



Zoonotic Tuberculosis

STDF Working Group

Geneva, 20 October 2016

What is tuberculosis (TB)?

- Tuberculosis (TB) is one of the **oldest diseases** of humans
- TB is caused by the **bacterium** *Mycobacterium tuberculosis* complex, which includes *M. bovis* (zoonotic TB)
- TB usually affects the **lungs**, although other organs can be involved

In 2015, 10.4 million new cases and 1.4 million deaths

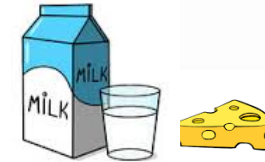
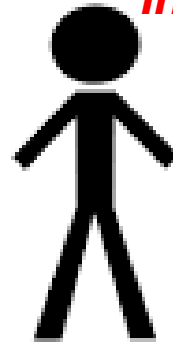


What is zoonotic TB?

Major route from cattle to people is **unpasteurised dairy products**

Wildlife reservoir important in some settings

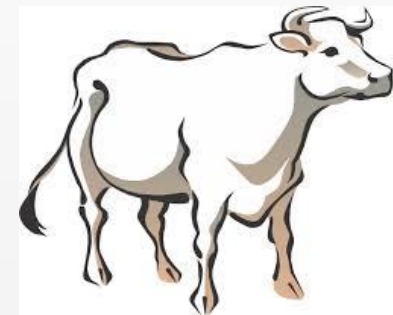
In 2015, 149,000 new cases



Unpasteurised dairy products



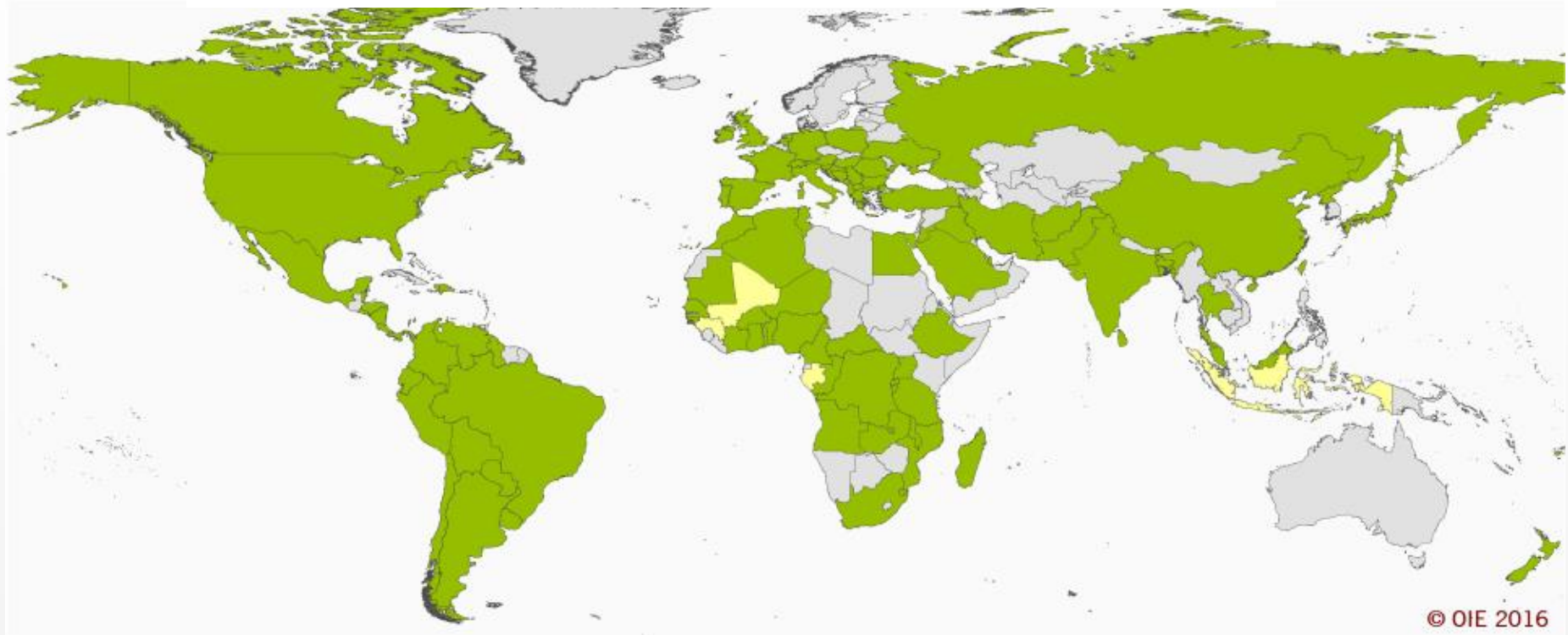
Direct contact
Contaminated pasture/water






Countries reporting TB in cattle

Data officially reported to
World Organisation for Animal Health (OIE), 2014-2015

Last update March 2016



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-  Present or suspected in domestic and/or wild animals (reported at least once/four semester)
-  Disease reported absent
-  No informations provided

Challenges of zoonotic TB

- Linked to cultural and social practices
- Affects poor, marginalised communities
- Diagnostic challenge
 - Usually extra-pulmonary (neck or gastrointestinal lymph nodes)
 - Routine TB diagnostic procedures do not differentiate bacterial species (*M. tuberculosis* versus *M. bovis*)
- Treatment challenge
 - Resistant to one of the key drugs used for standard TB treatment



- **UN Sustainable Development Goals 2016-2030** emphasise a **multidisciplinary** approach to improving health – zoonotic TB impacts on human health, livestock productivity, trade and the economy
- **WHO's END TB Strategy 2016-2035** seeks to end the global TB epidemic by 2035 and calls for diagnosis and treatment of **every TB case**



One Health approach

- Zoonotic TB in people cannot be fully addressed without controlling the disease in the animal reservoir – mainly cattle, but also wildlife in some settings
- Addressing zoonotic TB will bring added benefits to the control of other zoonotic diseases in both people and animals
- Engagement of the WHO/OIE/FAO tripartite is strengthening efforts to control zoonotic and bovine TB

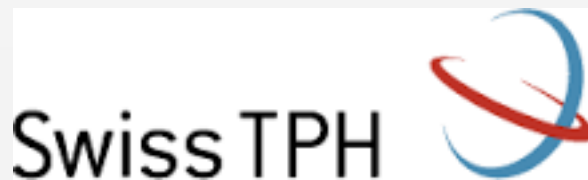


Zoonotic TB working group



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...the first and the best



Geneva, April 2016

Zoonotic TB roadmap for advocacy and action

Improve scientific evidence base



Surveillance



Diagnostic tools

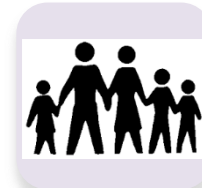


Research

Reduce transmission at animal-human interface



Disease control
in animals



Key populations



Food safety

Strengthen intersectoral approaches



Raising awareness
and engaging
stakeholders



Policies and
guidelines



Joint human/animal
health interventions



Political
commitment
and funding

Next steps

- Tripartite of WHO/OIE/FAO and The Union Against TB and Lung Diseases to lead development and finalisation of zoonotic TB roadmap
- Roadmap will be launched in first quarter of 2017 and will:
 - promote collaborative action of researchers, policymakers and donors
 - provide guidance to stakeholders for the prioritization of activities
 - serve as an advocacy tool.

