PREP

JULY 2017



Estimated TB incidence rates, 2015



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 and dashed lines on maps represent approximate border lines for which there may not yet be full agreement.

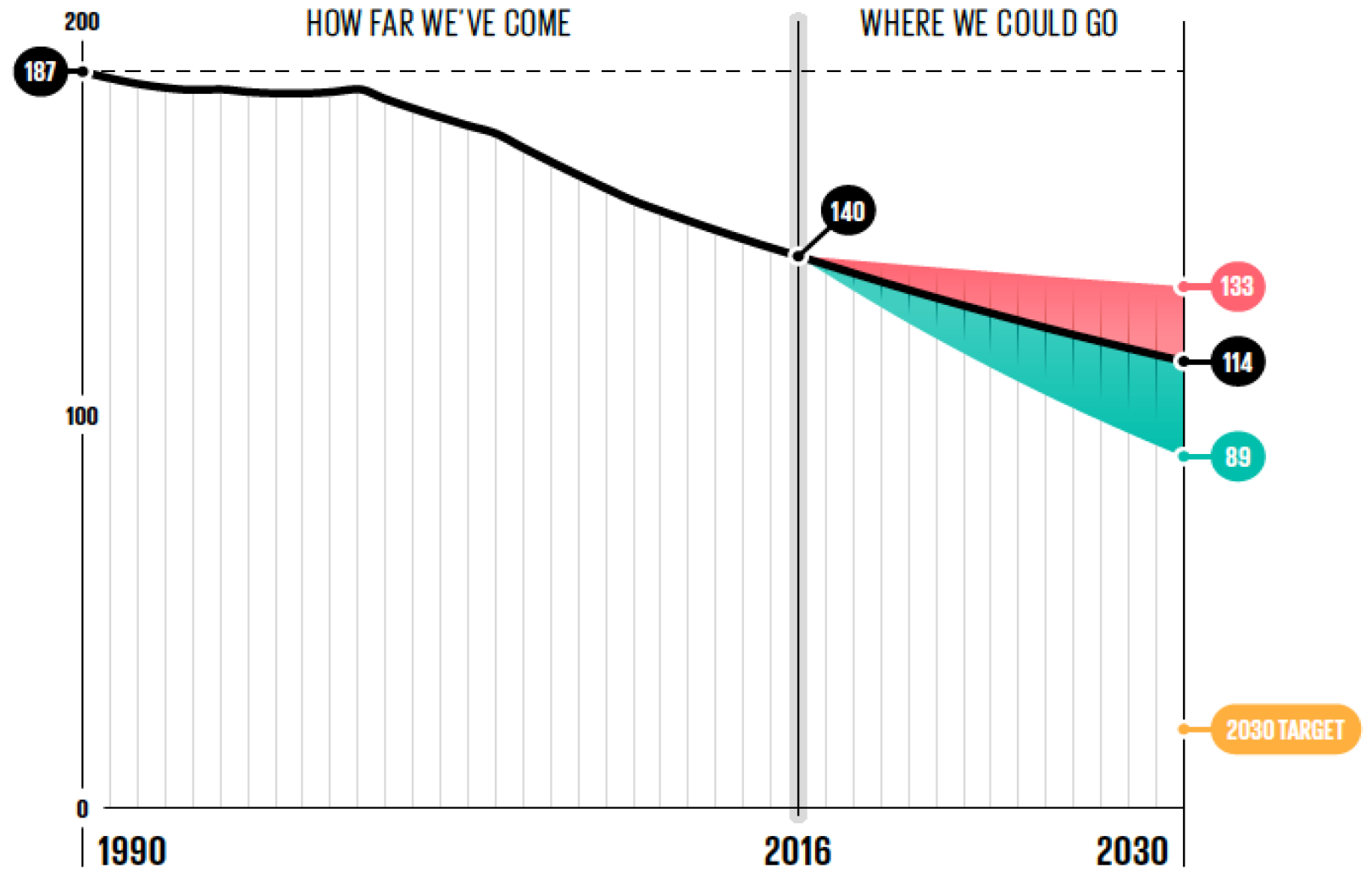
Data Source: *Global Tuberculosis Report 2016*. WHO, 2016.

© WHO 2016. All rights reserved.

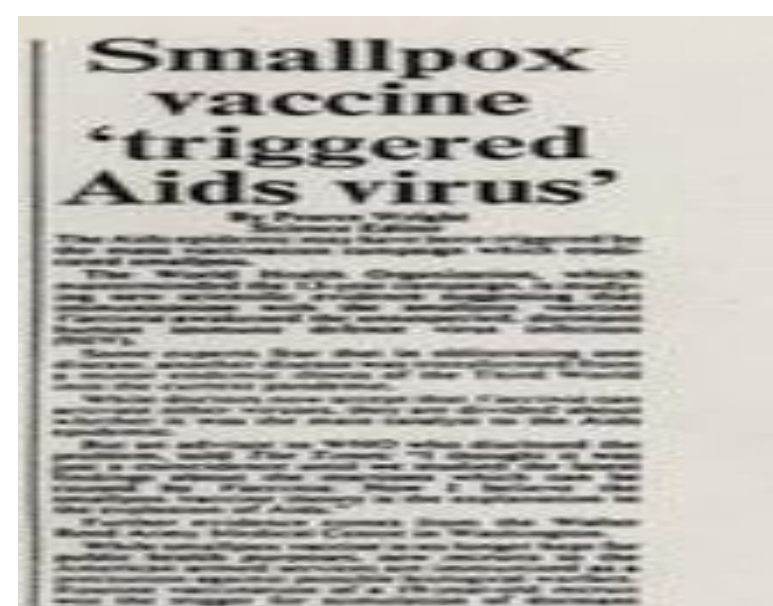
TUBERCULOSIS

New cases of tuberculosis per 100,000 people

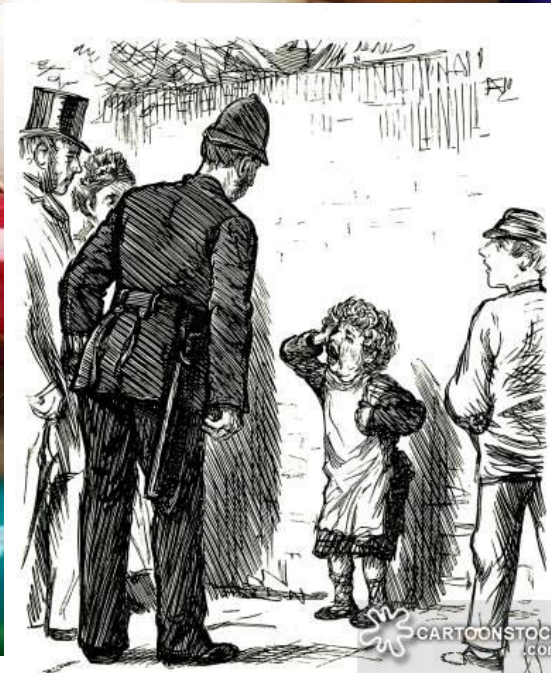
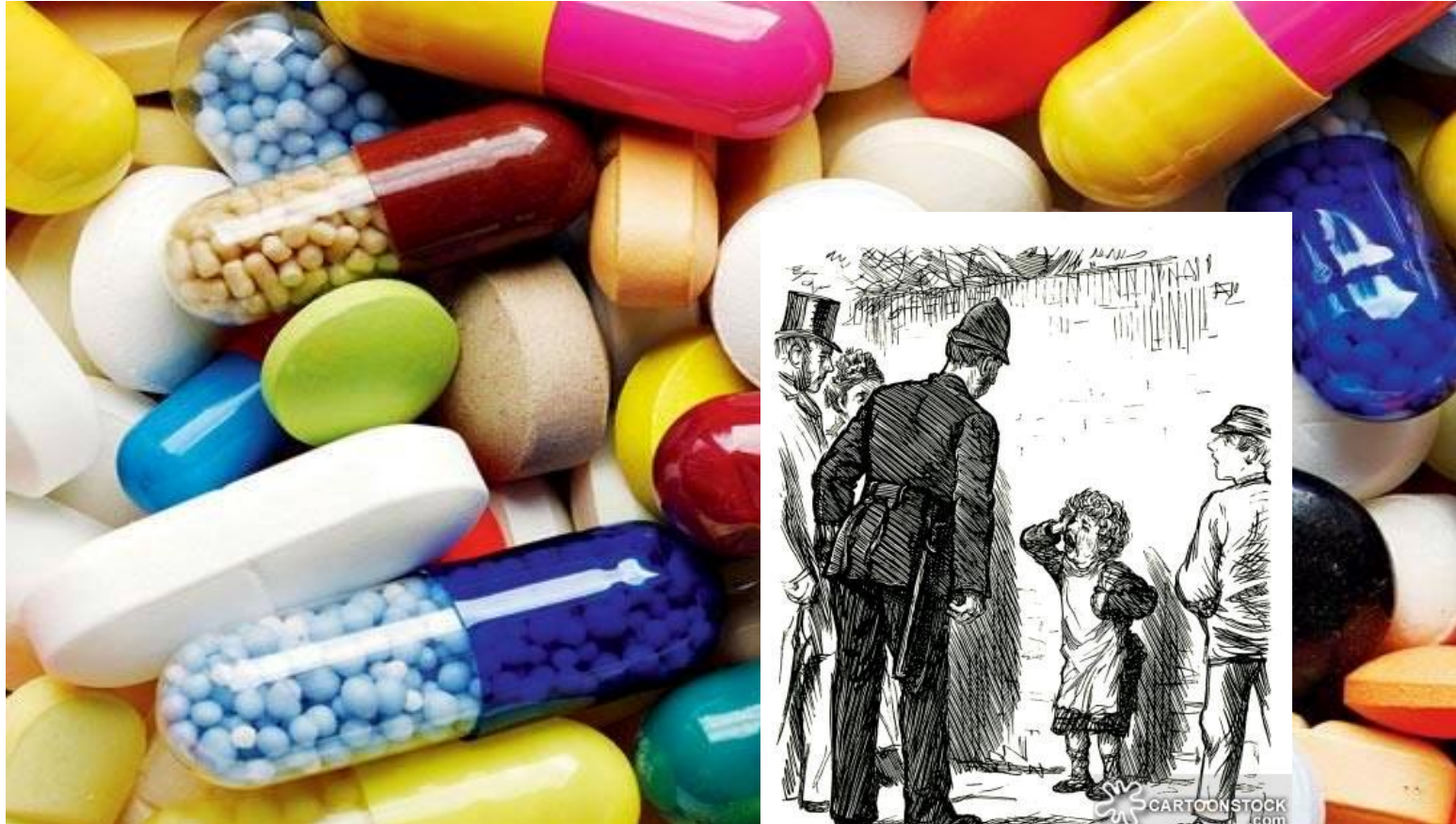
Since the early 2000s, a big investment in the fight against TB, especially through the Global Fund, has led to significant improvements in treatment. But the annual rate of reduction is still not enough to hit our target. We are optimistic that new tools, including a vaccine, will be available in the next decade.



Target: End the epidemics of AIDS, tuberculosis, malaria, and neglected tropical diseases. Target shown on chart has been extrapolated from Stop TB Partnership target of <20 cases per 100,000 in 2030.







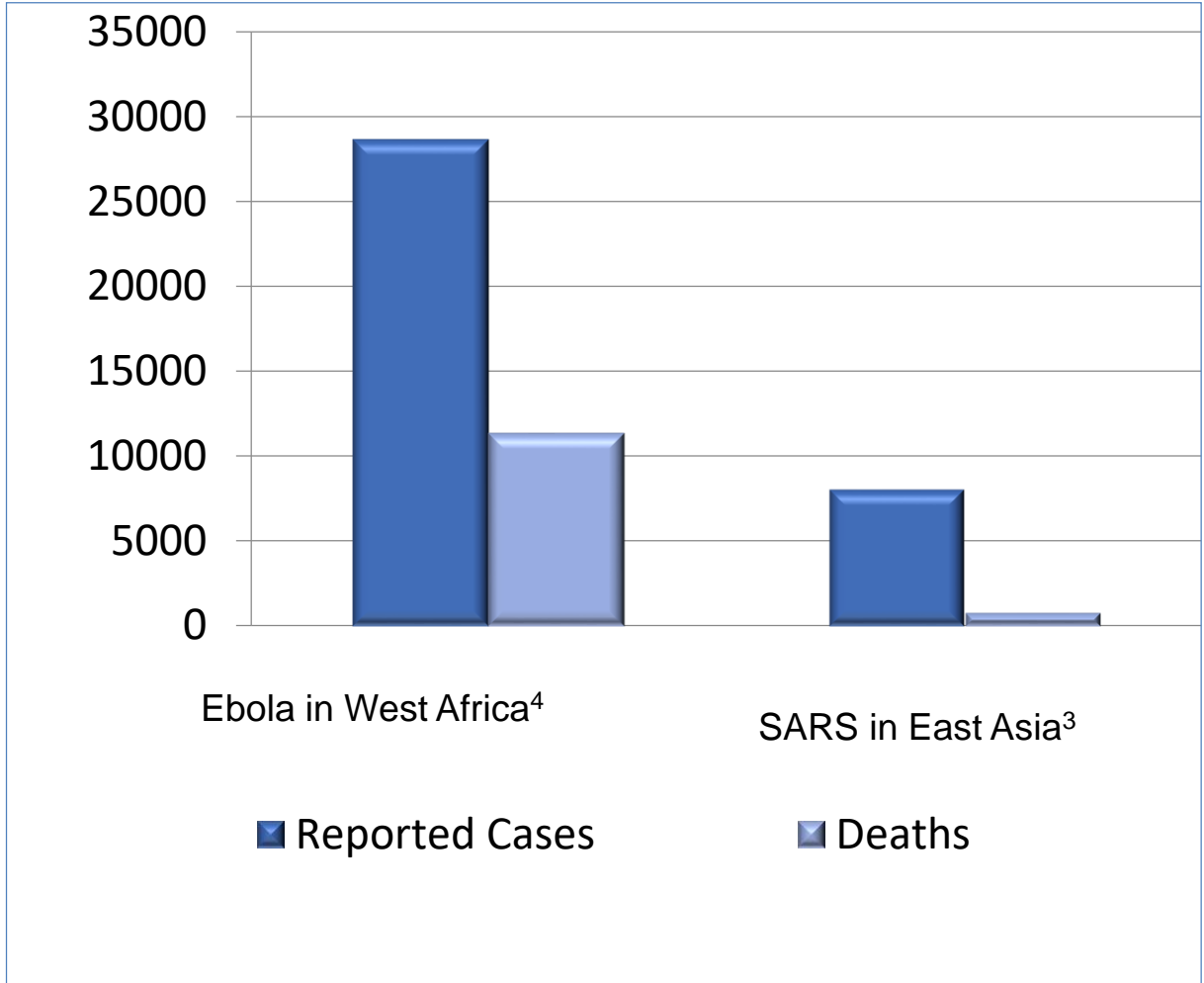
UNENCUMBERED.

Policeman. "WHERE D'YER LIVE?" Lost Child. "I DON'T KNOW."
Policeman. "WHO'S YER FATHER AND MOTHER?"
Lost Child. "AIN'T GOT NONE."
Policeman (perplexed). "ARE YER MARRIED?" Lost Child. "NO."
Policeman (relieved). "AM, SHURE, THIN YERE ALL RIGHT! AWAY YOU GO!"
[Crowd disperses.]

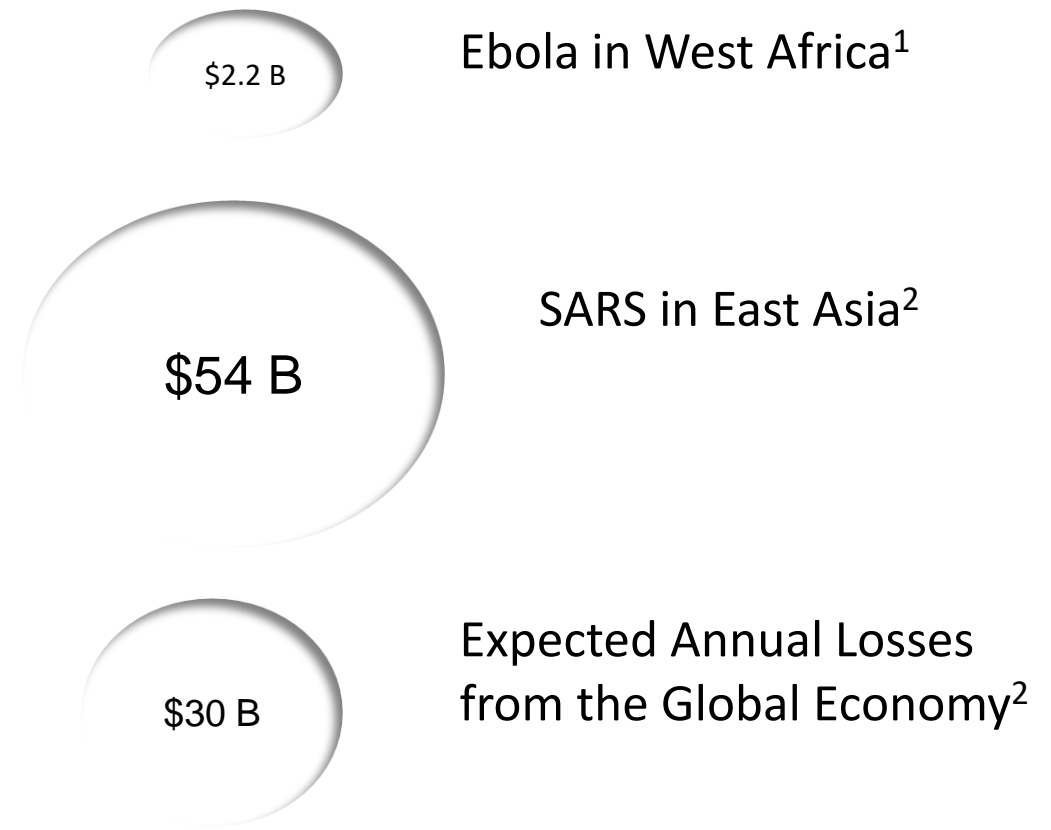
CARTOONSTOCK.com



Human Impact of Global Outbreaks

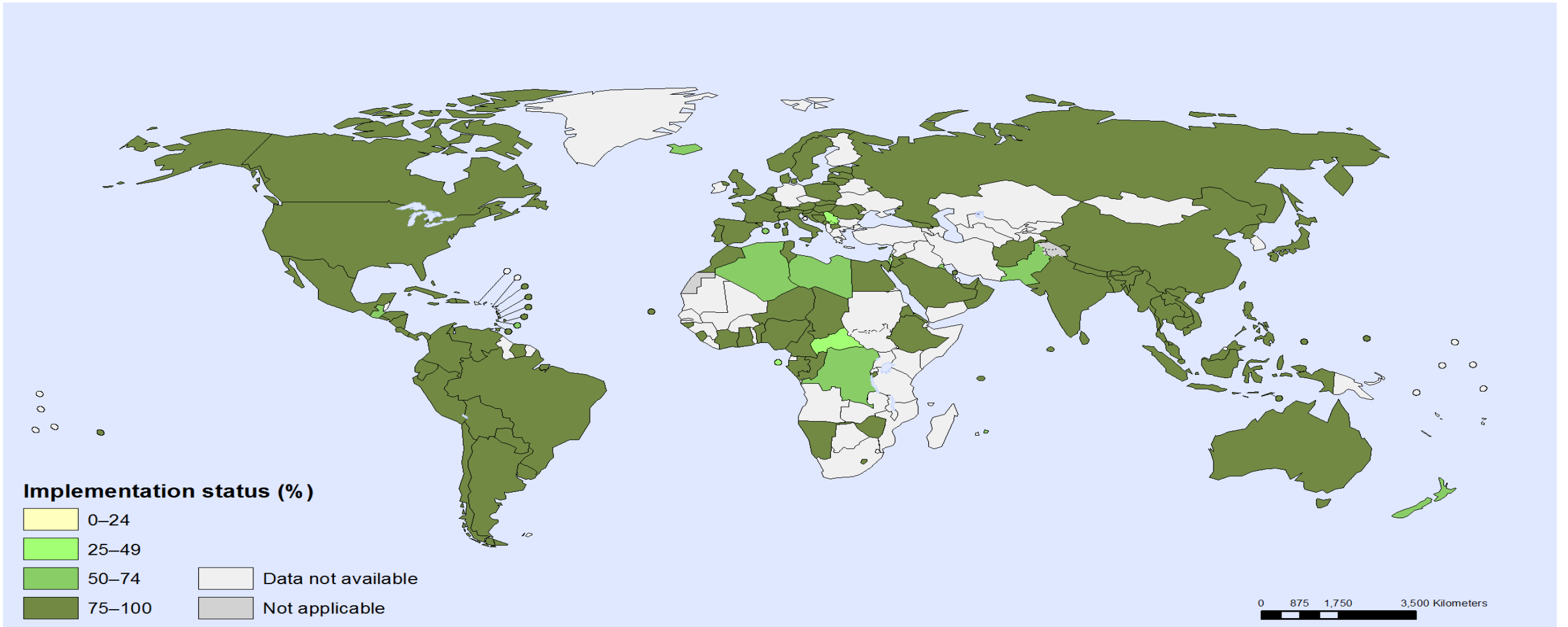


Economic Impact of Global Outbreaks





International Health Regulations (IHR) monitoring framework Implementation status – IHR surveillance core capacity, 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 and dashed lines on maps represent approximate border lines for which there may not yet be full agreement.

Data Source: World Health Organization
Map Production: Information Evidence and Research (IER)
World Health Organization



© WHO 2017. All rights reserved.

Some of the Gaps in regulatory preparedness:

- **Lack of coordinated emergency regulatory processes**
 - Link regulatory processes with overall national preparedness planning for public health emergencies
- **Weakness of drug regulatory systems and lack of capacity**
 - Strengthen regulatory collaboration and capacity
- **Limited capacity and experience in stakeholder communication**
 - Need for guidance in communicating with the media and public
- **Poor engagement of product developers with affected regulators**
- **Weakness in regulation of supply chains**
 - Need to minimize entry of substandard and falsified products in supply chains

[HOME](#)

[ABOUT THE MCC](#)

[PUBLICATIONS](#)

[NEWS & EVENTS](#)

[CONTACT THE MCC](#)



Quality Management Systems

The MCC operates through external experts who are members of Council Committee structures





Drug regulation ensures that

- Medicines are of the required quality, safety and efficacy before and after registration (pharmacovigilance)
- R&D is of high quality and designed to accelerate new drug development, improved formulations or regimens
- Patients and communities have the necessary information for rational use of medicines
- Medicines are appropriately manufactured, stored, distributed, dispensed
- Illegal manufacturing and trade are detected and adequately sanctioned
- Promotion and advertising is fair, balanced, aimed at rational drug use
- Access to medicines not hindered by unjustified regulatory work



The role of the regulator in medicine access

- Adequate R&D
- Diagnosis
- Reliable information
- Quality of product
- Availability
- Affordability
- Accessibility
- Pharmacovigilance



Medicines Control Council (MCC)



The Medicines and Related Substances Act, 1965

- Enacted 1965
- Provides for certain powers:
 - Minister of Health
 - Director General: Health
 - Medicines Control Council (MCC)
- MCC mandate:
 - Registration of medicines : Safety, quality and efficacy
 - Licensing of Manufacturers, Wholesalers, Importers
 - Authorization conduct of clinical trials





History of MCC



Historical

- 1998: Review of medicine regulatory system – Prof Graham Dukes
- 1998: Operational and Financial review - KPMG
- 1998: Transitional Task Team – Prof Helen Rees
- 1999: SAMDRA Act and its repeal
- 2002: Medical Technical Task Team – Ms Precious Matsoso (WHO)
- 2006: Parliament directed review – Prof Green-Thomson
- 2008: Act 72 of 2008
- 2012: Business case: Nicholas Crisp
- 2014: Transitional Task Team – Prof Helen Rees
- 2015: Act 14 of 2015

Reviews support the transition to a new business model to allow for:

- Service delivery**
- Communication**
- Operational processes**





South African Health Products Regulatory Authority



The Medicines and Related Substances Act, 1965 Amended

- Act 72 of 2008: **Establish SAHPRA**
 - 3 A Public Entity
 - Extended the mandate to include Medical Devices
- Act 14 of 2015: Transitional arrangements : MCC to SAHPRA
 - Appointment of a Governance Board
 - Expand oversight of Medical Devices to include IVD's
 - Address transitional arrangements from MCC to SAHPRA
 - Work of the MCC
 - Staff
 - Assets and contracts





SAHPRA



SAHPRA is proposed to:

- have **full-time in-house capacity** to support product review & approval and oversee all regulatory functions
- establish **cooperation and information** sharing with other NRAs to support implementation of best practices and timely approval of products

SAHPRA will be responsible for:

- monitoring, evaluation, regulation, investigation, inspection, registration and control of medicines, clinical trials and medical devices and related matters in the public interest.





SAHPRA



- Act 72/2008 enacted: 1 June 2017
 - This enacted also Act 14 of 2015
- General Regulations prepared on SAHPRA Act
 - Regulations for publication: 11 August 2017
- Minister: calls for nominations for the Board to be appointed
 - Advertisement for Board members – deadline 30 June 2017
 - Board consists of 10-15 members
 - Skills of the Board identified in the Act
 - One person each: Law, governance, finance, HR, IT
 - 10 members: medicine, medical devices & IVDs, vigilance, GMP, clinical trials, public health or epidemiology
 - Nominations received: under consideration



Status of SAHPRA

- Minister: calls for 1st meeting of the Board
 - Orientation of the Board
 - MCC will cease to exist with 1st Board meeting
 - Board appoint CEO
 - Board appointment committees to assist with work of the Board
 - CEO appoint committees to assist with work of Authority
 - Authority works through the Board
- DOH staff to transfer to SAHPRA
 - Section 197 transfer
 - Staff component: 207



Status of SAHPRA



Business case developed for SAHPRA by Project Team

- Statutory and Legal
- Media
- Human Resources – Organisational Development
- Human Resources – Policies
- Job descriptions
- CEO performance agreement
- Finance
- Information Technology
- Implementation plan



SAHPRA Business model

Requirements:

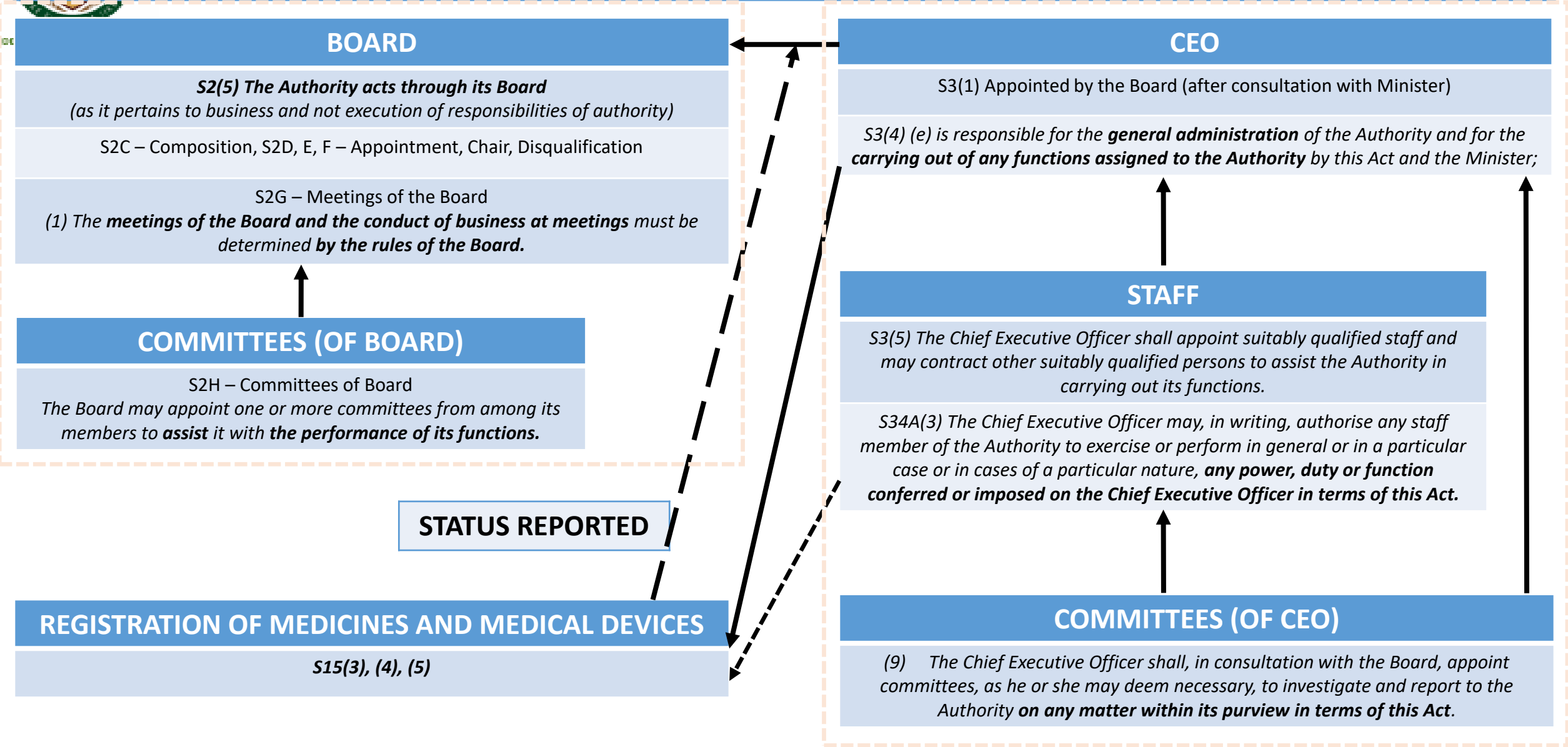
- effective, efficient and transparent systems of financial and risk management and internal control
- a system of internal audit under the control and direction of an audit committee complying with and operating in accordance with regulations and instructions prescribed in the PFMA
- an appropriate procurement and provisioning system which is fair, equitable, transparent, competitive and cost-effective



SAHPRA



S2(1) The South African Health Products Regulatory Authority is hereby established as an organ of state within the public administration but outside the public service.





SAHPRA versus MCC



- Business model based on business principles
- Staff employment: reporting lines – SAHPRA
- Performance driven (In-house and External staff)
- Registration and Authorizations issued by Authority
- Transparency
- Retain revenue
- MoU with other Regulators
 - Allow for acceptance of international evaluation reports



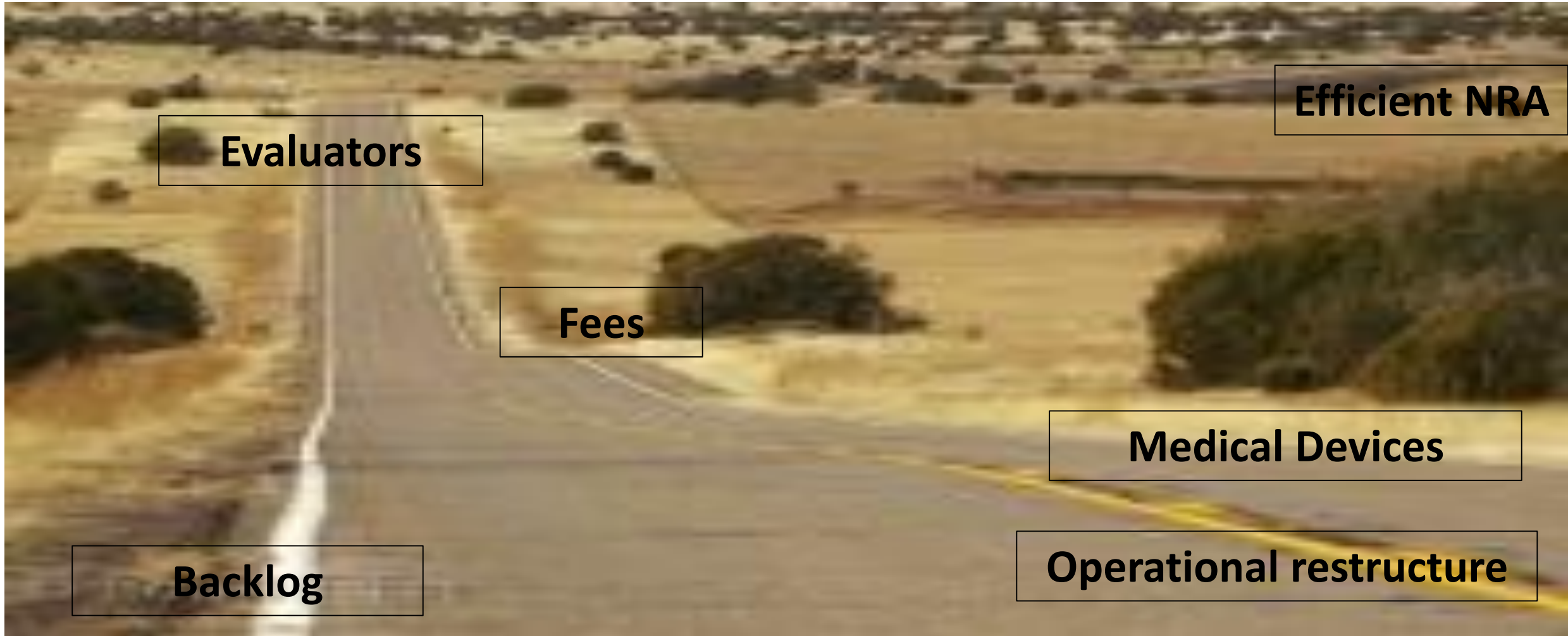
SAHPRA vs. Existing Model

The fundamental differences



SAHPRA	Existing Model
Medicines, Devices (incl. IVD's and Radiation Control), CAMS	Medicines, (Radiation Control part of NDOH)
System driven	Paper driven
Service delivery with defined timelines	Service delivery with backlogs
Fully resourced	Under resourced
Increased employed and contracted evaluators (80/20)	Limited employed evaluators (20/80)
Public entity – Fully accountable	Part of the Department of Health
Transparent industry relations	Stretched industry relations
Increased and retained fee income	No fee retention
Agency format	Traditional government format
Proactive performance measurement (managed service levels)	Reactive
Accrual based accounting	Cash based accounting

Closure





**Thank you !
And thanks to Joey
Gouws
www.mccza.com**

Assessment pathways for medicines, vaccines & diagnostics:

Prequalification



Full/Traditional approval



EUROPEAN MEDICINES AGENCY
SCIENCE MEDICINES



U.S. FOOD & DRUG
ADMINISTRATION



SWISSmedic
Schweizerisches
Heilmittelinstitut



Health
Canada



“Accelerated” approval



EUROPEAN MEDICINES AGENCY
SCIENCE MEDICINES HEALTH



U.S. FOOD & DRUG
ADMINISTRATION

Other SRAs

**Article 58
Scientific Opinion**



EUROPEAN MEDICINES AGENCY
SCIENCE MEDICINES HEALTH

Conditional Marketing Approval



EUROPEAN MEDICINES AGENCY
SCIENCE MEDICINES HEALTH

“Animal Rule” Approval



U.S. FOOD & DRUG
ADMINISTRATION

**Approval under Exceptional
Circumstances**



EUROPEAN MEDICINES AGENCY
SCIENCE MEDICINES HEALTH

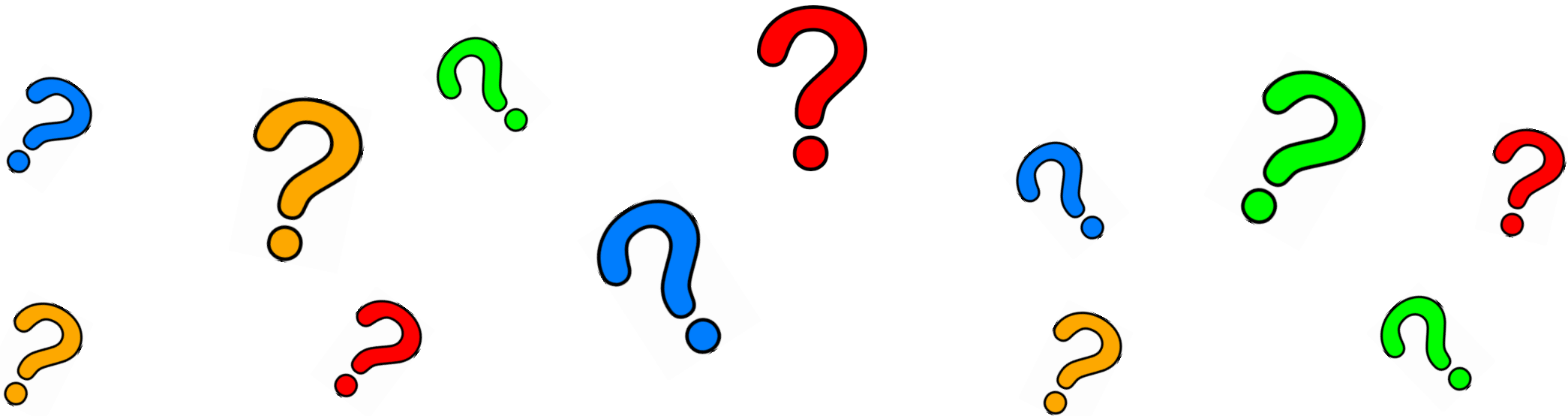
**Emergency Use and
Assessment Listing
(EUAL)**



World Health
Organization

Pathways in LMICs (likely to be first hit by epidemic)?

**Most authorities have “full” or “abbreviated” (based on reliance),
but not conditional, emergency, exceptional use,
compassionate use options..**



What do we understand by regulatory tools and pathways?

- **Regulatory tools** are policies, plans, projects or programs “in pursuit of specific societal outcomes that are not achievable through normal market-based or incentive mechanisms”.
 - Definition from: neat.ecosystemsknowledge.net/regulatory-tools.html
 - e.g. **Guidelines, Reference Standards, Policies, Procedures....**
- **Regulatory pathways** are options to facilitate the submission and assessment of regulatory information
- Identification of tools and pathways aims to decrease and manage uncertainties

•



Tools for regulatory preparedness



- **Regulatory tools in emergency preparedness should help to:**

- ✓ Provide “increased capacity to recognize the promise in treatments that might otherwise be discarded”;
- ✓ Detect “unsafe or ineffective therapies more quickly”; and
- ✓ Generate “studies that will inform a wide range of innovation, not just individual products”.



Under-five mortality rate (per 1000 live births), 2015

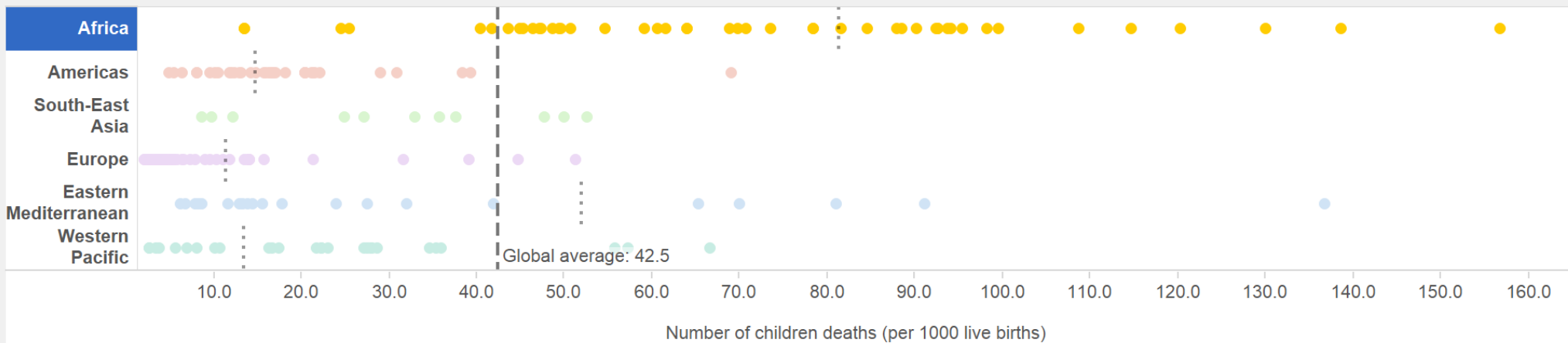
In Sub-Saharan Africa, 1 child in 12 dies before his or her fifth birthday



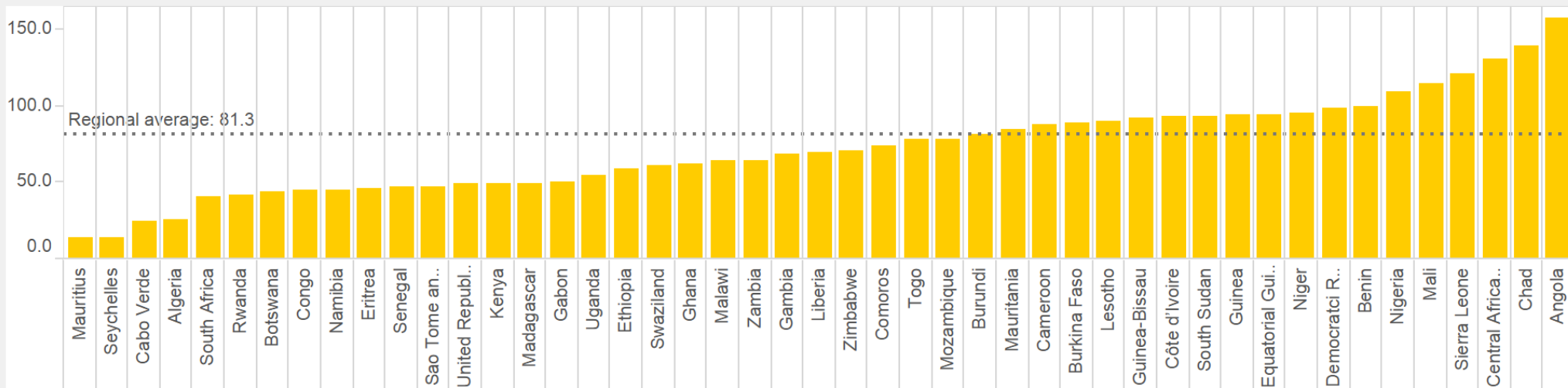
DEPARTMENT OF HEALTH
Republic of South Africa

Each circle/bar represents a country. The dotted grey line indicates the regional average, and the dashed grey line indicates the global average. Click on a region name to display the distribution by country (within that region) as a bar graph.

Under-five mortality rate (per 1000 live births) by WHO region, 2015



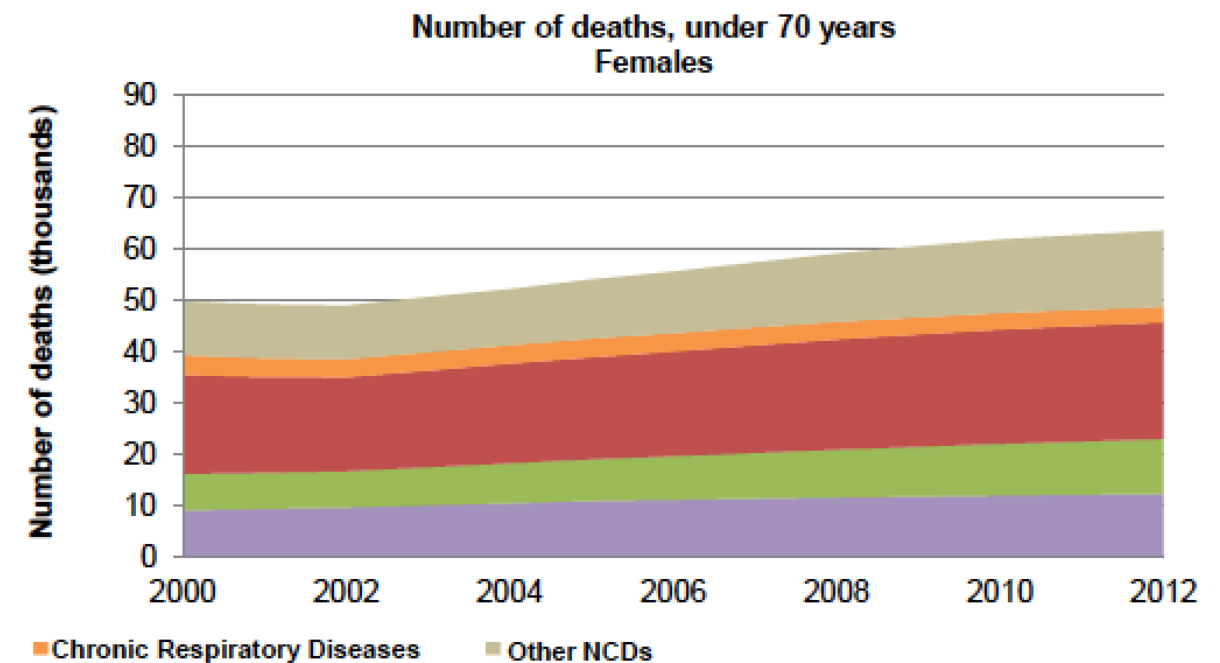
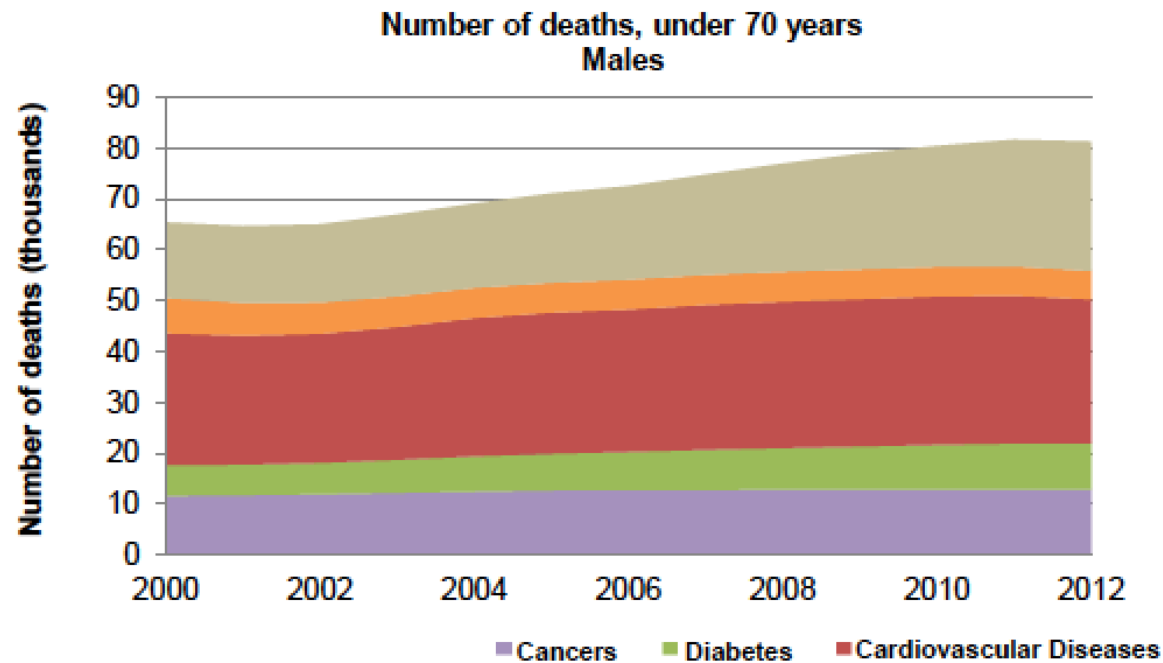
Distribution by country (in selected WHO region) mouse-over the y-axis to sort





Premature mortality due to NCDs*

The probability of dying between ages 30 and 70 years from the 4 main NCDs is **27%**.



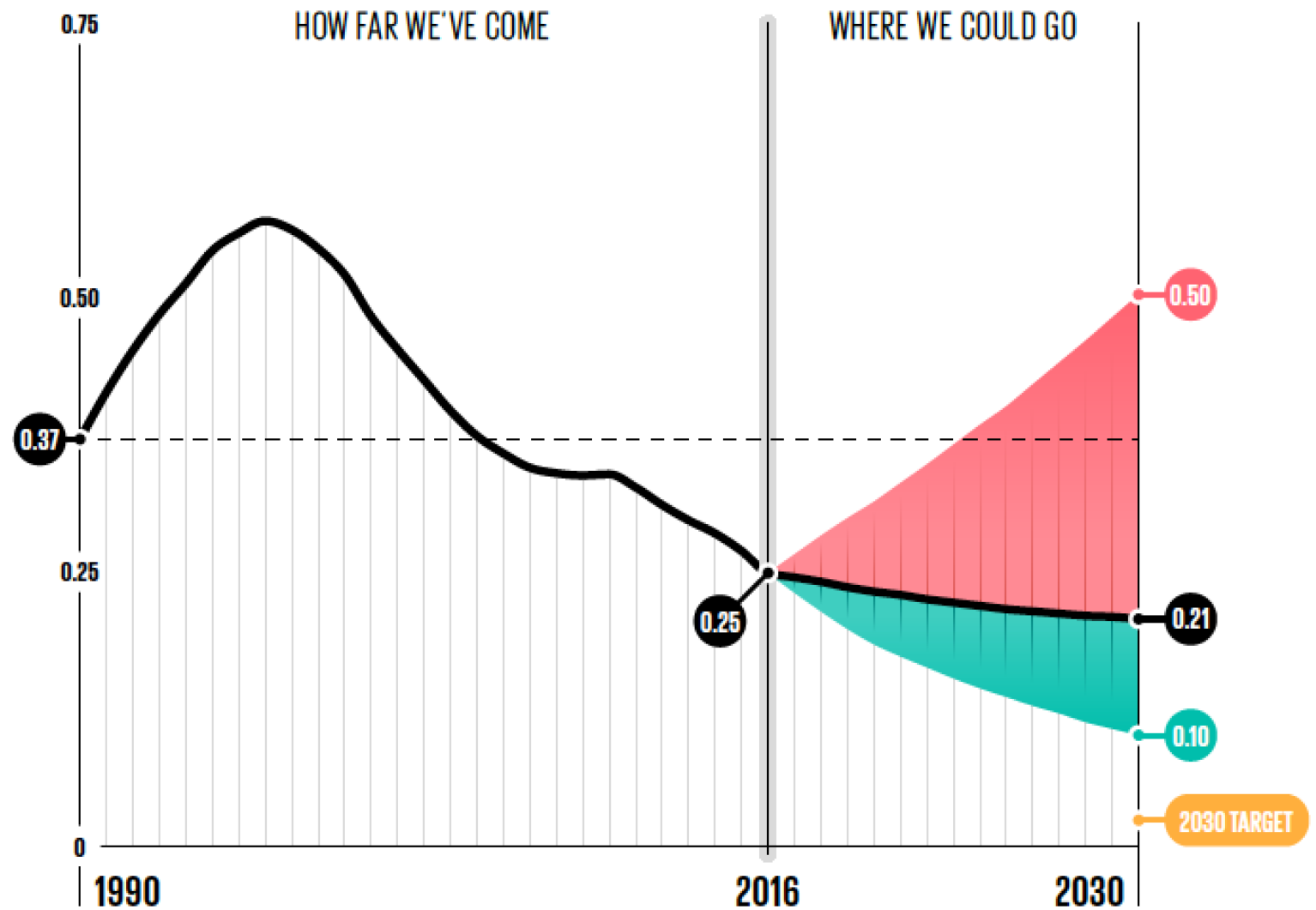
Adult risk factors

	males	females	total
Current tobacco smoking (2011)	28%	8%	18%
Total alcohol per capita consumption, in litres of pure alcohol (2010)	18.4	4.2	11.0
Raised blood pressure (2008)	35.2%	32.4%	33.7%
Obesity (2008)	21.0%	41.0%	31.3%

HIV

New cases of HIV per 1,000 people

In the early 2000s, the Global Fund, PEPFAR, and domestic spending in endemic countries helped bring new HIV infections way down. As the sense of crisis dissipated, however, the rate of decline slowed. Eventually, new prevention methods will help speed up the decline, but for now, we have to bend this curve using currently available methods. That means continuously searching for new ways to deliver solutions and sharing best practices widely.



Target: End the epidemics of AIDS, tuberculosis, malaria, and neglected tropical diseases. Target shown on chart has been extrapolated from UNAIDS target of 200,000 new infections among adults in 2030.