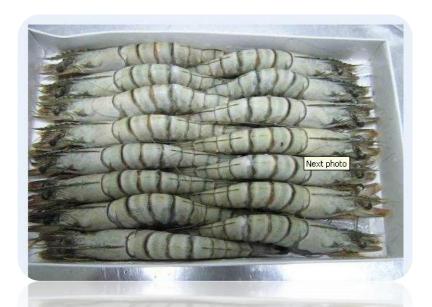
BIOSECURITY MANAGEMENT FOR EXPORT OF FROZEN SEAFOOD











ROBIN LIEW
B. Sc Microbiology, UM (1989)
M. Biotechnology, UM (1995)

Almost 30 years work experience in aspects of biosecurity in food safety, disease screening and quality management system (ISO 17025)



- Malaysia
- Indonesia
- Brunei
- Bangladesh
- Myanmar















Australian Government Department of Agriculture and Water Resources











BIOSECURITY: Definition



Biosecurity is a strategic and integrated approach that encompasses the policy and regulatory frameworks (including instruments and activities) for analysing and managing relevant risks to human, animal and plant life and health, and associated risks to the environment.

- Food Safety
- Zoonoses
- Animal Health
- Plant Health
- LMO (Living Modified Organism)
- Invasive Alien Species
- Environment protection

BIOSECURITY IN SEAFOOD



Food Safety:

A biological, chemical or physical agent in, or condition of, food with the potential to cause an adverse health effect

Codex Alimentarius Commission (CAC)

RISK ASSESSMENT RISK MANAGEMENT RISK COMMUNICATION

BIOSECURITY IN SEAFOOD









FROZEN PRAWNS (Risk Assessment):

In addition to biological, chemical and physical, Australian biosecurity requires products to be:

- 1. WSSV Free
- 2. YHV Free
- 3. De-vein prawn GI (potential EHP risk)



BIOSECURITY FOR SEAFOOD

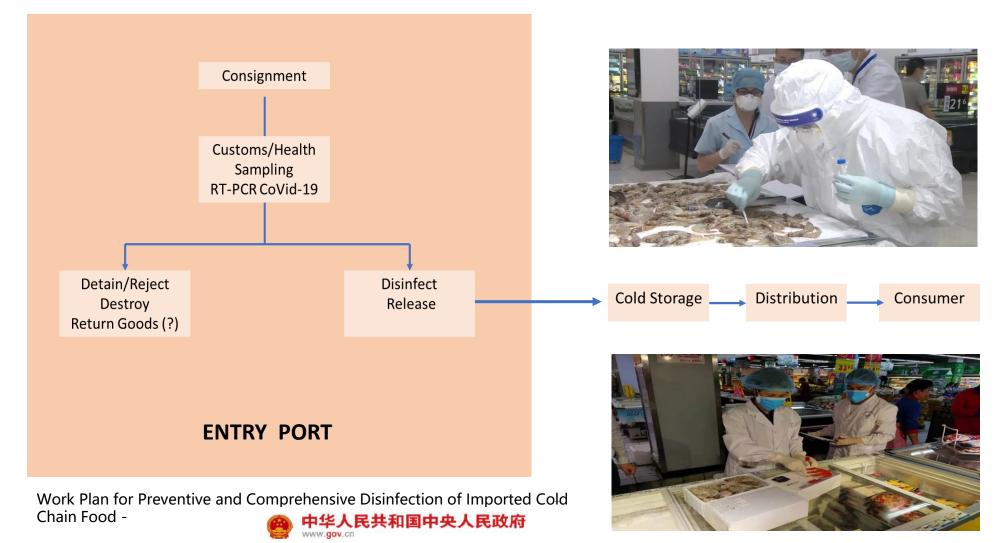


- June 2020 Beijing Xinfadi Agriculture Produce Whole-Sale Market, Beijing (CoVid-19 detected on cutting board imported salmon section)
- July 2020 CoVid-19 detected in frozen food packaging materials and interior of shipping container (9 reported cases)
- August 2020 Shenzhen , CoVid-19 detected on surface of frozen chicken from Brazil
- October 2020 Qingdao, live CoVid-19 was recovered from frozen cod
- November 2020 Tianjin , Cold storage worker infected with CoVid-19
- Chinese Government issue new directive Nov 09 Work Plan For Preventive and Comprehensive Of Imported Cold Chain Food



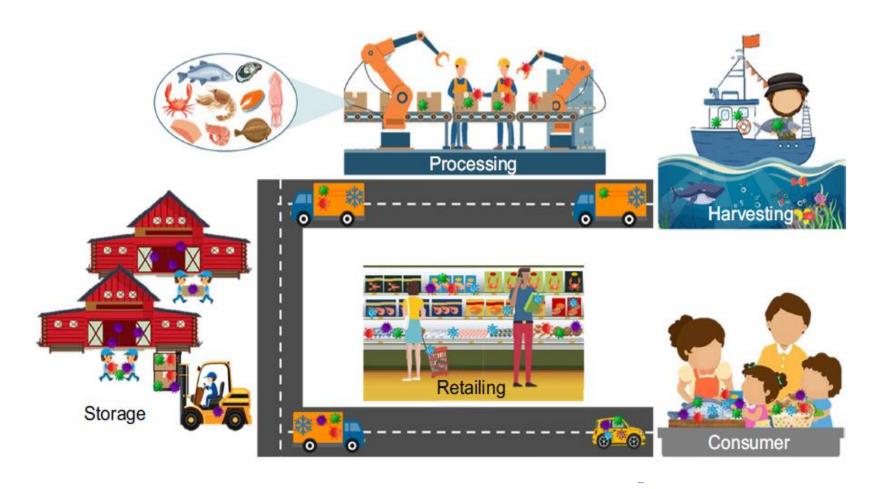
CHINA FROZEN SEAFOOD IMPORTS





BIOSECURITY CONSIDERATIONS





- Complex Supply Chain from Farm to Fork
- Biosecurity
 Management of the whole chain
- Traceability

BIOSECURITY CONSIDERATIONS



Safety Measures during the COVID-19 Pandemic						
Be Healthy	Wash Hands	Disinfect Surfaces	Working Environment	Preparation	Delivery	Social Distance
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Stay home if sick Check for symptoms like fever, cough, difficulty breathing Cover your mouth with a tissue or sleeve when coughing or sneezing	Wash hands often with soap and water for at least 20s Avoid touching your eyes, nose and mouth with unwashed hands Use a 60% alcohol-based sanitizer	Disinfect high touch surfaces with proper products (e.g. 62-71% ethanol) Use sanitizers according to label instructions Follow protective measures	Apply proper disinfection of toilet areas Develop open plan work spaces Use window ventilation	Separate raw from cooked products Wash fruits and vegetables thoroughly before eating Cook food in appropriate temperatures (>70°C)	Try to use "no touch" deliveries Maintain time and temperature controls Ensure that transport containers are cleaned and sanitized	Stay at least 2 m from other people Do not gather in groups Stay out of crowded places and avoid mass gatherings
(FDA, 2020a)	(FDA, 2020a)	(FDA, 2020a)	(Dietz, 2020; Liu, 2020)	(Chin et al. 2020; FDA, 2020a)	(FDA, 2020a)	(Kissler, 2020)

BIOSECURITY CONSIDERATIONS



Agricultural Production	
Post-Harvest Handling	ħ
Processing	<u>~</u>
Distribution/Retail	
Consumption	



BIOSECURITY CHALLENGES



NEW NORMAL:

- RE-EVALUATE / RE-ASSESSMENT
- MANAGEMENT PREVENTION AND RESPONSE
- CHANGE IS KEY TO SURVIVAL
- RE-TRAINING
- TRACEABILITY



THANK YOU DANK JE TERIMA KASIH