



Bringing long-life rat lures to market

Michael Jackson, Wayne Linklater and Rob Keyzers



Why long-life lures?

For rodents, lures are foods like peanut butter



Control



Monitoring

perishable & consumed by non-targets = frequent replenishment

...decreases control operation efficacy and increase costs...

Case study – Dusky Sounds, Fiordland



24,000 hectares
3 visits per year
ca. \$190,000 per year

6 month lure would...

- Reduce visits to twice yearly
- Saving \$63,000 each year
- Ensure traps are always attractive

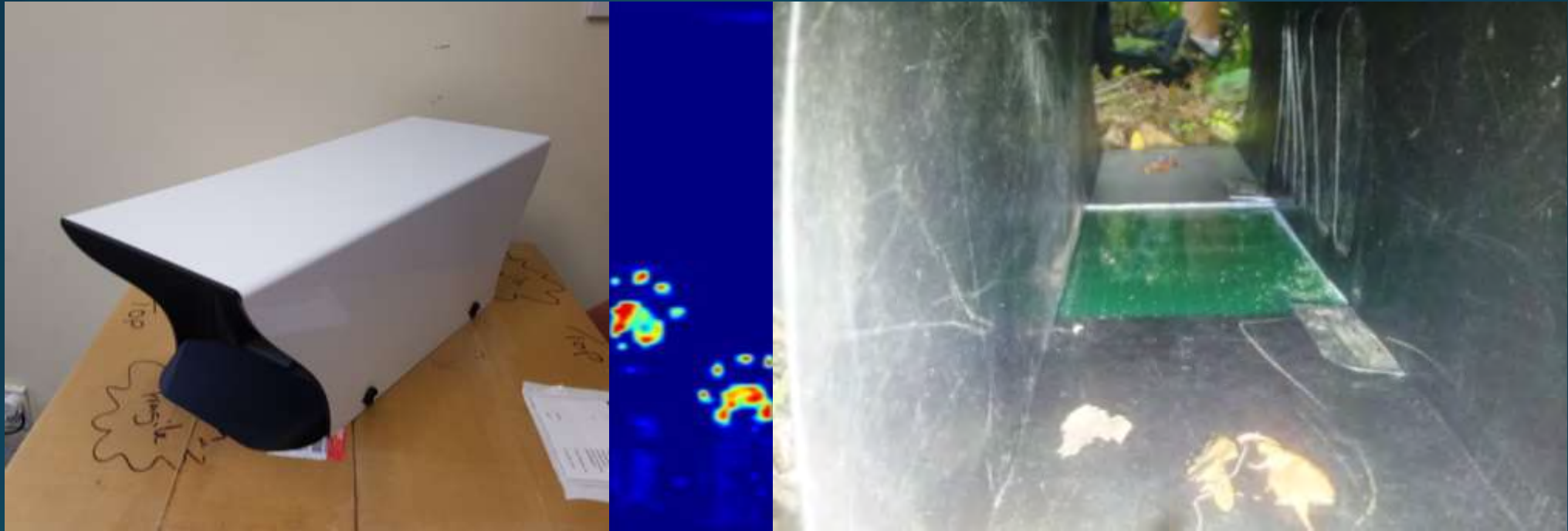
Fiordland = ca. 1 million hectares

DOC manages ca. 8 million hectares

Also...

Emerging self-resetting multi-kill and automated monitoring devices

PAWS: Print Acquisition for Wildlife Surveillance



Constrained by perishable food-based lures

...new long-life lures will help these devices realise their potential

Long-life lures already exist!!

Compounds – commonly used to control invertebrates



Provide benefits such as...

Ease of handling...hygienic...species/sex-specific...consistent smell..... & **long-life**

Our aim

To develop long-life rat lures...



- Easy to handle
- Hygienic
- Consistent smell
- Long-life
- More effective operations
- Reduced cost

Identifying and testing compounds

Tested 24 foods on wild rats



Identified 365 compounds

5 very attractive to wild rats....so, what next?

You blend them!



So.....results?



Kill trials



Product development



Department of
Conservation
Te Papa Atawhai

Innovative lures to improve rat control

A Victoria University of Wellington research project has been awarded more than \$360,000 to develop more effective lures to manage rats, one of New Zealand's, and the world's, most damaging mammal pests.

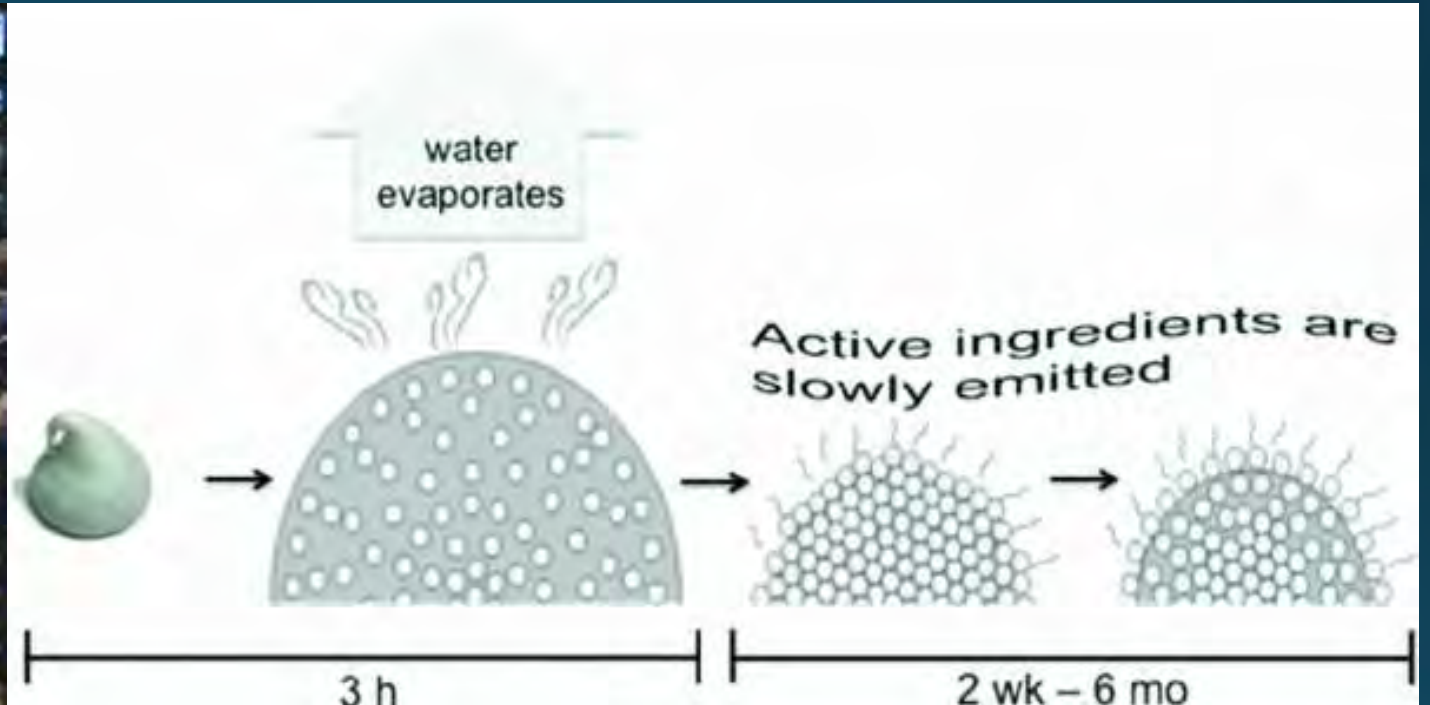


VICTORIA
UNIVERSITY
WELLINGTON

TE WHARE WĀNANGA
O TE ŪPOKO O TE IKA A MĀUI



Controlled-release emulsion lure



Bubble packs – ca. 1 month



Reservoir lure – potential for 6 months!

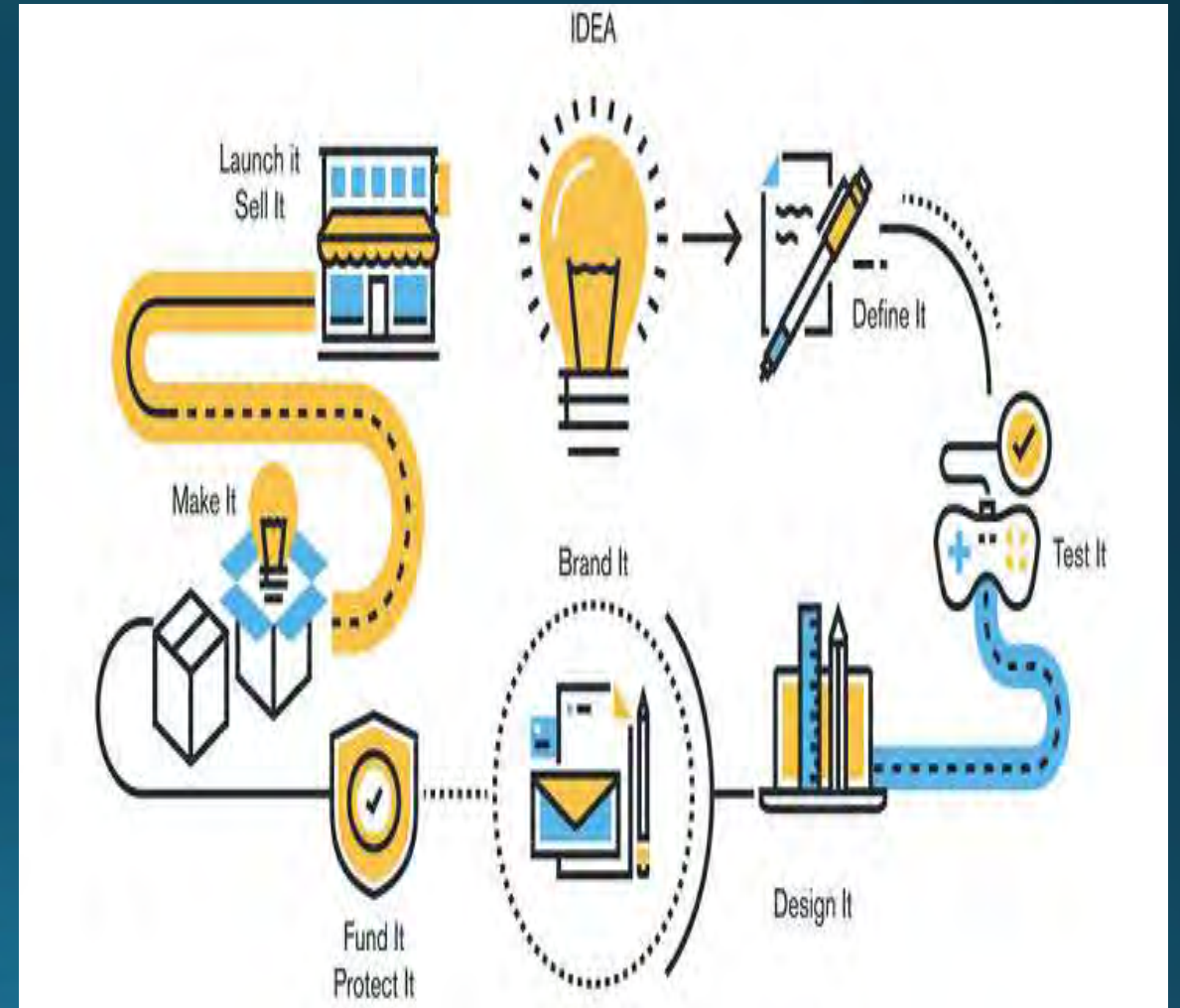


Next steps

Community-led field trials



Bring the lures to market



Thanks for listening.....questions?