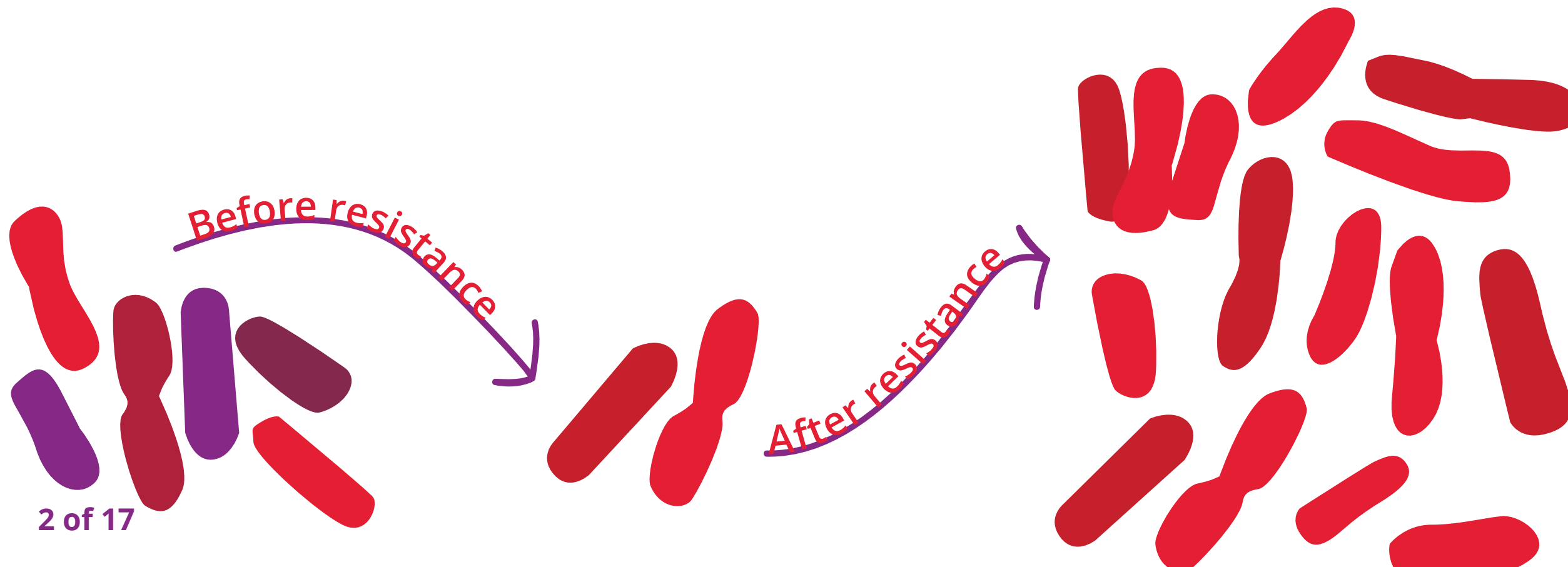


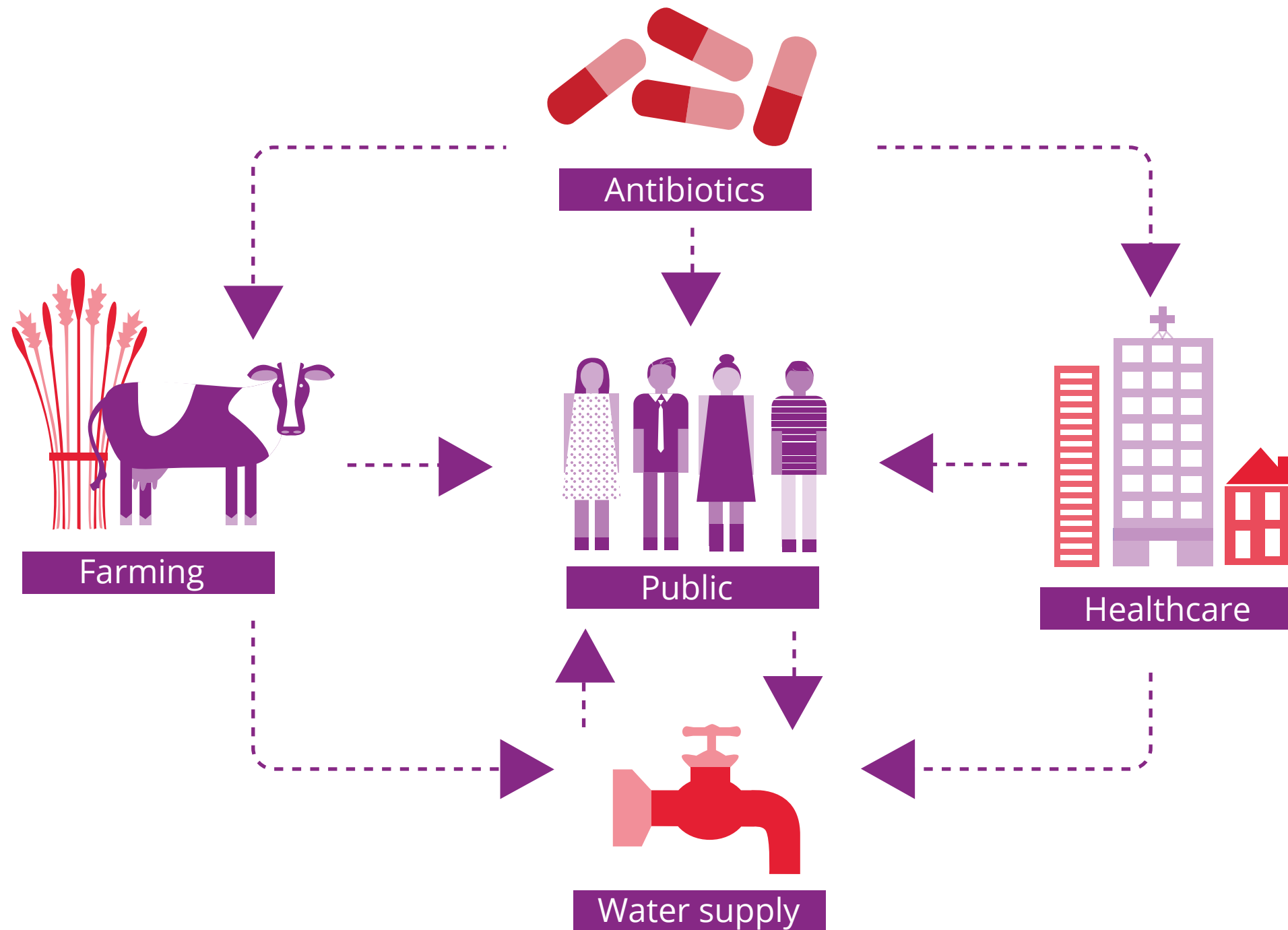
SUPERBUGS &

THE ROLE OF DIAGNOSTICS EXPLAINED

Superbugs are microorganisms resistant to drugs that were previously effective.



WHAT'S MAKING THE PROBLEM WORSE?



MOST COMMON DEADLY RESISTANT DISEASES

HIV

34 million people are living with HIV infection, out of which 8 million are receiving antiretroviral therapy (2011)

Data suggests association between high levels of antiretroviral therapy and increased levels of HIV resistance.

TB

Tuberculosis kills more people globally than any other infection.

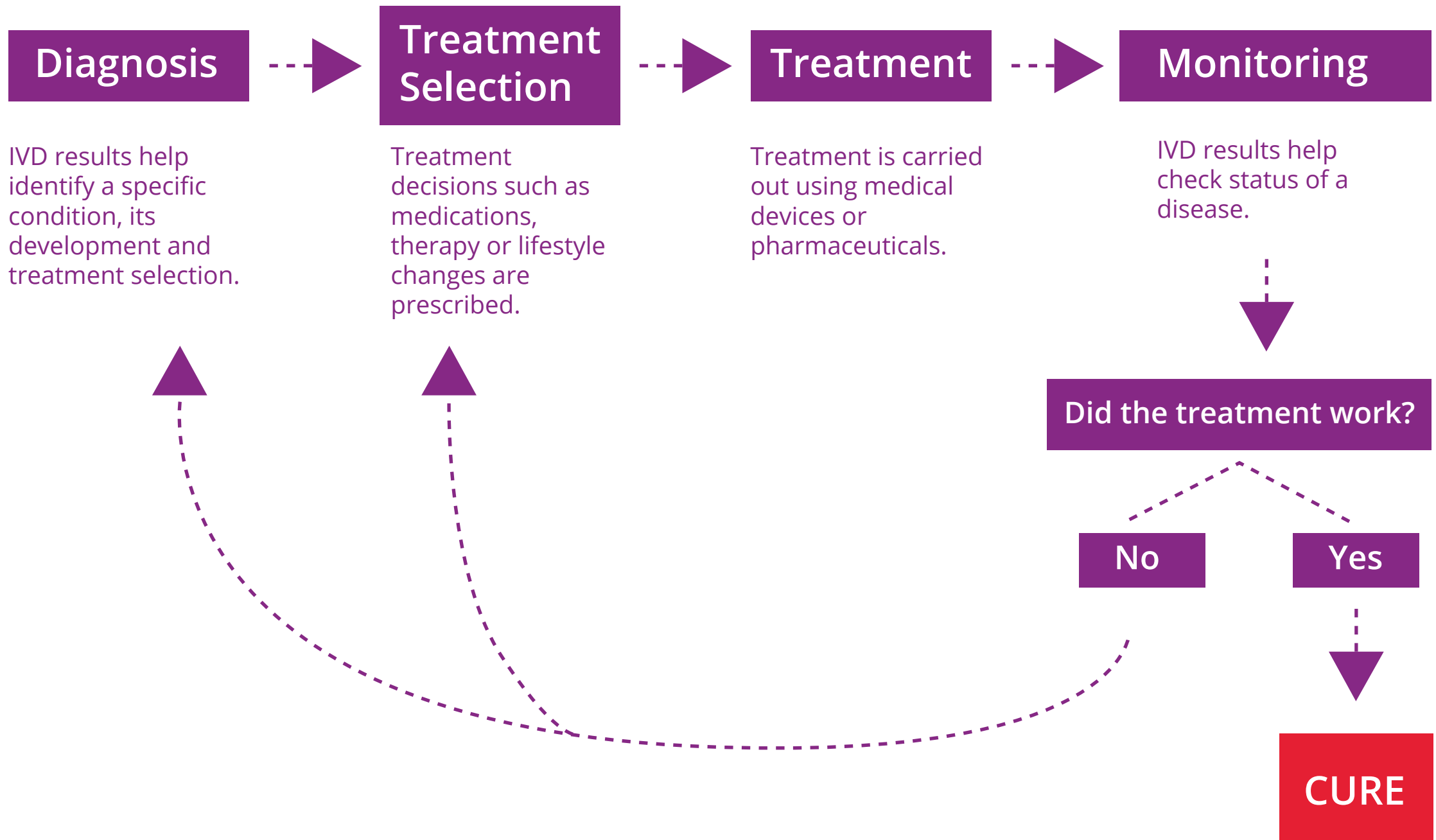
In 2012 extensively drug-resistant TB has been identified in 92 countries.

MALARIA

219 million cases of malaria occurred worldwide and 660,000 people died from the disease (2010)

Determining drug resistance for malaria is tough, yet antimalarial resistant variants have been threatening malaria control since the '70s.

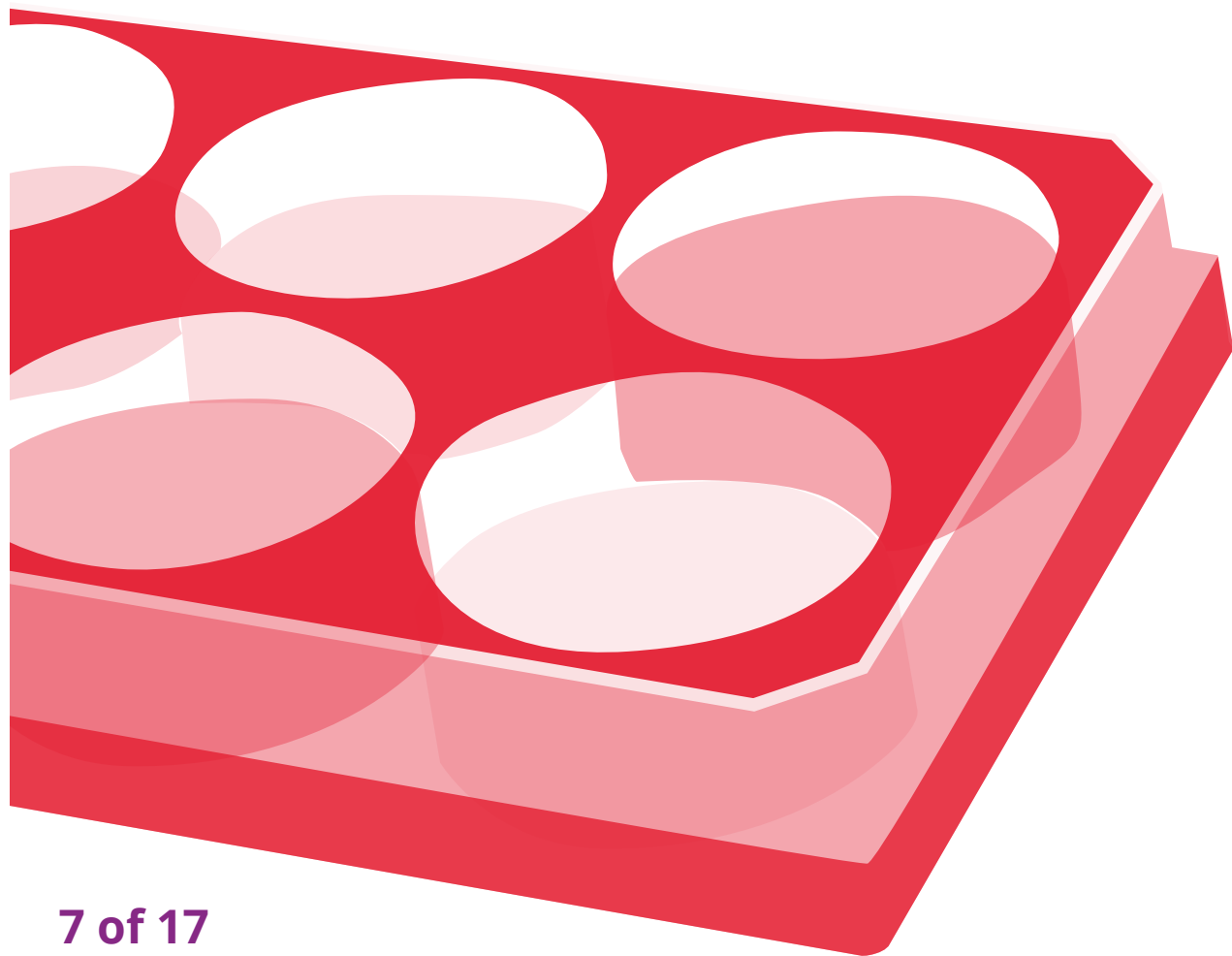
DETERMINING HEALTH WITH IN VITRO DIAGNOSTICS





**Superbugs have no respect
for national borders.**

Proper treatment starts with accurate diagnosis.



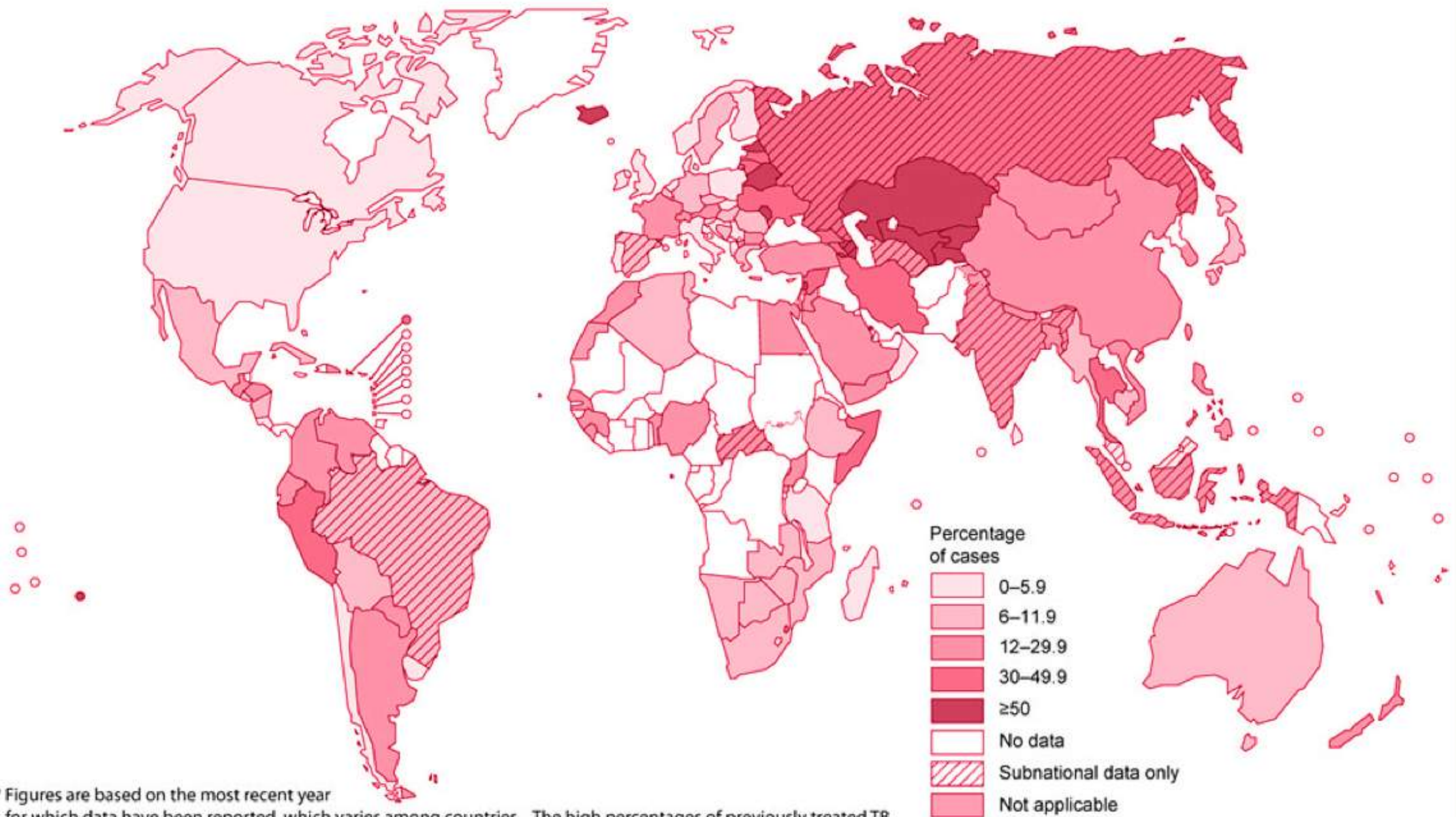
“Without urgent, coordinated action by many stakeholders, the world is headed for a post-antibiotic era, in which common infections and minor injuries which have been treatable for decades can once again kill,”

“This is a somewhat grim picture, but I also want to point out that it’s not a hopeless picture.. if countries and other stakeholders see this report and respond to this report as a call of action.”

-- Dr Keiji Fukuda,
WHO’s Assistant Director-General
for Health Security.



Percentage of previously treated TB cases with multidrug-resistant tuberculosis*



* Figures are based on the most recent year for which data have been reported, which varies among countries. The high percentages of previously treated TB cases with MDR-TB in Bahrain, Bonaire – Saint Eustatius and Saba, Cook Islands, Iceland, Sao Tome and Principe, and Lebanon refer to only a small number of notified cases (< 10).

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.

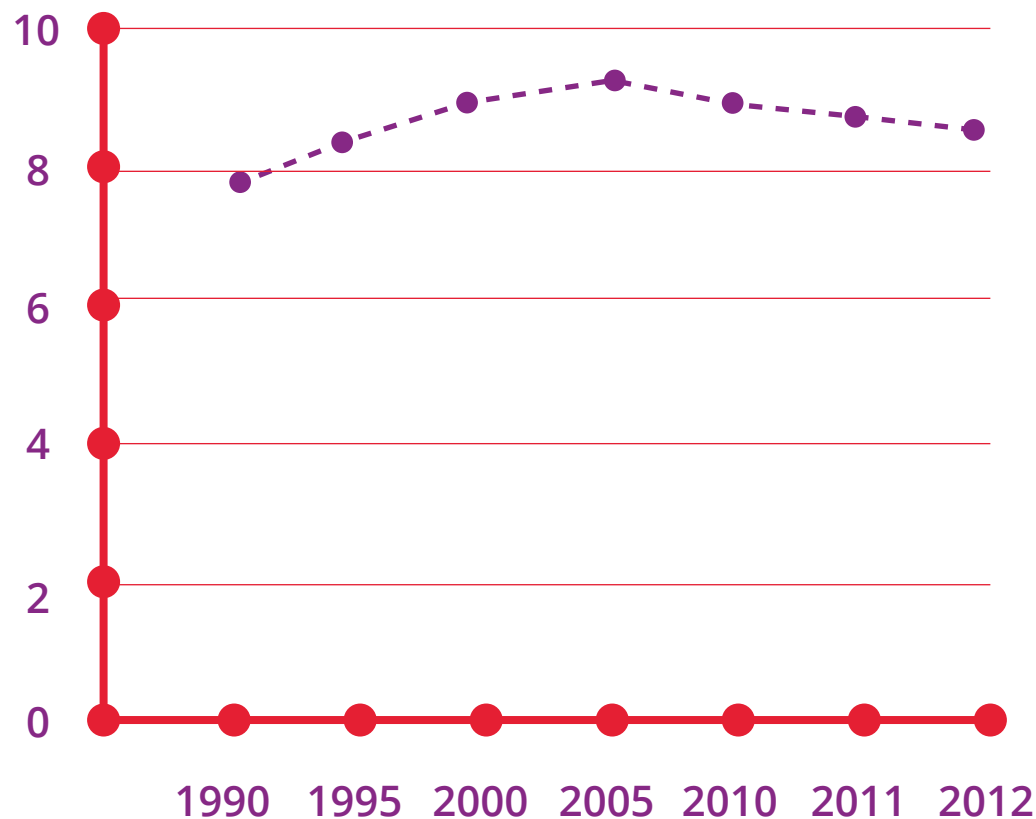
Data Source: *Global Tuberculosis Report 2013*. WHO, 2013.

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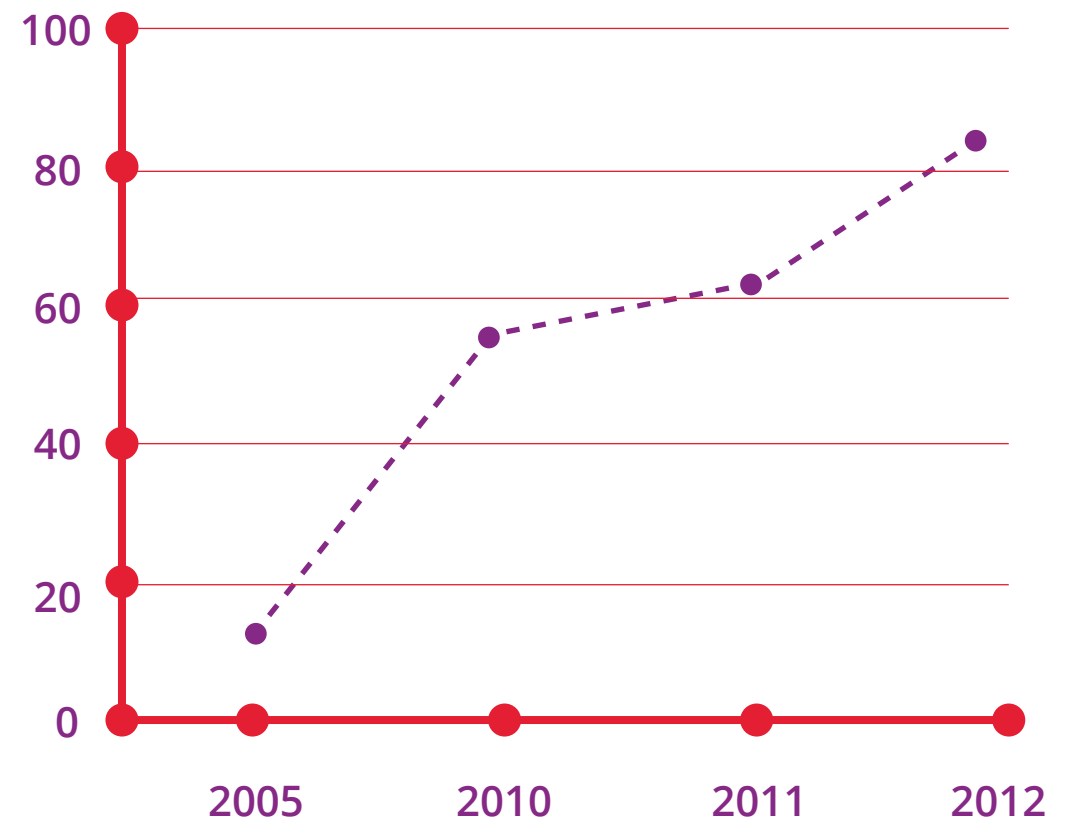


GREATEST THREATS: MDR-TB*

Total TB cases detected globally (in millions)

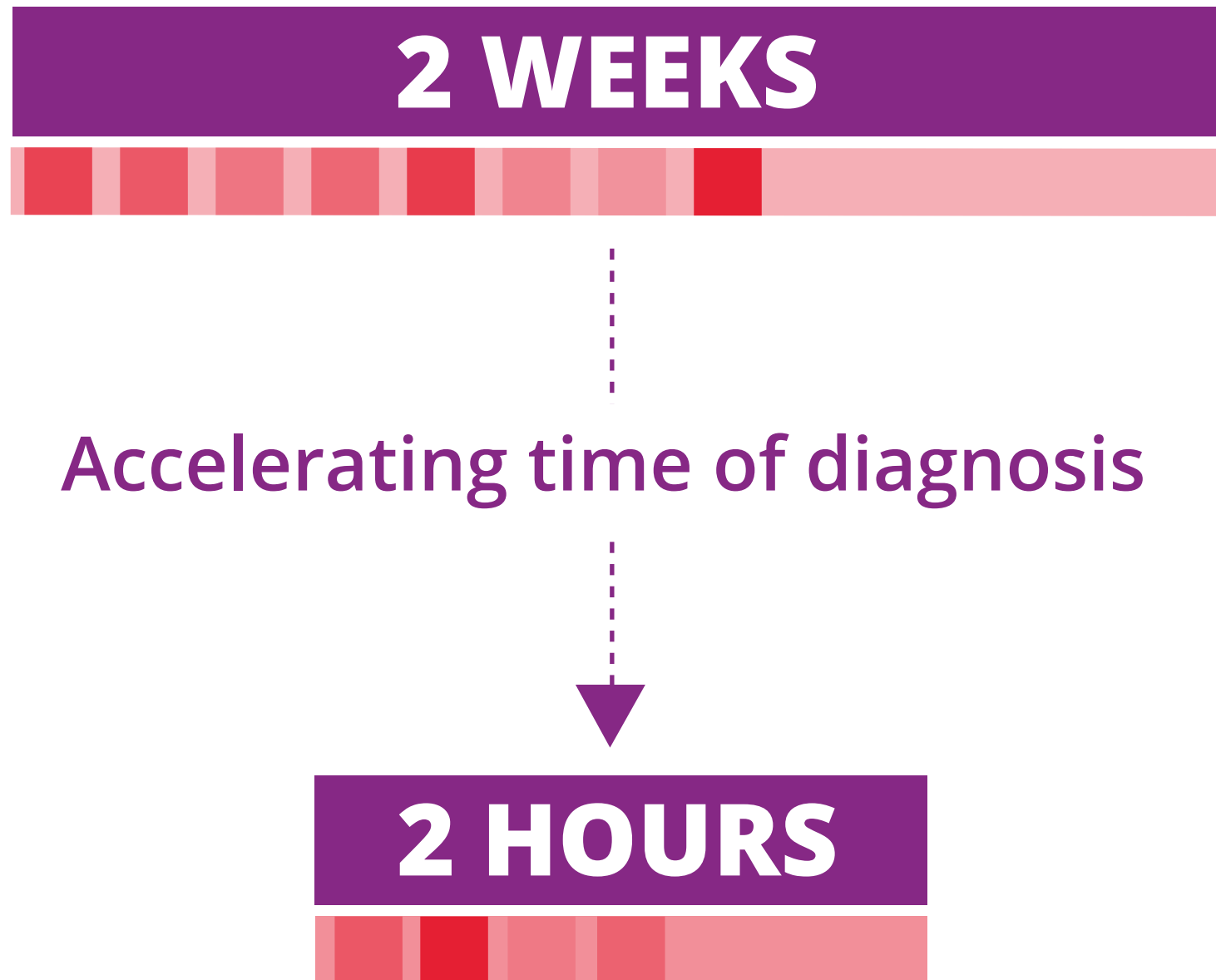


Total of MDR-TB cases confirmed globally (in thousands)

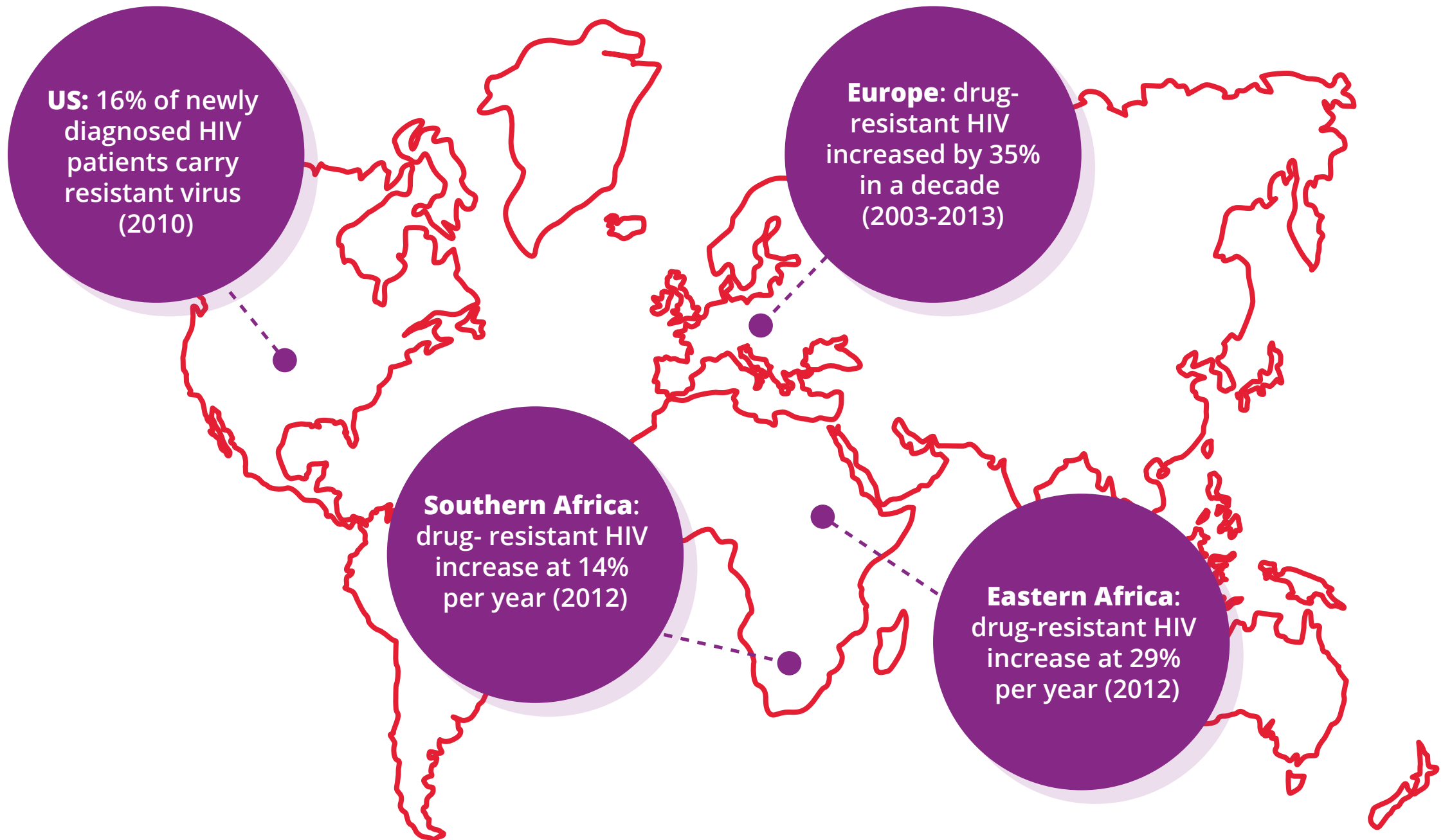


*Multi-drug resistant tuberculosis
Source: WHO Global Tuberculosis Report 2013

DIAGNOSING MDR-TB

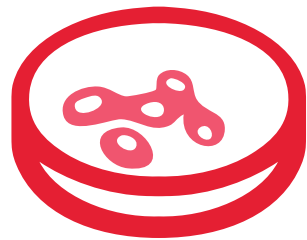


GREATEST THREATS: HIV



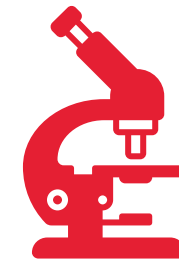
Sources: WHO HIV Drug Resistance Report 2012
European AIDS Conference 2013
CDC Analysis 2013

DIAGNOSING D-R HIV*



Genotypic testing

Do you have HIV?



Phenotypic testing

Do you have drug-resistant HIV?

WHAT ARE PUBLIC BODIES DOING?



2001

WHO publishes
Global Strategy
for Containment
of Antimicrobial
Resistance



10.09.2013

UK Ministry of Health
publishes 6 year AMR
Strategy



20.05.2014

Side-event at WHA on “The Fight
Against Antimicrobial
Resistance: Are Diagnostics
Winning?”



16.10.2007

Debate in the
European Parliament
on antibiotic resistance
urges raise of awareness



30.04.2014

WHO publishes the first
Global Report on AMR

WHAT IS THE INDUSTRY DOING?

We work together with governments and supernational organisations:

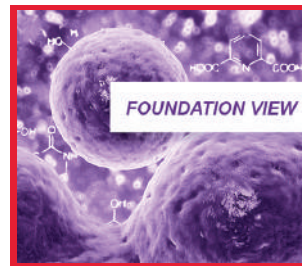
- 1.** Develop tests that are necessary
- 2.** Make tests more accessible and available
- 3.** Empower healthcare professionals with data necessary to prescribe treatment

Read more about
superbugs on
medtechviews.eu

MedTechViews.eu
is an industry
platform for
dialogue about
medical technologies
between various actors
in healthcare.

**DIALOGUE
CREATES
PROGRESS**

HERE'S HOW



**Superbugs:
Incentivising medtech
to deliver solutions**



**Superbugs:
How diagnostics
can help doctors reduce
over-prescription
of antibiotics**

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