



Ending
Pandem

Expanding Epidemic Intelligence In One Health

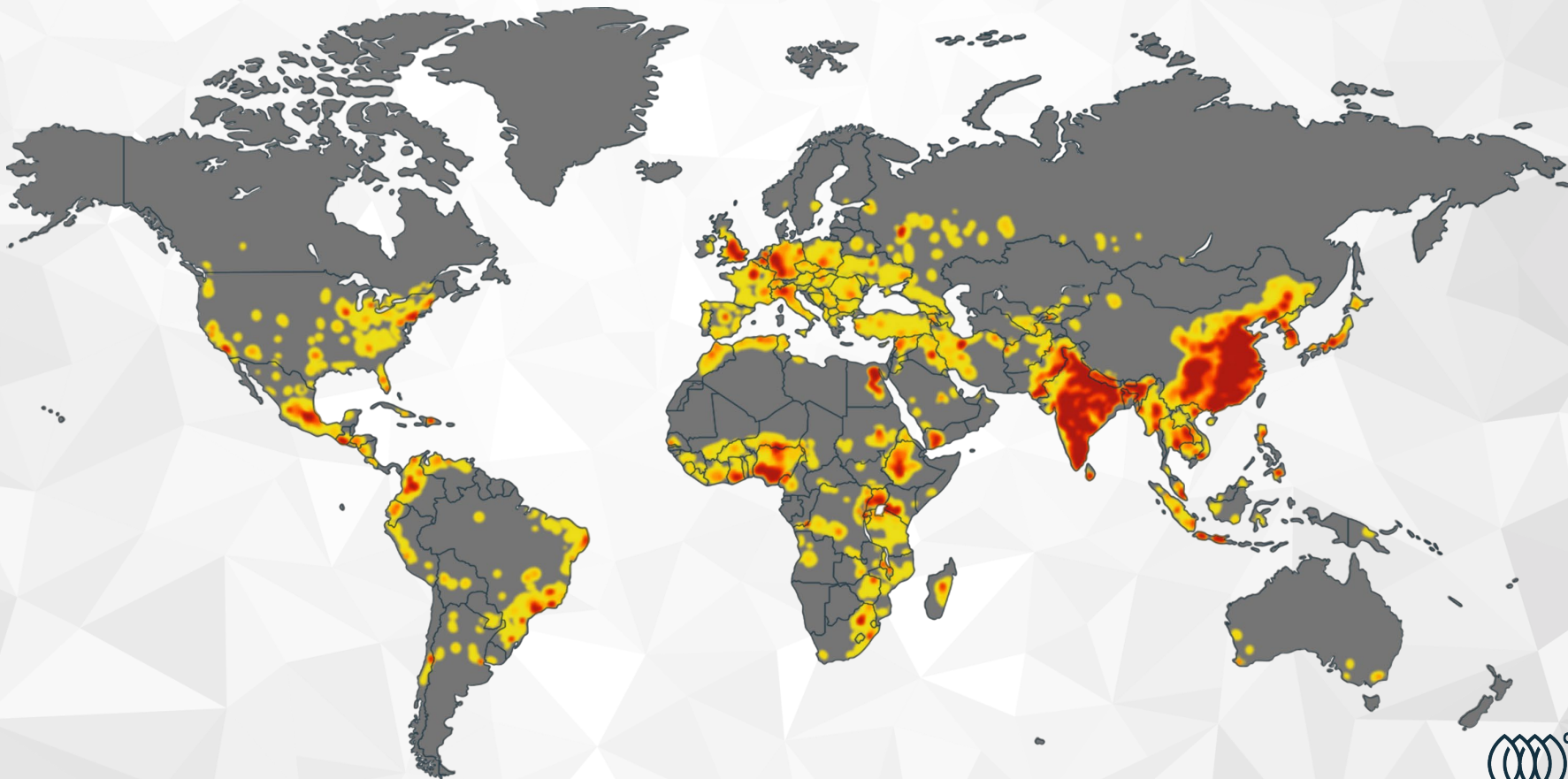
Mark S. Smolinski, MD, MPH
President

Presidential Advisory Council on
Combating Antibiotic Resistant Bacteria
Virtual Public Meeting

June 30, 2021



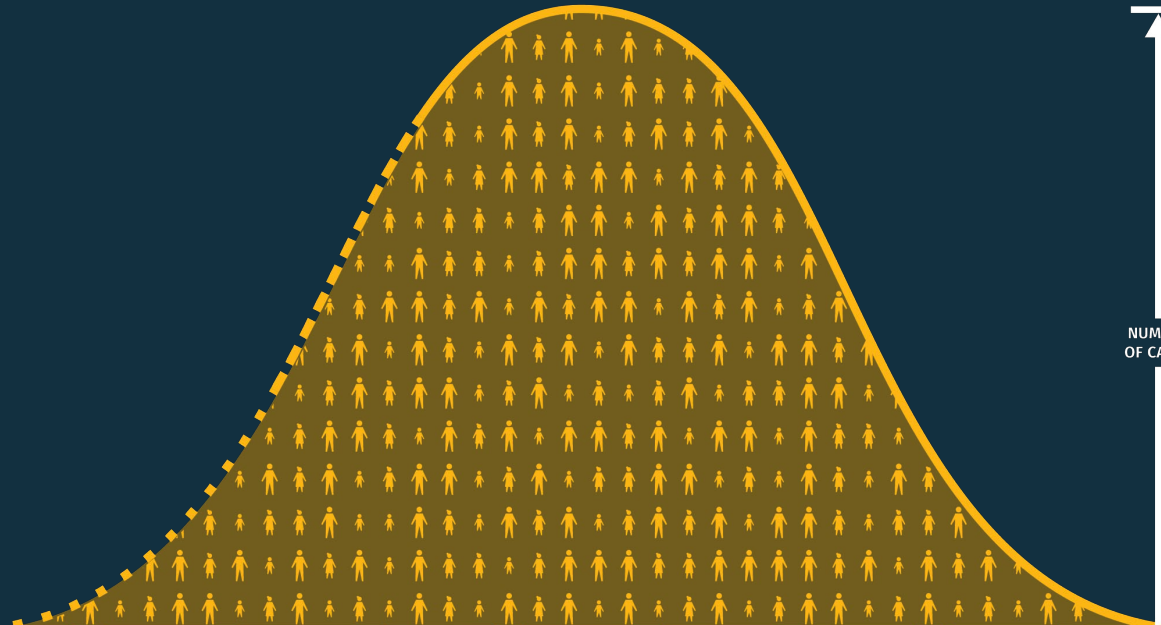
Planetary Hotspots for Disease Emergence



A One Health Approach



TIME



NUMBER
OF CASES

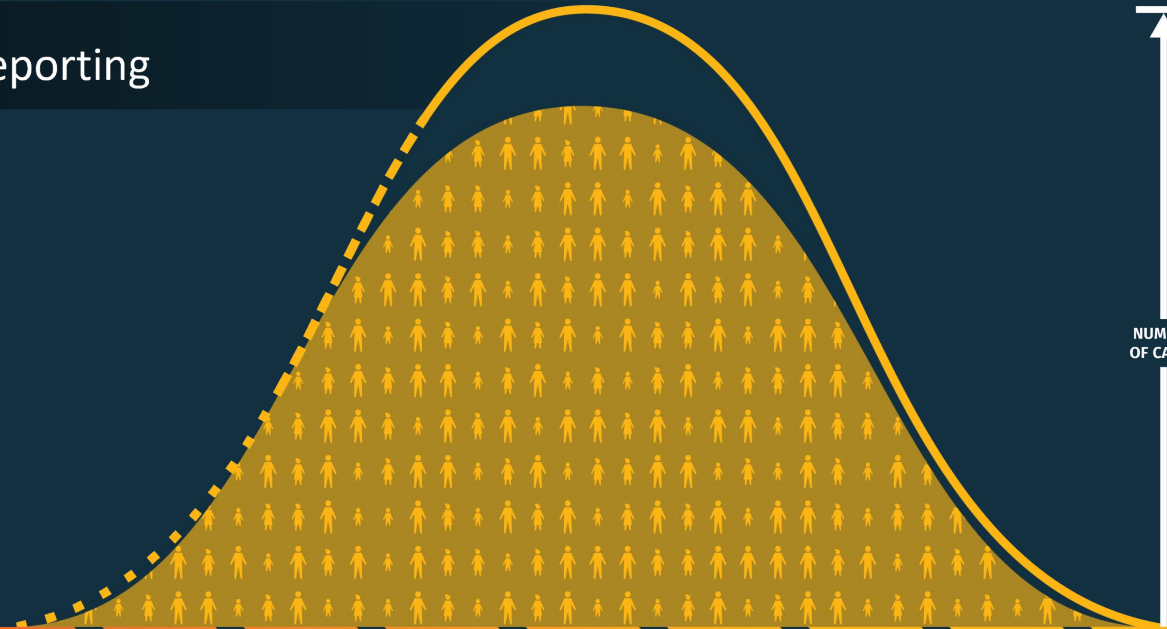
A One Health Approach

Routine disease reporting



TIME

NUMBER OF CASES



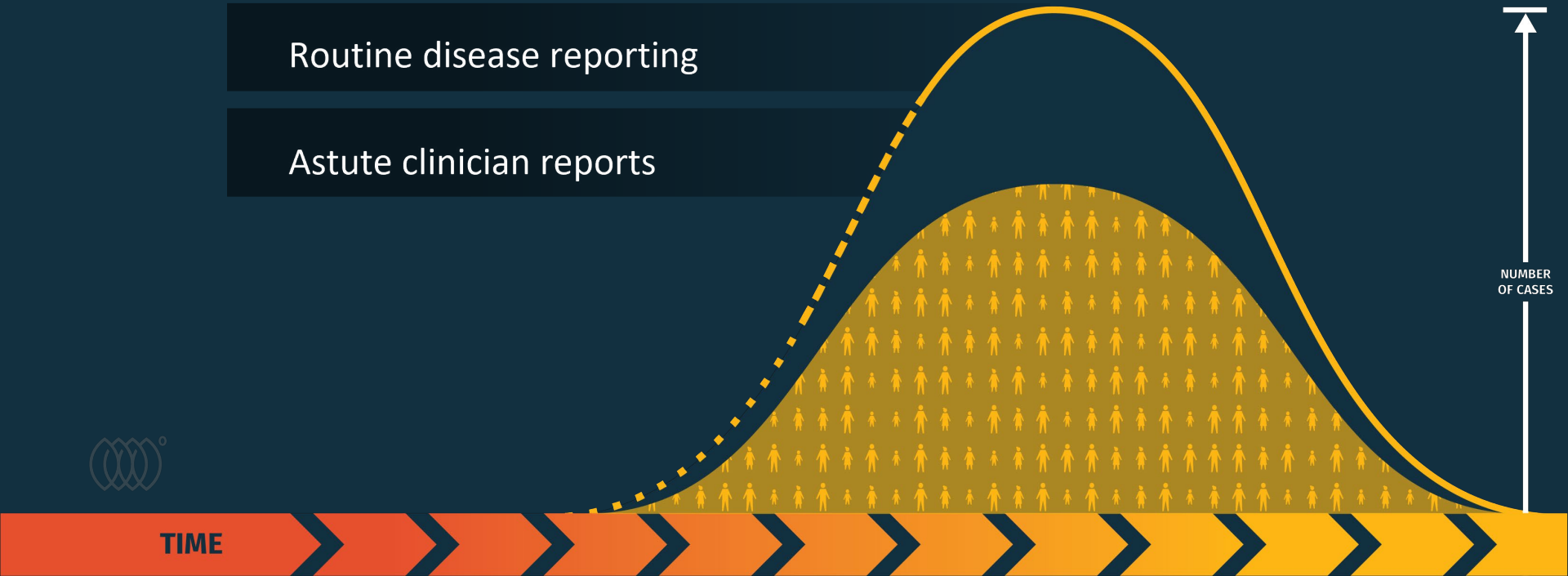
A One Health Approach

Routine disease reporting

Astute clinician reports

NUMBER OF CASES

TIME



A One Health Approach

Routine disease reporting

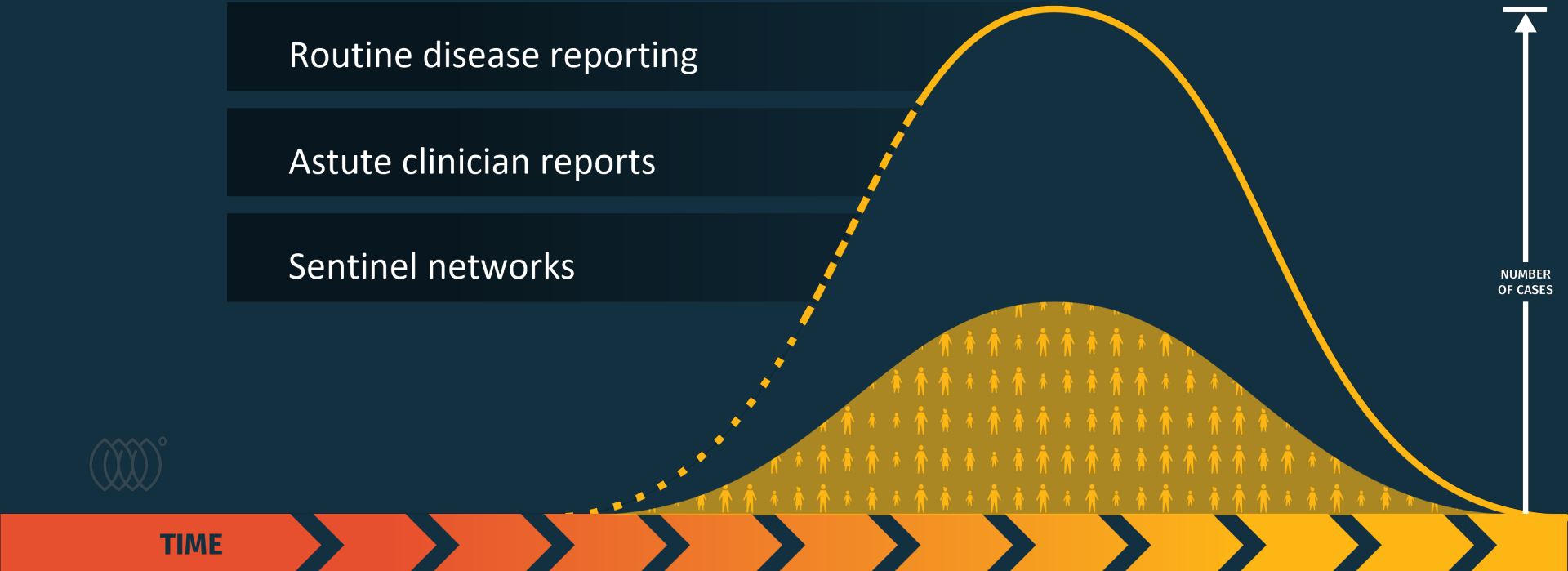
Astute clinician reports

Sentinel networks

NUMBER
OF CASES



TIME



A One Health Approach

Routine disease reporting

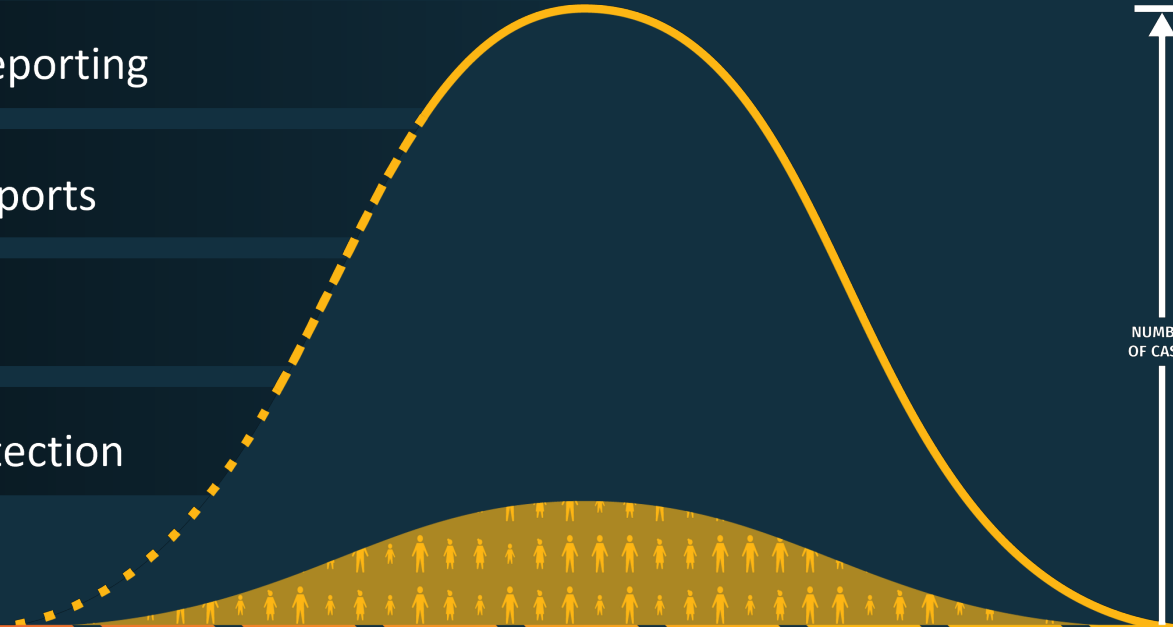
Astute clinician reports

Sentinel networks

Digital disease detection

NUMBER OF CASES

TIME





A One Health Approach

Routine disease reporting

Astute clinician reports

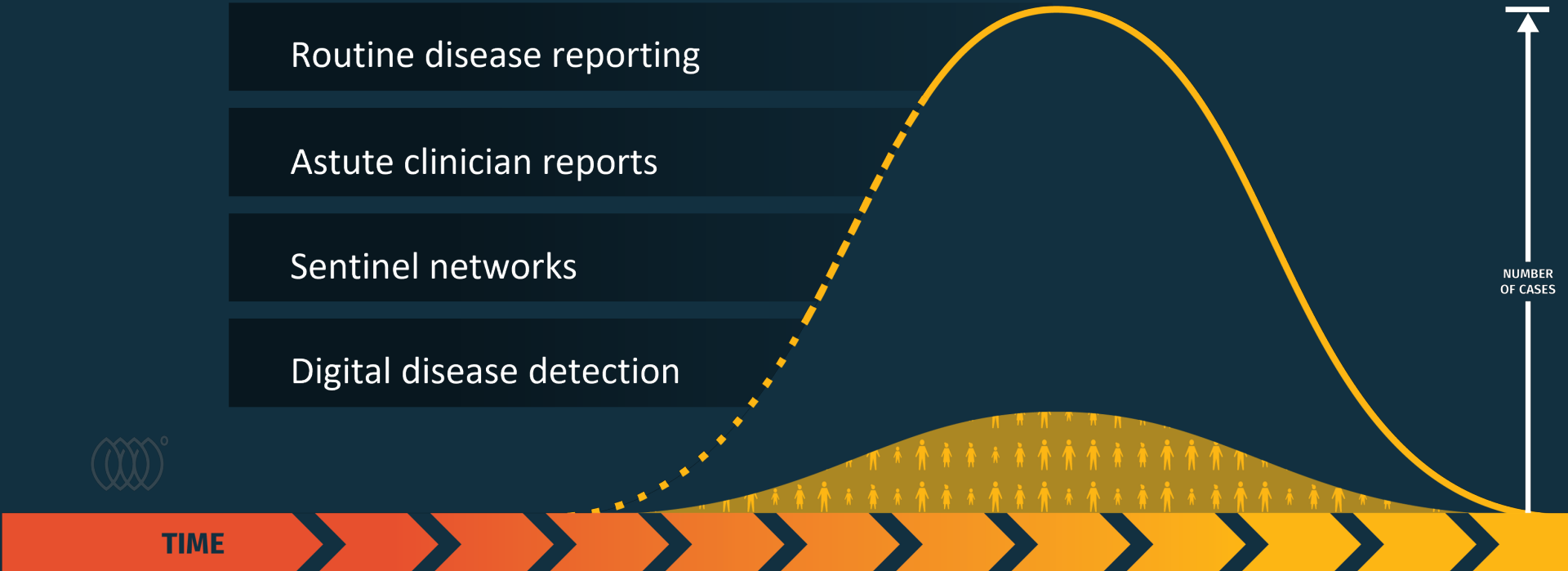
Sentinel networks

Digital disease detection

NUMBER
OF CASES



TIME



A One Health Approach



Routine disease reporting

Astute clinician reports

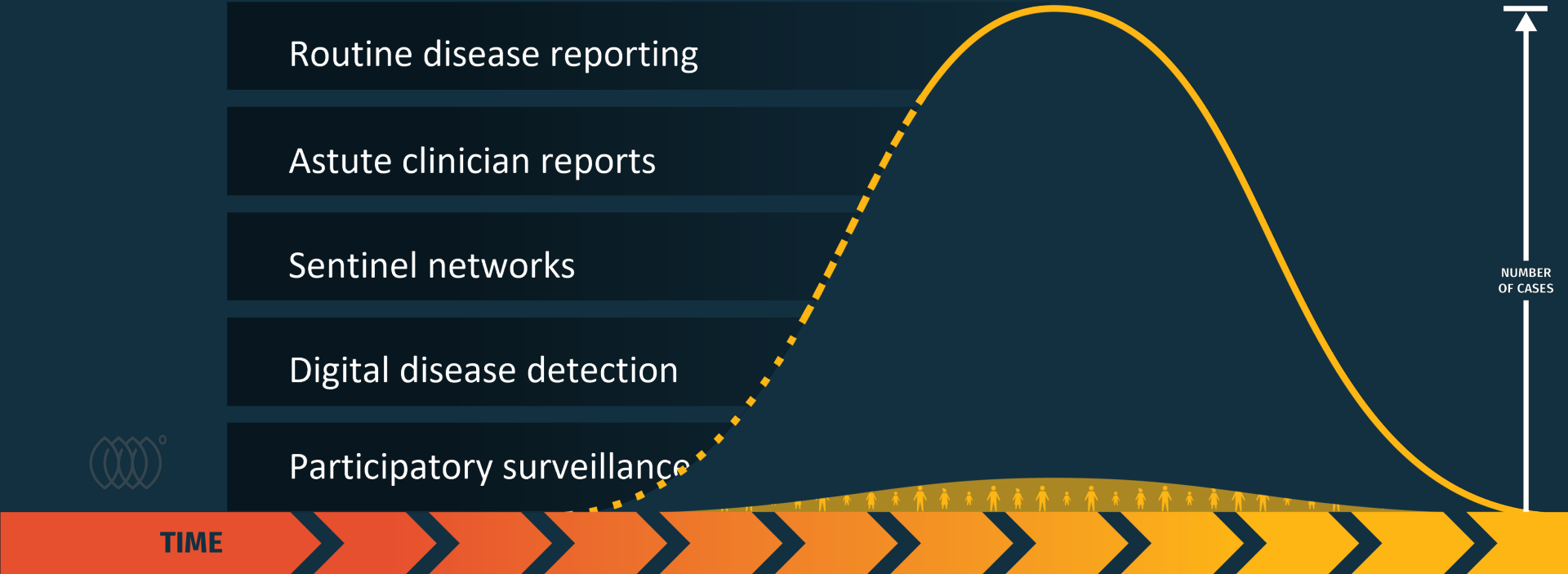
Sentinel networks

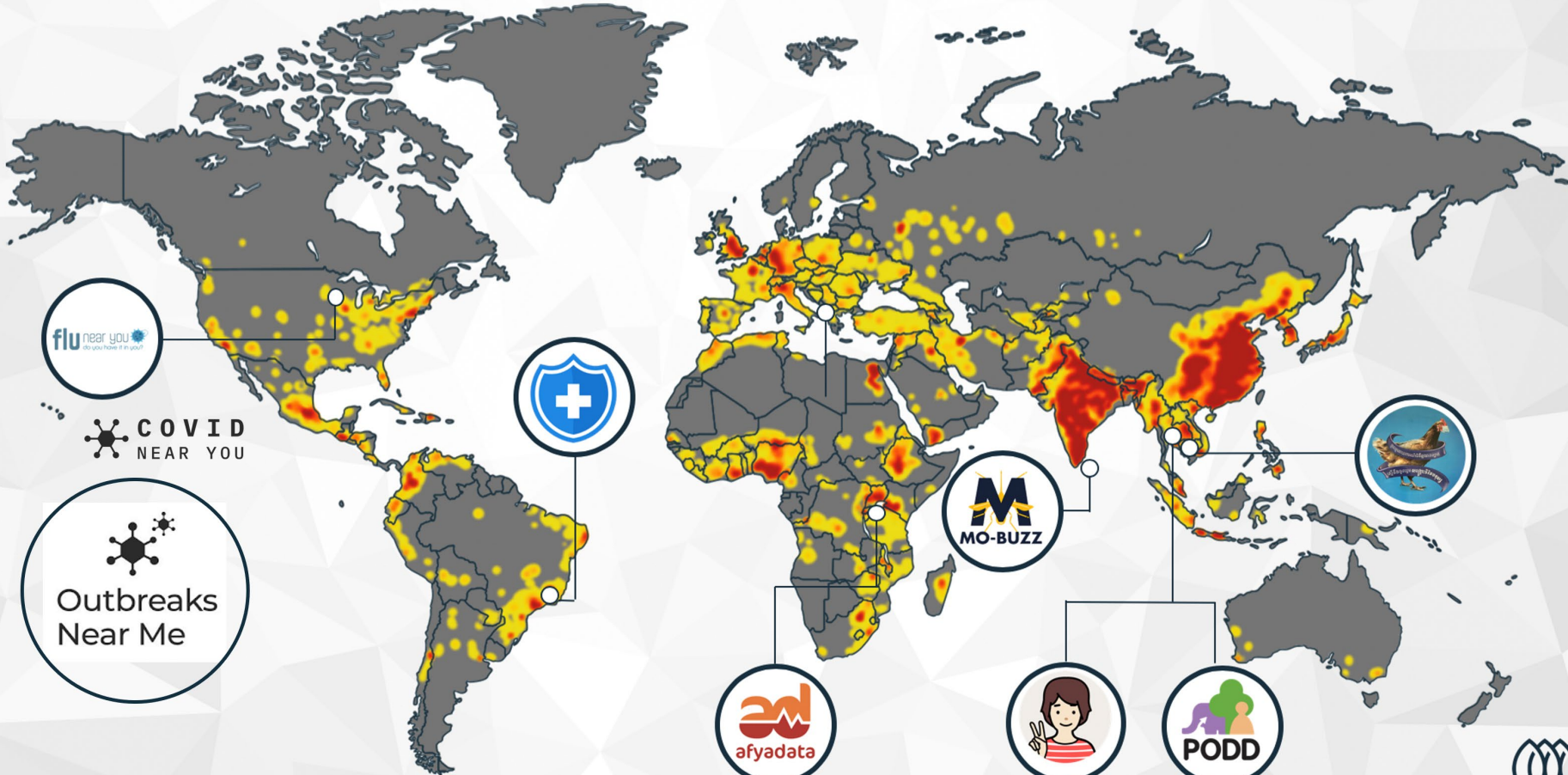
Digital disease detection

Participatory surveillance

TIME

NUMBER
OF CASES





flu near you

COVID
NEAR YOU

Outbreaks
Near Me

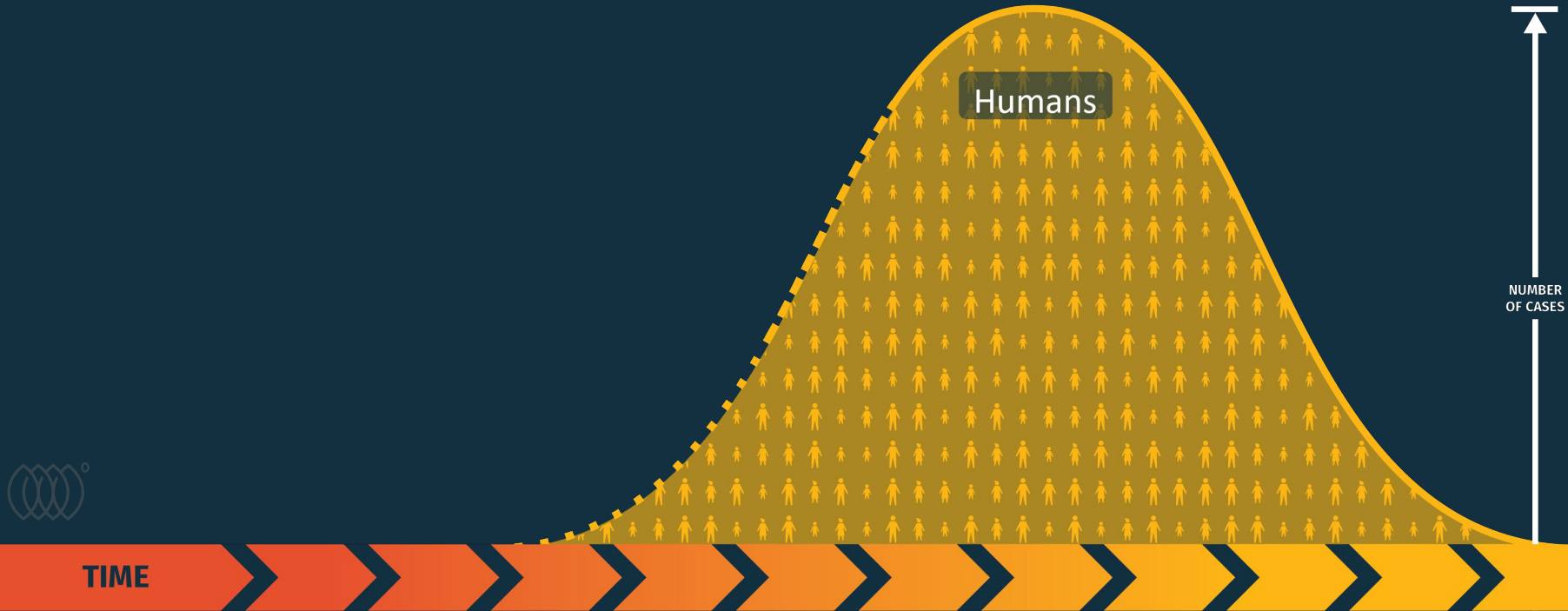
afyadata

MO-BUZZ

PODD



A One Health Approach



A One Health Approach



Travel and
Connectivity



Urbanization



Human
Displacement

Humans

NUMBER
OF CASES

TIME



A One Health Approach



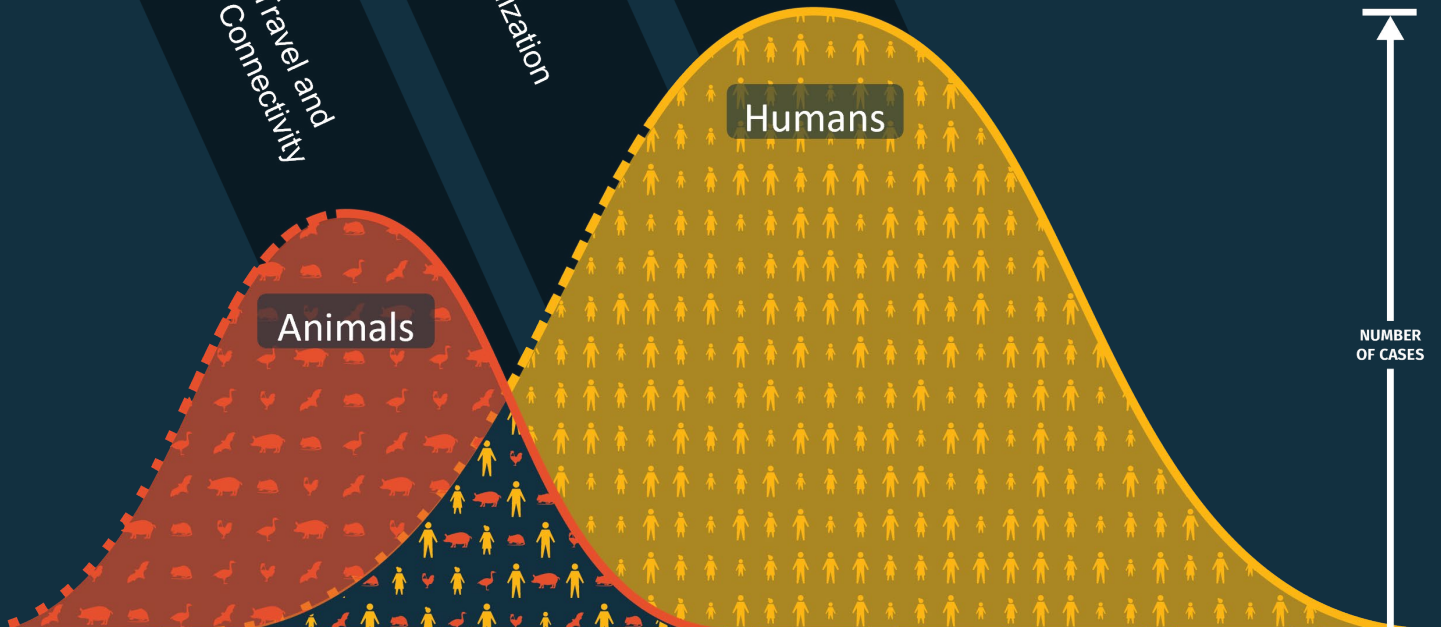
Travel and
Connectivity



Urbanization



Human
Displacement



Animals

Humans

NUMBER OF CASES



TIME

A One Health Approach

- climate



Climate Change



Deforestation



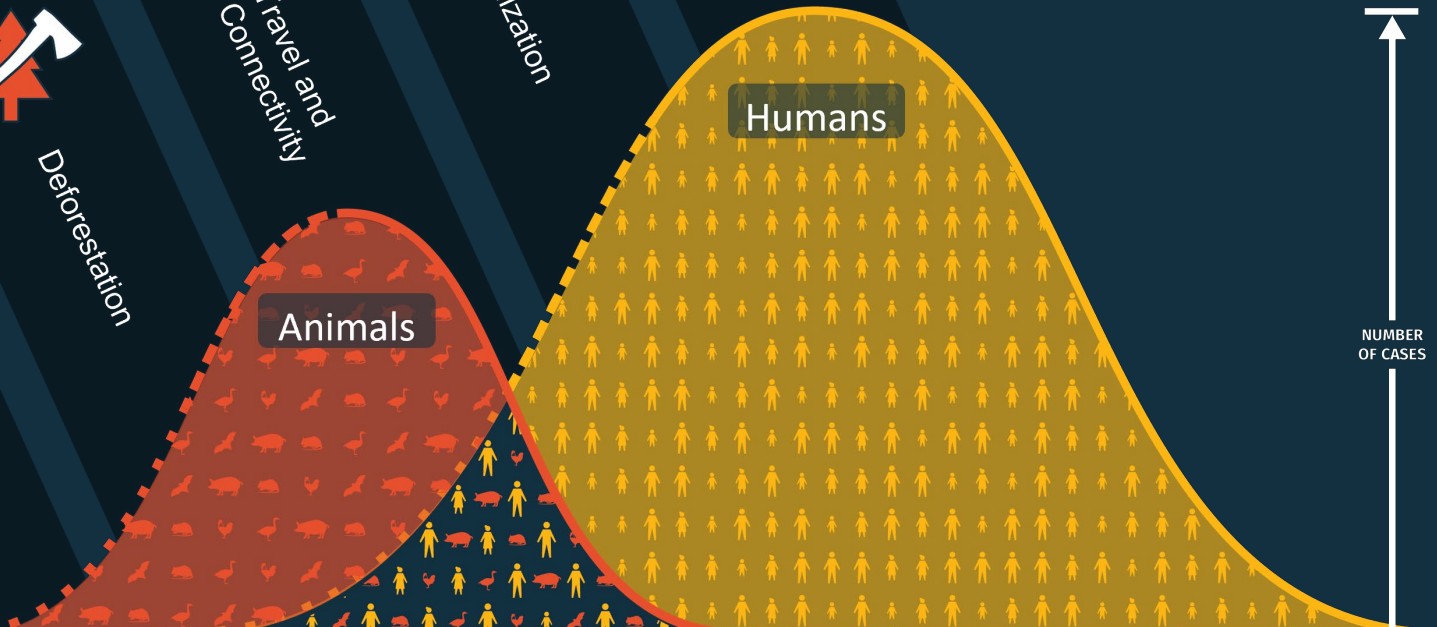
Travel and Connectivity



Urbanization



Human Displacement



Animals

Humans

NUMBER OF CASES

TIME



PODD CM
ONE HEALTH





Follow link to hear and receive closed-captioning video of Sayan Jitman and others, talking about PODD CM One Health

<https://www.youtube.com/watch?v=gb5tott98EQ&t=1>

1s

Impacts of One Health Surveillance in Thailand



Volunteers reported more animal diseases within the first few months than had been reported over the entire previous year.



Over 10,000 abnormal events have been reported through PODD.



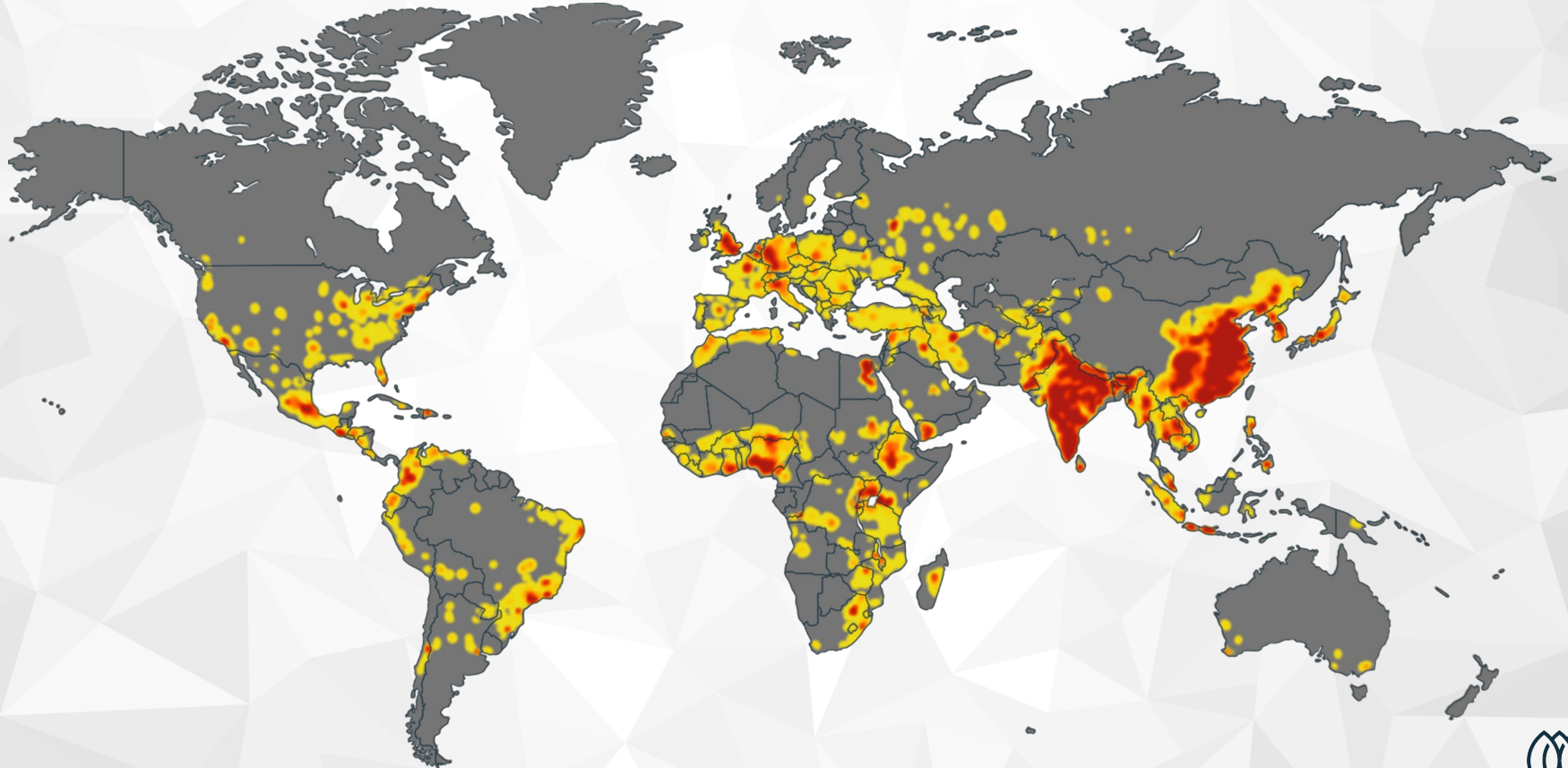
PODD has trained more than 19,400 community volunteers across 31 provinces on reporting through the PODD application.



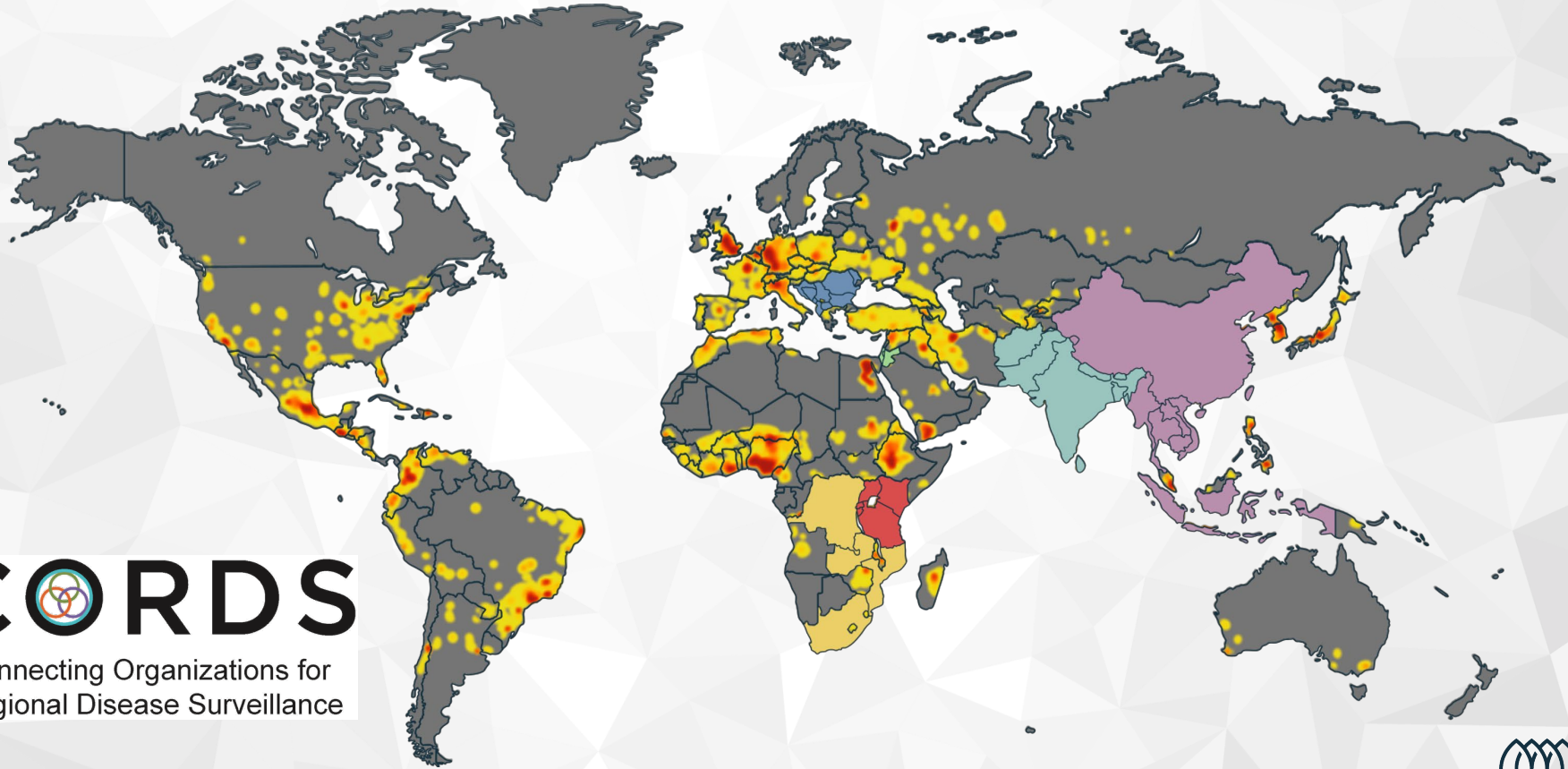
An outbreak of foot and mouth disease in domestic livestock was rapidly contained and saved the local economy approximately US \$4 million.



Planetary Hotspots for Disease Emergence



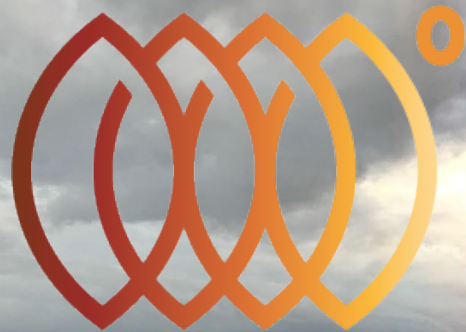
Regional Networks



CORDS

Connecting Organizations for
Regional Disease Surveillance





Ending Pandemics

Thank You

