

# Food Safety & Markets

*Safer and healthier food markets for the development of Smarter Healthy Cities beyond COVID-19*

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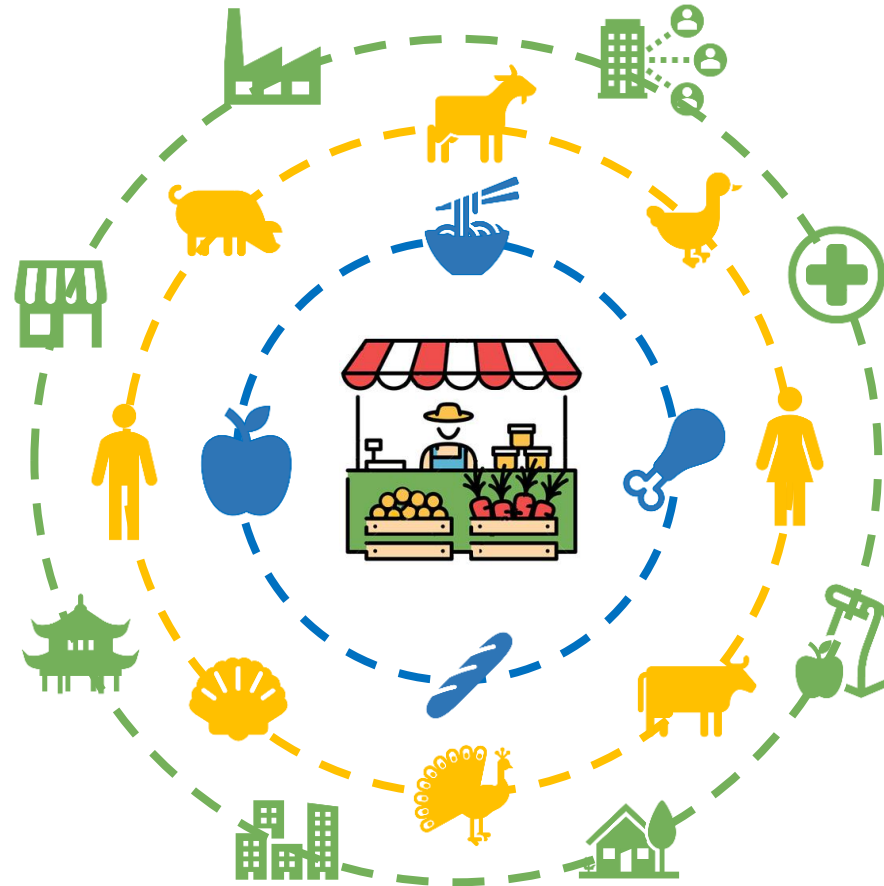
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# Food markets

- wet markets, informal markets, farmers markets, food market...
- sell foods of animal origin, vegetables, dried goods and where live animals are sometimes housed and slaughtered on site
- food safety, food security, nutrition



- culture, gastronomy, tourism...
- sources of food and livelihood for millions of people in the Western Pacific Region.
- In some cases have also become associated with the spread of some emerging infectious diseases from animals to humans (zoonoses).

Ref. [1]; [2]; [3]; [4]; [5]; [6]



# Traditional food markets in Asia and in the Western Pacific



**80% food** (animal origin and vegetables) in LMICs is produced by smallholders and sold in food markets.



Ref. [7]

# Why do we need safer and healthier food markets for the development of Smarter Healthy Cities beyond COVID-19?

1.7

EARTHS



Needed to support humanity per year (**now**)

60%

HUMAN INFECTIONS



are *estimated to have an animal origin* (**now**)

9,7

BILLION



Estimated world population in **2050**

2/3

GLOBAL POPULATION



Living in urban areas by **2050**

102%

INCREASING



Food demand between 2009 and **2050**

Ref. [8]; [9]; [10]; [11]





# Relevance of food safety

- Safe food today for a **healthy tomorrow**
- Intrinsic component of food security and nutrition
- Interconnected with multiple aspects of the human development (**health, economic, social, environmental**)

## Direct impact:



**End hunger, achieve food security and improved nutrition and promote sustainable agriculture**

Ensure access to safer, nutritious and sufficient food



**Ensure healthy lives and promote well-being for all at all ages**

Combat foodborne diseases and end preventable deaths

## Others goals



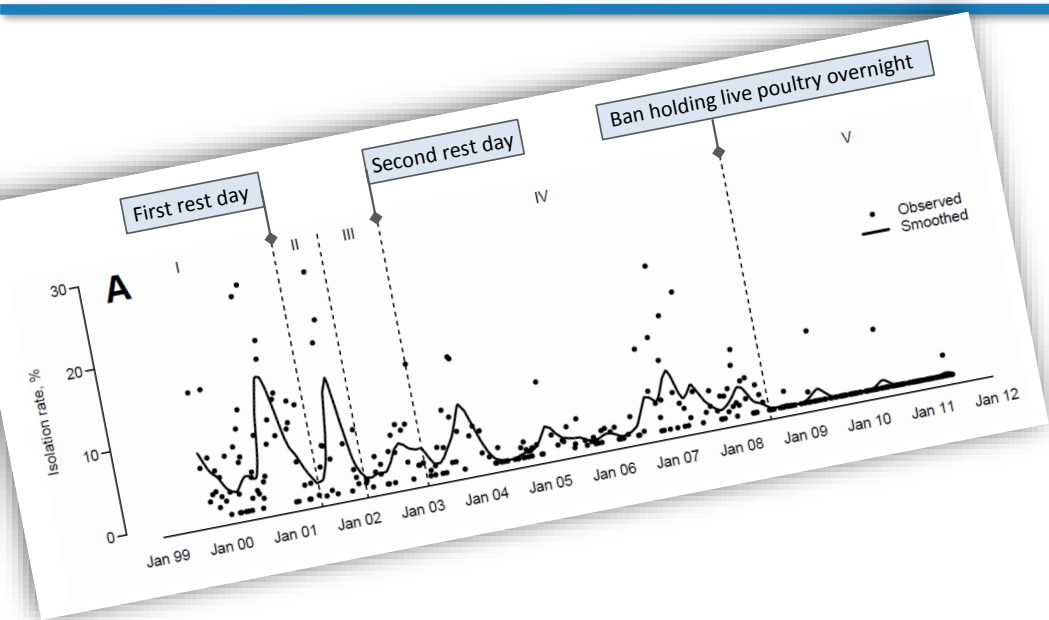
Ref. [12]; [13]; [14]; [15]; [16]



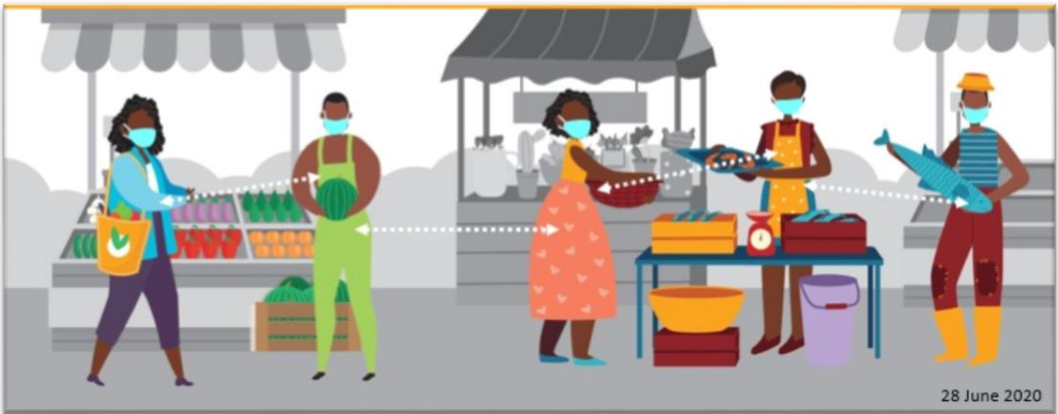
*How Smarter Healthy Cities can improve food markets to protect the health of the population, and maintain the livelihood of vendors and suppliers?*



# Risk mitigation in traditional food markets



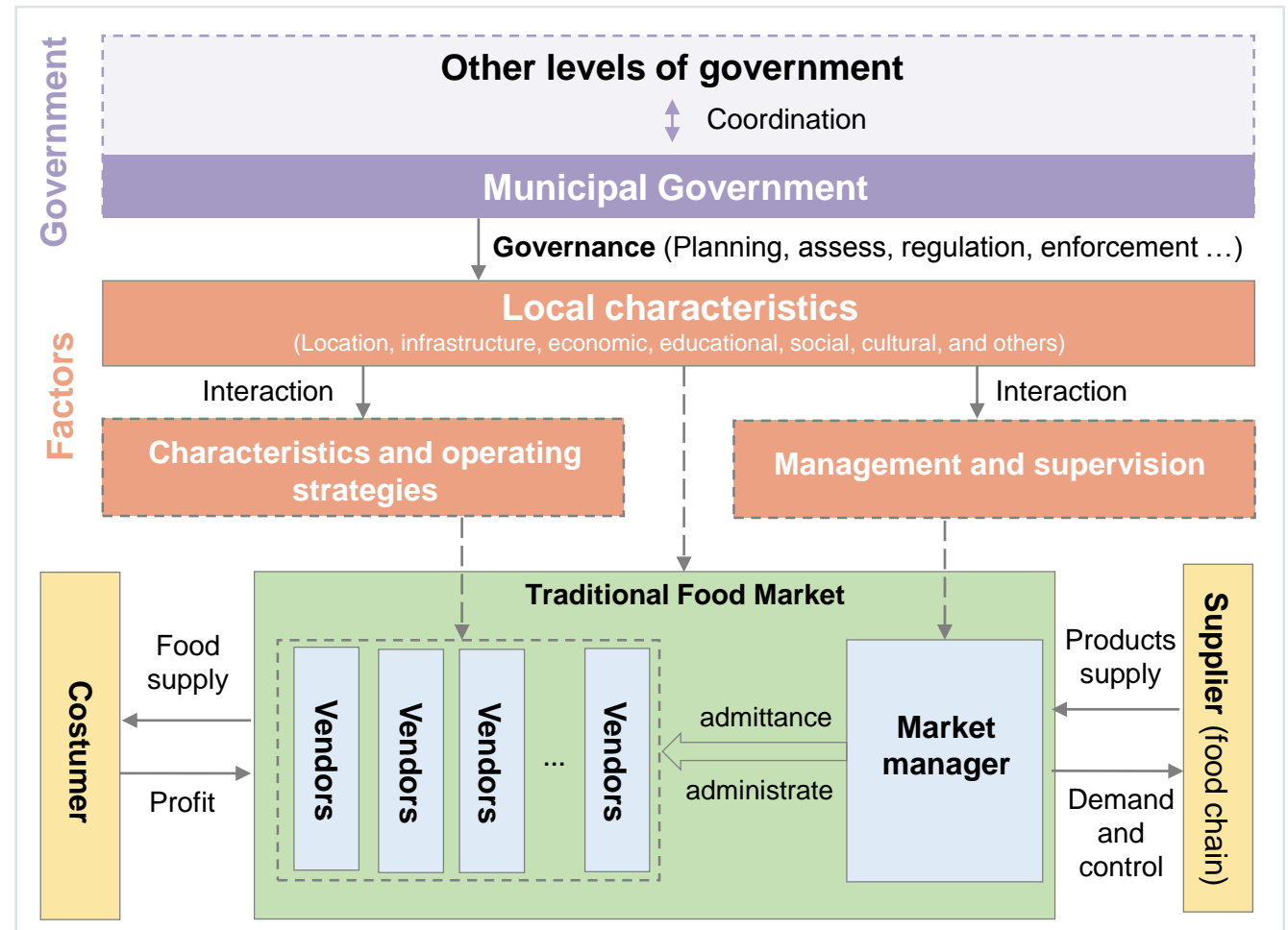
Intelligent Sterilization Robot (ISR) - HK



Ref. [17]; [18]

# Regulation and enforcement

- Regulation at local level
- Tailored to the local context
- Considering all stakeholders
- Include regulation and control for trade of live wild and domestic animals
- Surveillance systems
- **Multisectoral (One Health) approach**



Ref. [19]; [20]



# Communication for health in traditional food markets



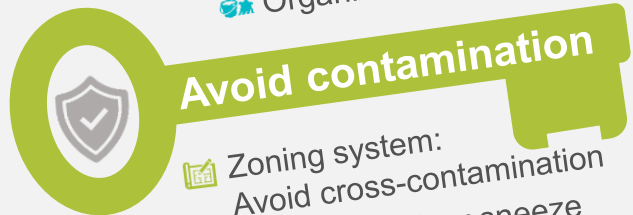
## Five keys to safer traditional food markets (prototype)

### Basic hygiene



#### Keep clean

- Hand hygiene
- Wash and disinfect surfaces
- Avoid touching your eyes, nose and mouth
- Proper waste disposal
- Organize a Rest day



#### Avoid contamination

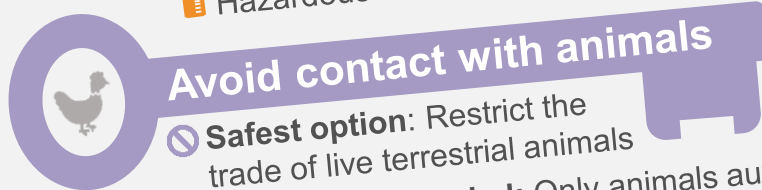
- Zoning system: Avoid cross-contamination
- Cover: Cough or sneeze
- Avoiding contact between raw and ready-to-eat food

### Specific measures



#### Keep food products safe

- Safe storage temperatures
- Store dry food products properly
- Trade only safe food products
- Hazardous chemicals separately from food



#### Avoid contact with animals

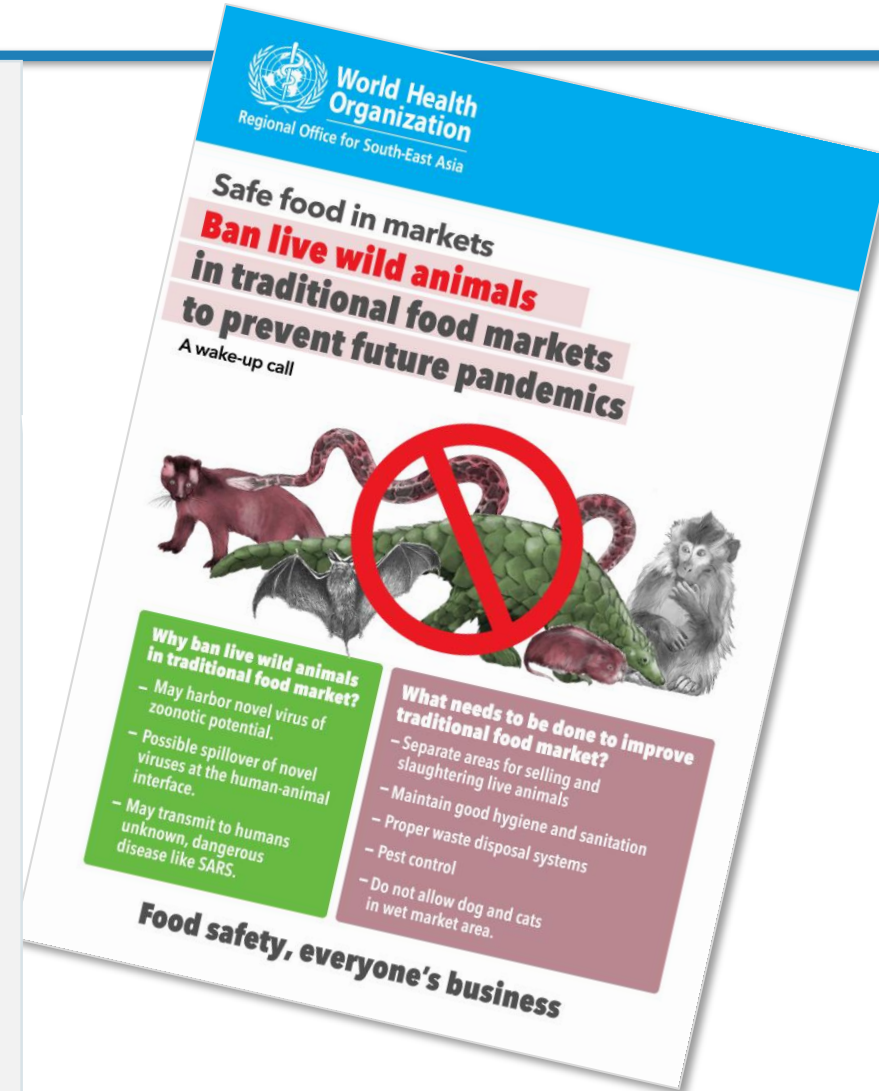
- Safest option:** Restrict the trade of live terrestrial animals
- On stage as needed:** Only animals authorized
- Separate areas: animals from food
- Animal health and hygienic manipulation



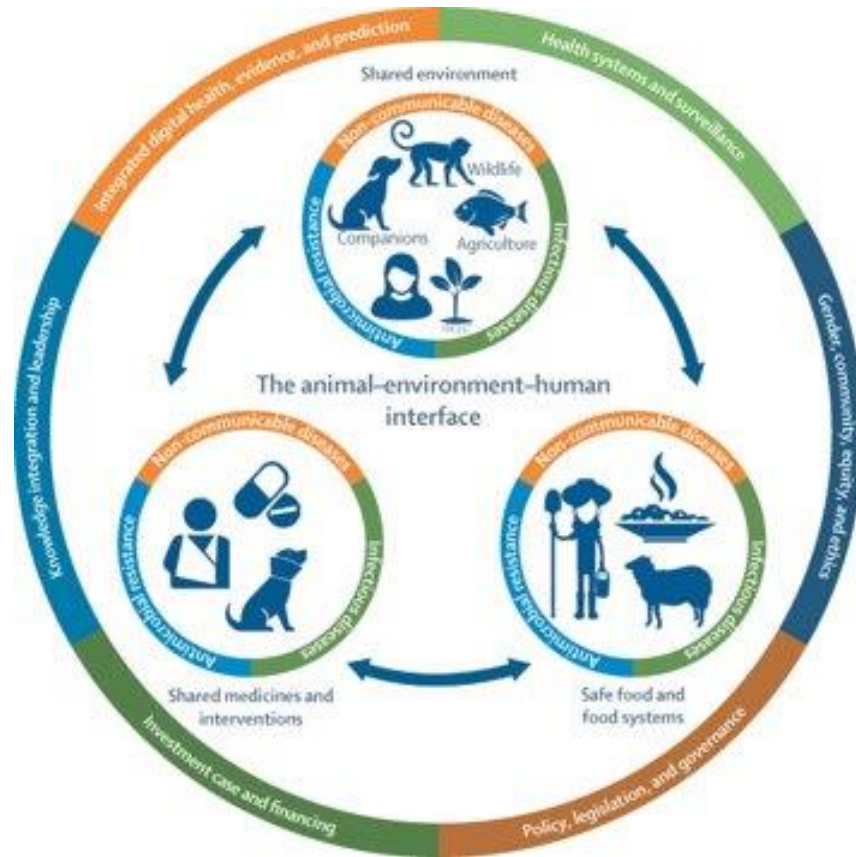
#### COVID-19 safe

- For you:**
  - 1-metre distance
  - Wearing a mask

- Your place:**
  - Avoid the 3Cs



# WHO work towards safer and healthier food markets



To detect, prevent and respond to emerging diseases at the human-animal-environment interface and to address food related public health issues more effectively through the One Health approach.

- International Health Regulations (2005)
- For the Future
- Asia Pacific strategy for emerging diseases and public health emergencies (APSED III)
- The International Food Safety Authorities Network – INFOSAN
- Transforming food markets in the Asia Pacific region

Ref. [21]; [22]



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# Food Safety & Markets

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*Thank you!*



Dr Takeshi Kasai ✓

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#FoodMarkets are an important part of life in Asia & the Pacific but we need a multisector approach to mitigating public health risks. Happy to speak to participants at our biregional meeting. Looking forward to working together to keep food markets safe for everyone! 🥥 🥕 🥦 🍓



World Health Organization (WHO) Western Pacific e mais 9