











Andrea Byrom May 2013

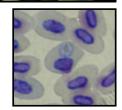
Core funding environment

- 10 Portfolios of research
- 'Managing Invasive Weeds, Pests & Diseases' Portfolio

- 4 'Outcomes'
- Outcome 1: Biodiversity
- Outcome 4: Development within limits











B3



- Landcare Research joins B3: July 2013
- Preparedness
- Risk assessment & risk pathway analysis
- Surveillance & detection
- Diagnostics
- Pre, at, post border biosecurity









Invasive Animals CRC

- Incursions Theme
- Quantitative modelling
- Rabbits, starlings, island eradications, foxes, mice, multiple-pest management, exotic wildlife trade

Incursion

Eradication

Containment

Asset Protection



Invasive Animals Cooperative Research Centre



National Science Challenges

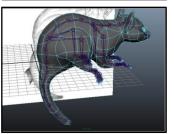
- 'Biodiversity & Biosecurity'
- Threats & resilience

Era of collaboration









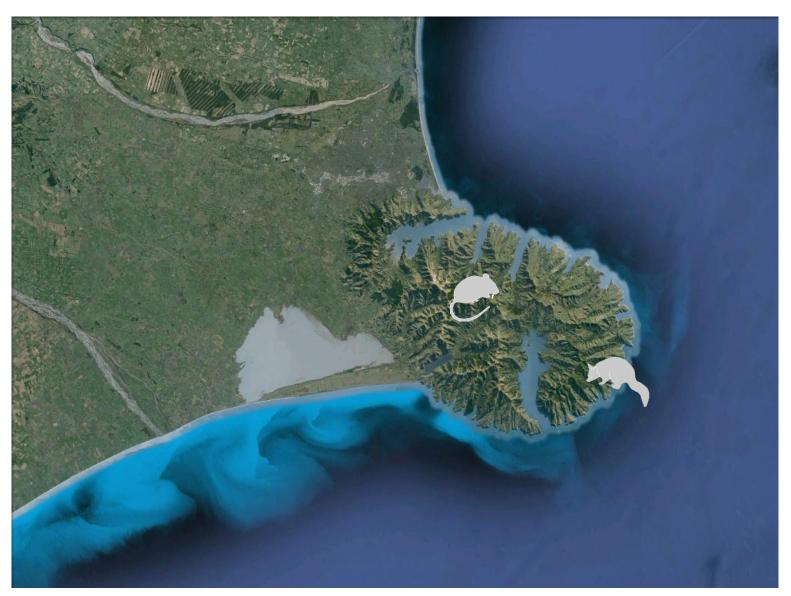


Covernment crazy first more country sanctuaries hectare idea eradication say business some Fenwick predator-free University Paul Ped Stewart Pred way over most per sex nation POSSUMS cent Sir says lure barrier good stoats Control last now community pests even islands one help big goal animals Great islands bait go around other all after ideas Morgan public because best make DOC areas here fenced time challenge South rats research cost pest native lecture possible NZ programme rid year being species said across ience _______Zealand's like science about people trapping conservation

Zealand

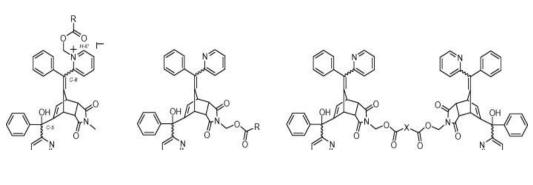


Scaling up and out

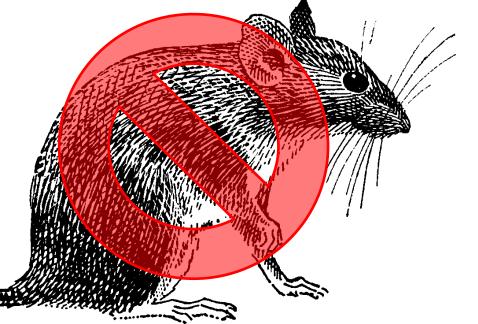


Novel technologies Designer chemicals: Just for rats









Novel technologies

DNA-based diagnostics of plant incursions







Citizen Science



Naturewatch NZ: http://naturewatch.org.nz

- Citizen Science Tool
- Aid to biosecurity surveillance
- Supported by MPI with pilot project
- Weed Project: <u>http://naturewatch.org.nz/projects/pest-plants-weeds-of-nz</u>
- Jon Sullivan (Lincoln Uni) or Colin Meurk (LCR)

Games & apps



Multiple threats

- Biodiversity
- Production sector

- Climate change
- Land use change



