

Biosecurity: Are you ready?





Food Security & Biosecurity

Food Security: All people, at all times, have physical and economic access to sufficient, safe and nutritious food to meet their dietary needs and food preferences for an active and healthy life (FOA 2005)

- Population growth
- Changing diets
- Climate change
- Water scarcity
- Less farmers
- Soil health
- Pest pressure



Food Security & Biosecurity

Plant Biosecurity:

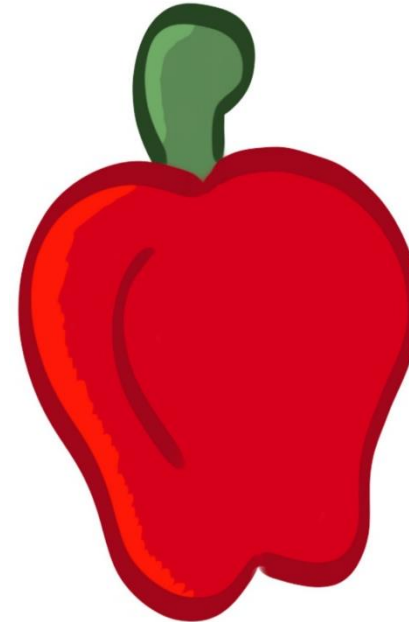
A set of measures designed to protect a crop, crops or a sub-group of crops from emergency plant pests at national, regional and individual farm levels (PHA 2005)



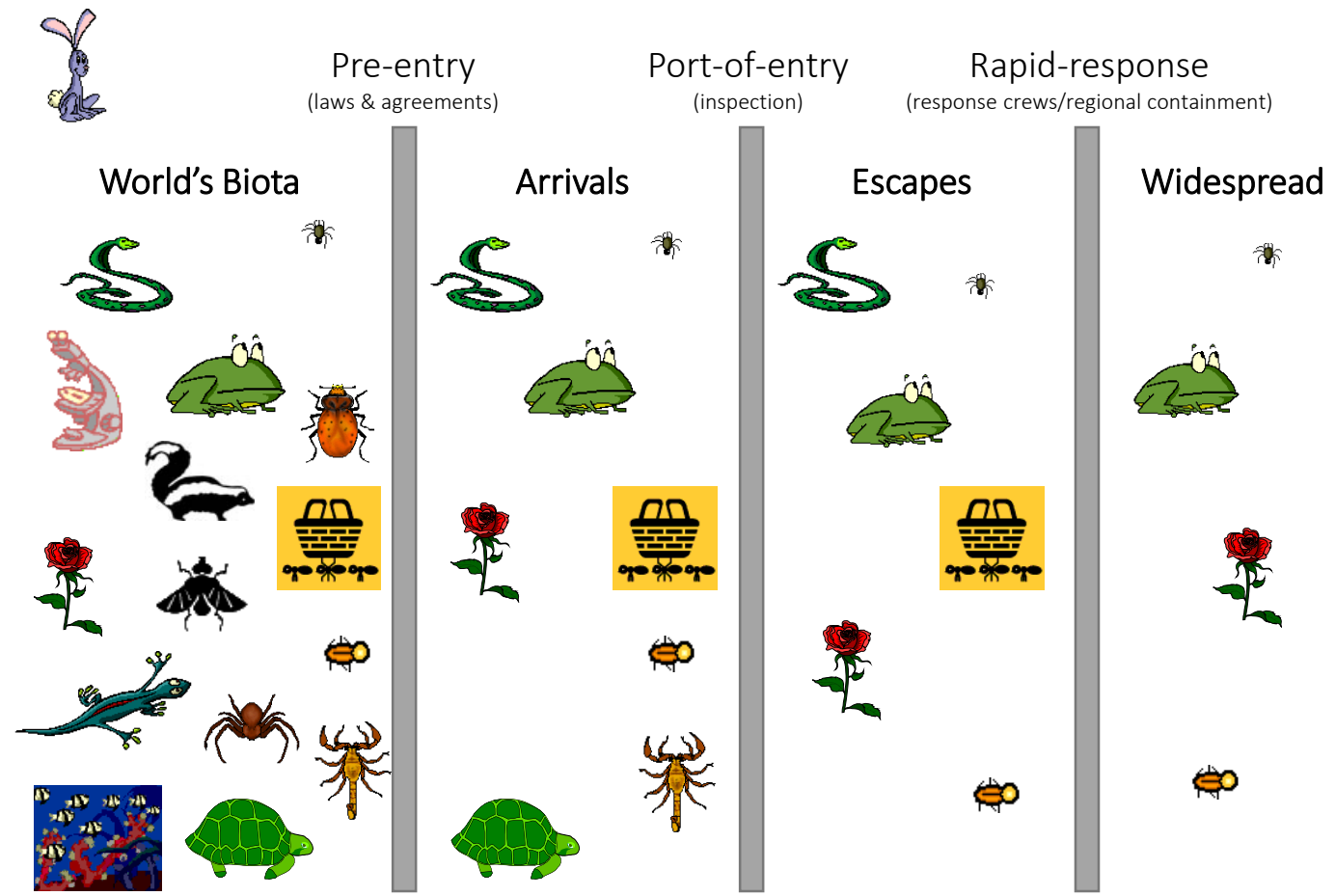


Current challenges for
Australian plant
biosecurity.

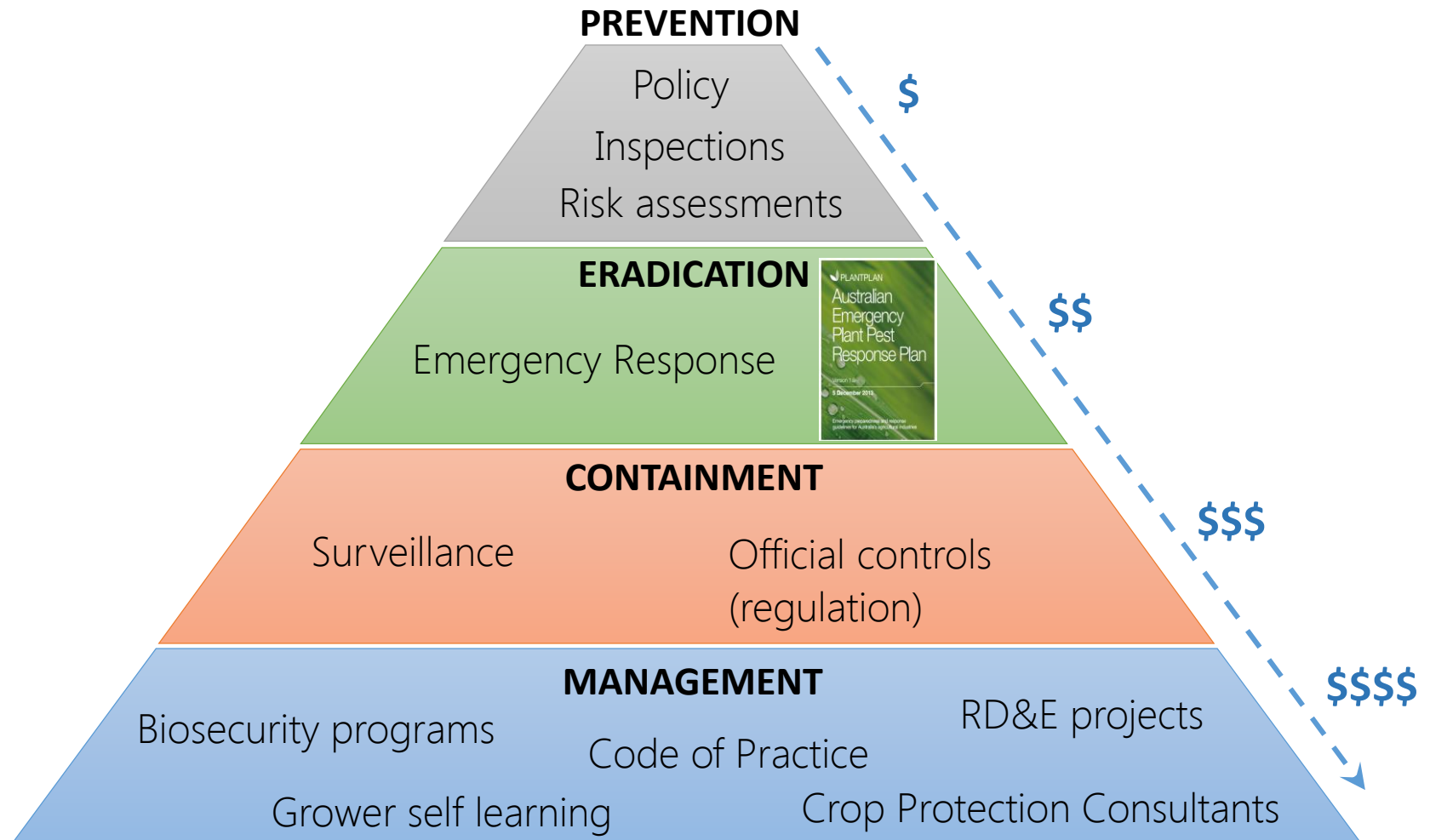
Current biosecurity
initiatives.



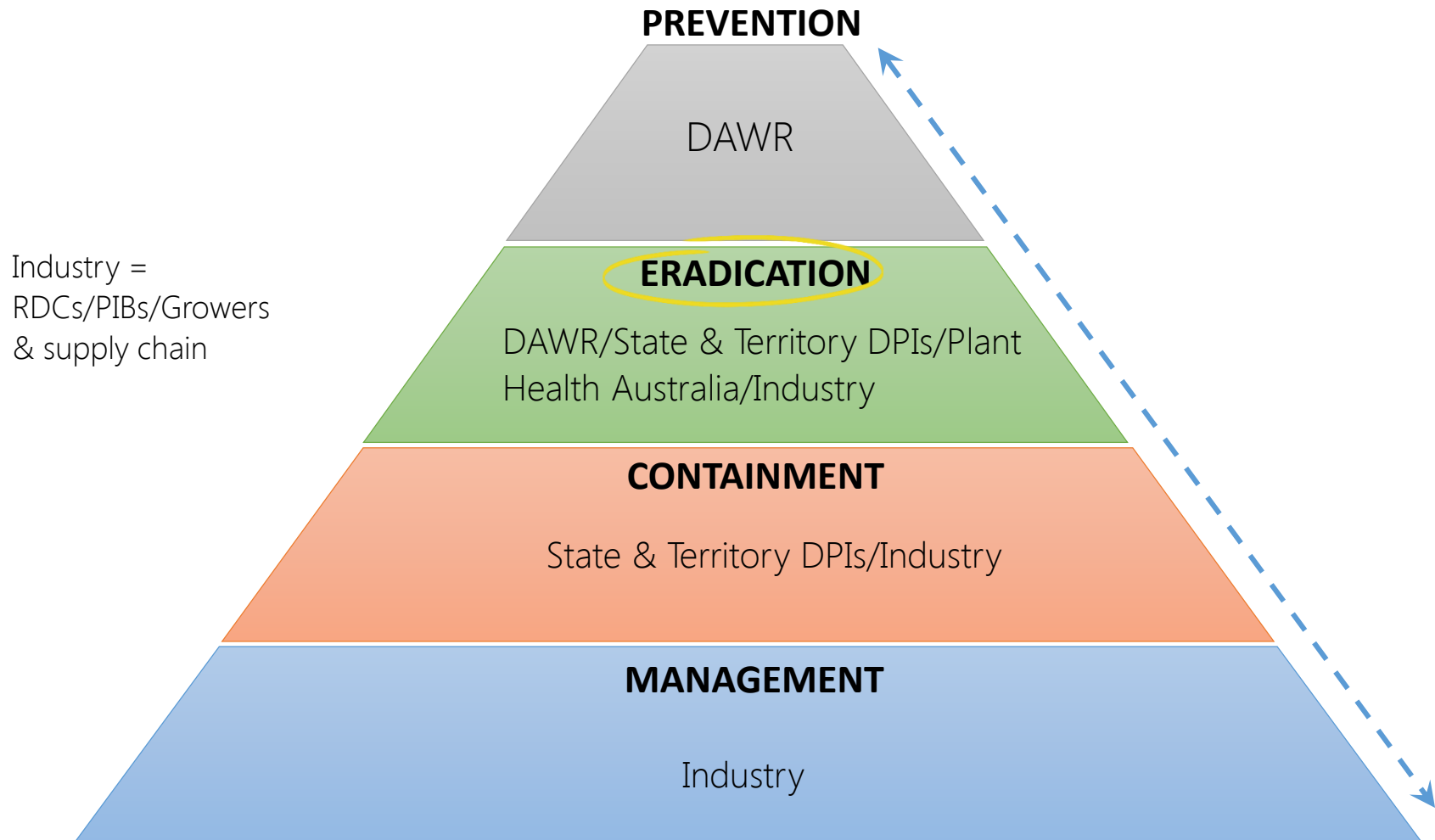
Australian Biosecurity



Australian Biosecurity



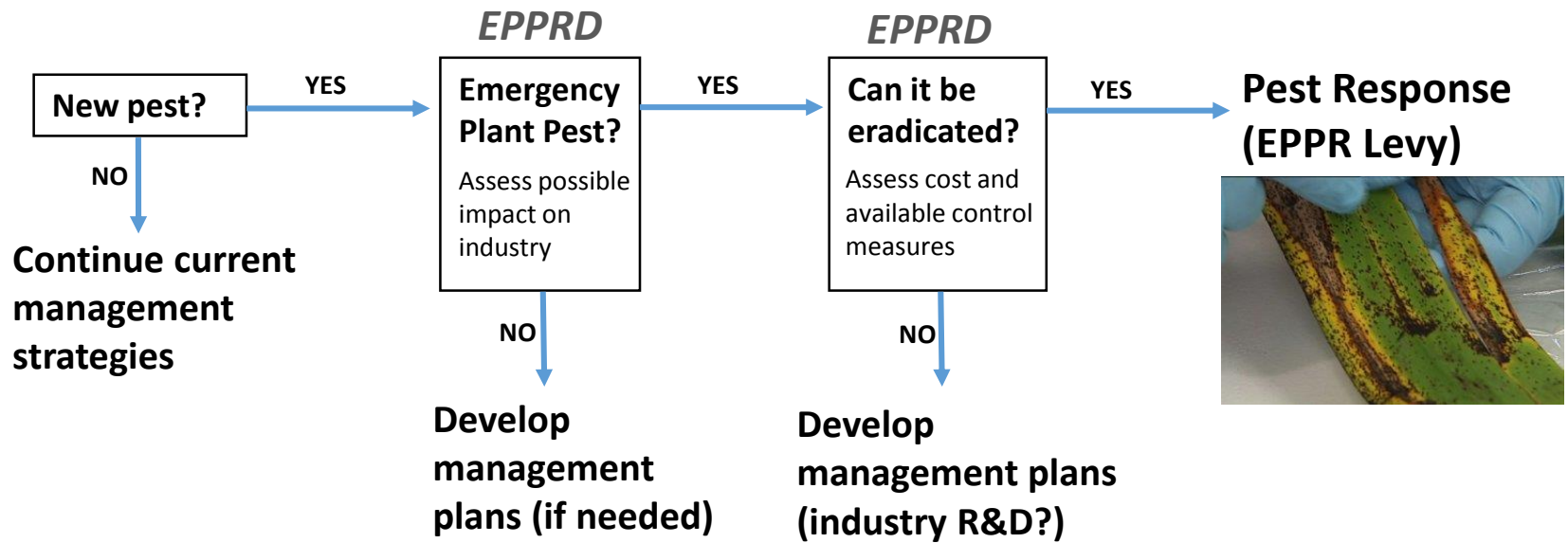
Australian Biosecurity



Australian Biosecurity



Pest detection



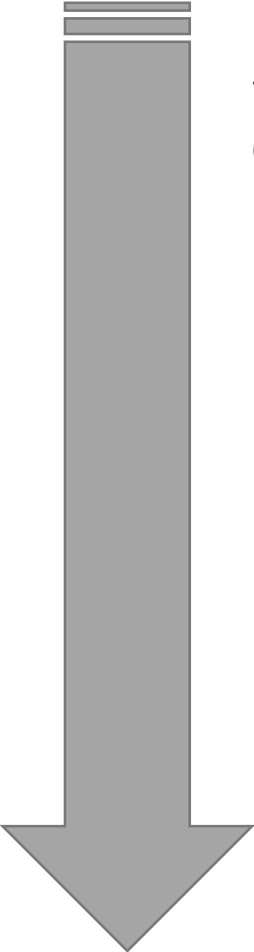
Picture Sources: Tomato Potato Psyllid – PBCRC, Banana Freckle – ABC, CGMMV – NTDPPIF.

EPPRD = Emergency Plant Pest Response Deed
EPPR Levy = Emergency Plant Pest Response Levy

Current challenges

In 'Australia's Biosecurity Future (2014)' the CSIRO suggests that the current status quo (processes and practices) may not be sufficient to combat these challenges in the future.

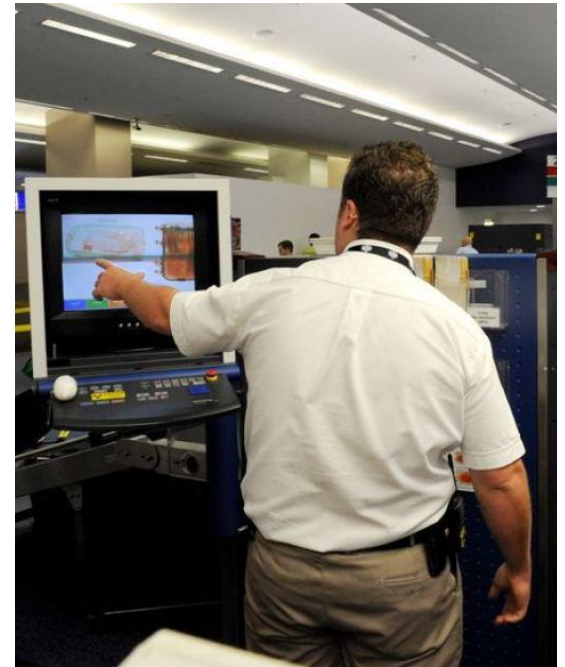
Plant Biosecurity Resourcing



1981 - Commonwealth Extension Services Grants program was discontinued.

1996 - Nairn Review noted that incursions of EPPs was approx. 10 times more than for EAPs over the previous 25 years.

2008 - Beale Review urged the states to avoid further reducing their capability in biosecurity.





Transmission Pathways

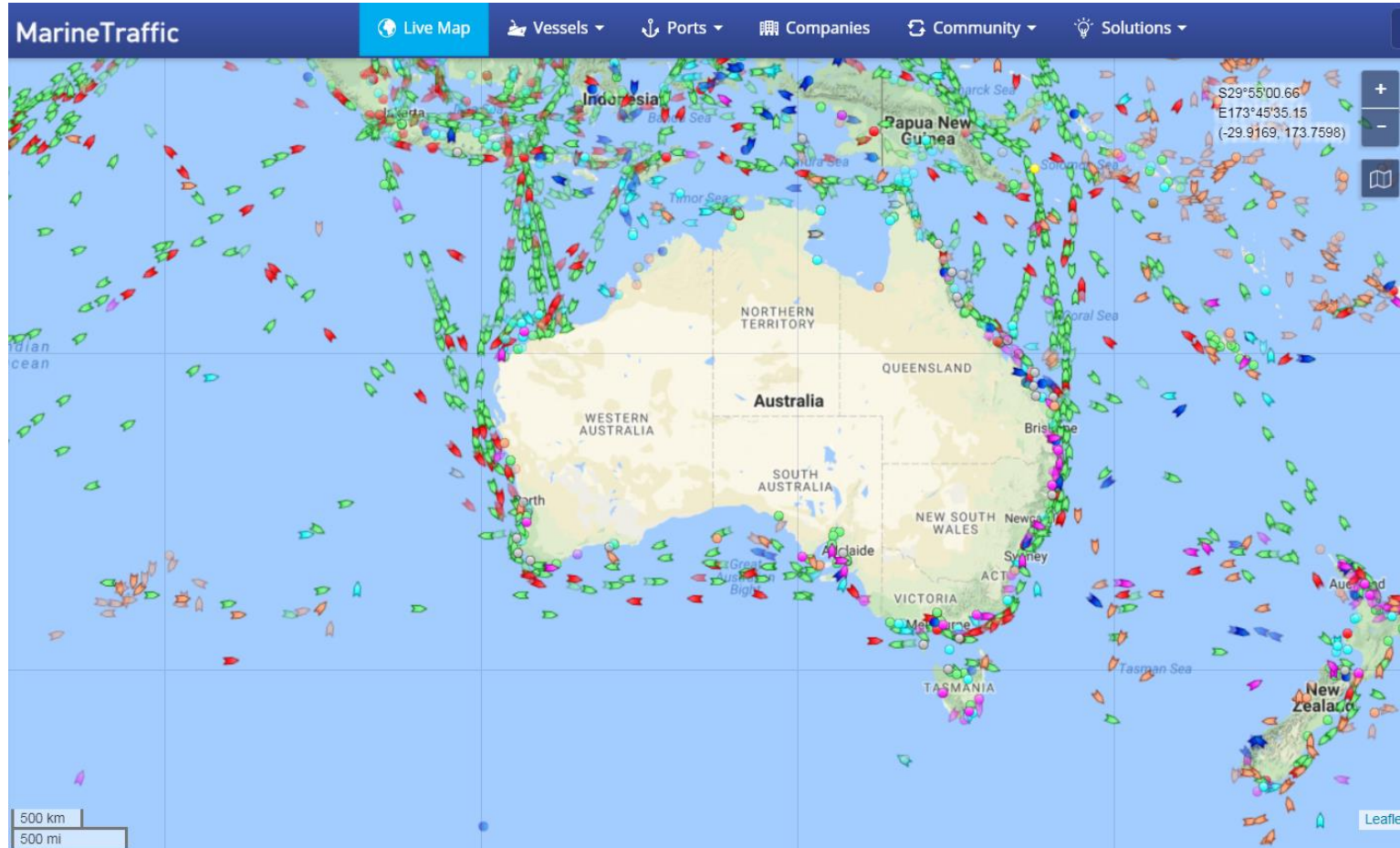


Australia has more than **70 ports** that support trade with every region of the world

876 cruise ships visited Australia's ports in 2014/15

Volume of sea trade expected to double over the next 20 years.

Transmission Pathways



Captured at 12.15pm
Monday 19 March 2018

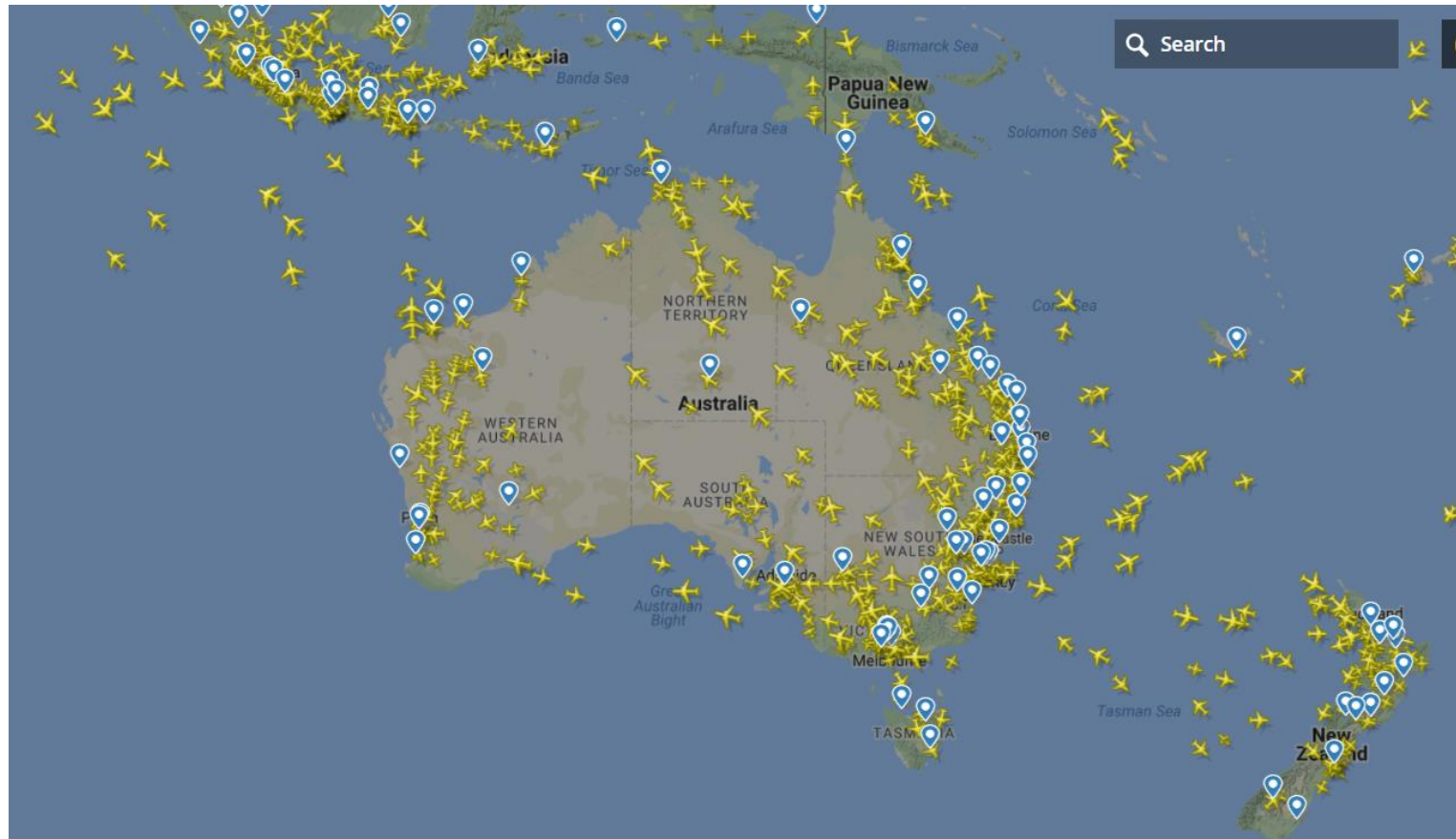


Transmission Pathways



The aircraft industry is expecting a **seven-fold** increase in air traffic by 2050

Transmission Pathways

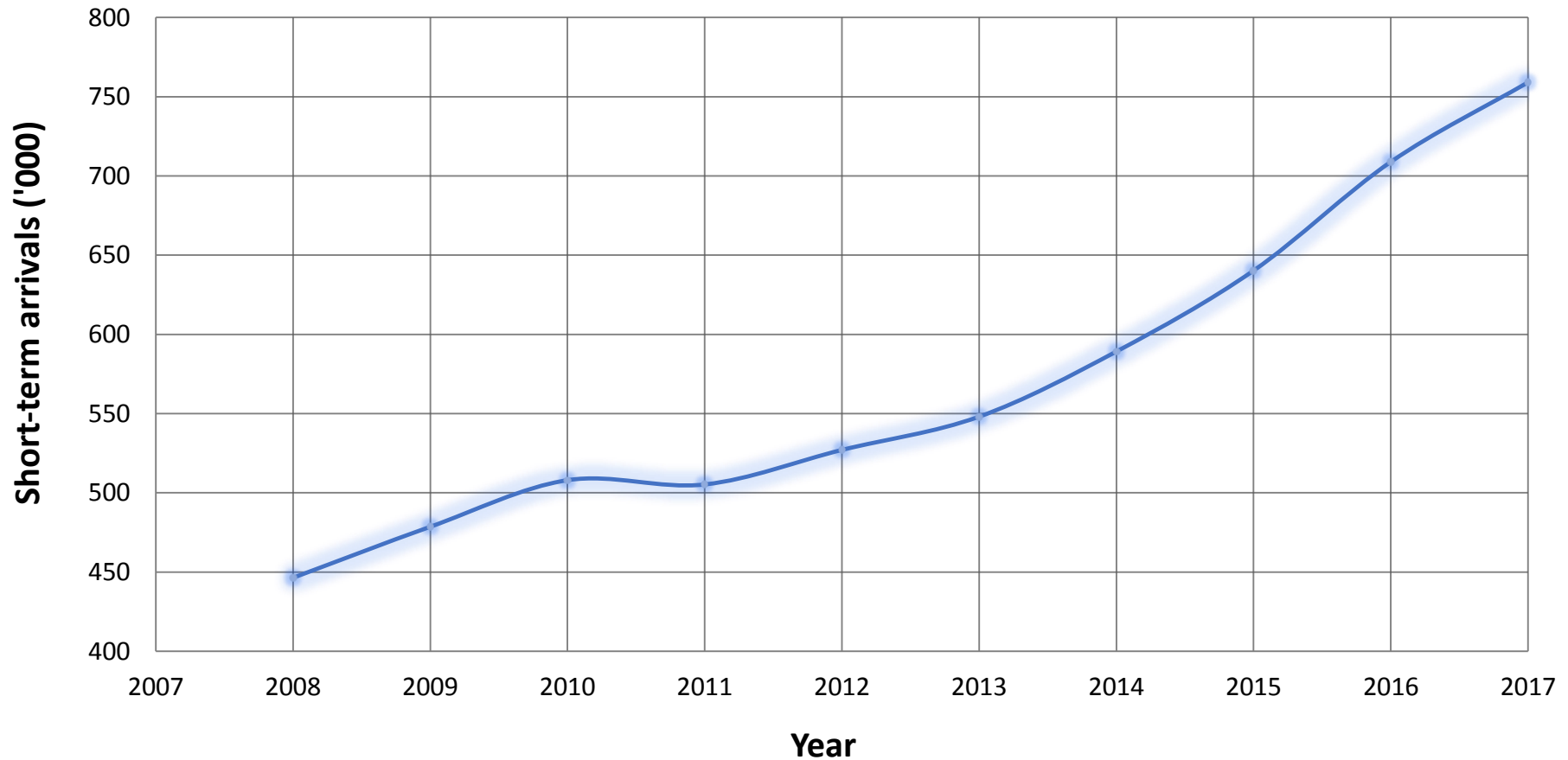


Captured at 12.20pm
Monday 19 March 2018



Transmission Pathways

Short-term arrivals to Australia 2008 – 2017 (November)



Recent Incursions

The Daily Telegraph

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Rural

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QLD Country Hour By Kallee Buchanan

Updated 2 March 2017 at 5:00 pm

First posted 2 March 2017 at 4:29 pm

The farmer at the centre of a devastati

Rural

Horticulture Livestock Fibre Grains Mining Markets Weather Programs

Varroa mite vigilance crucial as eradication program turns to a colourful bee-eater

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QLD Country Hour By Tom Major

Updated 23 August 2017 at 12:42 pm

First posted 12 July 2017 at 1:18 pm

It is a common dry season visitor throughout the tropical north, and now the rainbow bee-eater could hold the key to identifying the remaining varroa mite colonies that have made their way to Australia.

The biosecurity threat of a mite infestation could **cost Australia more than \$1 billion in lost production.**

When first detected in Townsville last year the varroa mite was found living on Asian honey bees, but authorities fear the virus-carrying mites could spread to European honey bees, Australia's largest producers of honey.



The rainbow bee-eater can eat hundreds of bees a day, making its pellets a valuable resource for authorities. (Supplied: Department of Agriculture and Fisheries)

QLD COUNTRY HOUR >

- Carbon farming: Killing the community or saving the world?
- Beekeepers turn to satellite tracking systems to halt hive theft
- Illegal mobile boosters causing dangerous drop-outs in outback
- Spate of Queensland fruit fly mango incursions prompts SA import concern
- Bakers find little delight in rising costs of flour and butter

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Horticulture

West Australian farmers have lo... year on from tomato potato psy

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ABC Rural By Joanna Prendergast, Kit Mochan, Tyne Logan and Jon Daly

Updated 28 February 2018 at 7:29 am

First posted 28 February 2018 at 6:15 am





Current Biosecurity Initiatives

Vegetable & Potato Biosecurity Program

Plant Health Levy funded (2016-2019)

1. Communication
2. Farm Biosecurity
3. Preparedness
4. Response
5. Urban Biosecurity



ausveg.com.au/cropprotection

MT16006: Vegetable Leafminer Preparedness (2017-2020)

Destructive agricultural pest with host range of over 300 plant species.

Now found on Cape York Peninsula.



This project has been funded by Hort Innovation, using the vegetable and nursery research and development levies and contributions from the Australian Government. Hort Innovation is the grower-owned, not-for-profit research and development corporation for Australian horticulture.

MT16018: National Tomato Potato Psyllid Coordinator (2017-2020)

Alan Nankivell, formally of the Plant Biosecurity Cooperative Research Centre (PB CRC), began on 16 October.

Prepare industry to manage Tomato Potato Psyllid and assess strategic R&D.

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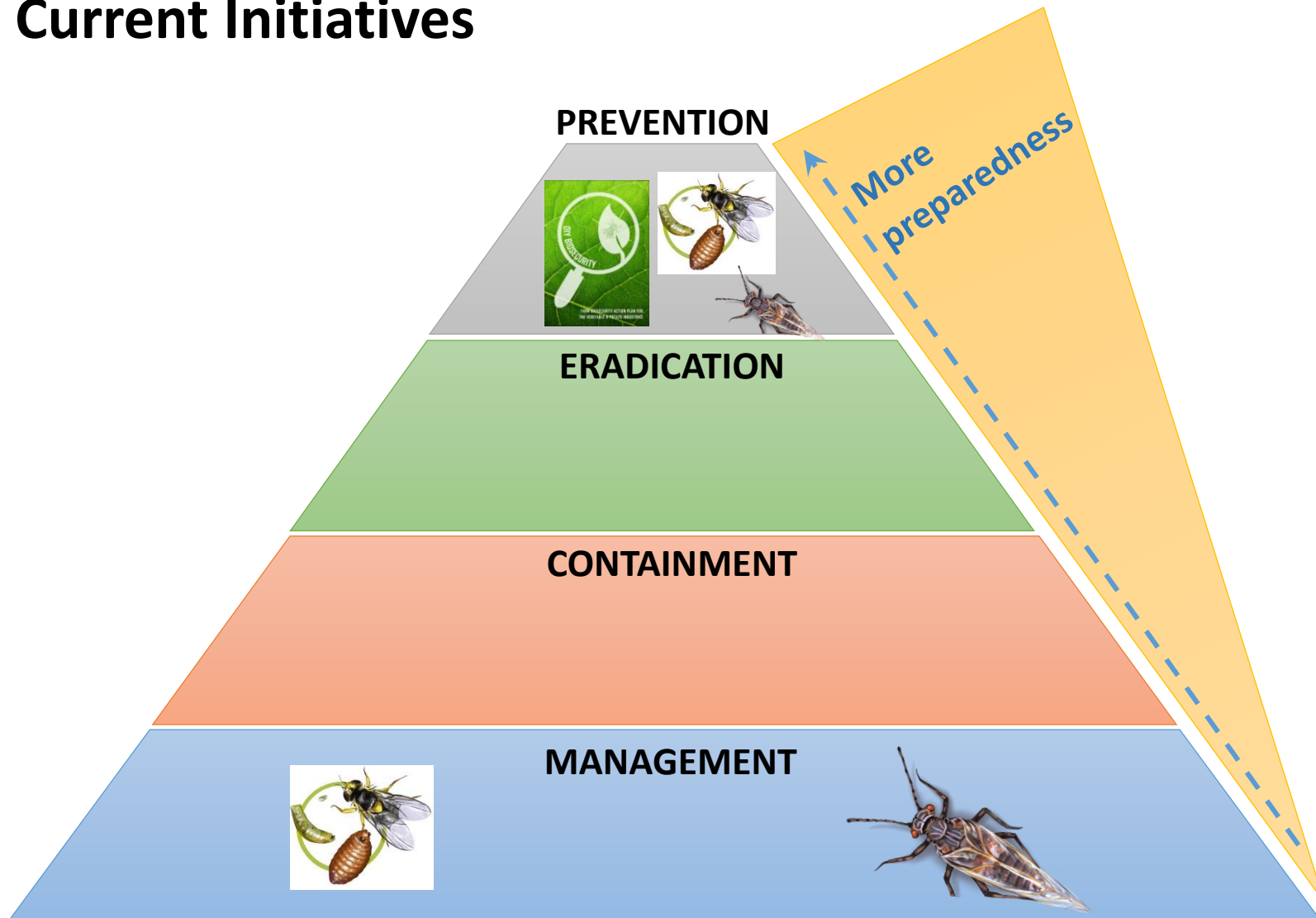
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Hort Innovation

This project has been funded by Hort Innovation, using the fresh potato, potato processor, and vegetable research and development levies and contributions from the Australian Government. Hort Innovation is the grower-owned, not-for-profit research and development corporation for Australian horticulture.

Current Initiatives



AUSVEG

Vegetable & Potato
Biosecurity
Program



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Thank You