

Ruru – Conservation Information System

An integrated conservation database for Auckland Council

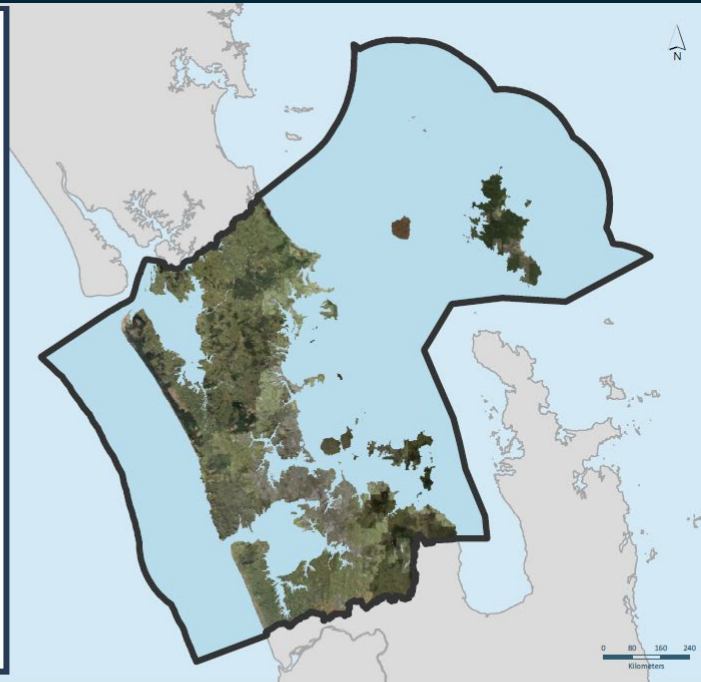
Amanda MacDonald-Creevey, Senior Bio Information Analyst
Vivienne Cole, Bio Information Team Manager

Outline

- Background
- What is Ruru?
- How does Ruru work?
 - Data structure
 - Automation
- Ruru example
- Ongoing work
 - Data migration/decommission
 - Continued improvements

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DISCLAIMER:
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Auckland Council Administrative Boundary

0 8.5 17 25.5
 Kilometers
 Scale @ A4
 = 1:1,289,137
 Date Printed:
 05-May-21



Document Path: U:\GEOGRAPHY\Geospatial_EDU\Projects\2021\01_2019_Lynn_Working\Te_Feb21\3_Workspace\Auckland.mxd



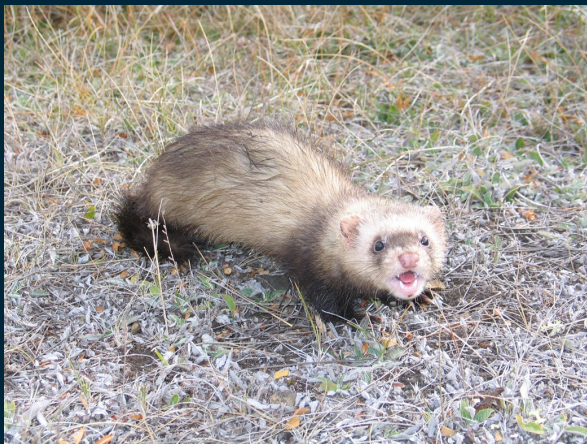




Ark in the Park project area immediately surrounding the Waitākere dam and reservoir. Huge kauri crowns emerge in the canopy.

 Photo credit: Andrew Macdonald, Biospatial Ltd 2019 | ©













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Bio Information team, ES



Geospatial team, ICT



Centralised place to store, view, manage, and analyse conservation data



Ruru

Conservation Information System

Ruru is Auckland Council's internal system for all conservation data. Use this platform to explore data, and see what other work is happening across the organisation.

Explore by theme

Click on the icons below to view what is happening within the different themes



Ecological Management



Pest Plants



Pest Animals



Kauri

Targeted rates protecting our natural environment

Published: 19 July 2019

Share



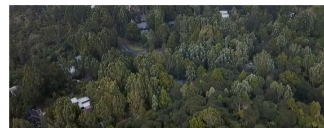
Aucklanders love the great outdoors, whether it be the bush or the beaches. We value the part it plays in our wellbeing and love of our city. It's a high priority on the list of what makes Auckland special.

The two targeted rates introduced last year have helped us to increase our protection of Auckland's natural environment and waterways. Over the last year, we have been able to support the following projects through the rates:



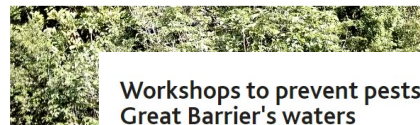
More Auckland tracks and parks closed due to threat of kauri dieback disease

Brittany Keogh · 16:34, May 30 2019



40 hihi released at Shakespear Regional Park, marking return to Auckland mainland

Kendall Hutt · 17:19, Jul 03 2020



Mayor Goff hits million tree mark

Published: 14 June 2019



Muriwai gecko: Unique species 'hanging on' on Auckland's doorstep

Kendall Hutt · 05:00, Jan 03 2021



Returning our lakes to good health

Published: 25 August 2018



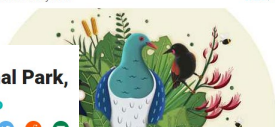
West Coasters warned to watch out for new toxic beach weed

Lois Williams Local Democracy Reporter · 21:08, Mar 23 2021



Pest free Autumn in your backyard

Published: 14 May 2020



Auckland Council's first pest detection dog retires after 11 years

Published: 2 December 2019



Deer on the loose in Auckland's Waitākere Ranges shot dead

Brittany Keogh Tonika Tokalau · 10:34, Sep 11 2020



Regional Pest Management Plan comes into effect

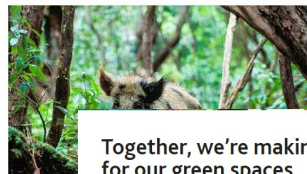
New plan to take care of nature

Published: 6 November 2020



Feral pigs close to eradication on Waiheke

Published: 2 March 2021



Together, we're making gains for our green spaces

Published: 4 June 2019



Themes

Programmes

Ecological Management

- Biodiversity Focus Areas
- Restoration Planting
- Species Management

Engagement

- Biosecurity Champions

Hauraki Gulf Biosecurity

- Wharf Inspections

Marine

- Hull Surveillance

Pathogens

- Health Monitoring
- Infrastructure

Pest Animals

- Argentine Ants
- Deer
- Goats
- Mustelids
- Pigs

Pest Plants

- Aotea Site Led
- Biocontrol
- Buffer
- Freshwater
- Low Incidence
- Moth Plant
- Regional Parks
- Rhamnus

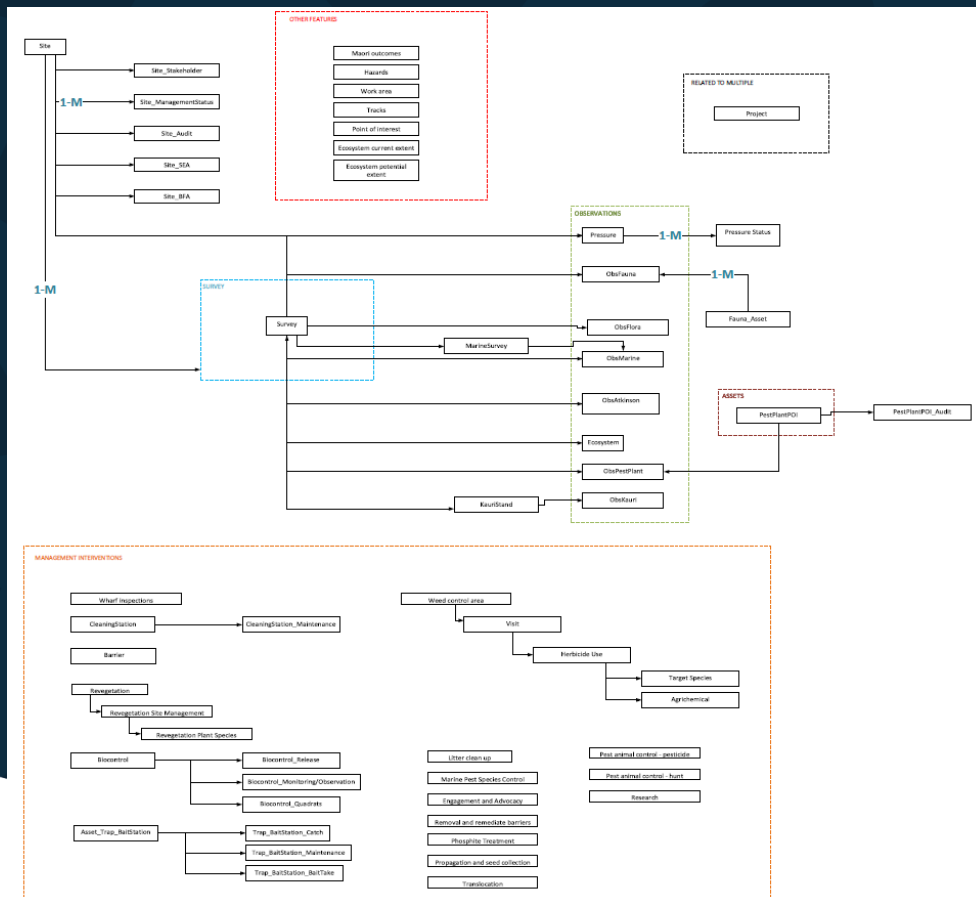
RPMP

- Exemption
- Trade Regulation

- SDE - DEV, TEST, PROD
- Enterprise Portal (10.7) - DEV, TEST, PROD
 - Field apps: Survey123, Collector
 - Dashboards: KPIs, operational metrics, change over time
 - Workbenches (Waahi/WAB for developers): View/manage data. Internal only
 - Contractor web apps (WAB): View/manage data
- Servers – DEV, TEST, PROD
 - 1 management server (Waahi, publishing services, scheduled tasks)
 - 2 Esri app (hot/cold) servers (portal, AGS, datastore)
 - 2 web (hot/cold) servers (published workbenches)

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Spatial Pest Attribute (SPA) Standard

Spatial Pest Attributes

Standard

Queensland

July 2012

V7

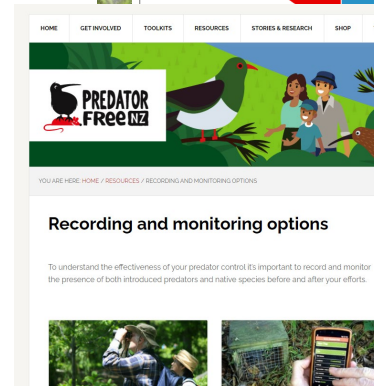
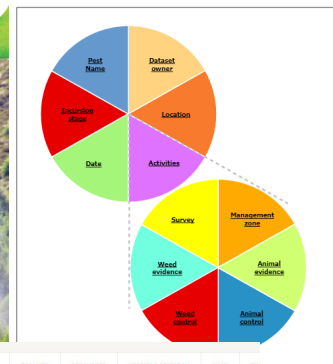
Unclassified

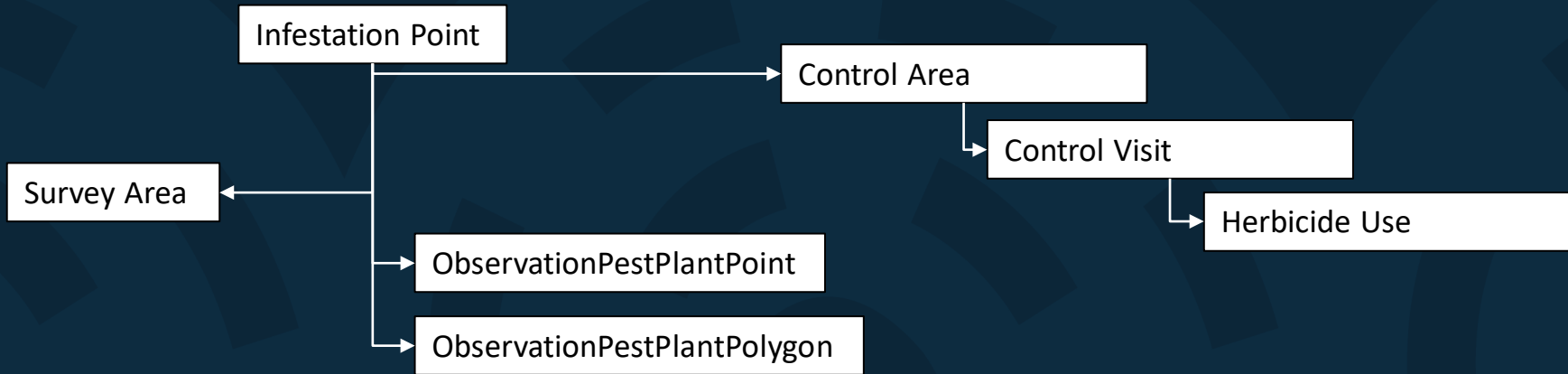
National Data Standard for Invasive Plants and Animals

Core attributes are recommended for all weed and pest animal data management and surveillance systems. Core attributes represent the required "must-have" information for consistent approaches to data collection and management in Australia. The attributes are for data reporting on actual and not potential pest distribution.

recommended attributes represent the "ideally-recorded" information for Australia.

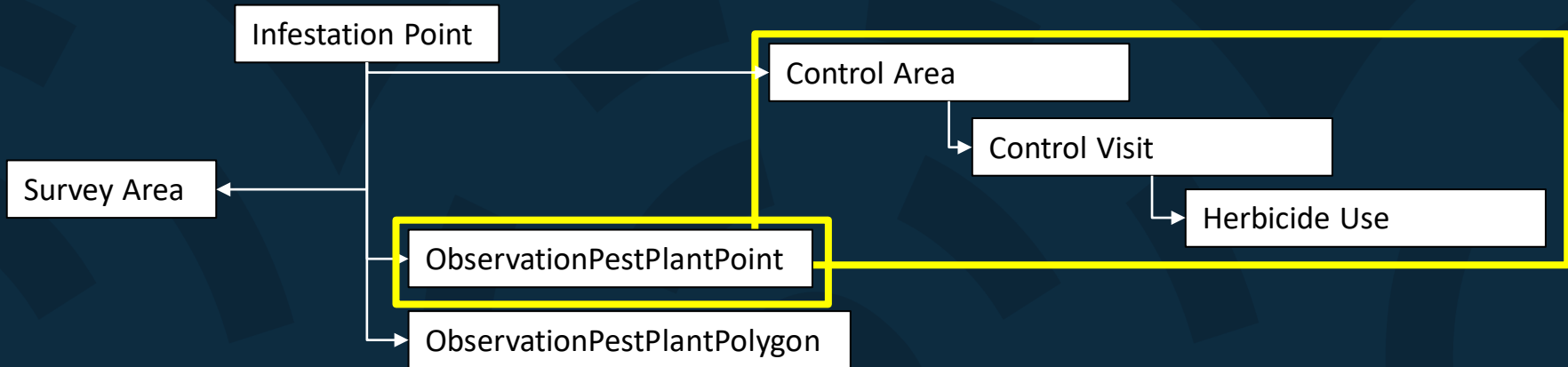
The following 6 core domains and 6 sub-domains are proposed for consideration by the Invasive Plants & Animals Committee (IPAC), and the National Biosecurity Information Governance Group.





Multiple pest plant programmes

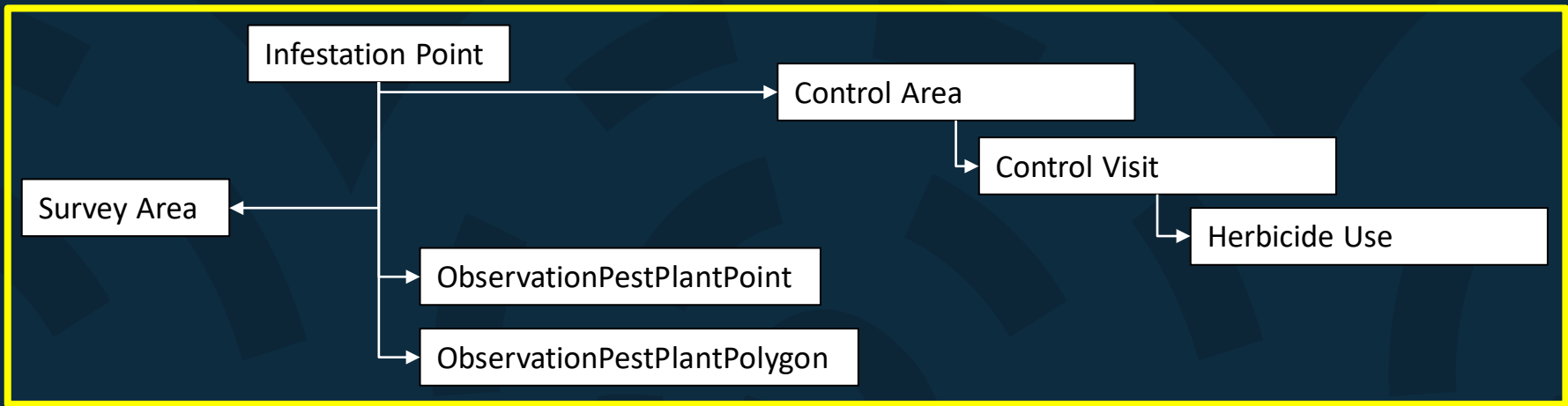
- Aotea Site Led
- Biocontrol
- Buffer
- Ecological Restoration Contract
- Freshwater
- Low Incidence
- Moth Plant
- Roadside Buffer
- Regional Parks
- Rhamnus



Multiple pest plant programmes

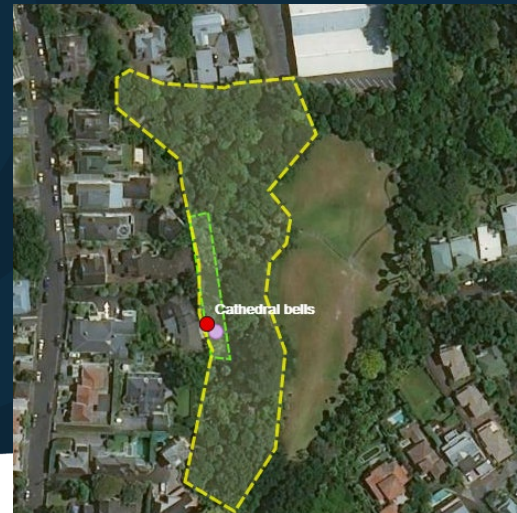
- Aotea Site Led
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Multiple pest plant programmes

- Aotea Site Led
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Pest Plants



Select



Results



Create/Edit



Draw/Measure



Add Data



Print



Basemaps



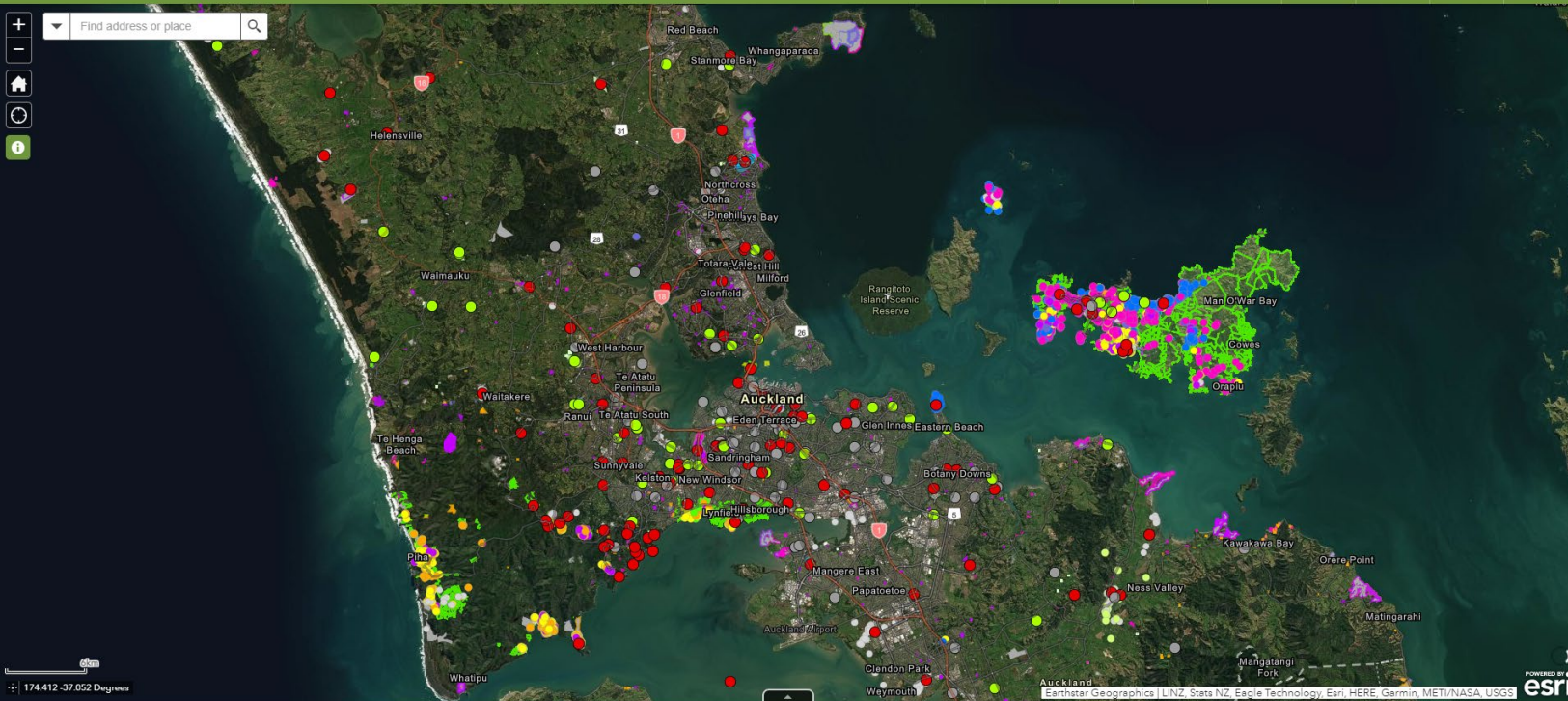
Layers/Legend



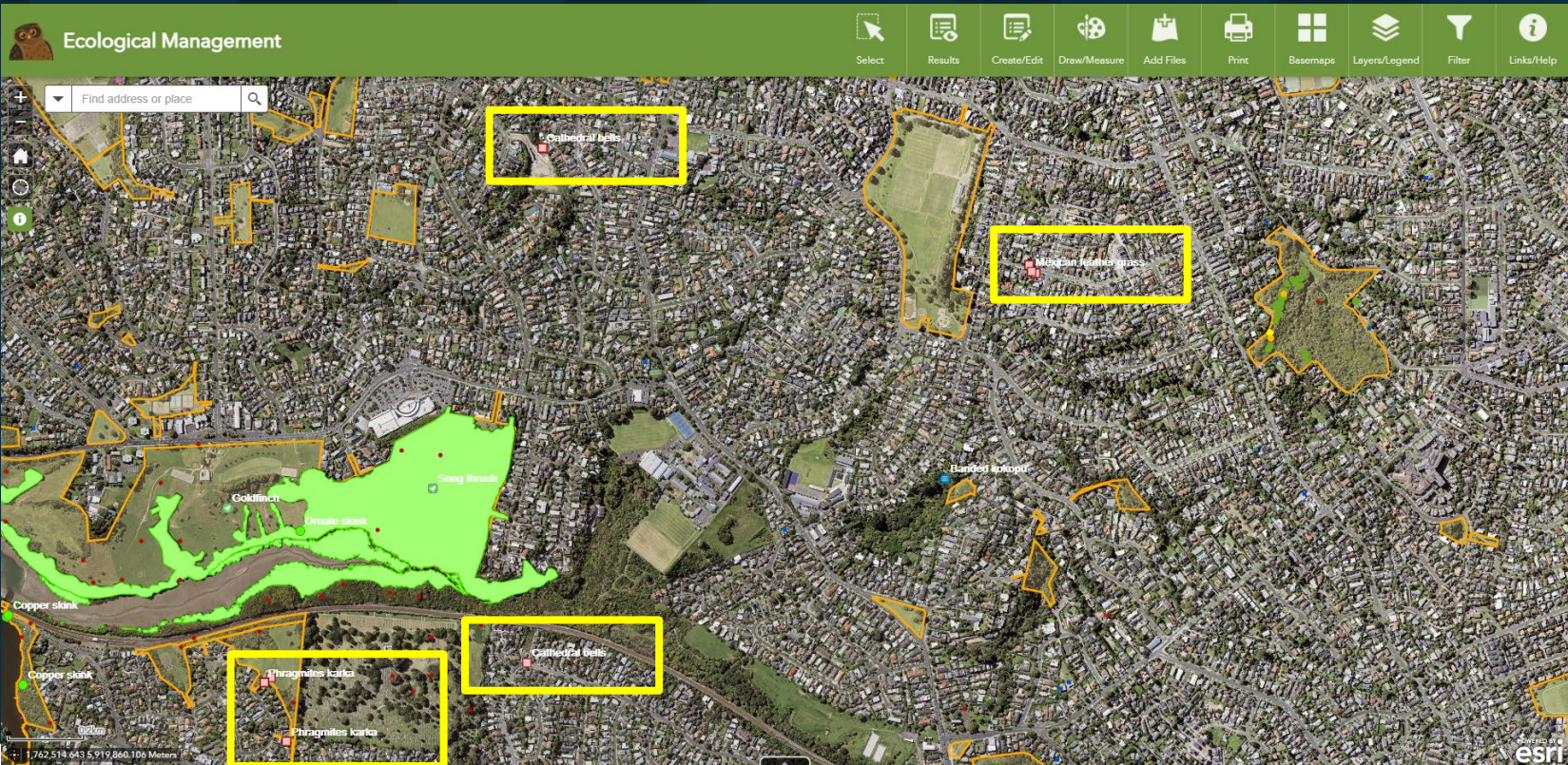
Links/Help

Find address or place

Map navigation controls: zoom in (+), zoom out (-), home, full screen, and information (i).



Auckland
Earthstar Geographics | LINZ, Stats NZ, Eagle Technology, Esri, HERE, Garmin, METI/NASA, USGS
POWERED BY esri



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Reference tables

- Species
- Organisation
- Users
- Programmes
- Herbicide
- Ecosystem

Category	Kingdom	Phylum	Class	ScientificOrder	Family	Genus	NZOR ID	Alpha ID	Authority	ScientificName	Other
Flora	<Null>	<Null>	<Null>	<Null>	Rubiaceae	Nertera	<Null>	<Null>	<Null>	Nertera depressa	<N
Flora	<Null>	<Null>	<Null>	<Null>	Rubiaceae	Nertera	<Null>	<Null>	<Null>	Nertera dichondrifolia	<N
Flora	<Null>	<Null>	<Null>	<Null>	Rubiaceae	Nertera	<Null>	<Null>	<Null>	Nertera scapanioides	<N
Flora	<Null>	<Null>	<Null>	<Null>	Rubiaceae	Nertera	<Null>	<Null>	<Null>	Nertera villosa	<N
Flora	<Null>	<Null>	<Null>	<Null>	Oleaceae	Nestegis	<Null>	<Null>	<Null>	Nestegis apetala	<N
Flora	<Null>	<Null>	<Null>	<Null>	Oleaceae	Nestegis	<Null>	<Null>	<Null>	Nestegis cunninggha...	<N
Flora	<Null>	<Null>	<Null>	<Null>	Oleaceae	Nestegis	<Null>	<Null>	<Null>	Nestegis lanceolata	<N
Flora	<Null>	<Null>	<Null>	<Null>	Oleaceae	Nestegis	<Null>	<Null>	<Null>	Nestegis montana	<N
Fauna	Animalia	Chordata	Aves	Psittaciformes	Strigopidae	Nestor	1db4702b-6147-4a70...	<Null>	<Null>	Nestor meridionalis s...	<N
Fauna	Animalia	Chordata	Aves	Strigiformes	Strigidae	Ninox	c67c5767-771a-46c7...	<Null>	<Null>	Ninox novaeaealandi...	<N
Fauna	Animalia	Chordata	Aves	Passeriformes	Notiomystidae	Notiomystis	c55053c7-59c9-43b2...	<Null>	<Null>	Notiomystis cincta	<N
Flora	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	Notogrammitis aff. r...	Au
Flora	<Null>	<Null>	<Null>	<Null>	Polypodiaceae	Notogrammitis	<Null>	<Null>	<Null>	Notogrammitis angu...	<N
Flora	<Null>	<Null>	<Null>	<Null>	Polypodiaceae	Notogrammitis	<Null>	<Null>	<Null>	Notogrammitis billar...	<N
Flora	<Null>	<Null>	<Null>	<Null>	Polypodiaceae	Notogrammitis	<Null>	<Null>	<Null>	Notogrammitis ciliata	<N
Flora	<Null>	<Null>	<Null>	<Null>	Polypodiaceae	Notogrammitis	<Null>	<Null>	<Null>	Notogrammitis heter...	<N
Flora	<Null>	<Null>	<Null>	<Null>	Polypodiaceae	Notogrammitis	<Null>	<Null>	<Null>	Notogrammitis pseu...	<N
Flora	<Null>	<Null>	<Null>	<Null>	Polypodiaceae	Notogrammitis	<Null>	<Null>	<Null>	Notogrammitis rawli...	<N
Fauna	Animalia	Chordata	Aves	Charadriiformes	Scolopacidae	Numenius	4d23c62b-933f-448e...	<Null>	<Null>	Numenius madagasc...	<N
Fauna	Animalia	Chordata	Aves	Charadriiformes	Scolopacidae	Numenius	a7dc45db-ba68-4d19...	<Null>	<Null>	Numenius minutus	<N
Fauna	Animalia	Chordata	Aves	Charadriiformes	Scolopacidae	Numenius	c50eaaa1-9f62-4739...	<Null>	<Null>	Numenius phaeopus...	<N
Fauna	Animalia	Chordata	Aves	Charadriiformes	Scolopacidae	Numenius	4abb6900-88e2-491f...	<Null>	<Null>	Numenius phaeopus...	<N
Fauna	Animalia	Chordata	Aves	Galliformes	Phasianidae	Numida	99b609f-3c5e-45cd...	<Null>	<Null>	Numida meleagris	<N
Flora	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	Nuphar lutea	<N
Flora	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	Nymphaea Mexicana	<N
Flora	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	Nymphoides geminata	<N
Flora	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	Nymphoides peltata	<N
Marine Pest	Animalia	Cnidaria	Hydrozoa	Leptothecata	Campanulariidae	Obelia	<Null>	117385	(Clark, 1875)	Obelia bidentata	<N
Marine Pest	Animalia	Cnidaria	Hydrozoa	Leptothecata	Campanulariidae	Obelia	<Null>	117385	(Clark, 1875)	Obelia locustina	<N

Domains

- Species
 - Native/exotic
 - Bird, plant etc
- Organization
 - Local/central government
 - Contractors
- Project
 - Pest plant
 - Pest animal
 - Restoration planting

```
ruru_config_gdb_domains.py
Contents History Compare Blame
1
2 # Ruru domain configuration.
3 # Domains are generally maintained in SDE, or loaded from Rurustaging.gdb initially, but
4 # domains below are specifically created from table selections. Generally for use in field apps.
5
6
7 DOMAIN_CONFIG = [
8
9     {
10         "name": "AllSpecies", # domain name
11         "source_table_fields": ["SpeciesCode", "Search"], # fields used for {domain code, domain value}
12         "source_table": "Species", # source table
13         "where": "None", # source SQL query
14     },
15     {
16         "name": "BirdSpecies",
17         "source_table_fields": ["SpeciesCode", "Search"],
18         "source_table": "Species",
19         "where": "Taxon = 1",
20     },
21     {
22         "name": "BatSpecies",
23         "source_table_fields": ["SpeciesCode", "Search"],
24         "source_table": "Species",
25         "where": "Taxon = 0",
26     },
27     {
28         "name": "FishSpecies",
29         "source_table_fields": ["SpeciesCode", "Search"],
30         "source_table": "Species",
31         "where": "Taxon = 2",
32     },
33     {
34         "name": "HerpetofaunaSpecies",
35         "source_table_fields": ["SpeciesCode", "Search"],
36         "source_table": "Species",
37         "where": "Taxon = 3",
38     },
39     {
40         "name": "InvertebratesSpecies",
41         "source_table_fields": ["SpeciesCode", "Search"],
42         "source_table": "Species",
43         "where": "Taxon = 4",
44     },
45 ],
```

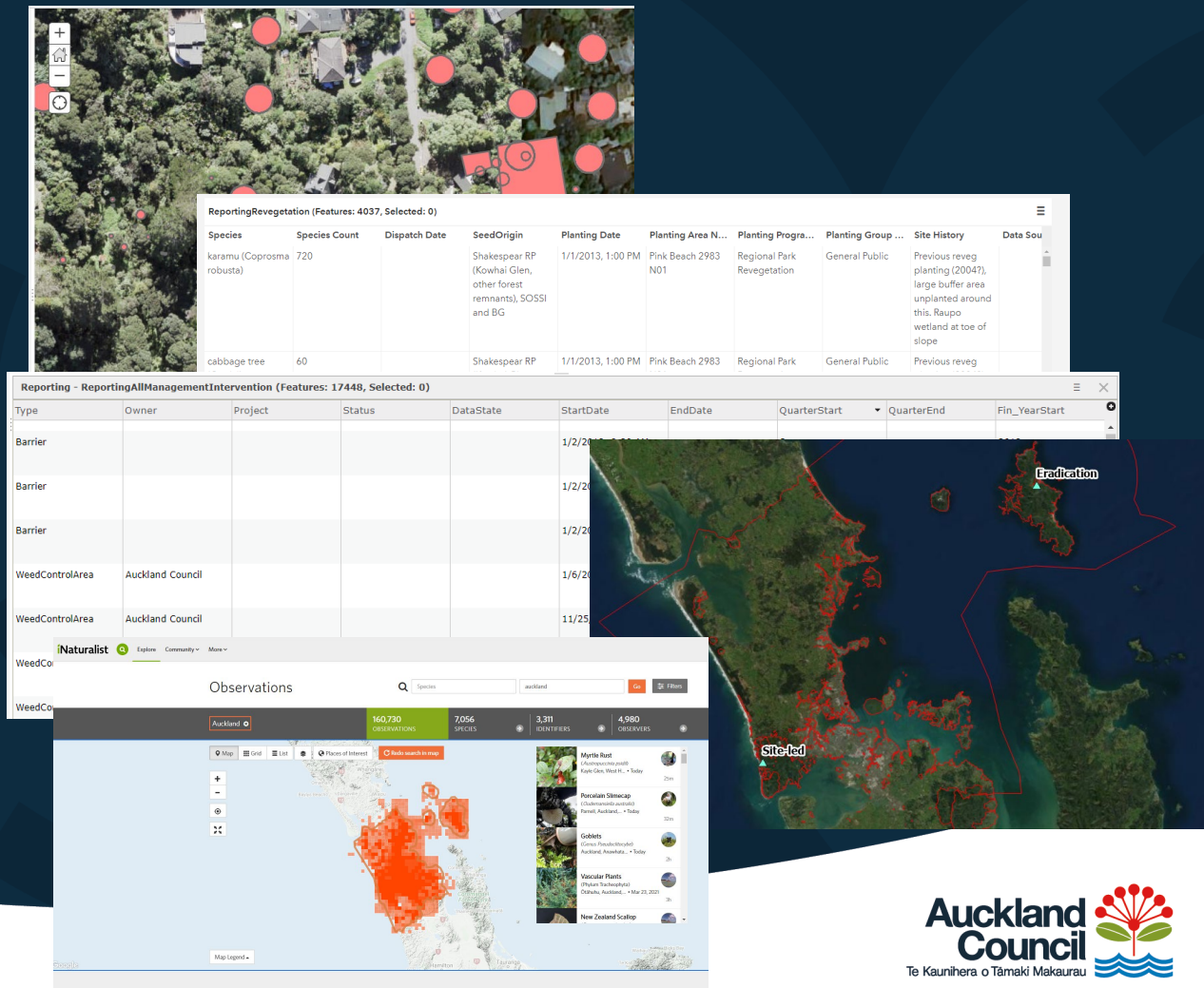

Update Survey123 forms

- List of surveys in config script
- Retrieve zipped csv
- Update external choices
- Re-zip and upload

```
ruru_config_s123.py
Contents History Compare Blame
40
41
42
43
44
45
46
47
48
49
50 # name: of list, detected from first tab in XLSX file
51 # table: GDB source (relative to GDB_PATH in ruru_env.py)
52 # valuefield: refers to GDB field name. We know this is always "name" and 2nd column in the CSV.
53 # labelfield: refers to GDB label field. We know this is always "label" and 3rd column in the CSV.
54 # filter: in case we want a subset of rows, e.g. "SpeciesType IN (0, 3, 4)"
55 SURVEY_LISTS = [
56     # sourced from tables
57     {
58         "name": "S123_Project",
59         "table": "Project",
60         "valuefield": "GlobalID",
61         "labelfield": "ProjectName",
62         "additionalfields": ["ProgramName"],
63         "filter": None,
64         "forms": None # specify specific forms by ID, or apply to all
65     },
66     {
67         "name": "S123_faunaasset",
68         "table": "faunaasset",
69         "valuefield": "GlobalID",
70         "labelfield": "Search",
71         "additionalfields": [],
72         "filter": "faunaassettype = 2",
73         "forms": ["0"] # birds
74     },
75 ]
```

Reporting layers

- Merge geometries
- Join features
- Merge dataset
- Spatial join
- Bring in external data



Job			Job Progress				Alert
2021-04-06 21:00	Stop ALL Services	2021-04-06 21:01	Loaded 226 rows into domain	BirdSpecies	20210406 210208	Update Domain List	No Alert Information to display
2021-04-06 18:00	Compress GDB	2021-04-06 18:00	Loaded 1836 rows into domain	AllSpecies	20210406 210158	Update Domain List	
2021-04-05 23:34	Generate Report Data	2021-04-06 05:26	37 of 37 Successful Stop	PestPlantRegionalParkInfestation	20210406 210138	Stop ALL Services	
2021-04-05 21:49	Update External Data	2021-04-05 23:34	36 of 37 Successful Stop	BarrierFence	20210406 210136	Stop ALL Services	
2021-04-05 21:34	Start ALL Services	2021-04-05 21:49	35 of 37 Successful Stop	TradeRegulation	20210406 210133	Stop ALL Services	
2021-04-05 21:33	Update Survey123 Form	2021-04-05 21:34	34 of 37 Successful Stop	Biocontrol	20210406 210131	Stop ALL Services	
2021-03-31 12:21	ReMap Data Source	2021-03-31 12:24	33 of 37 Successful Stop	PestPlantEcologicalRestorationContract	20210406 210129	Stop ALL Services	
2020-10-16 17:33	Create GDB	2020-10-16 18:35	32 of 37 Successful Stop	Site	20210406 210126	Stop ALL Services	
Job Running			31 of 37 Successful Stop	SiteAdmin	20210406 210124	Stop ALL Services	
2021-04-06 21:01	Update Domain List		30 of 37 Successful Stop	Marine	20210406 210122	Stop ALL Services	
			29 of 37 Successful Stop	REA	20210406 210120	Stop ALL Services	Job Failed
			28 of 37 Successful Stop	PestPlantFreshwaterObs	20210406 210118	Stop ALL Services	
			27 of 37 Successful Stop	PestPlantLowIncidence	20210406 210115	Stop ALL Services	
			26 of 37 Successful Stop	PestPlantRegionalParkSurveyControl	20210406 210113	Stop ALL Services	
			25 of 37 Successful Stop	PestPlantRegionalPark	20210406 210111	Stop ALL Services	
			24 of 37 Successful Stop	Engagement	20210406 210109	Stop ALL Services	
			23 of 37 Successful Stop	CleaningStation	20210406 210107	Stop ALL Services	
			22 of 37 Successful Stop	PestPlantBufferRoadside	20210406 210104	Stop ALL Services	
			21 of 37 Successful Stop	ReferenceLayer	20210406 210102	Stop ALL Services	
			20 of 37 Successful Stop	HealthAndSafety	20210406 210100	Stop ALL Services	
			19 of 37 Successful Stop	SurveyObs	20210406 210058	Stop ALL Services	No Failed Jobs Detected
			18 of 37 Successful Stop	PestPlantBuffer	20210406 210056	Stop ALL Services	
			17 of 37 Successful Stop	BFA	20210406 210053	Stop ALL Services	

Attribute rules

- Generate uniqueID
- Generate search field (combination of multiple fields)
- Populate fields from reference table
- Transfer data to another field
- Calculations
- Search through related records

Short ID

INP000961

Search

Paua avg virus, Pāua avg virus,
Abalone Viral Ganglioneuritis

Ecosystem Current Extent (Features: 34293, Selected: 0)

Ecosystem Code	Ecosystem Name	Ecosystem Group
DN2	Spinifex, pīngao grassland/sedgeland	Dune

Revegetation (Features: 2, Selected: 0)

Short ID	RevegetationShortID
REV000012	REV000012
REV000014	REV000014

Adult Density	Juvenile Density	Seedling Density	Total Percent...	Total Area C...
30%	15%	0%	45%	6.750000

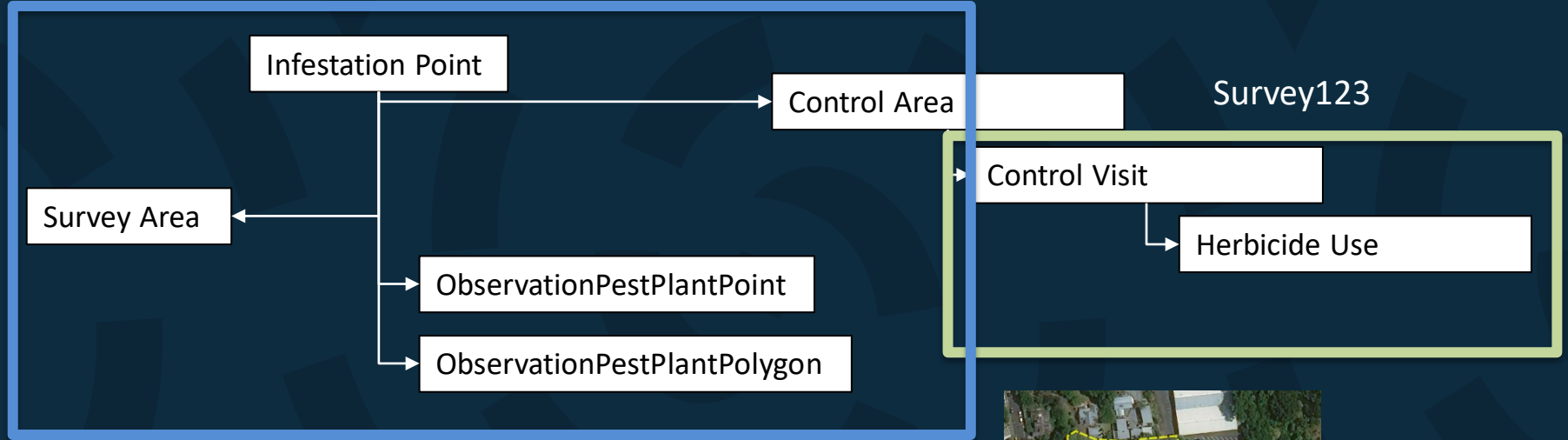
Last Check...	Date Last Found	Infestation Status
2020, 1:00 PM	2/21/2020, 1:00 PM	Monitoring

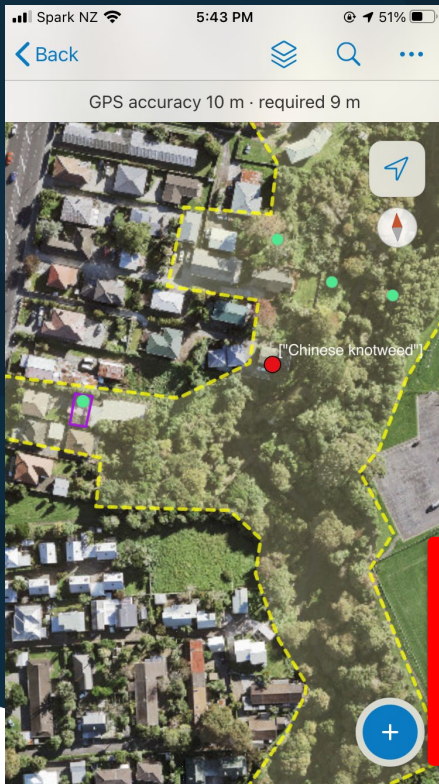
Te Kōwhirianga o Tāmaki Makaurau

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Collector





Infestation Point

Spark NZ 6:24 PM 49%

Back

["Chinese knotweed"]: Active
1751670.49E 5916471.83N 10.0 km

Species: ["Chinese knotweed"]
Infestation Point ID: INP001117
Infestation Status: Active
Date Last Checked: 7 Apr 2021
Date Last Found: 6 Apr 2021
Advisor Responsible: Ross Cowie

Annual Visits Required: 4
Contractor: Treescape

Notes: Oakley Creek

Record Status: Active/Current

RELATED

[Pest Plant - Area](#)

[Pest Plant - Point](#)

Weed Control Area

Spark NZ 5:44 PM 51%

Back

Waterview Chinese Knotweed:...
Area 97 m² 10 km

Weed Control Area Name: Waterview Chinese Knotweed
Physical Address:
Site Description:

Control Status: Complete
Start Date: 6 Apr 2021
End Date: 7 Apr 2021

[Add Visit Record](#)

Total Visits:
Visit Notes:

Council Business Unit: Environmental Services
Council Advisor: Rowena Gilchrist

Record Status: Active/Current

RELATED

Weed Control Area GlobalID passed through to Survey123 to create relationship

Control Visit > Herbicide

Collector 5:44 PM 51%

Pest Plant Control Visits

Pest Plant Control Visits

Control Type *

☐ Chemical
☐ Manual
☐ Chemical and Manual
☐ No Control

Number of people

Entry Time *

Date
 Time

Exit Time

Wednesday, 7
 5:44 PM

Total Hours of All Visits
Auto-calculates from entry and exit times

Herbicides + Additives

Type

☒ Agrichemical
☐ Penetrant/Wetting Agent
☐ Other Additive

Brand Name

Active Ingredient

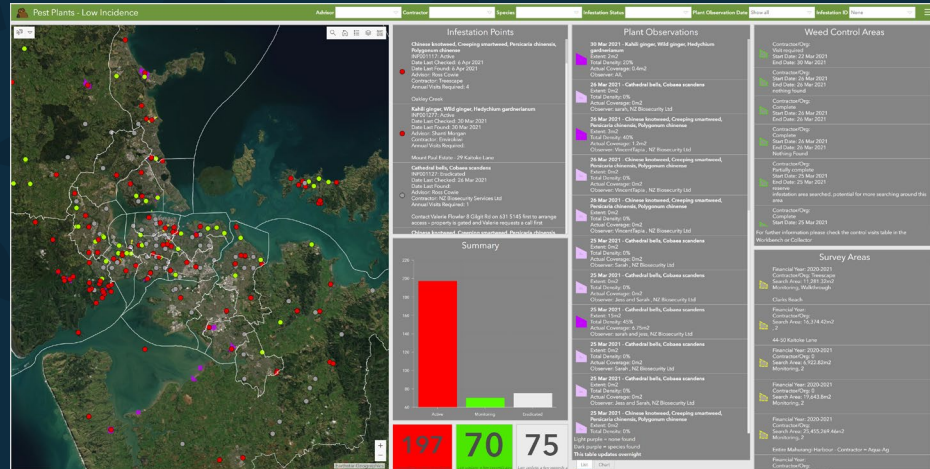
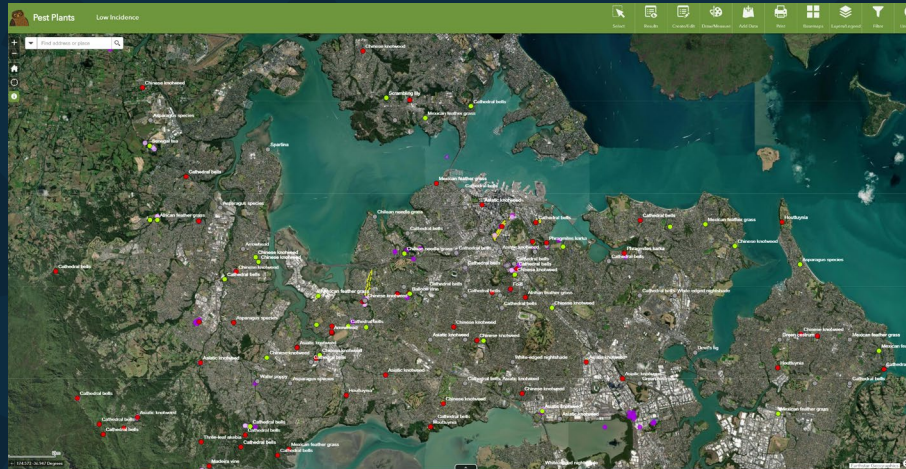
Measure Amount

Measure Unit

☐ ml
☐ grams
☐ litres

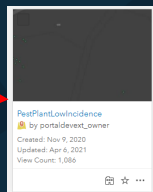
1 of 1

Internal Use – Auckland Council

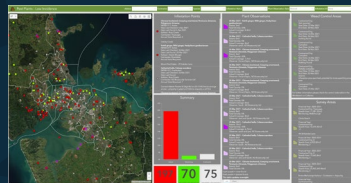
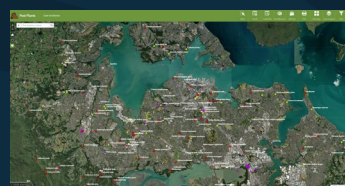
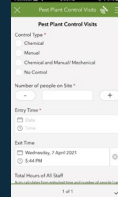


External Use – Contractors



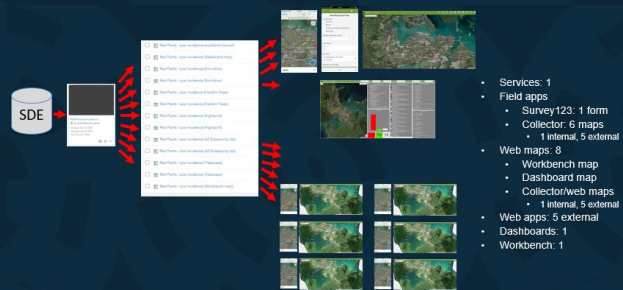


- ☐ Pest Plants - Low Incidence (Auckland Council)
- ☐ Pest Plants - Low Incidence (Dashboard map)
- ☐ Pest Plants - Low Incidence (Envirokiwi)
- ☐ Pest Plants - Low Incidence (Envirokiwi)
- ☐ Pest Plants - Low Incidence (Franklin Trees)
- ☐ Pest Plants - Low Incidence (Franklin Trees)
- ☐ Pest Plants - Low Incidence (Highpoint)
- ☐ Pest Plants - Low Incidence (Highpoint)
- ☐ Pest Plants - Low Incidence (NZ Biosecurity Ltd)
- ☐ Pest Plants - Low Incidence (NZ Biosecurity Ltd)
- ☐ Pest Plants - Low Incidence (Treescape)
- ☐ Pest Plants - Low Incidence (Treescape)
- ☐ Pest Plants - Low Incidence (Workbench map)

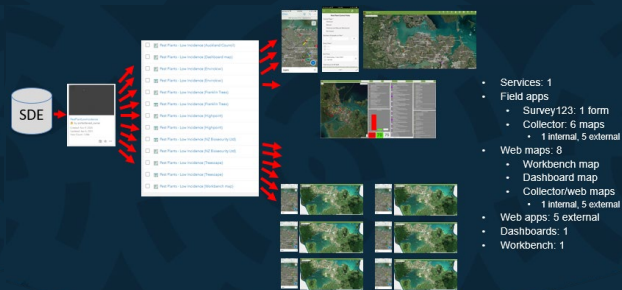


- Services: 1
- Field apps
 - Survey123: 1 form
 - Collector: 6 maps
 - 1 internal, 5 external
- Web maps: 8
 - Workbench map
 - Dashboard map
 - Collector/web maps
 - 1 internal, 5 external
- Web apps: 5 external
- Dashboards: 1
- Workbench: 1

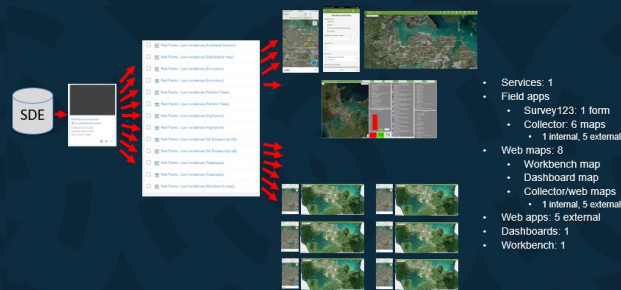
DEV



TEST



PROD



More Auckland tracks and parks closed due to threat of kauri dieback disease

Brittany Keogh · 16:34, May 30 2019



40 hihi released at Shakespear Regional Park, marking return to Auckland mainland

Kendall Hutt · 17:19, Jul 03 2020



Mayor Goff hits million tree mark

Published: 14 June 2019

Share

Muriwai gecko: Unique species 'hanging on' on Auckland's doorstep

Kendall Hutt · 05:00, Jan 03 2021



Returning our lakes to good health

Published: 25 August 2018

Share



West Coasters warned to watch out for new toxic beach weed

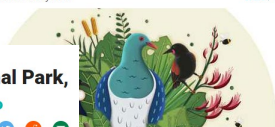
Lois Williams Local Democracy Reporter · 21:08, Mar 23 2021



Pest free Autumn in your backyard

Published: 14 May 2020

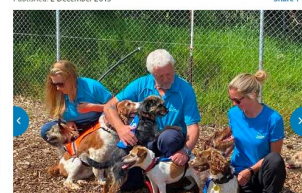
Share



Auckland Council's first pest detection dog retires after 11 years

Published: 2 December 2019

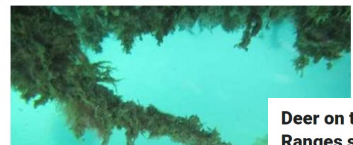
Share



Workshops to prevent pests in Great Barrier's waters

Published: 16 May 2019

Share



Deer on the loose in Auckland's Waitākere Ranges shot dead

Brittany Keogh Tonika Tokalau · 10:34, Sep 11 2020



Regional Pest Management Plan comes into effect

New plan to take care of nature

Published: 6 November 2020

Share



Together, we're making gains for our green spaces

Published: 4 June 2019

Share



Themes

Programmes

Ecological Management

- Biodiversity Focus Areas
- Restoration Planting
- Species Management

Engagement

- Biosecurity Champions

Hauraki Gulf Biosecurity

- Wharf Inspections

Marine

- Hull Surveillance

Pathogens

- Health Monitoring
- Infrastructure

Pest Animals

- Argentine Ants
- Deer
- Goats
- Mustelids
- Pigs

Pest Plants

- Aotea Site Led
- Biocontrol
- Buffer
- Freshwater
- Low Incidence
- Moth Plant
- Regional Parks
- Rhamnus

RPMP

- Exemption
- Trade Regulation

	Portal Item	Workbench	Web Application	Dashboard	Web Map	Form	Basemap	Feature Service	Group	Site	Site Page	fGBD	MapService	Image	Next
	965	34	51	67	191	50	36	120	66	4	18	3	131	12	0
PROD users: 556	336	14	24	23	72	15	12	40	39	0	0	0	44	1	0
TEST users: 46	368	13	31	23	75	20	12	40	16	2	13	0	43	10	0
DEV users: 37	261	7	12	21	44	18	12	40	11	2	5	3	44	1	0
SDE	Feature Class	Table	Attachment	Reporting	Relationship	Attribute Rule	Domain								
	156	139	186	60	253	602	958								
	 52	 46	 62	 20	 84	 200	 314								
	 52	 46	 62	 20	 84	 200	 329								
	 52	 47	 62	 20	 85	 202	 315								
SDE Item	System Note	Process Note	Portal Item Copy process	Reporting Note											

Ruru Portal Items			All ENV values	All Owner values	All Portal Type values	All Folder values	All Layer Name values	All DataName values	All GlobalID values	
965			2021.04.06							
DEV Basemap			BFA/Ecosystem Edits							Portal/Owner
Aerial Basemap			801712ef1061433ab097cabf2a8740c							
shared to organization			0bb4344acd7c4964800878e078e08ba5							
DEV Basemap			Biocontrol							Portal/Owner
ESRI World Imagery			137a7b7020204eaa35c24d2022ad545							
shared to organization			#2d3358cede40c89d74700117b5138							
DEV Basemap			Biocontrol							Portal/Owner
ESRI World Imagery			6651c2a0f05f922b5e09fa0dc72abb							
shared to organization			3cc8fdea8d5143c19f1072979ec26c74							
DEV Basemap			Biocontrol							Portal/Owner
ESRI World Imagery			8138a0e4e44d071b3c01c0a01128							
shared to organization			3cc8fdea8d5143c19f1072979ec26c74							
DEV Basemap			Biocontrol							Portal/Owner
Grey Canvas Basemap			84da7ab707443d792ea85977e75a5a0							
shared to organization			6db9c8a891c49859c8e8154342e2672							
DEV Basemap			Ecological Management							Portal/Owner
NZ - Canvas - Light Grey			811a4b397024724ee13ce40c214e63							
shared to organization			24ea0989b09246263934388ced5302							
DEV Basemap			Ecological Management							Portal/Owner
NZ - Imagery			d2911a2b6a549e4983b4f846f1299							
shared to organization			2f6804fde24232edafe87b436c2cd5							
DEV Basemap			Ecological Management - Managing Priority Places on Private Land							Portal/Owner
OfflineBase - Aerial			809105bb443d4fa287bd304c23eda4a1							
shared to organization			b09105bb443d4fa287bd304c23eda4a1							
DEV Basemap			Ecological Management - Planting							Portal/Owner
OfflineBase - LightGray			d5d7f6295140840ca0779ad12c2df							
shared to organization			71455fe8c1a94ac1a91f7c7d6cb1a86e							
DEV Basemap			Ecological Management - Planting							Portal/Owner
OfflineBase - Vector			809357cd9ab14571a502a635e997a6101							
shared to organization			8245b0a8db954304a1100a5e34ad62ca							
DEV Basemap			Ecological Management - Planting							Portal/Owner
Pest Plant Observation - Eagle basemap			881103dd346043184087a349f9142							
shared to organization			8caf8c66db9340d9a8517a327f1358b							
DEV Basemap			GISInfo							Portal/Owner
Pest Plant Observation - ESRI basemap			25ab9a528a44922574913bd2093cc							
shared to organization			1cd5d5bd2884ad8ac56a2b4913f8d0							
DEV Basemap			GISInfo							Portal/Owner
Terrain Basemap			cd284e6334b44129a6374463346c50c							
shared to organization			8270ecd7cc7b470aba0191c5a55f9f06							
DEV Basemap			GISInfo							Portal/Owner
Texture Basemap			d18769923475425aed57c268104b3644							
shared to organization			aab5618da02c40028e91a846a85a0a1							
Item			WebMap							Portal/Owner
Dashboard			InvalidRefUrl							
Form			InvalidRefItem							
FeatureService			InvalidRefEnv							
App			NoContent							
FeatureLayer										

245			2021.04.06							
DEV Basemap	Basemap		BFA/Ecosystem Edits							Portal/Owner
Pest Plant Observation - Eagle basemap	Portal/Owner		801712ef1061433ab097cabf2a8740c							
shared to organization		8caf8c66db9340d9a8517a327f1358b	DEV							
DEV Basemap	Basemap		137a7b7020204eaa35c24d2022ad545							
Biocontrol (Collector map)	Portal/Owner		PRCD							
shared to organization		29b372b91d474f09f0d8fcd846b910b	6a51c2a0f05f922b5e09fa0dc72abb							
DEV Basemap	Map Service		TEST							
Biocontrol (Dashboard map)	Portal/Owner		2b10097c7a744b88ba5089d0c585b							
shared to organization		68d63d85192483cbaf193aedb266	DEV							
DEV Basemap	Basemap		PRCD							
Biocontrol (Workbench map)	Portal/Owner		8895502acc542d074bc5f9ba153470e							
shared to organization		73a7326f79e4040992775fb99b0e263	TEST							
DEV Conservation	Basemap		d2911a2b6a549e4983b4f846f1299							
Ruru home (Workbench map)	Portal/Owner		DEV							
shared to organization		ce0733b8f8447cab48e9cbfa0052c3f	Ecological Management - Mahurangi East Restoration							
DEV Conservation	Basemap		Ecological Management - Managing Priority Places on Private Land							
Species Information (Dashboard map)	Portal/Owner		d6f0211b31644b1a07d2120743b657							
shared to organization		66f34bd91284639b0b81504be0a7c4	DEV							
DEV Ecological Management	Basemap		d5d7f6295140840ca0779ad12c2df							
Ecological Management (Collector map)	Portal/Owner		PRCD							
shared to organization		597c0135073e41aab47fb857f030c6	Ecological Management - Planting							
DEV Ecological Management	Basemap		Ecological Management - Planting							
Ecological Management (Dashboard map)	Portal/Owner		TEST							
shared to organization		54be7eb701443d792ce857e95a5ed	GIS Training Dashboard							
DEV Ecological Management	Basemap		851103dd346043184087a349f9142							
Ecological Management (Workbench map)	Portal/Owner		DEV							
shared to organization		d2190fed22754e29b41ad192feded	GISInfo							
DEV Ecological Management Revegetation	Basemap		PRCD							
Ecological Management - Planting (Dashboard map)	Portal/Owner		10476749b3c07797457a8f15928b							
shared to organization		c3c8948dd3a4a8a78437a2c004ba6c	DEV							
DEV Ecological Management Revegetation	Basemap		PRCD							
Ecological Management - Planting (Workbench map)	Portal/Owner		722af84e424029261d53e8e7285f							
shared to organization		c805c4d4f5844c4f0d0e915acd355a8	TEST							
DEV Ecological Management Revegetation	Basemap		DEV							
Revegetation (Workbench map)	Portal/Owner		PRCD							
shared to organization		fddcd24e50641e3870939921780fbbd	Health and Safety							
DEV Health and Safety	Basemap		PRCD							
Health and Safety (Dashboard map)	Portal/Owner		807302da18116666666666666666							
shared to organization		d8f99038a540c525390759ace7d07	Health and Safety (Dashboard map)							
WebMap	InValidRefUri	InValidRefItem	InValidRefEnv	NoContent						



Outline

- Background
- What is Ruru?
- How does Ruru work?
 - Data structure
 - Automation
- Ruru example
- Ongoing work
 - Data migration/decommission
 - Continued improvements

- Existing data in AGOL, SDE, spreadsheets, PDF, paper

A	B	C	D	E	F	G	H	I	J	K	L
Priority for migration	Theme	Programme/dataset	Status	Status comments	Data be	Original source	Decommission	Source Type	Source Comments	Planned cutover	Bio Info SME
1	All	Sites	COMPLETE		YES			Multiple	Gdb		
1	All	Species list	COMPLETE		YES	YES		Multiple			
1	All	RPMP areas	COMPLETE		YES	YES					
2	Pest Plants	Biomap	COMPLETE		YES	YES		Tablet/FGDB	Data is on Ruru dev. The majority of data has Amanda/David Hall		Ruru dev
2	Pest Plants	Pest plants (Regional Parks)	IN PROGRESS	Ongoing as data is tidied by Holly	NO						
2	Pest Plants	Pest plants (buffers)	COMPLETE		YES	YES					
2	Pest Plants	Pest plants (Low Incidence)	COMPLETE		YES	YES					
2	Pest Plants	Pest plants (Rhannus)	COMPLETE		YES	YES					
2	Pest Plants	Pest plants (Moth plant)	COMPLETE		YES	YES					
2	Pest Plants	Exotic Flora AGOL	COMPLETE		NA	YES					
3	Biocontrol	Biocontrol	COMPLETE								
3	Ecological Management	Biodiversity Focus Areas	COMPLETE		YES	NO					
3	Ecological Management	BFA database	IN PROGRESS	Check BFA new names	YES	YES					
3	Ecological Management	Fauna database	COMPLETE		YES	NO					
3	Ecological Management	Threatened plants database	IN PROGRESS	Need to check some records Some datasets moved, i.e. bird monitoring locations	YES	NO					
3	Ecological Management	Survey data	IN PROGRESS		YES	NO					
3	Ecological Management	SEA data									
3	Ecological Management	Ecosystem Current Extent	COMPLETE		YES	NO					
3	Ecological Management	Ecosystem Potential Extent	COMPLETE		YES	NO					
3	Ecological Management	Ecosystem reference table	COMPLETE		YES	NO					

The image also shows a screenshot of a software interface, likely ArcGIS, displaying a workspace with various data layers and tools. The workspace includes a 'Navigator' pane on the left showing a tree of data sources, and a main area with a map and several data layers. The layers include 'FaunaAucklandCouncil_06092020 (XLSX)', 'SpecialCopy24112020 (XLSX)', 'FaunaAucklandCouncil_06092020 (XLSX)', 'DataMigration (GEODATABASE_FILE) - 1', 'portal (ARCGISPORTALFEATURES) - 1', 'portal (ARCGISPORTALFEATURES) - 3', 'portal (ARCGISPORTALFEATURES) - 2', 'DataMigration (GEODATABASE_FILE) - 2', 'Transformers (18)', 'Upgradeable Transformers (4)', 'Disabled Connections (5)', 'Bookmarks (12)', 'User Parameters (29)', 'Published Parameters (7)', 'Private Parameters', 'FME Server Parameters (22)', 'Web Connections', 'Workspace Resources', 'Workspace Parameters', 'Name <not set>', 'Password <not set>', 'Description', 'Translation', 'Logging', 'Reader/Writer Redirect', 'Scripting', and 'Workspace Search'.

- AGOL, GeoMaps, Open Data, SDE, spreadsheets

GeoMaps

Address: Search the map

1: 500,000 Zoom

Title
GeoMaps Public

Description
Latest GIS Viewer for Auckland Council, containing spatial and non-spatial data from across the Auckland region that includes: Property, Rating, Plans and Underground Services. There is also a wealth of other data available at your finger tips, via the Themes or Data Discovery tool. Please be aware that there are Terms and Conditions (see Disclaimer) at bottom of pages associated with the website and the information contained herein is provided by Auckland Council users as a service.

Announcements
26/03/2021 – Search Items in Portal Update
Enhancement to the search data function.
Users now have the ability to search for data using the layer name, or a word within a layer name.

Help with GeoMaps
Please read the information in the [help section](#) to get the most out of this service.

Home Gallery Map Scene Groups Content Organization

If you experience things after a few minutes.
If you require further assistance contact the Auckland Council

Content
Add Item Create

Search All My Content

Table Date Modified Filter

1 - 20 of 965 in All My Content

Title	Modified
Predeparture and Surveillance Information	Mar 30, 2021
Marine Biosecurity for Web App and Dashboards	Mar 26, 2021
Trees for Survival Site Assessment Form_Chinali	Mar 23, 2021
Trees for Survival Site Assessment Form_Addhead_KelstonGirls	Mar 23, 2021
Trees for Survival Site Assessment Form_Hallinan	Mar 23, 2021
Trees for Survival Site Assessment Form_Zimmerli	Mar 23, 2021

Auckland Council
Home Auckland Council GeoMaps Viewer Contact Us Help

Auckland Council Open Data

Search for Data

Welcome to the Auckland Council Open Data Portal. Auckland Council Open Data is a public platform where the council shares data about the city we live, work and play in. We believe that knowledge is power and that by making data free and open it will promote progress, unlock innovation and, by its creative use, result in economic value.

Use this site to discover, explore and download council-owned datasets, as well as find links to other open data websites, such as [LINZ](#), [Watercare](#), [Auckland Transport](#) and [Retrolens](#). Most data is available to you under the Creative Commons Licence 4.0. Where specific restrictions apply to the dataset you are interested in, this will be stipulated on

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 - Data migration/decommission
 - Continued improvements

- Supporting initial implementation
 - Training, fixing bugs etc
- Add new work programmes
- Ongoing collaboration with council departments and external organisations
- Enhancements

Any questions

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vivienne.cole@aucklandcouncil.govt.nz