# Hitchhiker Pests

#### Quarantine Regulators Meeting

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#### Presenter:

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#### Risks Of Sea Containers

(photos of various risks)

#### Khapra Beetle Risk Of Sea Containers

(photos of various risks)

#### Consequences (over 20 years)

* Khapra beetle, $15.5 billion
* Exotic invasive ants, $8.5 billion
* Gypsy moth, $1.7 billion
* Giant African snail, $1.5 billion
* Asian honey bees, $0.7 billion

#### Scenario:

* Arrives from a high risk country
* Inspected on wharf
* Found to be contaminated with soil and snails
* Tarped and directed for treatment

#### Costs:

* On-wharf lifts = $200-300 per lift
* Inspection = $50 per quarter hour
* On-wharf storage costs = $272-340 per day (storage > 3 days)
* Tarping = $3000-5000 per container
* Transport costs to treatment facility = $125 per hour
* Onshore treatment = $340-545
* Cleaning = $160

#### Container Logistics: What Most People Think

(graphic showing flowchart)

#### Container Logistics: The Reality

(graphic showing flowchart)

#### Container Logistics: Transhipment

(graphic showing flowchart)

#### Container Logistics: Inland Movement

(graphic showing flowchart)

#### Contamination Touch Points

* Pack points
* Terminals/container depots
* Container vessels
* Contaminated goods

#### Packing Locations

Risks include (external and internal):

* Containers placed on grassy areas or soil are more likely to be contaminated by insects, snails and plant parts, including seeds.
* Entry of pests through container doors left open.
* Soil entering the container on the feet of persons, or on the wheels of handling equipment.
* Cross contamination from cargo

#### Container Vessel

Risks include (mainly external):

* Cross contamination between containers
* Cross contamination from ship holds

Photo showing a moth infestation discovered by US Customs and Border Protection on a cargo ship in Jan, 2013 (Source: US CBP)

#### Contaminated Goods

Risks include:

* Contamination from infested goods
* Contamination from packaging
* Khapra beetle is an example of this

#### Integrated regulation and supply chain

* Enhanced data capture and analytics
* Innovative technologies
* Education and awareness
* Onshore industry arrangements
* Offshore supply chain assurance
* Offshore quality systems

#### Collaboration With Trading Partners

* Data and intelligence sharing
* What is working
* Opportunities for joint management
* of systems
* Offshore assurance schemes
* Innovative technologies

#### Resources

(graphics showing a webpage screenshot and a mobile phone)

#### QUESTIONS