



Working together to create predator free landscapes

Ed Chignell, CEO Predator Free 2050 Limited

Pestival, 14 September 2019

Created in 2016 to make a significant contribution to the government's new Predator Free 2050 goal.



- Kia Uru Ora – A return to Life
- Crown company
- Registered under Charities Act
- “An independent entity to bring a vigorous, entrepreneurial and urgent approach to predator control projects.”



Parliamentary Commissioner
for the **Environment**
Te Kaitiaki Taiao a Te Whare Pāremata

Taonga of an Island Nation



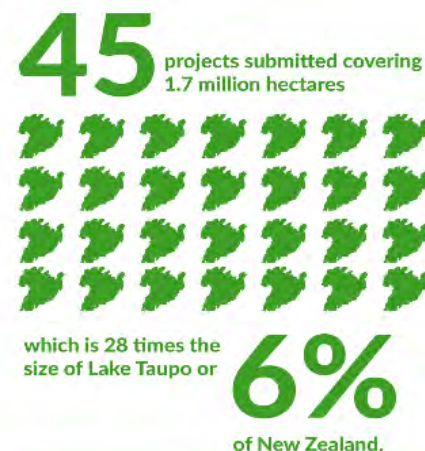
- **One in three bird species headed to extinction**
- **Only one in five in good shape.**
- Bigger predator free areas needed to retain genetic diversity.
- Do better with currently available tools, to hold the line.
- Harness the coordination and potential of community interest.



We create co-funding arrangements for:

- **Eradication-focussed projects at large scale**
- **Breakthrough science needed to underpin them.**

2017 - Huge demand after call for expressions of interest:



Five large landscape projects launched



MAY 2018

Taranaki

JULY 2018

Hawke's Bay

AUGUST 2018

Wellington

SEPTEMBER 2018

Waiheke Island

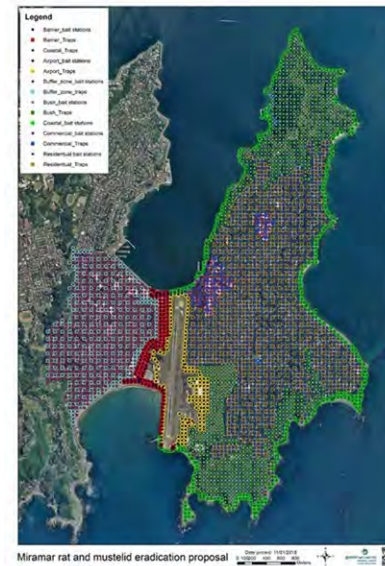
OCTOBER 2018

Dunedin

All focussed on proving eradication possible on the mainland



| Area | Location | Predator/s |
|-------------------|--------------------------------------|-----------------|
| 4,500 ha | Kaitake-Oakura (Taranaki) | Possums |
| 9,000 ha | Otago Peninsula (Dunedin) | Possums |
| 14,500 ha | Mahia Peninsula (Hawkes Bay) | Possums |
| 11,000 ha | Perth Valley (West Coast) | Possums, Rats |
| 1,000 ha | Miramar Peninsula (Wellington) | Rats, Mustelids |
| 9,300 ha | Waiheke Island (Auckland) | Stoats |
| 23,000 ha | South-West Wellington (Capital Kiwi) | Stoats |
| 72,300 ha | Under eradication | |
| 210,000 ha | Under Suppression | |



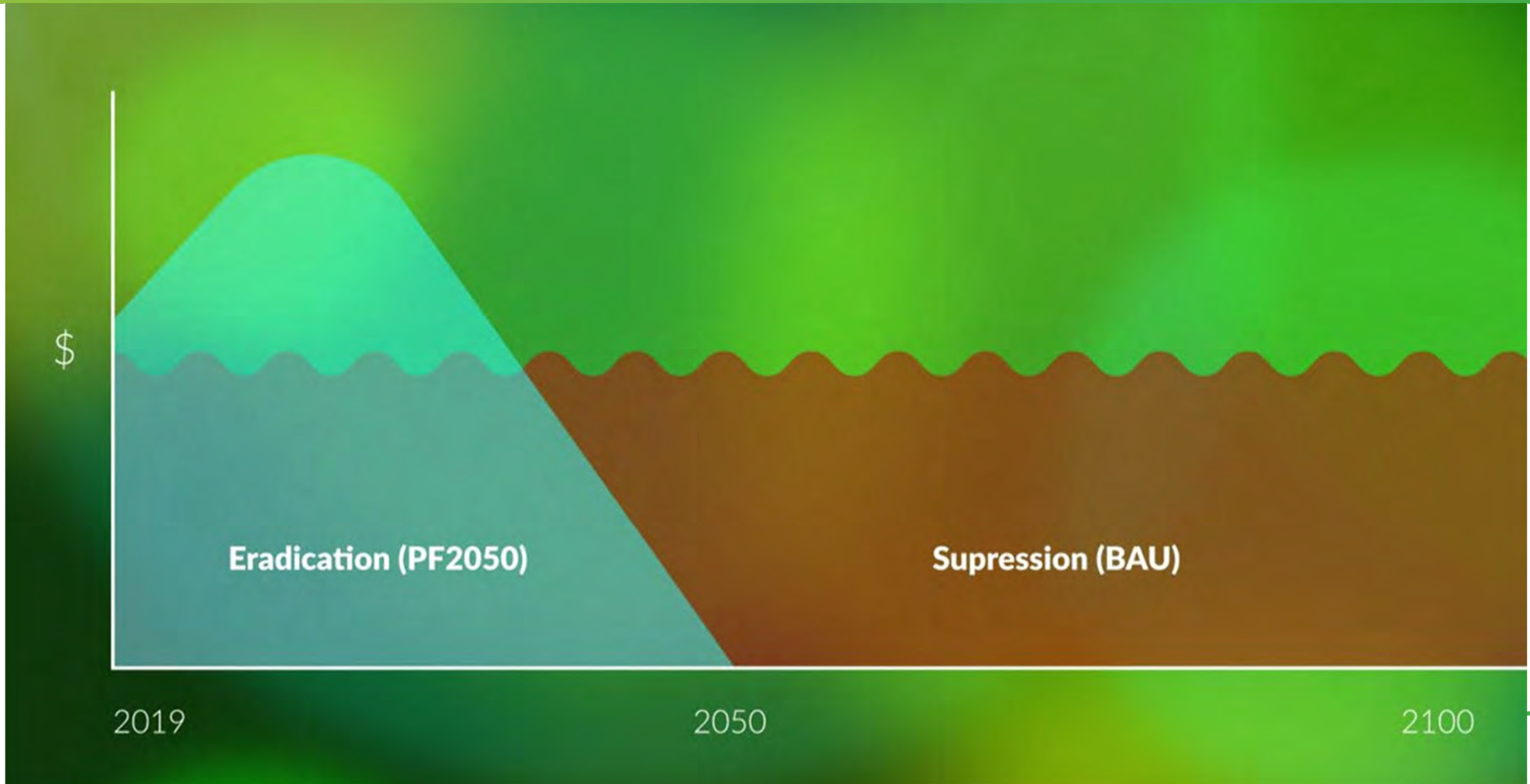
Miramar rat and mustelid eradication proposal

**Miramar,
1,000ha, rats,
mustelids**

**Mahia peninsula, 14,500
ha, possums**



Shifting the game



All projects have strong iwi and community support and excellent local leadership



<https://vimeo.com/324123234>

We encourage accelerated learning



Inaugural Project Coordination Workshop – mainland eradication requires different thinking, design, approach, tool selection, methodology and verification from traditional predator suppression projects.



We actively monitor project delivery

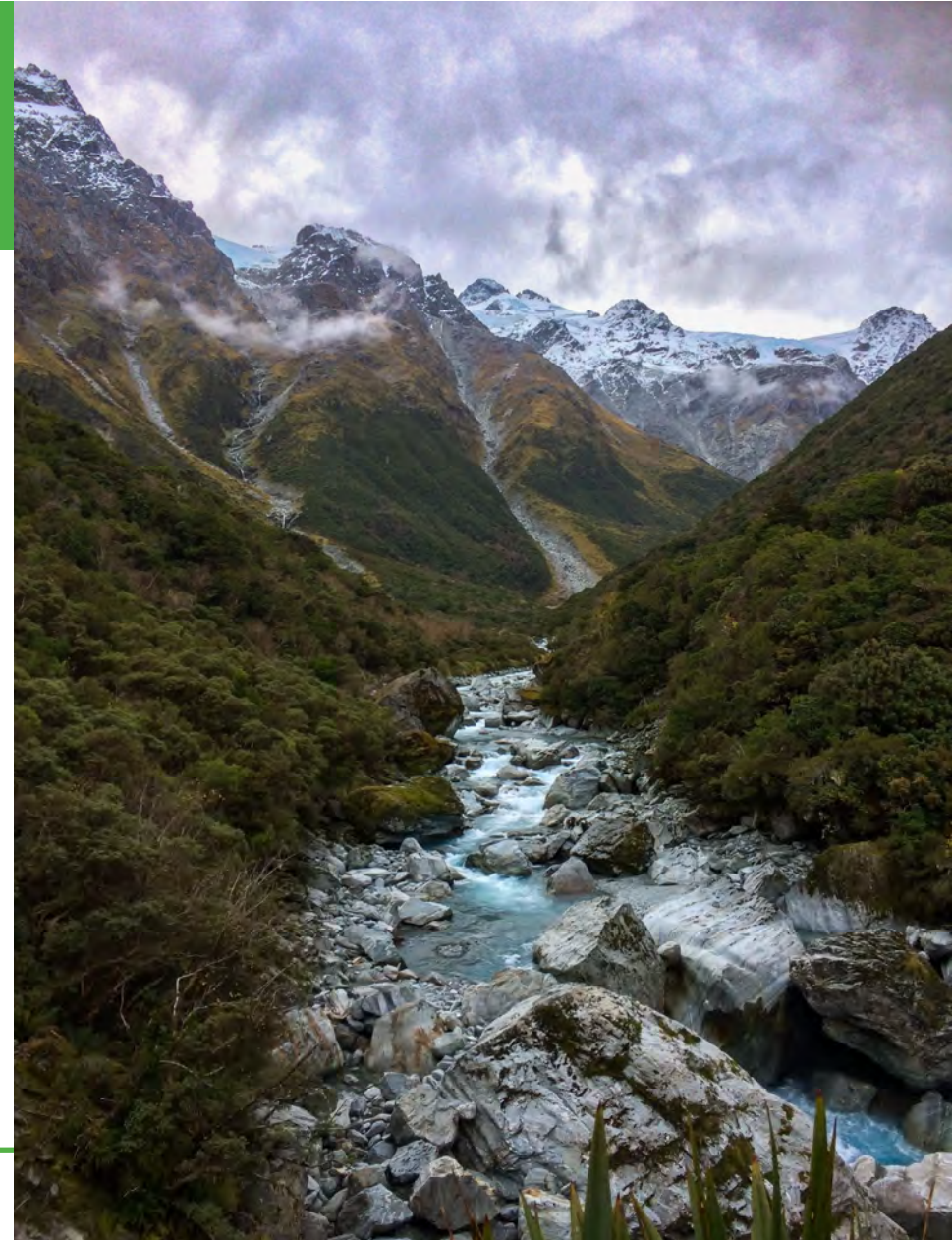


- Assurance and oversight of milestone management.
- Average of 80 milestones and decision points in contracts with funded large landscape projects.
- Quarterly review cycles.
- Identify roadblocks and innovation.
- Challenge thinking.



Early success

- Zero Invasive Predators – Perth River
- \$900k contribution from science budget toward ‘Remove and Protect’ method
- No possums, rats or stoats detected six weeks after second aerial toxin application.
- Contributes to two 2025 milestones: (20K ha without fences, science solution for one mammalian predator)



Early successes



Miramar

- 99% community support for operation.
- 3,000 individual permissions.
- 24 field staff.
- Removal of rats and stoats expected by Xmas.
- 1st of Wellington's suburbs



Mahia

- Mahia has 75% landowner sign up.
- Triggers zero possum provisions in Regional Pest Management Plan.
- Supported by Rongowahine iwi, capacity building with cadets.
- Rolling front from south, at 1/5th mark.



Kaitake to Oakura

- Zero Possum Zone from Mouna to Sea.
- Virtual boundary 930 wireless traps and 12 satellite boxes.
- Farmer self-help programme.
- 0800 number for reporting possums.



Jobs and economic impacts from our projects



| | No of jobs |
|-------------------------------|-------------|
| Toward Predator-Free Taranaki | 29 |
| Predator Free Hawkes Bay | 10 |
| Predator Free Wellington | 30 |
| Capital Kiwi | 3 |
| Te Korowai O Waiheke | 6 |
| Predator Free Dunedin | 16.5 |
| Total | 94.5 |

Jobs and economic impacts from our projects



150  full and part time jobs.

Salaries and wages to project employees and contractors with a value of

\$50m



More than

\$12m

in property leases, consultancies and business activity.

Orders for over

120,000

new control devices worth \$8m.

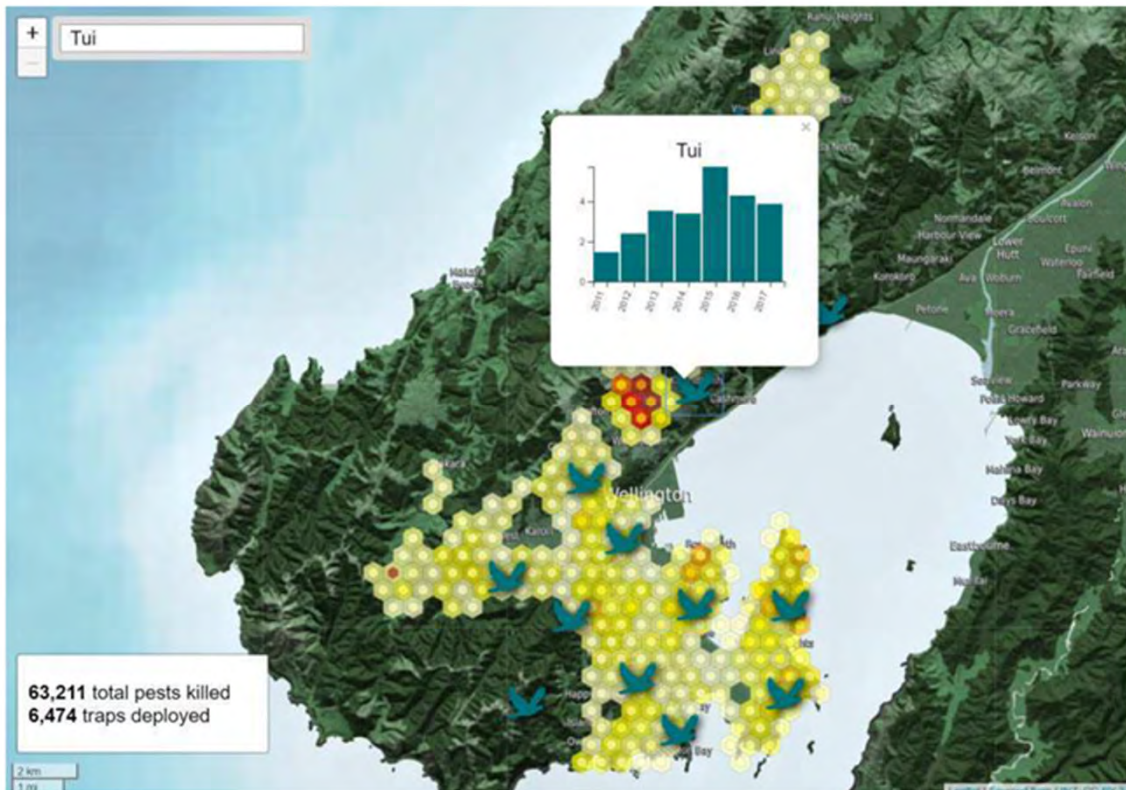


Demand for more than

7,000

new wireless technology nodes and hubs worth \$5m.

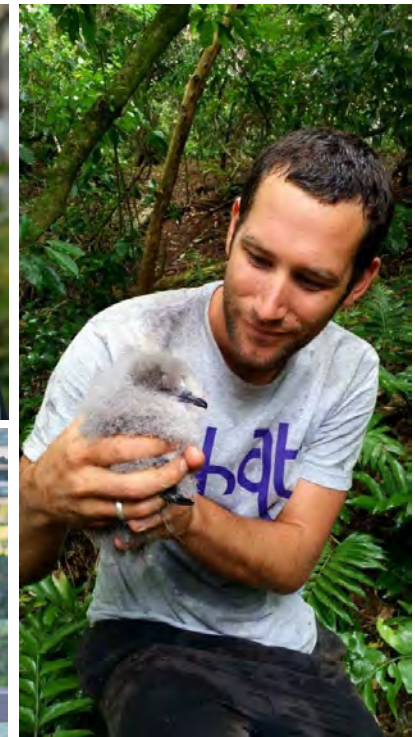
Systems to measure success



Outcome monitoring – tui counts, Wellington



SI Robin, Dunedin
Kaka, Wellington



Grey faced petrel, Taranaki

Toward breakthrough science



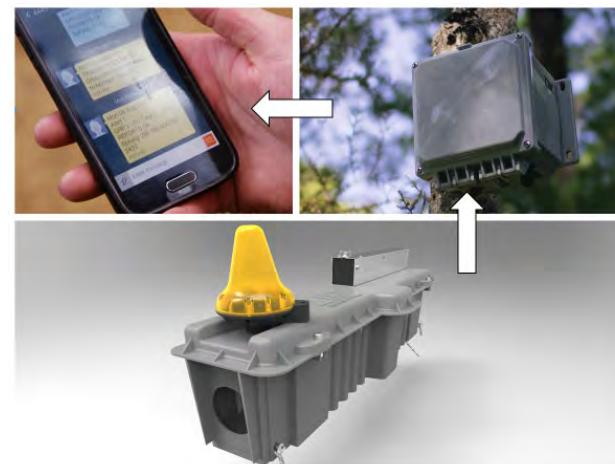
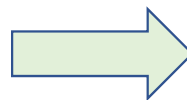
- International and NZ leadership
 - IUCN Taskforce on Synthetic Biology and Biodiversity Conservation
 - PF2050 Science Innovation and Improvement Collaborative Group
- PF2050 Research Strategy (\$1m)
 - Improving existing tools
 - Exploring new tools
 - Sharing data and knowledge
 - Understanding social licence

What's next – Products to Projects



Products to Projects (PGF-funded)

- Production of the 'Remove and Protect' suite of tools
- Other new products from other NZ designers and innovators into production within 12-36 months.
 - ✓ Species specific toxins
 - ✓ Lures and dispensers
 - ✓ Ground control tools
 - ✓ Detection devices
 - ✓ Remote sensing
 - ✓ Communication platforms



Currently in pre-negotiations with 8 providers to produce 11 products.

What's next – new places



- Planning to launch **4** new projects over the next six months.
- This will include a city, a town, a rural district and an inhabited island.



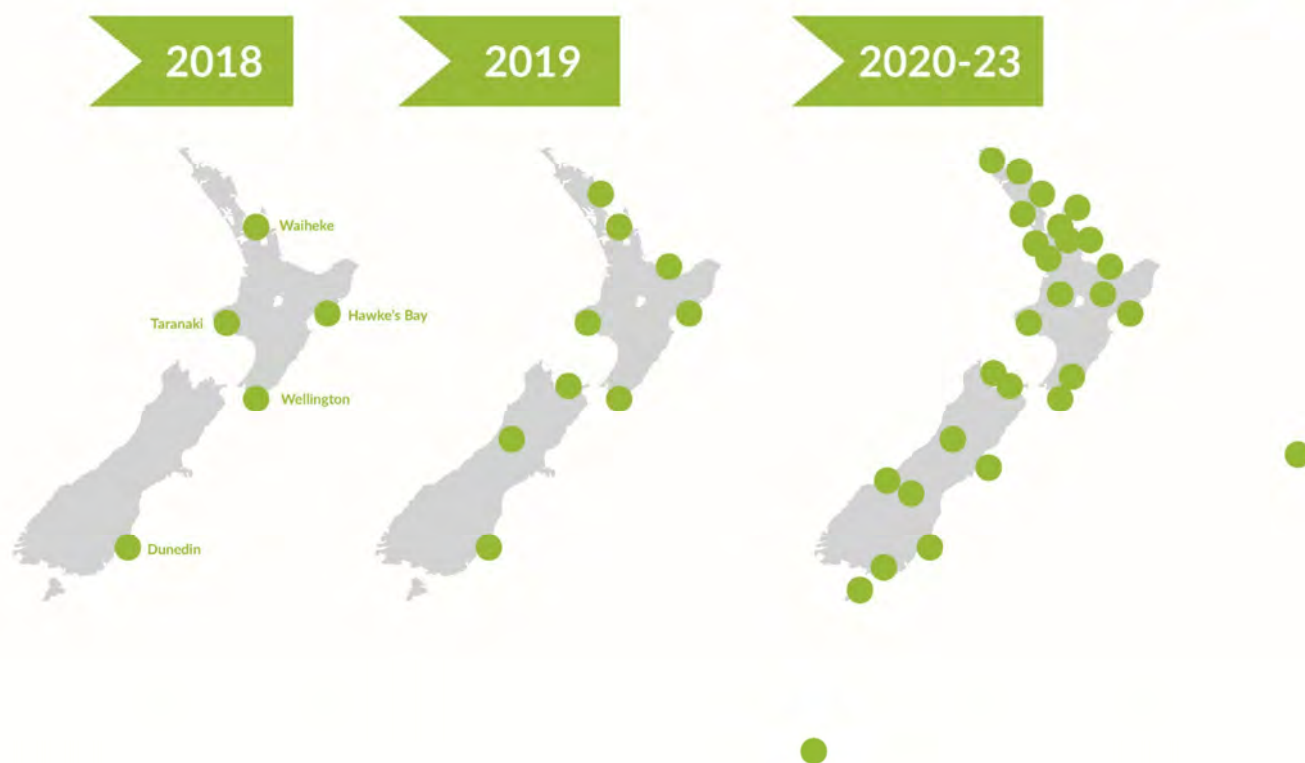
All have been asked to provide further detail of operational areas, eradication plans and budgets so that we are confident of project parameters going into negotiations.
All appear able to meet the 2 to 1 funding requirement and have strong capacity for delivery and community support.

What's next - beyond 2020



- At least 30 or more projects are approaching readiness around New Zealand
- PF2050Ltd will work with iwi, central and local government and philanthropic partners to enable co-funding and project activation.
- Accelerated learning by doing.
- Trialling new tools and innovations.

Project Trajectory



Ngā mihi

