





The views expressed in this presentation are the views of the author/s and do not necessarily reflect the views or policies of the Asian Development Bank, or its Board of Governors, or the governments they represent. ADB does not guarantee the accuracy of the data included in this presentation and accepts no responsibility for any consequence of their use. The countries listed in this presentation do not imply any view on ADB's part as to sovereignty or independent status or necessarily conform to ADB's terminology.

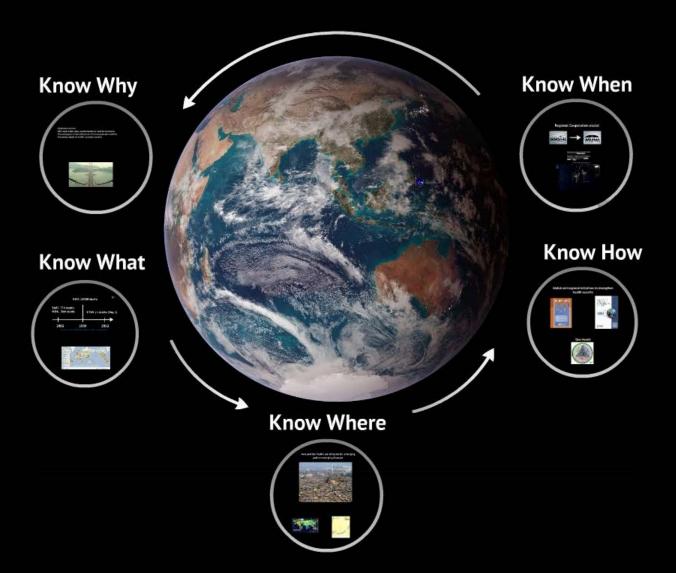






- BUT used to take days, weeks/months to reach far territories
- Increasing pace of spread because of increased people mobility
- Increasing impact on health, economy, security











SARS 774 deaths

SARS 774 deaths H5N1 300 deaths

H7N9 26 deaths (May 2)

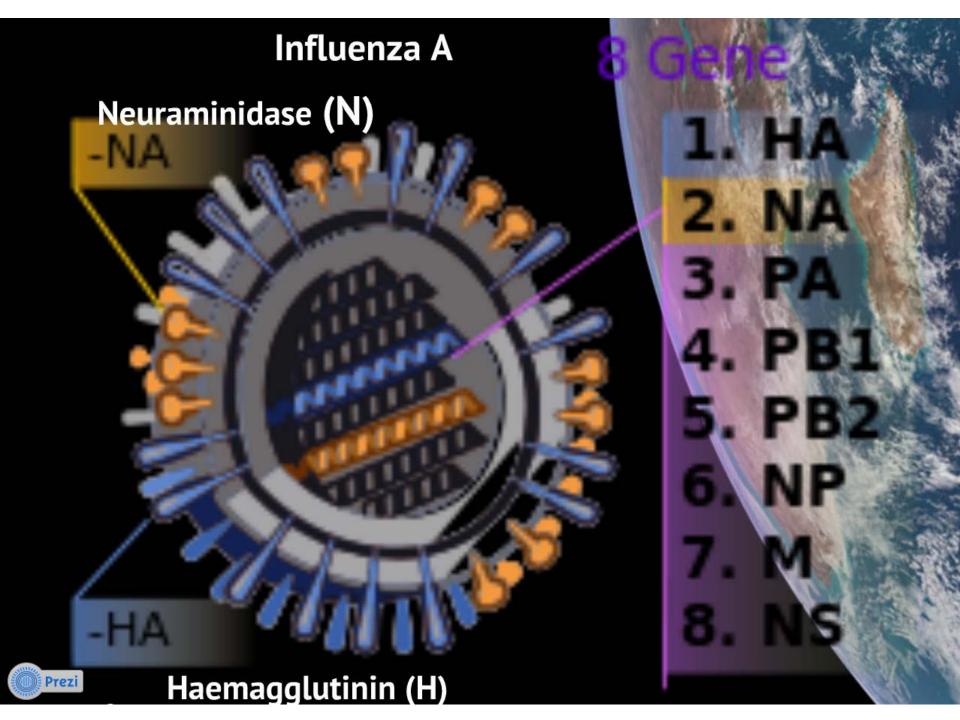
2003

2009

2013

Compared to around 38000 deaths happening annually from seasonal flu.





SARS 774 deaths H5N1 300 deaths

H7N9 26 deaths (May 2)

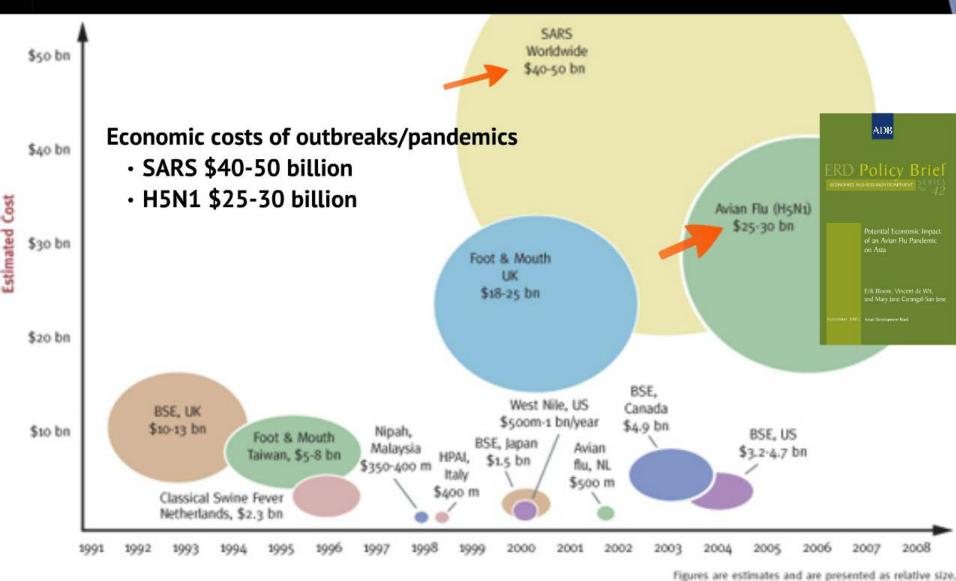
2003

2009

2013

Compared to around 38000 deaths happening annually from seasonal flu.









SARS 774 deaths H5N1 300 deaths

H7N9 26 deaths (May 2)

2003

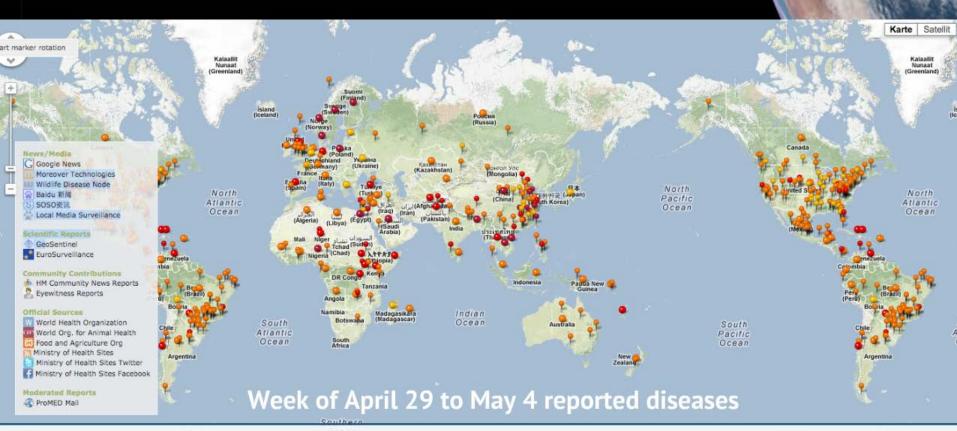
2009

2013

Compared to around 38000 deaths happening annually from seasonal flu.





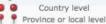




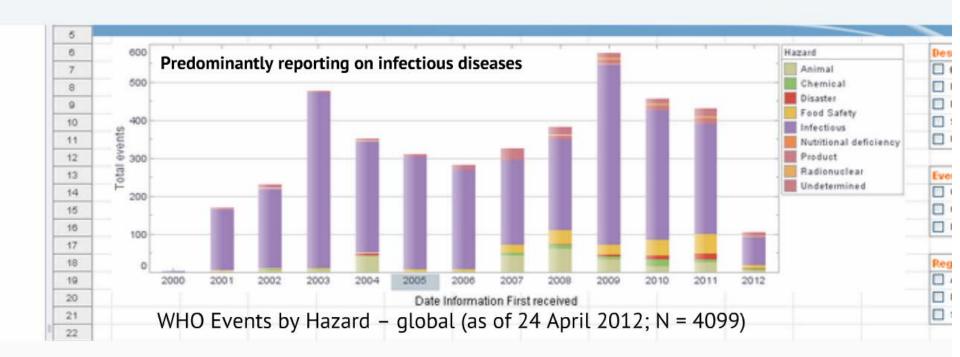




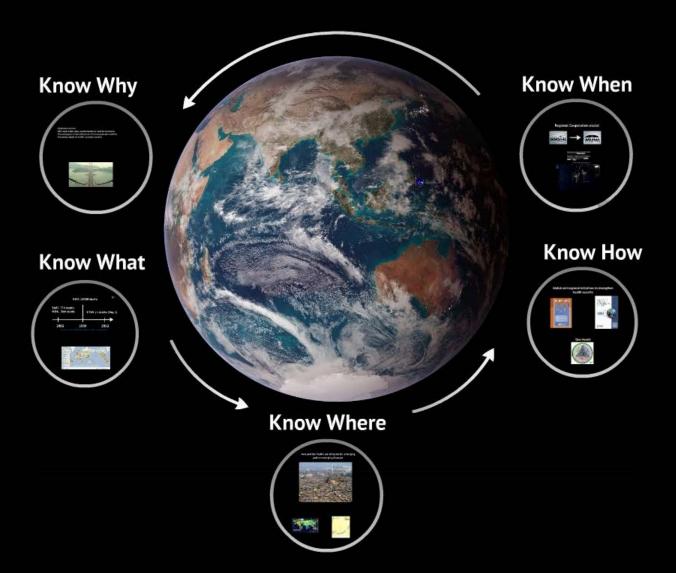






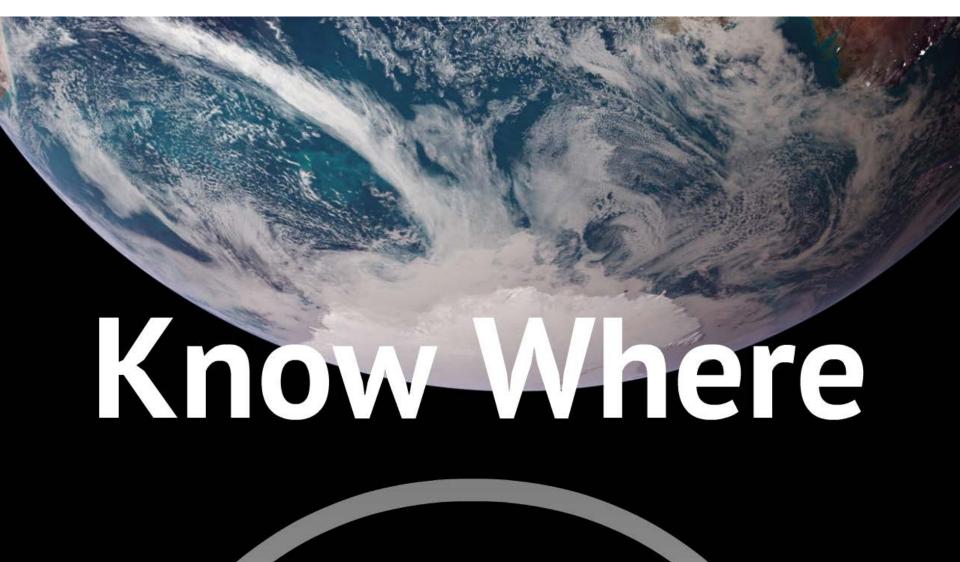












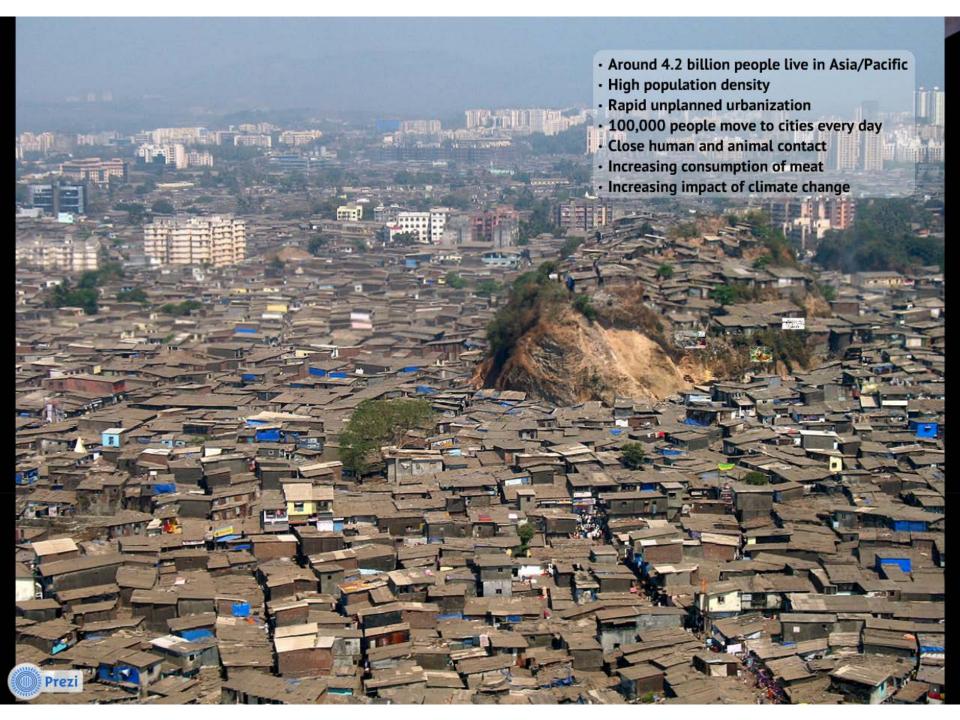
Asia and the Pacific are hotspots for emerging and re-emerging diseases

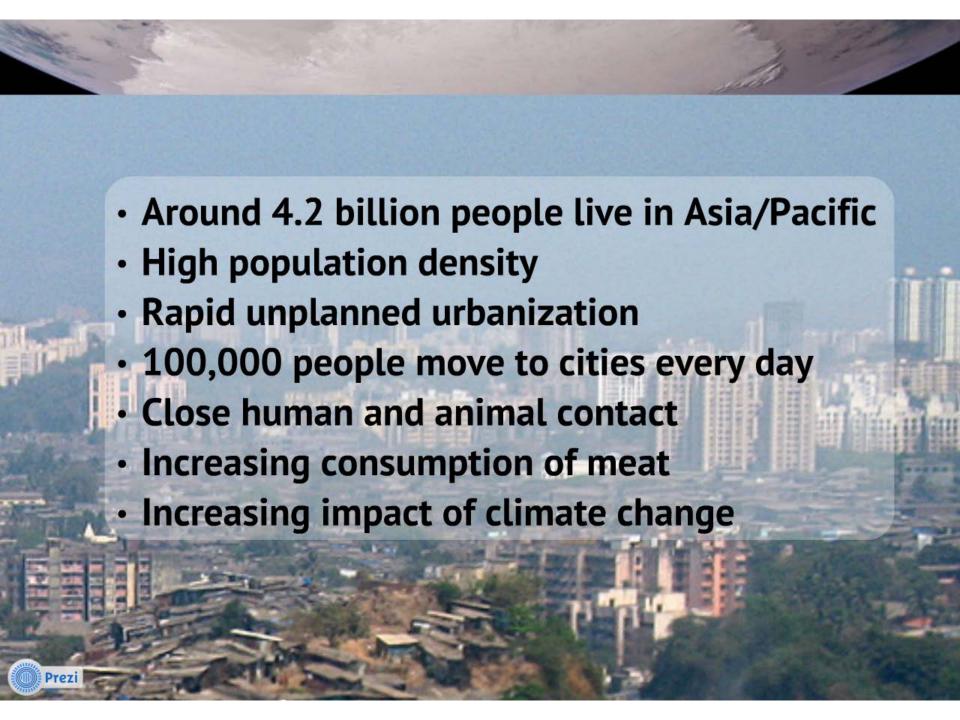




















# Poultry Meat Demand Growth 2000-2030





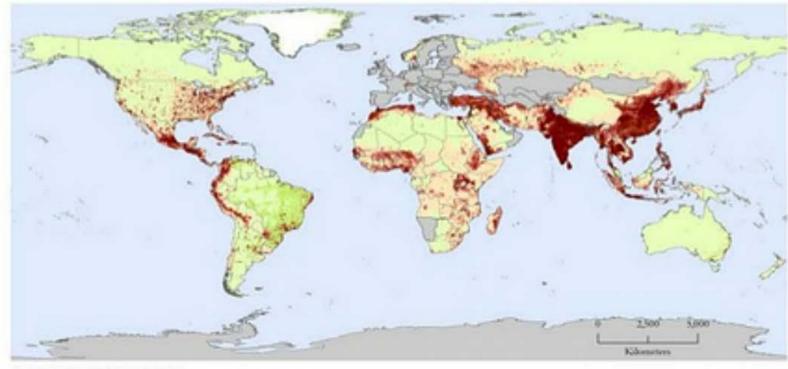








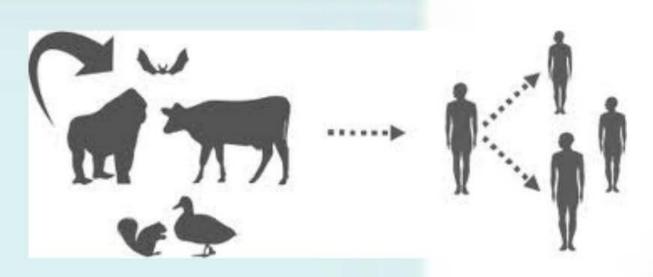




No data



Source: Robinson and Pozzi (2011)



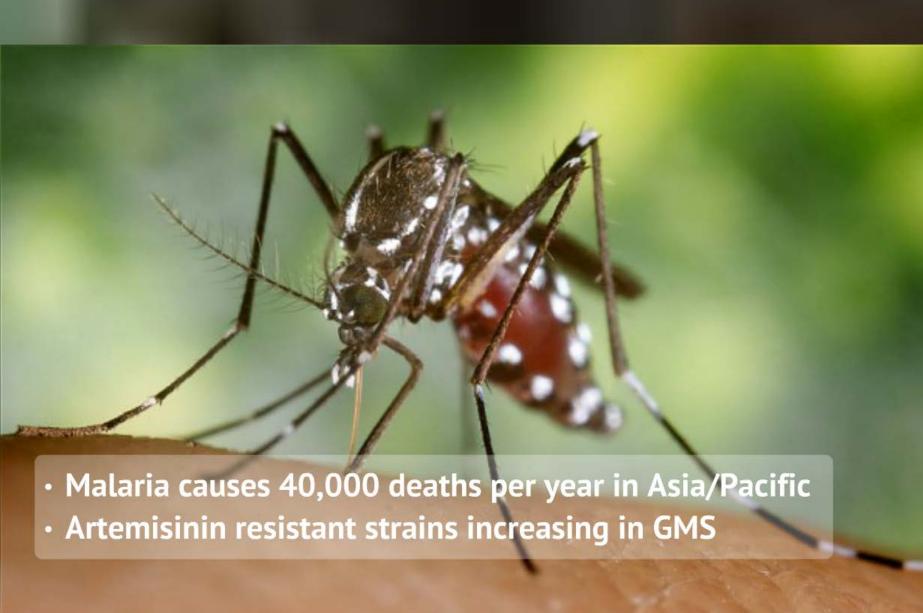
75% of emerging human infections come from animal sources.



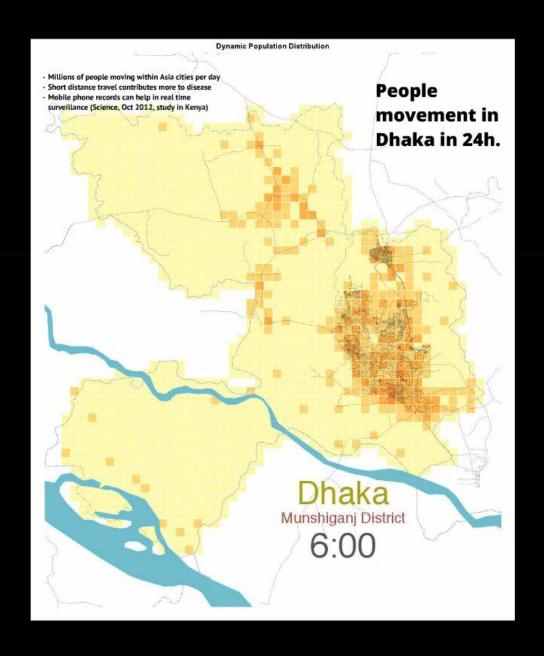














Dy

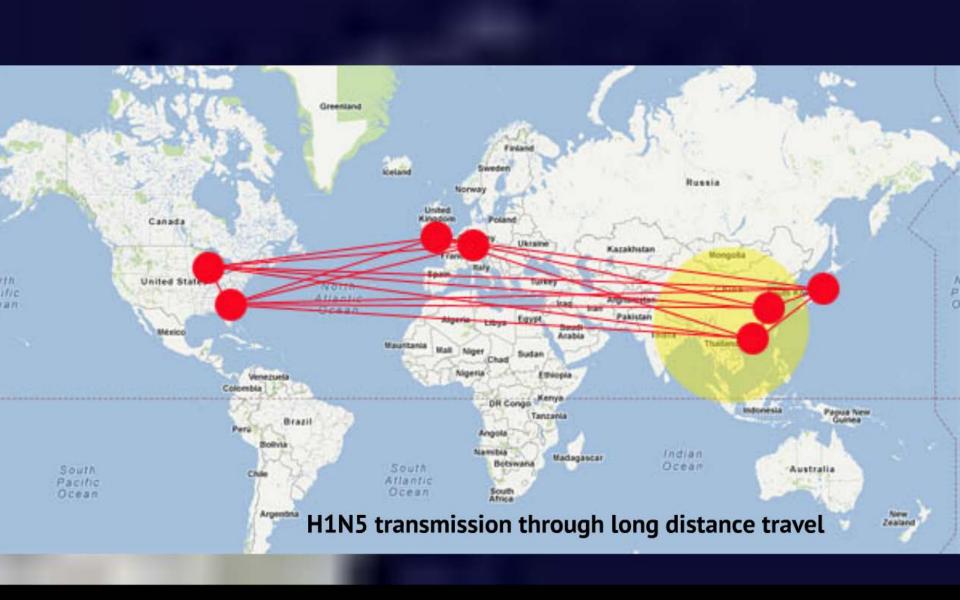
- Millions of people moving within Asia cities per day
- Short distance travel contributes more to disease
- Mobile phone records can help in real time surveillance (Science, Oct 2012, study in Kenya)



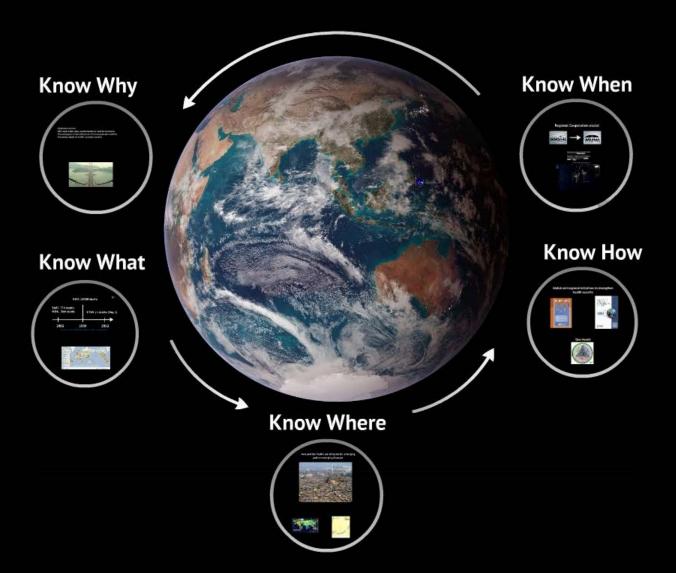














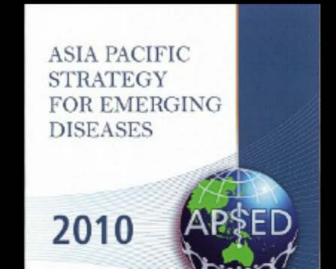




Global and regional initiatives to strengthen health security







Health Security defined as provision and maintenance of measures aimed at preserving and protecting the health of the population.





# INTERNATIONAL

# REGULATIONS (2005)

#### SECOND EDITION

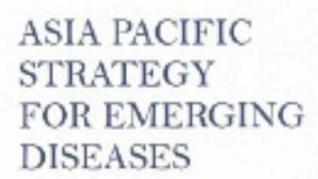
- Legally-binding global agreement to protect public health
- An international commitment for shared responsibilities and collective defense against disease spread
- Good achievements through experience with SARS and H1N1
- · BUT much remains to be done....



## SECOND EDITION

- Legally-binding global agreement to protect public health
- An international commitment for shared responsibilities and collective defense against disease spread
- Good achievements through experience with SARS and H1N1
- BUT much remains to be done....





2010



- PRC, Vietnam, Thailand strengthened surveillance and response
- H7N9 was quickly reported and viral identify shared - HOWEVER, the overall budget for the PRC Center of Disease Control is only \$18 million/per year and only 30

experts work there





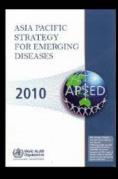
- PRC, Vietnam, Thailand strengthened surveillance and response
- H7N9 was quickly reported and viral identify shared
- HOWEVER, the overall budget for the PRC Center of Disease Control is only \$18 million/per year and only 30 experts work there



# Know How

Global and regional initiatives to strengthen health security





One Health









- Looks at human-animal bond which impacts on health of people and animals
- Research and partnerships (FAO, OIE, WHO etc.)
- Information exchange



WAHID home page

Country information Disease information Disease control measures Countries sanitary situation comparison Data between 1996 and 2004

> Info by Country/Territory

Choose by:

Single country

Region : Entire World

Legend

Country : Mexico

Reporting for countries: Afghanistan; Bahrain; Bahrain; Bahrain; Bhutan; Brunei Darussalam; Cambodia; China (People's Rep. of); Chinese Taipei; Hong Kong (SAR - PRC); India;

Indonesia; Iran; I Mongolia; Myanmar; Nepal; Oman; Pakistan; Palestinian Auton. Territories; Philippines; Qatar; Saudi Arabia; Singapore; Sri Lanka; Syria; Tajikistan; Thailand; Timor-Leste; Turkmenistan; United Arab Emirates; Uzbekistan; Vietnam; Yemen

> Choose Disease:

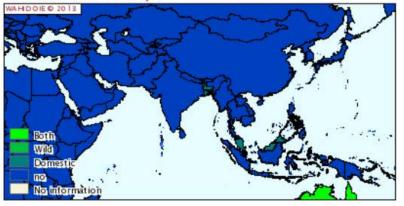
<ul><li>Terrestrial:</li></ul>	Nipah virus encephalitis	(20

006 -) +

--- Aquatic ---Aquatic:

> Choose control measure Disease Monitoring

Control measures maps

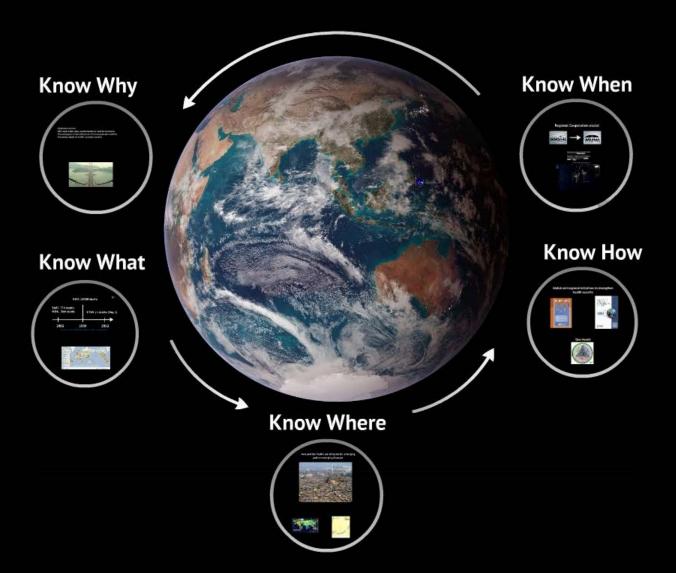


World Organisation for Animal Health provides excellent database



# Preparing for the inevitable

Why regional health security matters!







# Know When

Regional Cooperation crucial



# Regional Cooperation crucial







- Need to prepare for the next event, which will inevitably be different and which will INEVITABLY HAPPEN.
- PRC, Vietnam—Asia in general—is an epicenter because of the interactions of populations (human, pigs, poultry, wild animals), but these events could happen <u>ANYWHERE</u>, <u>ANYTIME</u> and <u>IMPACT</u> all of us.



#### STRATEGY 2020

- Highlights ADB's role to mitigate adverse health impacts from infrastructure and trade facilitation project
- ADB needs to support regional public goods and the cross -border nature of health

#### ADB's REGIONAL COOPERATION AND INTEGRATION STRATEGY

Pillar 4: Cooperation in Regional Public Goods (RPGs)
Long-term impact: Improved regional environments, health,
and social conditions

#### OPERATIONAL PLAN FOR IMPROVING HEALTH ACCESS AND OUTCOMES UNDER STRATEGY 2020

Support for regional public goods including such challenges as pandemic preparedness, and global health security issues in this region



## **STRATEGY 2020**

 Highlights ADB's role to mitigate adverse health impacts from infrastructure and trade facilitation project

 ADB needs to support regional public goods and the cross -border nature of health



# ADB's REGIONAL COOPERATION AND INTEGRATION STRATEGY

Pillar 4: Cooperation in Regional Public Goods (RPGs)
Long-term impact: Improved regional environments, health,
and social conditions



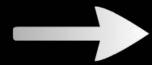
# OPERATIONAL PLAN FOR IMPROVING HEALTH ACCESS AND OUTCOMES UNDER STRATEGY 2020

Support for regional public goods including such challenges as pandemic preparedness, and global health security issues in this region



# Regional Cooperation crucial







- Need to prepare for the next event, which will inevitably be different and which will INEVITABLY HAPPEN.
- PRC, Vietnam—Asia in general—is an epicenter because of the interactions of populations (human, pigs, poultry, wild animals), but these events could happen <u>ANYWHERE</u>, <u>ANYTIME</u> and <u>IMPACT</u> all of us.



## **KM and Partnerships**

- Asia/Pacific Health Observatory in collaboration with World Bank and WHO
- ADB is discussing with SIDA and AusAID to expand the existing HIV/AIDS trust fund to include health security initiatives in general to provide rapid response, and decrease economic impact of outbreaks

#### **Investments**

Second GMS Regional Communicable Disease Control protect 2

#### romer during SARS of HSNE purchasis

## **Capacity Development**

- CWRD/RSDD TA to support IHR implementation in Central Asia (1,8 million)
- EARD TA on cross border animal health and IHR implementation
- RSDD TA GIS based initiative for improved surveillance and response to dengue and malaria in GMS



# ADB played major role as convener during SARS and H5N1 pandemic



## **KM and Partnerships**

- Asia/Pacific Health Observatory in collaboration with World Bank and WHO
- ADB is discussing with SIDA and AusAID to expand the existing HIV/AIDS trust fund to include health security initiatives in general to provide rapid response, and decrease economic impact of outbreaks

#### **Investments**

Second GMS Regional Communicable Disease Control protect 2

#### convere during SARS and HSAS purcleus

## **Capacity Development**

- CWRD/RSDD TA to support IHR implementation in Central Asia (1,8 million)
- EARD TA on cross border animal health and IHR implementation
- RSDD TA GIS based initiative for improved surveillance and response to dengue and malaria in GMS





# ADB's preparations during H7N9

- Stocking up with Tamiflu
- Tracking staff traveling to PRC
- Providing info on preventive measures
- Announcements in ADB Today
- For more info contact Dr. Bernatas





- Need to prepare for the next event, which will inevitably be different and which will INEVITABLY HAPPEN.
- PRC, Vietnam—Asia in general—is an epicenter because of the interactions of populations (human, pigs, poultry, wild animals), but these events could happen <u>ANYWHERE</u>, <u>ANYTIME</u> and <u>IMPACT</u> all of us.

"By failing to prepare, you are prepared to fail"

Benjamin Franklin







 Remember the OIE database, there is nearly NO monitoring for Nipah in animals in Asia and the Pacific in place...





# Preparing for the inevitable

Why regional health security matters!

