



2022 NATIONAL LANDCARE CONFERENCE

**TUESDAY 23 TO THURSDAY 25 AUGUST, 2022
INTERNATIONAL CONVENTION CENTRE,
DARLING HARBOUR, SYDNEY**



PROUDLY SUPPORTED BY





Environmental Biosecurity

Working together to protect what we love

Shalan Scholfield, Environmental
Biosecurity Office

















What is environmental biosecurity?



The management of risks to the natural environment, and to social amenity, of pests, weeds and diseases entering, emerging, establishing or spreading

The impacts



Photo credit: Brisbane Council



Photo credit John Hosking, NSW DPI



Photo credit Royal Botanic Gardens Syd

Social amenity & way of life



Photo credit: UC Riverside

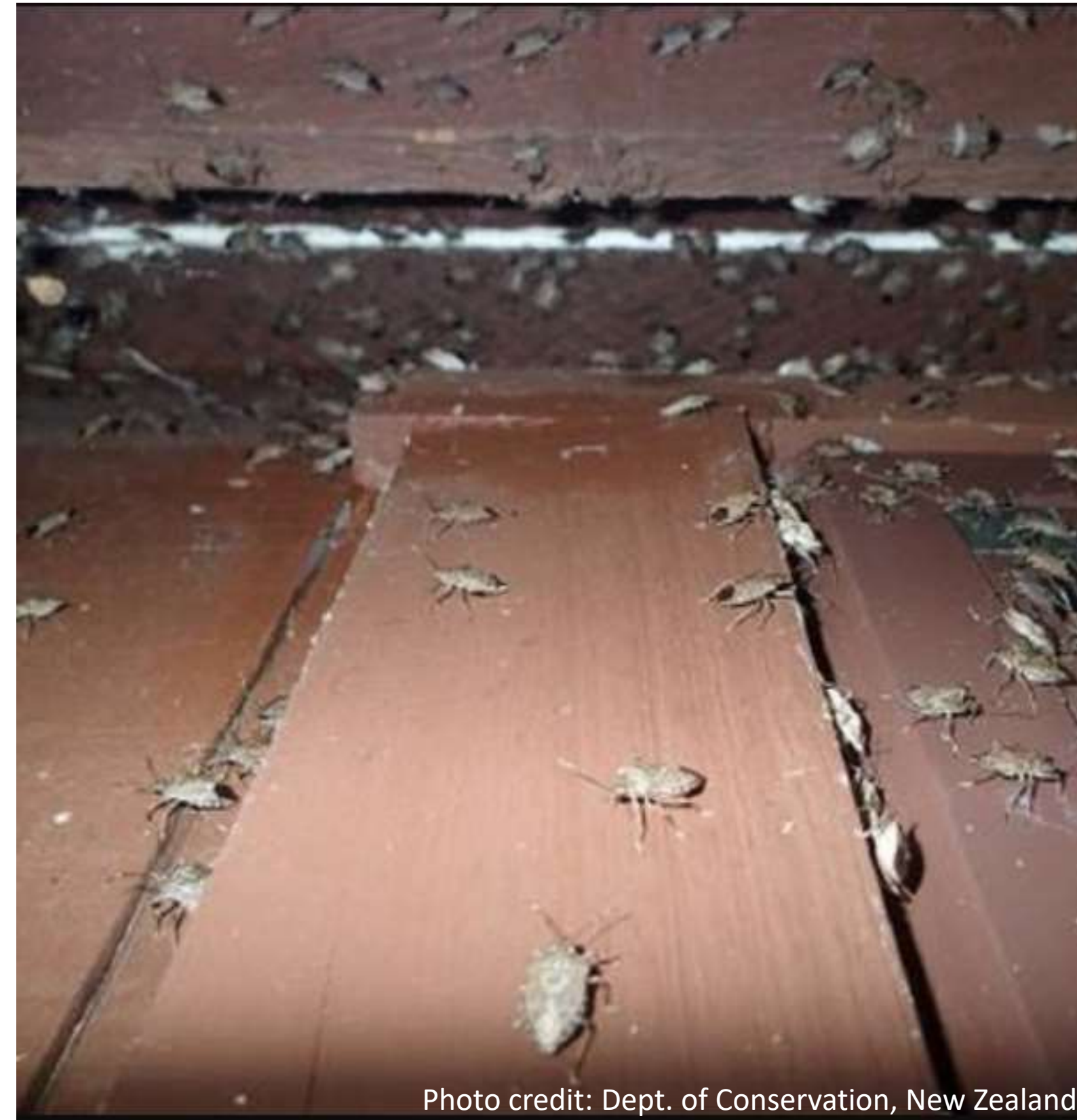


Photo credit: Dept. of Conservation, New Zealand



Photo credit: Texas Agric. Extension service

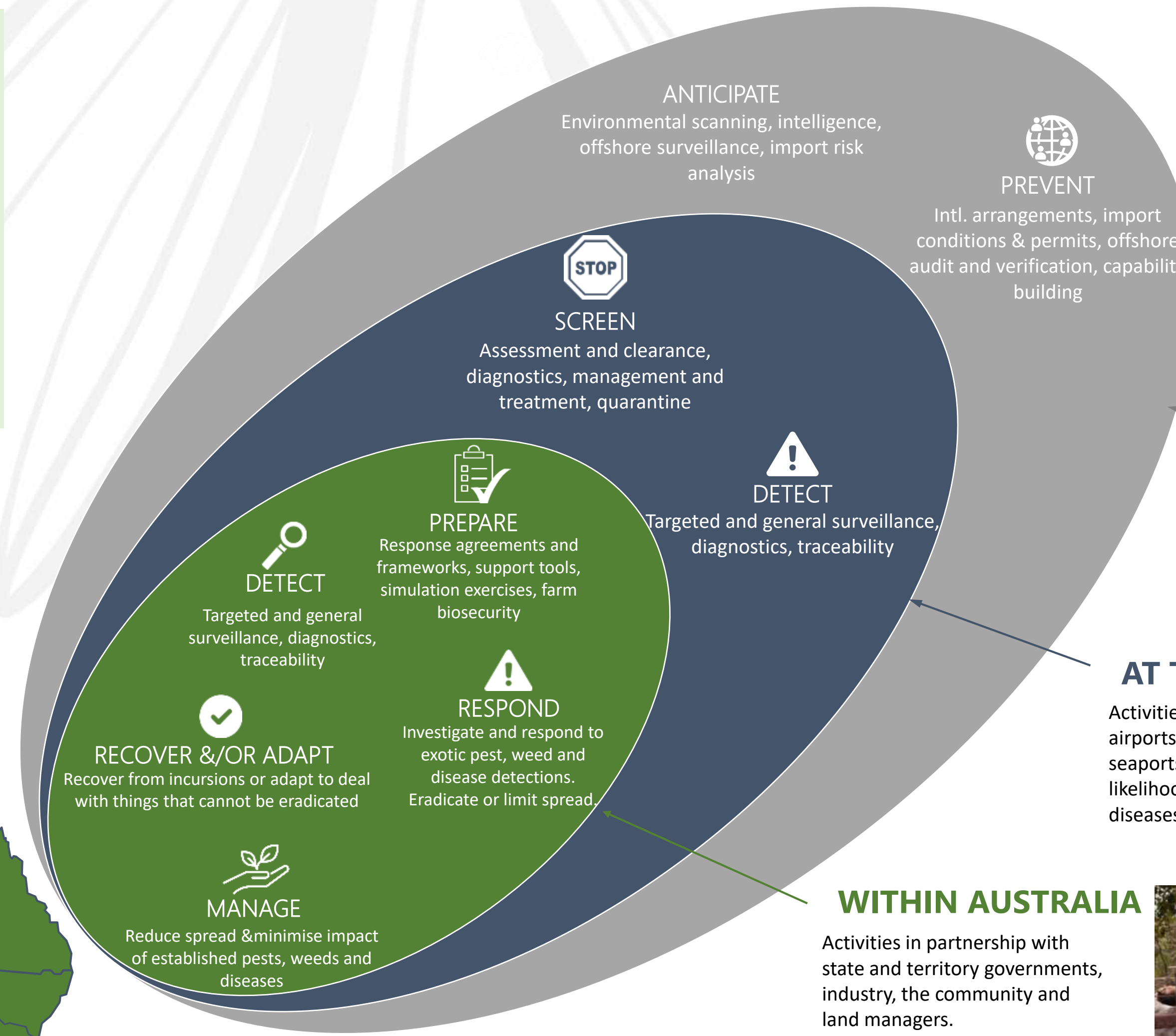
Australia's biosecurity system



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The goal of the national biosecurity system is to minimise adverse impacts of pests and diseases on Australia's economy, environment and the community while facilitating trade and the movement of plants, animals, people and products.

Intergovernmental Agreement on Biosecurity



OFFSHORE

Activities undertaken offshore to reduce the biosecurity risk associated with imported goods and natural pathways and keep the risks offshore.



AT THE BORDER

Activities in international airports, mail centres and seaports to reduce the likelihood of new pests and diseases entering the country.



WITHIN AUSTRALIA

Activities in partnership with state and territory governments, industry, the community and land managers.



Environmental biosecurity risks captured at the border in 2022



On imported cars



Iguana iguana (actual specimen)



In shipping containers



Calotes versicolor (DAWE image –actual specimen)



In/on imported goods



Ailanthus altissima (tree of heaven) seeds intercepted on packaging (Image – DAWE)



Imported flowers contaminated with weed seed



Mikania micrantha seed intercepted on *Chrysanthemum* sp. fresh cut flowers.



Chromolaena odorata (Siam weed) seed intercepted during vehicle surveillance



Online shopping – illegal import of tarantula



Solenopsis geminata (Pests and Disease Image Library (PaDIL) image).



Nylanderia vaga (AntWiki)



Left: Therophosidae cf. *Psalmopoeus irminia* Right: Therophosidae cf. *Nhandu chromatus* (Department of Agriculture, Water and the Environment (DAWE))

Toad-ally unbelievable



The toad was found in the shoe of an unsuspecting passenger at Cairns Airport. DEPARTMENT OF AGRICULTURE AND WATER RESOURCES



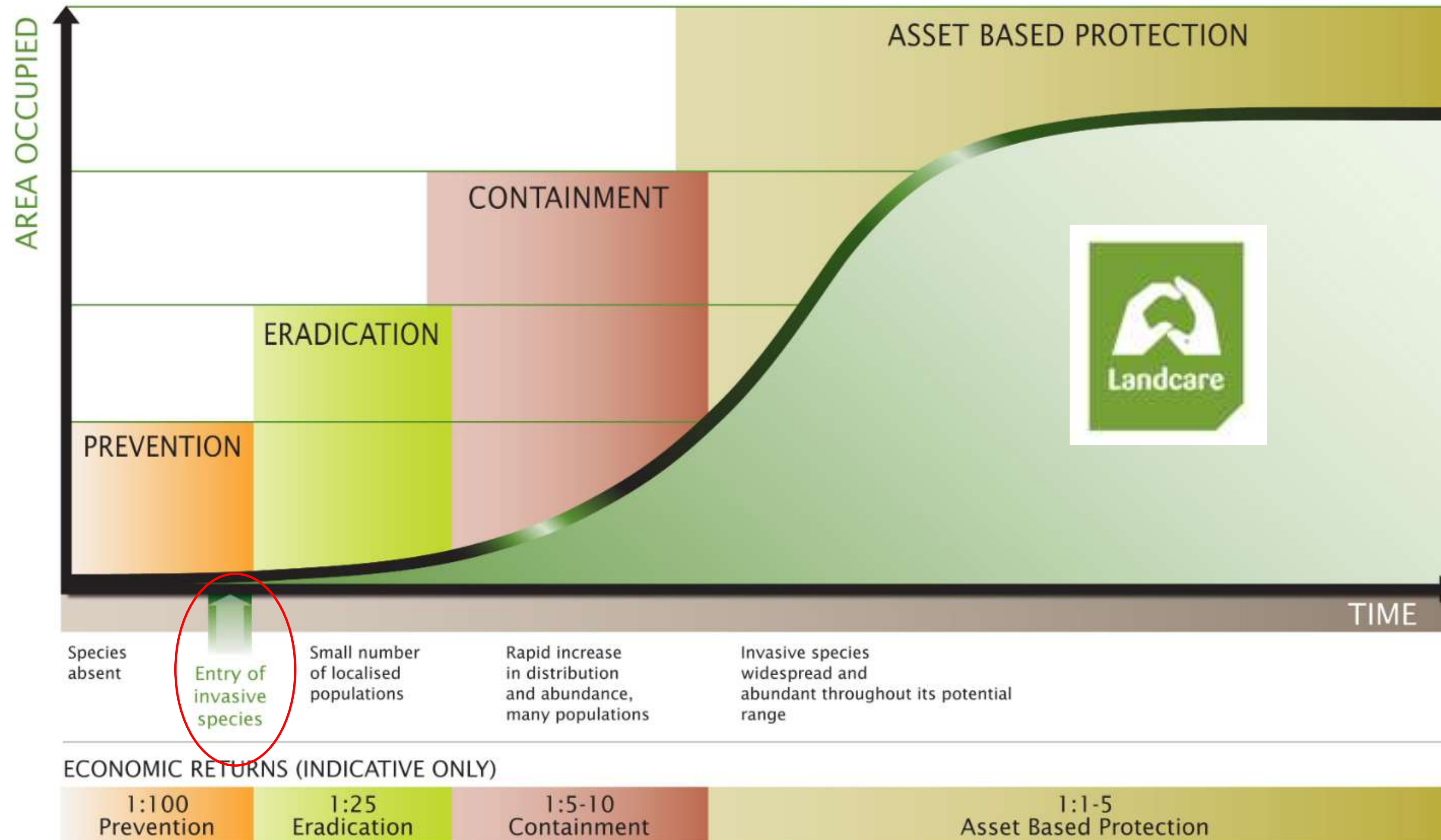
credit: Cairns airport

Invasion curve



GENERALISED INVASION CURVE SHOWING ACTIONS APPROPRIATE TO EACH STAGE

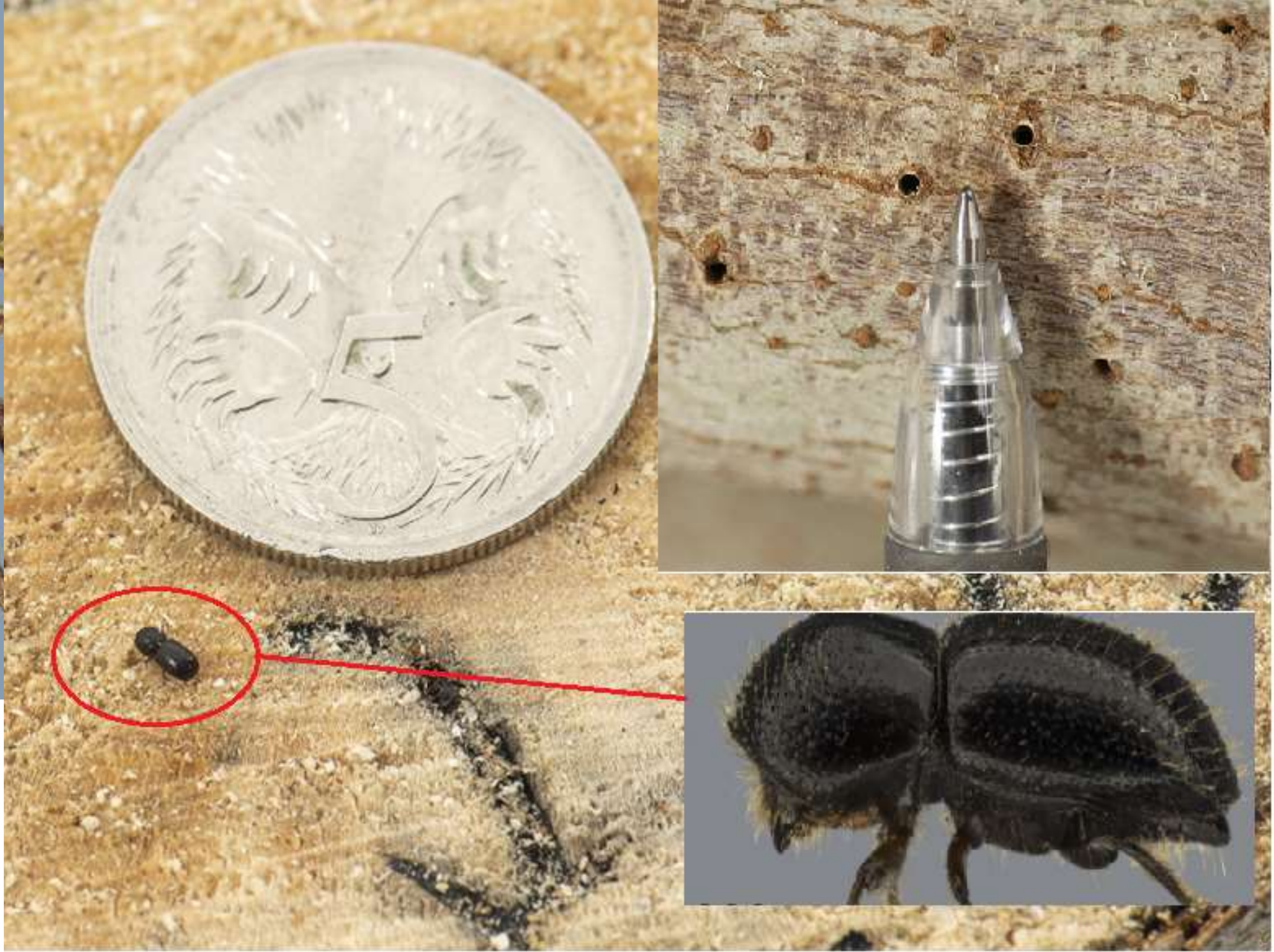
Version 1.0: 30 APR 2009



How you can help community biosecurity in action



Brett Burdett discovered an influx of dangerous khapra beetles in Australia after he found them in his new fridge. Picture: Dion Georgopoulos



Polyphagus shot-hole borer in a maple tree. Photo courtesy P Scanlon DPIRD, WA.



Seen something unusual? Report it, even if you're not sure.
outbreak.gov.au/report-outbreak

General surveillance & citizen science



 Australian Government
Department of Agriculture,
Water and the Environment
ABARES

Guidelines for General Surveillance Programs

INSIGHTS AND CONSIDERATIONS
FROM SYSTEMS THINKING AND
NINE CASE STUDIES

Heleen Kruger • Jen Ticehurst • Alex van der Meer Simo

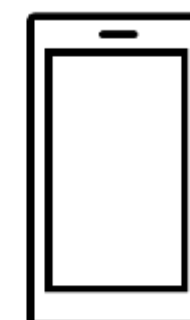
Research Report 22.03
February 2022



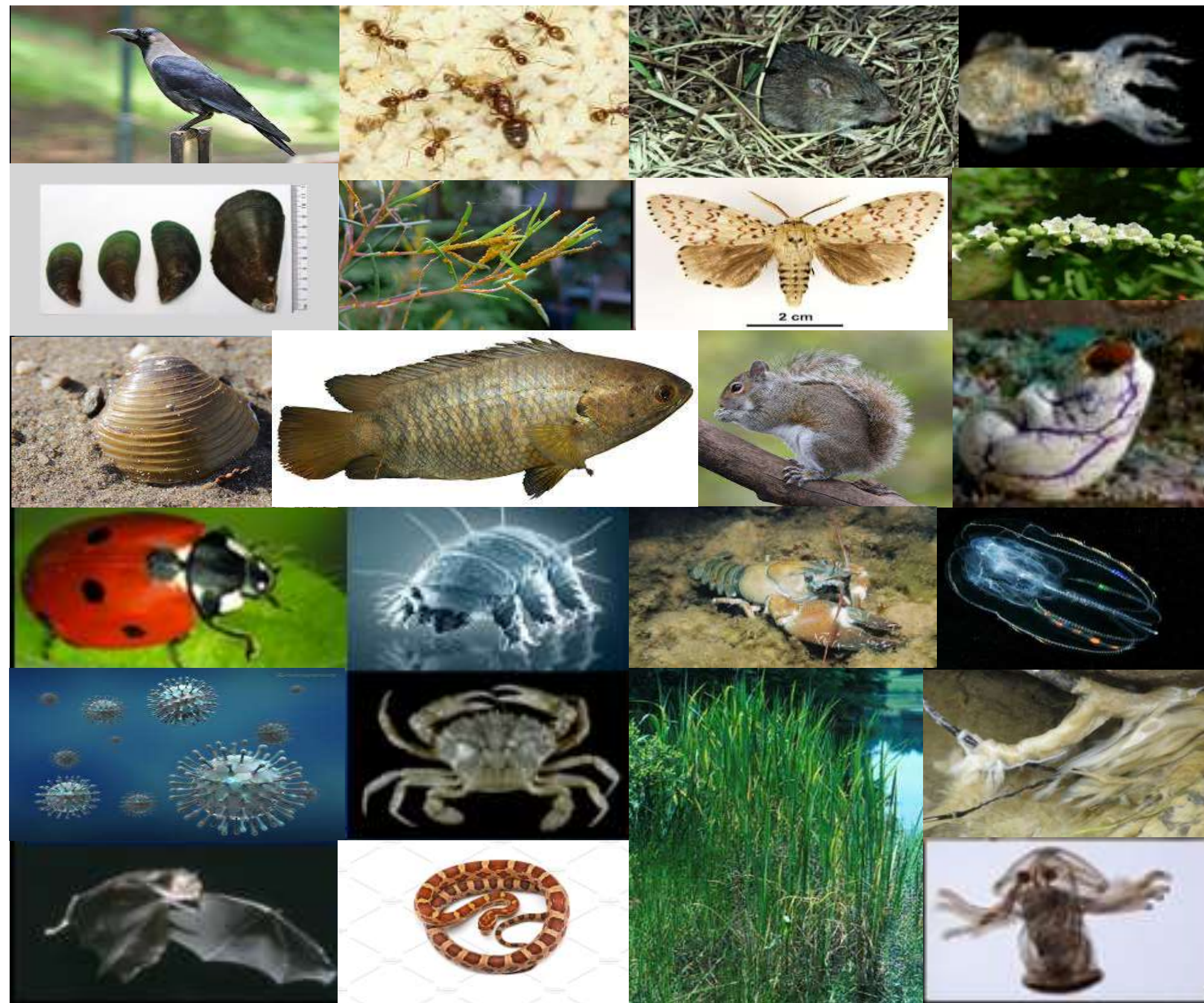
Image: Landcare Tasmania



agriculture.gov.au/abares/research-topics/social-sciences/making-general-surveillance-work/guidelines



National Priority List of Exotic Environmental Pests Weeds and Diseases



- Released in November 2020
- 168 pests, weeds and diseases that pose the greatest biosecurity risk to Australia's environment or social amenity
- Eight biological or ecological groupings that cover:
 - Aquatic animal diseases
 - Freshwater invertebrates
 - Marine pests
 - Plant diseases
 - Terrestrial invertebrates
 - Vertebrates
 - Weeds and freshwater algae
 - Native animal diseases (wildlife diseases)



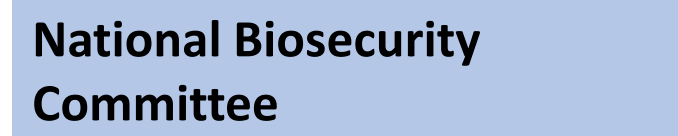
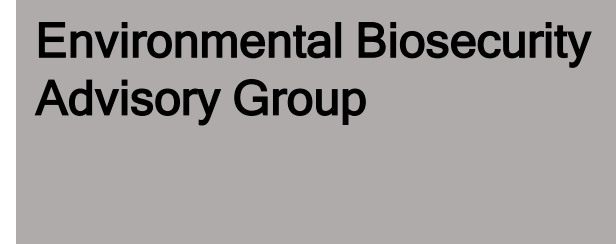
Diseases changing our landscapes forever



Photos: (left) Wildflowers on Mondurup Peak, Stirling Range before Phytophthora dieback (Robert Olver), (right) Mondurup Peak, Stirling Range after Phytophthora dieback (Department of Parks and Wildlife WA)

The Chief Plant Protection Officer and Chief Environmental Biosecurity Officer at a Myrtle Rust field trip at Tallebudgera, QLD. Inset: Myrtle Rust affected leaf at Tallebudgera. Credit: Oliver Tester

Delivering shared outcomes



- 2019 workshop with NRM Regions on biosecurity
- \$5 million to support prickly acacia weed management in QLD
- 3-yearly national survey of agricultural land managers
- Developing program with NSW DPI to help Indigenous Rangers and other land managers with biosecurity

Future opportunities

- \$9.8 million to scale-up work to control Gamba Grass
- National Established Weed Priorities Framework
- The Decade of Biosecurity Initiative (2021-2030)

The future is in our hands



Management

- Landcare! Keep up the fight against established pests, weeds and diseases
- Restore and regenerate landscapes to build resilience



Surveillance

- Keep a look out for signs of pests or disease in the areas you work or travel
- If you see something that doesn't look right
 - ✓ Take a picture
 - ✓ Record the location
- ✓ Report it to your local state or territory biosecurity authority



Arrive clean, Leave clean

- Clean boots and equipment when travelling between areas
- Check clothing, hats and vehicles for weed seeds



agriculture.gov.au/sites/default/files/documents/arrive-clean-leave-clean.pdf





THANK YOU



For more information on environmental biosecurity visit:
agriculture.gov.au/biosecurity-trade/policy/environmental

Or email: acebo@agriculture.gov.au

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