Technology and data capture to transform conservation outcomes in Aotearoa/New Zealand

Richard Hursthouse, Chair

Econet Charitable Trust | 10 August 2021



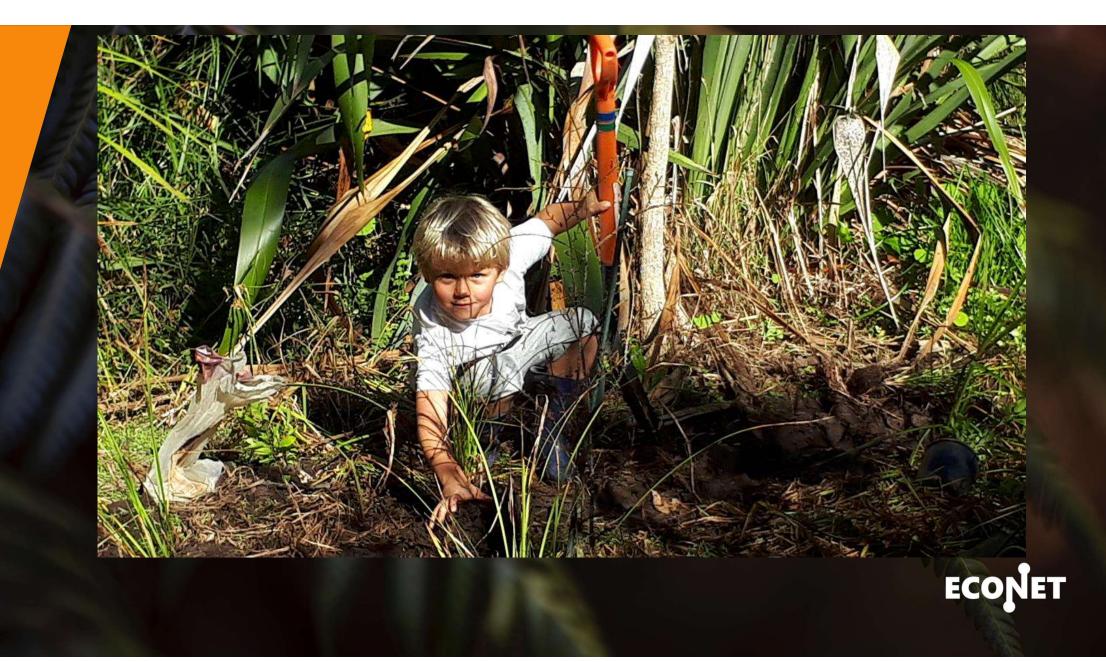
Conservation is a multimillion dollar enterprise



Our many conservation ambitions

- to be predator free by 2050
- to control pest plants
- to increase native planting
- to restore our waterways
- to ensure biosecurity
- to improve biodiversity







Current State

People management – Excel, Mailchimp, Outlook

Training, H&S – Excel, Vault

Funding – Excel, Xero, MYOB, other

Mapping – Google Maps, Google Earth, ARC GIS, SAGA

Planting – Excel, paper

Predator control – Excel, Trap.nz, CatchIT, Walk the line

Weedbusting – Word, Excel, Ecotrack, ConservationIT apps

Monitoring – different methods – Excel, Word, Powerpoint, home made tools,

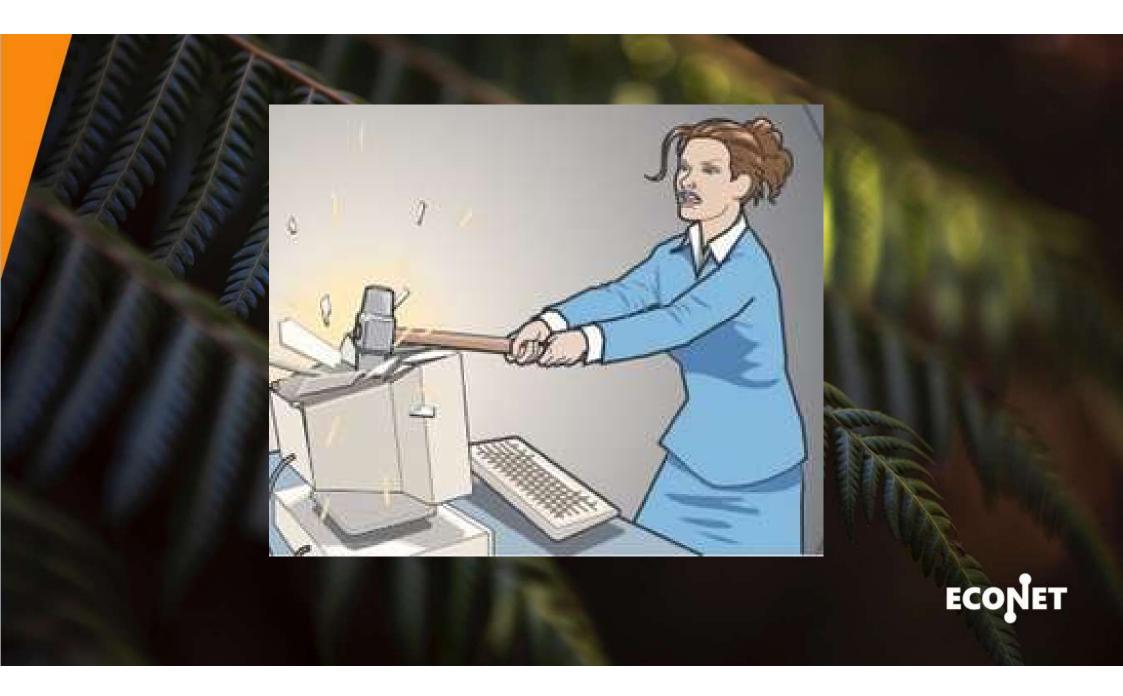


33% of participant time is wasted shuffling spreadsheets and pasting data*

- Administrative tasks become burdensome and botched
- Volunteer engagement is poor, churn at high levels
- Tasks are duplicated or go uncompleted
- Organising events takes too long, H&S compliance patchy
- Monitoring is arduous, reporting is manual
- Knowledge sharing is fraught, groups are siloed
- Landscape views are hard to compile
- Council officers struggle to coordinate community and contractors



*Source: EcoNet 2020 consultation survey respondents n =209



EcoNet are connected leaders



Richard Hursthouse - Chair Chair Centennial Park Bush Society, Chair Restore Hibiscus & Bays, Forest & Bird Board.



Keith Salmon - Trustee Le Roys Bush, Pest Free Kaipātiki



Annalily van den Broeke - Trustee Bethells Buffer Zone Matuku Link. Chair of Forest and Bird Waitakere

EcoNet is well advised

Andrew Rossaak Environment Team Leader Morphum Environmental Grant Morris Director of Product Engineering Aderant NZ Charmaine Bailie Director Uru Whakaaro Ltd Olivia Rothwell R&D Support Manager PF2050 Ltd

Cary Walkin Salesforce Functional Lead Xero NZ Craig Steed Database solution architect



Our Vision

Aotearoa/New Zealand will have integrated, collaborative information technology systems and data standards able to <u>actively and effectively</u> <u>engage</u> volunteers, iwi, organisations, government, and science in millions of hours of conservation activities with proven effectiveness



CAMS – Conservation Activity Management System

2020

Business Analysts x 2 + our team -> Comprehensive User Stories, functional requirements etc

Dec - RFI to Software sector – 6x responses



2021

- Detailed analysis of proposals
- Engagement with vendors and GIS systems architect
- Refined architecture
- Proof of concept
- 2x preferred vendors/platforms
- Updated quotes
- Engagement with multiple stakeholders
- Funding applications



CAMS will engage more people and acquire data measuring conservation inputs and outcomes

Volunteer engagement

Sign-up, comms, training, results





Task and Event management



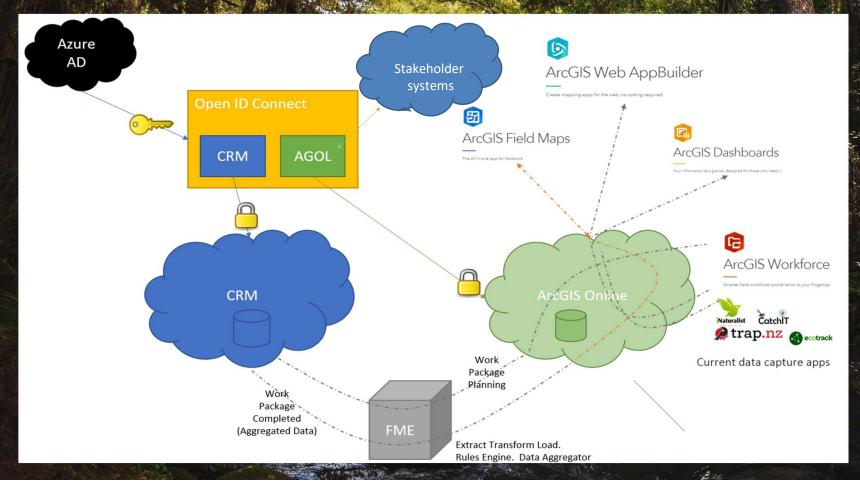
ECONET

Email, finance, fund raising.

Administration

Calendars, resources, tools, H&S.

CAMS : Integrated CRM + ArcGIS mapping apps with low-cost user licensing



ECONET

CAMS tech attributes

Low cost licensing

Market leading / global standard platforms Integration and cross-connectedness Tailored field labels and menus IP retained by EcoNet GIS references and tools Inherent permissions architecture Data storage policy – on-shore potential



People and confidence building

Proof of concept July – can connect D365 and AGOL Pilot implementation of core components – Q4 2021 20+ community groups collaborating Dialogue with iwi groups, Maori in GIS re Matauranga Maori and data sovereignty Engaged with DoC, MfE, LINZ, PF2050 GIS schema collaborations and refinement



2021 continued

- Refine strategic and business plans
- Explore funding models
 - Government and local government
 - Conservation group and user charges
 - Impact investment
 - Extracting value from data through existing or novel financial instruments



Collaboration concept

Conservation needs forecastable non-contestable funding CAMS will enable participants to harvest marketable data Investor platform will funnel investor funding to complement public good funding EcoNet will support verified data gathering based on quality data standards and processes



1. ROI

scale

Very significant gains in-productivity, measurable in economic terms and speed of outcomes Reduced volunteer churn, more people doing more...

CAMS

2. More useful activity

4. Continuous innovation

New technologies deployed quickly by plugging into the open core of

Aggregation to landscape / regional views. Identify and share best practice

3. Data capture at

CAMS will deliver enterprise level impacts.

ECONET

Why am I here?

We are seeking

- Collaboration and business partnerships
- Funding support sponsorship, impact investment, software discounts
- Business skills to ramp up strategy and business plan
- IT skills to leverage this unique concept for the public good



Ngā mihi

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