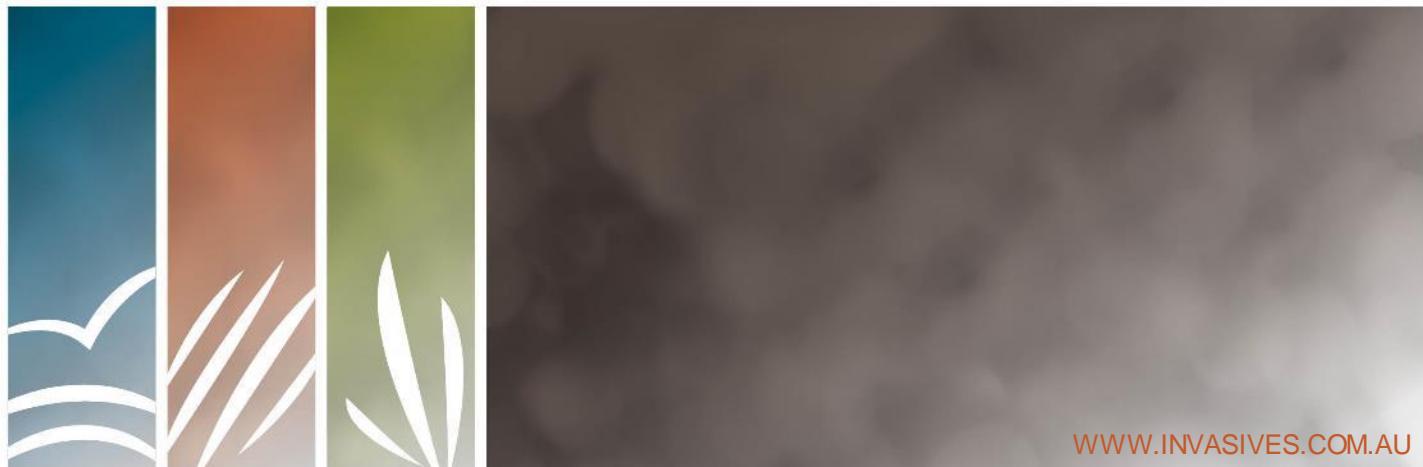


Centre for Invasive Species Solutions: Latest Developments

HELEN CATHLES, CHAIR – CISS GOVERNING BOARD

ASWGA SEMINAR, ARMIDALE, 18 MAY 2019



Collaborative, agile RD&E platform: 17 Members and Partners

Members



Partners



CENTRE FOR
INVASIVE SPECIES SOLUTIONS

Strong leadership and governance

Our Board



Helen Cathles

Chair



Murray Rankin

Director



Peter Noble

Director



David Palmer

Director



Dr Glen Saunders

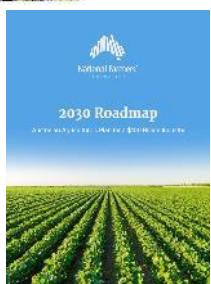
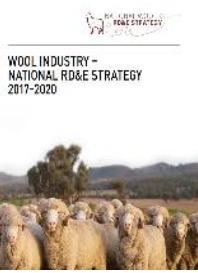
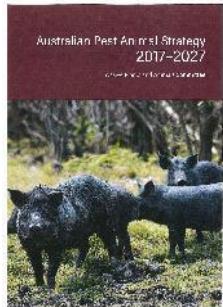
Director



Jan Ferguson

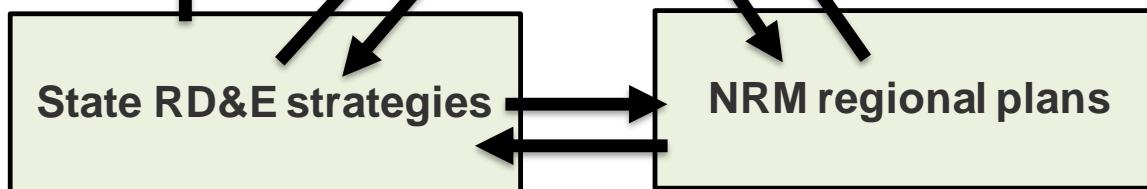
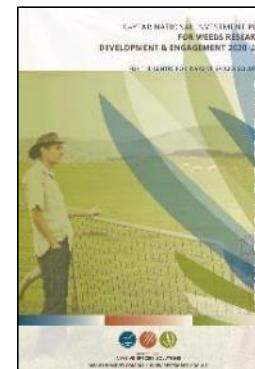
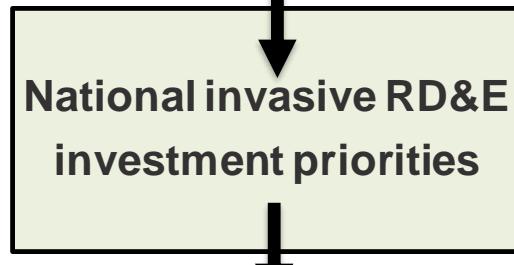
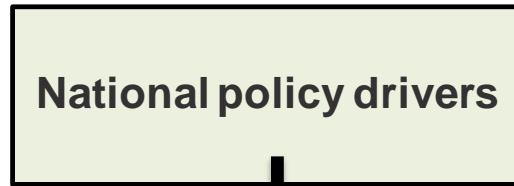
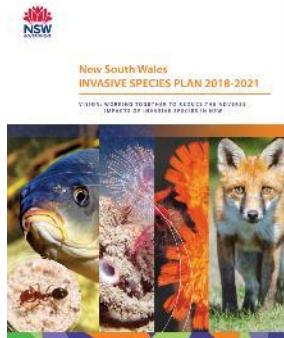
Director

How we set CISS RD&E portfolio priorities



"National and international collaboration for pest animal and weed research is facilitated through the Centre for Invasive Species Solutions"

NSW Invasive Species Plan, 2018-2021, p.10



CISS in Practice

Portfolio One: Vertebrate pests focused (21 projects)

PORTRFOLIO ONE SUMMARY
NEW PEST ANIMAL AND WEED MANAGEMENT TOOLS AND STRATEGIES THROUGH
COLLABORATIVE RESEARCH, DEVELOPMENT AND ENGAGEMENT

WWW.INVASIVES.COM.AU • WWW.PESTSMART.ORG.AU

- Australia's largest national deer management R&D program



- 20 year rabbit biocontrol R&D pipeline (2nd 5 year plan)



- National incursions response framework + detection tech.



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INVASIVE SPECIES SOLUTIONS



PESTSMART

Recommendations for a long-term rabbit biocontrol research and innovation plan

Tanja Strive, CSIRO (Compiler)

2016

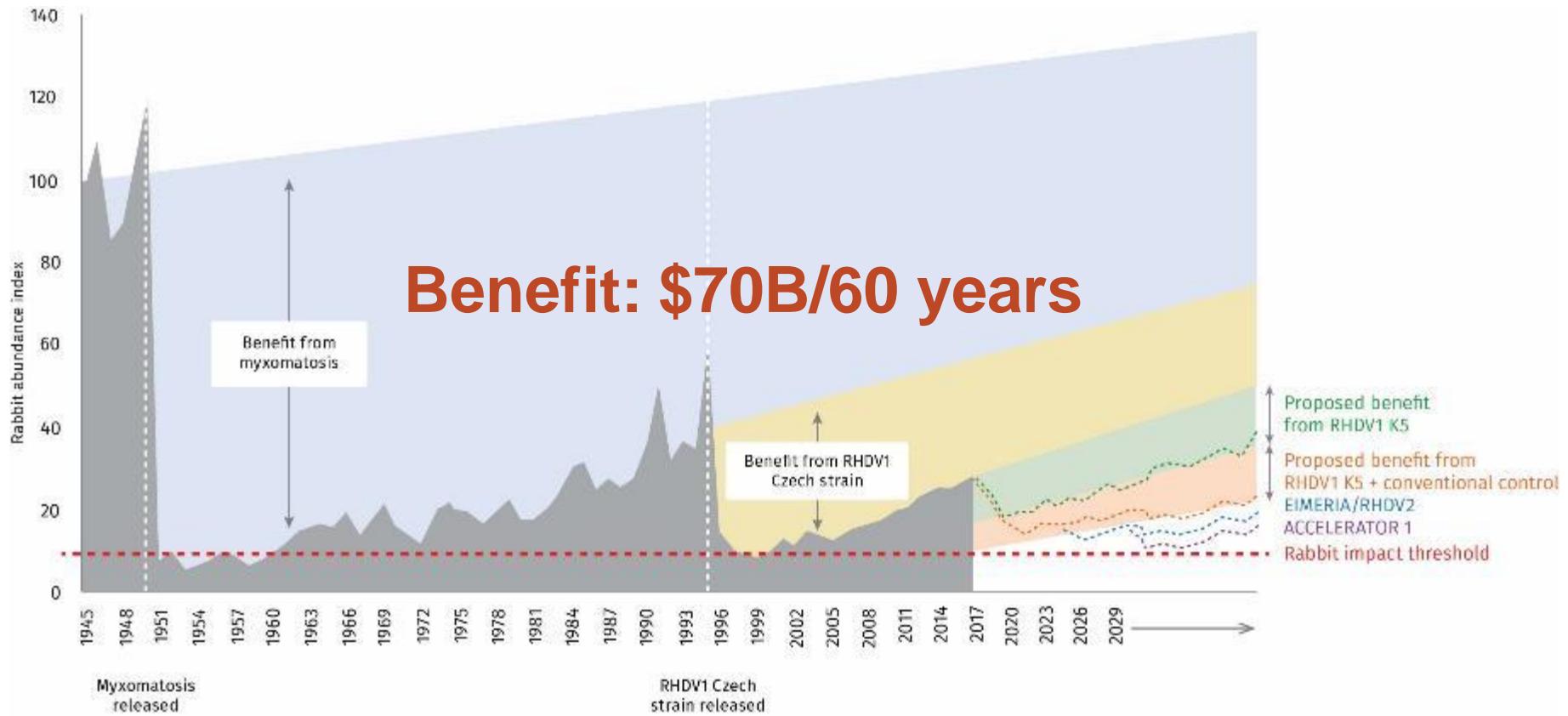
An Invasive Animals CRC Project

Invasive Animals CRC

Australian Government
Department of Industry,
Innovation and Science

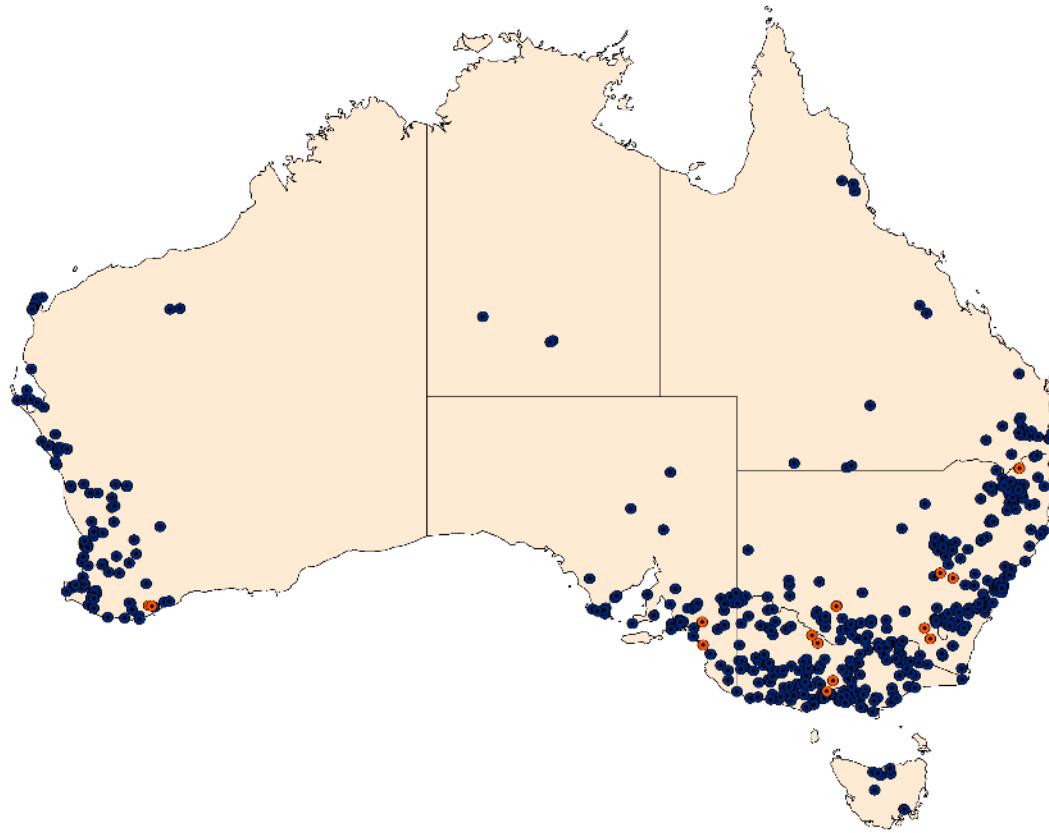
Business
Cooperative Research
Centres Programme

Rabbit Biocontrol Innovation Pipeline



RHDV1 K5 release: first biocontrol agent in 20 years

Sustained collaborations + community power = 323 release sites



Large-scale community-led wild dog planning and mgt: strategic integrated approach



New technology
(Wild Dog Alert / Wild DogScan dashboard,
e-technology hub/
intellitrap, PAPP lethal
trap device)

**Community planning
and cooperation**
(National Wild Dog
Management Coordinator,
WildDogScan, PestSmart
BPM toolkit)

Large-scale mgt
- RESET (NSW)
- Cluster fencing
(Qld, WA)



On the ground: community-led pest management system

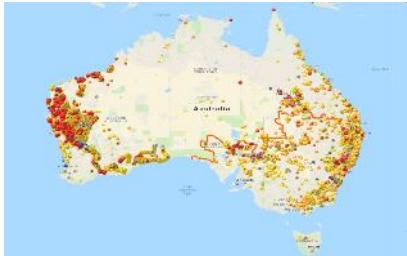
Manual input



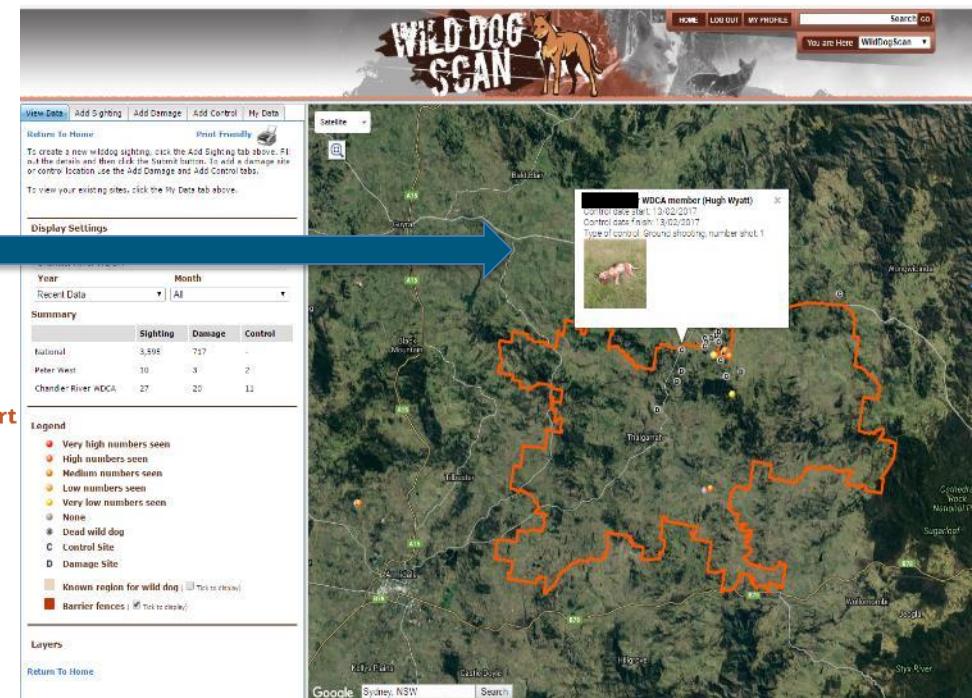
Automated input
and notification



WildDog Scan:
National area of usage



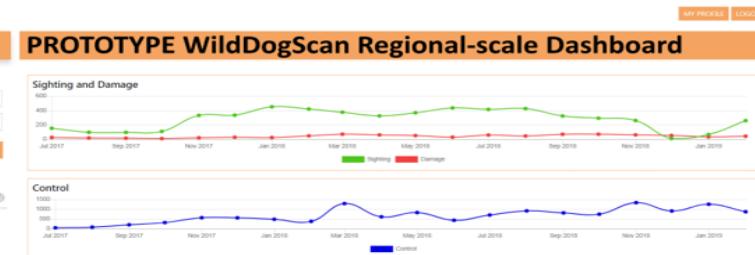
Strategic adaptive management



Planning Guides



Tools



COMMUNITY ENGAGEMENT FOR COLLECTIVE ACTION



A HANDBOOK FOR PRACTITIONERS



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PennState
College of Agricultural Sciences

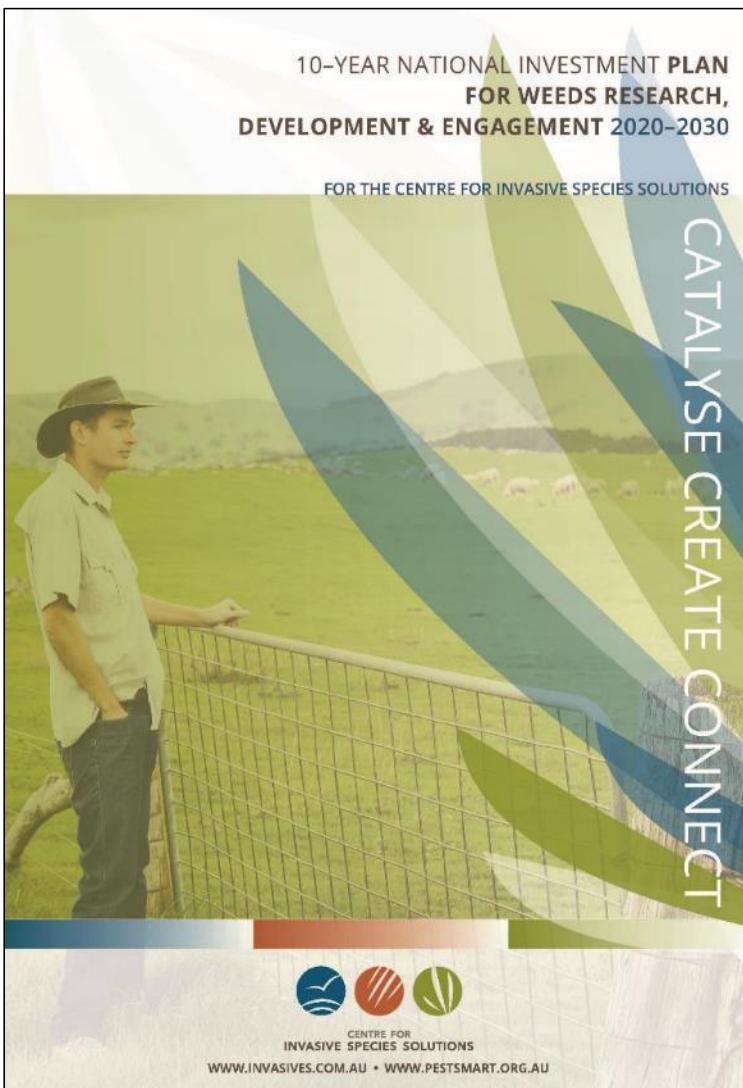


University of
New England

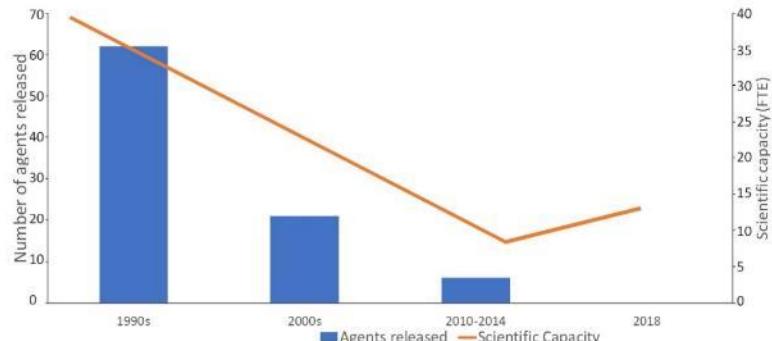


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Proposed Portfolio Two: Weeds focus

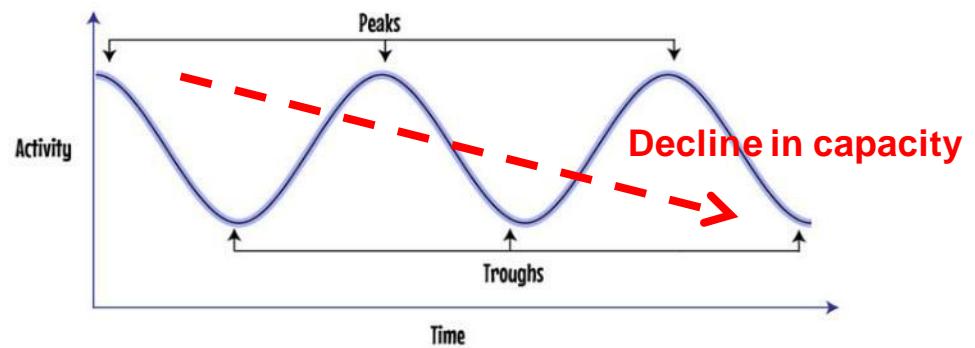


Number of weed biocontrol agents released in Australia vs biocontrol scientific capacity (FTE)



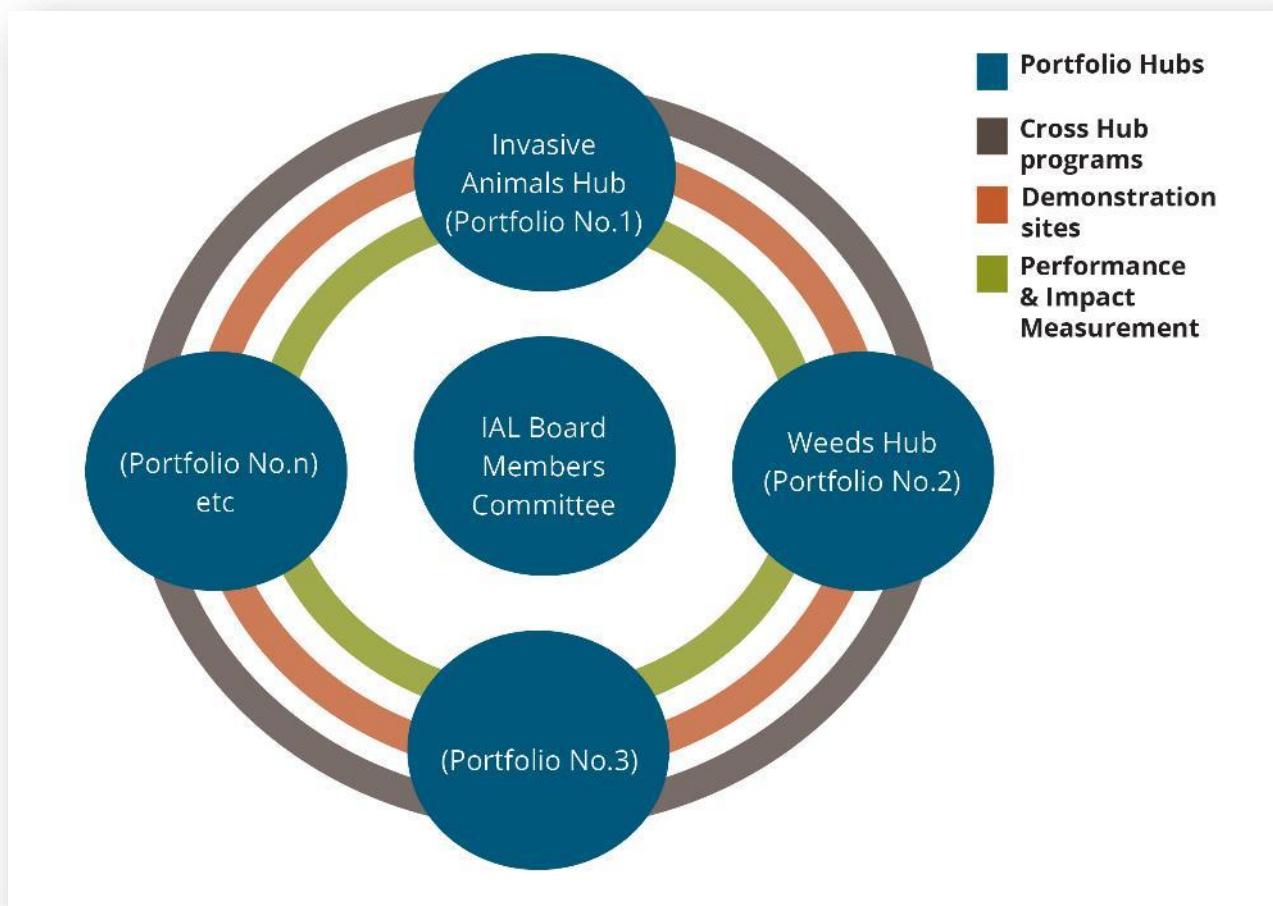
Source: Winston et al. (2014), Palmer et al (2014), Louise Morin, CSIRO (2018) pers. comm

Strategic technology R&D needs long term sustained investment



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Portfolio Hub Model: Efficient delivery of large-scale collaborative invasive species RD&E



Portfolio One: Vertebrate pests focused (21 projects)

The image shows the front cover of a document titled 'PORTFOLIO ONE SUMMARY'. At the top is the logo for 'CENTRE FOR INVASIVE SPECIES SOLUTIONS' featuring three stylized circular icons (blue, red, green) representing water, fire, and vegetation. Below the logo is a photograph of a rural landscape with rolling hills under a blue sky with white clouds. A horizontal bar across the middle of the cover has three colored segments: light blue labeled 'COLLABORATION', orange labeled 'INNOVATION', and green labeled 'IMPACT'. At the bottom of the cover are five small circular icons representing different themes: a crossed-out plant (weed control), a sun over a road (habitat management), a network of dots (innovation), a computer monitor with a smartphone (technology), and a group of people (engagement). The bottom section of the cover is a solid green color with the text 'PORTFOLIO ONE SUMMARY' in white, followed by a smaller line of text: 'NEW PEST ANIMAL AND WEED MANAGEMENT TOOLS AND STRATEGIES THROUGH COLLABORATIVE RESEARCH, DEVELOPMENT AND ENGAGEMENT'. At the very bottom, there are two website addresses: 'WWW.INVASIVES.COM.AU • WWW.PESTSMART.ORG.AU'.

- Australia's largest national deer management R&D program



- 20 year rabbit biocontrol R&D pipeline (2nd 5 year plan)

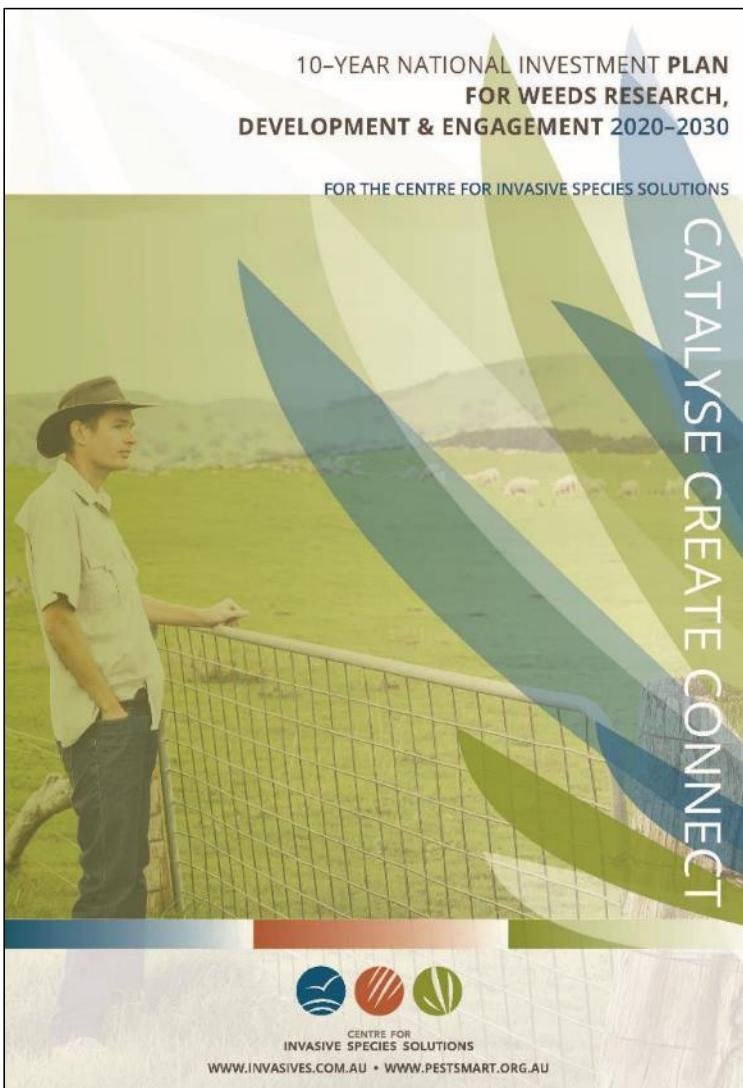


- National incursions response framework + detection tech.

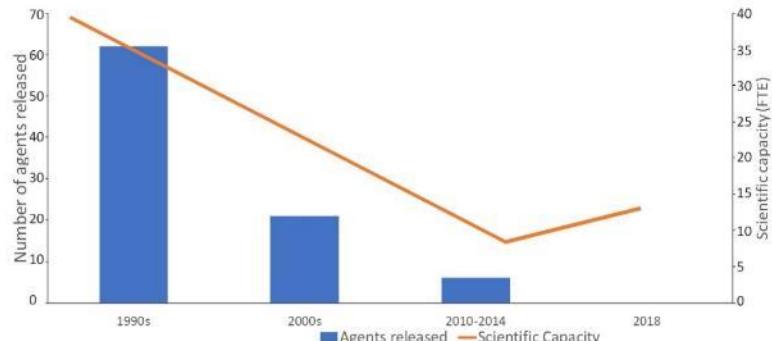


CENTRE FOR
INVASIVE SPECIES SOLUTIONS

Proposed Portfolio Two: Weeds focus

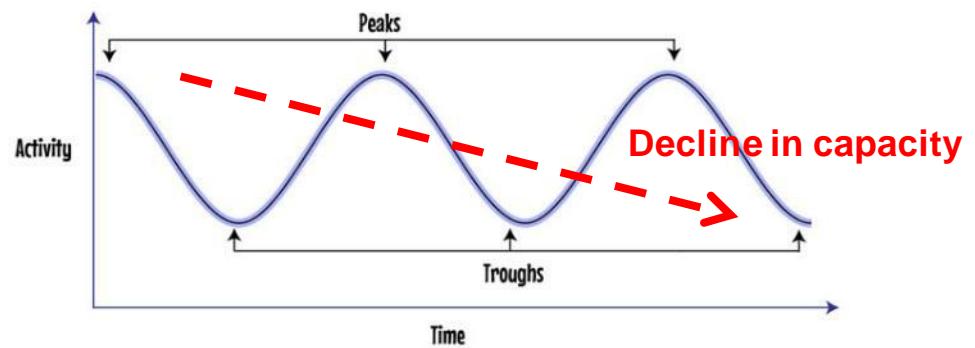


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Source: Winston et al. (2014), Palmer et al (2014), Louise Morin, CSIRO (2018) pers. comm

Strategic technology R&D needs long term sustained investment



CENTRE FOR
INVASIVE SPECIES SOLUTIONS

To sum up: 2017-18 Highlights



First rabbit biocontrol agent released in 20 years



New feral pig toxin submitted for government approval



PestSmart best practice management portal - 1 million views since 2015



FeralScan community management system: 18,000 registered users



New toxic tools in the pipeline

PappPutty lethal trap device



Australian Government
Department of Agriculture
and Water Resources

CONNOVATION

conservation by innovation

HogGone: next generation feral pig bait



Australian Government
Department of Agriculture
and Water Resources



CENTRE FOR
INVASIVE SPECIES SOLUTIONS

Thank you.

**The value of CISS R&D + adaptive management at a glance:
the impact of wild dogs & cluster fencing**

17 clusters of 45 properties applying to fence 1216 km and protect 454,590ha from wild dogs;
Expected sheep number growth of 290,584

"People who have run more than 20,000 sheep for decades are back to having a hatful if they are lucky," Cr Chandler said.

"A landholder south west of Barcaldine has reported killing 160 wild dogs since January, which is directly linked to lambing rates in decline from 80pc down to just 5pc.

"Once the sheep go it means less kids in our schools, less nurses in our hospitals and less people in the region.

"This is about more than a fence, it's about creating jobs in the region, empowering people and giving them back control of their time, finances and wellbeing," he said.

Source: 14th May 2019, Queensland Country Life article by Sally Cripps RAPAD's round three cluster fencing applications oversubscribed

