



1

## Tāmaki Paenga Hira

- Auckland War Memorial Museum
- Auckland, New Zealand
- Established 1929
- 6M+ collections

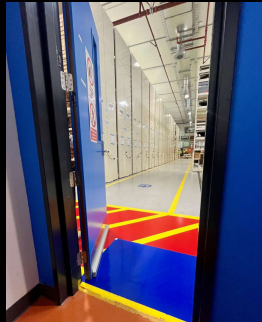
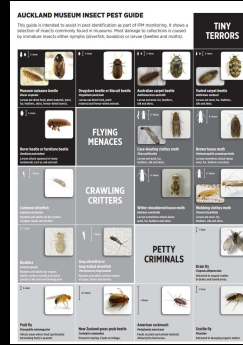
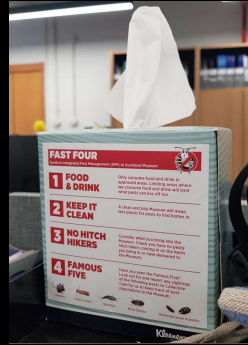
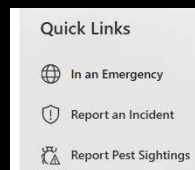




2

## IPM at Auckland Museum

- IPM plan since 2010
- Bug Busters committee (cross-department)
- Shared cleaning & sticky mat rosters
- Monthly monitoring with trained pest checkers
- Pest sightings form (all staff)



3

## Evolution of data recording

	A	B	C	D	E	F	FC	LN	LV	LV
1	Room	Location	Date	14/10/11	17 October 2011	16 November 2011	29/04/2015	13/09/2017	15/10/2017	24/10/2017
2			Name on Trap	Alexandra Barrera	Saylor	Savannah & Kash		Kashon Chambers	Klean3	Mia Keith
3	COLLECTING IMAGING									
12	HUMAN HISTORY									
13	F36 [Applied Arts Workshop]	In the far left hand corner of the room between	F36 TRAP 1				clean	clean	1x adult silverfish	
14	F36 [Applied Arts Workshop]	On the right as you enter the room, on the floor	F36 TRAP 2				clean	clean	in-charged due to date	
15	F36 [Applied Arts Workshop]	On the right as you enter the room, on the floor	INTRODUCED 16/10/2013 - F36 TRAP 3				clean			
16	F36 [Applied Arts Workshop]	On the right as you enter the room, on the floor	INTRODUCED 16/10/2013 - F36 TRAP 4				clean			
17	F36 [Applied Arts Workshop]	To the right of the door into the store	Demetrius Monitor 1 installed 15/01/18				clean			
18	G20 [Hutu]	In the left of the door frame, between the post	G20 TRAP 1				clean	1 small midge fly	top found. Trap replaced	
19	G57 [Carving]	On the ground floor, in the far left corner as you	G57 TRAP 1		TRAP INSTALLED	see notes in date column	clean	clean	1x little orange spider	
20	G61 [Maori Carving]	On the mezzanine level, on the right-hand side	G61 TRAP 3		TRAP INSTALLED	see notes in date column	clean	clean	1x adult silverfish	
21	G57 [Carving]	On the ground floor, at the far end of the store	G57 TRAP 3		TRAP INSTALLED	see notes in date column	clean	clean	1x adult silverfish	
22	G57 [Carving]	On the mezzanine level at the top of the stairs	INTRODUCED 18/06/2013 141 G57 Trap 4				clean	clean	1x adult silverfish	
23	G57 [Carving]	To the left of the double doors leading into the	INTRODUCED 18/10/2013 - G57 Trap 5				clean	clean	1x adult silverfish	
24	G57 [Carving]	To the right of the double doors leading into the	INTRODUCED 18/10/2013 - G57 Trap 6				clean	clean	2 adult silverfish	
25	G57 [Carving]	To the right of the double doors leading into the	DID NOT REPLACE THIS TRAP 6 March 2019. ROOM BEING DECONSTRUCTED AND TRAP GETS MOVED				clean	clean	2 adult silverfish	
26	MAORI DEVELOPMENT TEAM									
27	J27	On ground against far end of right wall, by G2	INTRODUCED 15/08/2016 - J27 TRAP 1							1x silverfish
28	J27	On ground against far end of right wall, by G2	INTRODUCED 15/08/2016 - J27 TRAP 2							Clean and replaced
29	J27	On ground at ISS stairwell landing, behind door	INTRODUCED 15/08/2016 - J27 TRAP 3							
30	J27	On ground at ISS stairwell landing, behind door	INTRODUCED 15/08/2016 - J27 TRAP 4							
31	J27	On ground at ISS stairwell landing, behind door	INTRODUCED 15/08/2016 - J27 TRAP 5							
32	J27	On ground at ISS stairwell landing, behind door	INTRODUCED 15/08/2016 - J27 TRAP 6							
33	J27	On ground at ISS stairwell landing, behind door	INTRODUCED 15/08/2016 - J27 TRAP 7							
34	J27	On ground at ISS stairwell landing, behind door	INTRODUCED 15/08/2016 - J27 TRAP 8							
35	J27	On ground at ISS stairwell landing, behind door	INTRODUCED 15/08/2016 - J27 TRAP 9							
36	J27	On ground at ISS stairwell landing, behind door	INTRODUCED 15/08/2016 - J27 TRAP 10							
37	J27	On ground at ISS stairwell landing, behind door	INTRODUCED 15/08/2016 - J27 TRAP 11							
38	J27	On ground at ISS stairwell landing, behind door	INTRODUCED 15/08/2016 - J27 TRAP 12							
39	J27	On ground at ISS stairwell landing, behind door	INTRODUCED 15/08/2016 - J27 TRAP 13							
40	J27	On ground at ISS stairwell landing, behind door	INTRODUCED 15/08/2016 - J27 TRAP 14							
41	J27	On ground at ISS stairwell landing, behind door	INTRODUCED 15/08/2016 - J27 TRAP 15							
42	J27	On ground at ISS stairwell landing, behind door	INTRODUCED 15/08/2016 - J27 TRAP 16							
43	J27	On ground at ISS stairwell landing, behind door	INTRODUCED 15/08/2016 - J27 TRAP 17							
44	J27	On ground at ISS stairwell landing, behind door	INTRODUCED 15/08/2016 - J27 TRAP 18							
45	J27	On ground at ISS stairwell landing, behind door	INTRODUCED 15/08/2016 - J27 TRAP 19							
46	J27	On ground at ISS stairwell landing, behind door	INTRODUCED 15/08/2016 - J27 TRAP 20							
47	J27	On ground at ISS stairwell landing, behind door	INTRODUCED 15/08/2016 - J27 TRAP 21							
48	J27	On ground at ISS stairwell landing, behind door	INTRODUCED 15/08/2016 - J27 TRAP 22							
49	J27	On ground at ISS stairwell landing, behind door	INTRODUCED 15/08/2016 - J27 TRAP 23							
50	J27	On ground at ISS stairwell landing, behind door	INTRODUCED 15/08/2016 - J27 TRAP 24							
51	J27	On ground at ISS stairwell landing, behind door	INTRODUCED 15/08/2016 - J27 TRAP 25							
52	J27	On ground at ISS stairwell landing, behind door	INTRODUCED 15/08/2016 - J27 TRAP 26							
53	J27	On ground at ISS stairwell landing, behind door	INTRODUCED 15/08/2016 - J27 TRAP 27							
54	J27	On ground at ISS stairwell landing, behind door	INTRODUCED 15/08/2016 - J27 TRAP 28							
55	J27	On ground at ISS stairwell landing, behind door	INTRODUCED 15/08/2016 - J27 TRAP 29							
56	J27	On ground at ISS stairwell landing, behind door	INTRODUCED 15/08/2016 - J27 TRAP 30							
57	J27	On ground at ISS stairwell landing, behind door	INTRODUCED 15/08/2016 - J27 TRAP 31							
58	J27	On ground at ISS stairwell landing, behind door	INTRODUCED 15/08/2016 - J27 TRAP 32							
59	J27	On ground at ISS stairwell landing, behind door	INTRODUCED 15/08/2016 - J27 TRAP 33							
60	J27	On ground at ISS stairwell landing, behind door	INTRODUCED 15/08/2016 - J27 TRAP 34							
61	J27	On ground at ISS stairwell landing, behind door	INTRODUCED 15/08/2016 - J27 TRAP 35							
62	J27	On ground at ISS stairwell landing, behind door	INTRODUCED 15/08/2016 - J27 TRAP 36							
63	J27	On ground at ISS stairwell landing, behind door	INTRODUCED 15/08/2016 - J27 TRAP 37							
64	J27	On ground at ISS stairwell landing, behind door	INTRODUCED 15/08/2016 - J27 TRAP 38							
65	J27	On ground at ISS stairwell landing, behind door	INTRODUCED 15/08/2016 - J27 TRAP 39							
66	J27	On ground at ISS stairwell landing, behind door	INTRODUCED 15/08/2016 - J27 TRAP 40							
67	J27	On ground at ISS stairwell landing, behind door	INTRODUCED 15/08/2016 - J27 TRAP 41							
68	J27	On ground at ISS stairwell landing, behind door	INTRODUCED 15/08/2016 - J27 TRAP 42							
69	J27	On ground at ISS stairwell landing, behind door	INTRODUCED 15/08/2016 - J27 TRAP 43							
70	J27	On ground at ISS stairwell landing, behind door	INTRODUCED 15/08/2016 - J27 TRAP 44							
71	J27	On ground at ISS stairwell landing, behind door	INTRODUCED 15/08/2016 - J27 TRAP 45							
72	J27	On ground at ISS stairwell landing, behind door	INTRODUCED 15/08/2016 - J27 TRAP 46							
73	J27	On ground at ISS stairwell landing, behind door	INTRODUCED 15/08/2016 - J27 TRAP 47							
74	J27	On ground at ISS stairwell landing, behind door	INTRODUCED 15/08/2016 - J27 TRAP 48							
75	J27	On ground at ISS stairwell landing, behind door	INTRODUCED 15/08/2016 - J27 TRAP 49							
76	J27	On ground at ISS stairwell landing, behind door	INTRODUCED 15/08/2016 - J27 TRAP 50							
77	J27	On ground at ISS stairwell landing, behind door	INTRODUCED 15/08/2016 - J27 TRAP 51							
78	J27	On ground at ISS stairwell landing, behind door	INTRODUCED 15/08/2016 - J27 TRAP 52							
79	J27	On ground at ISS stairwell landing, behind door	INTRODUCED 15/08/2016 - J27 TRAP 53							
80	J27	On ground at ISS stairwell landing, behind door	INTRODUCED 15/08/2016 - J27 TRAP 54							
81	J27	On ground at ISS stairwell landing, behind door	INTRODUCED 15/08/2016 - J27 TRAP 55							
82	J27	On ground at ISS stairwell landing, behind door	INTRODUCED 15/08/2016 - J27 TRAP 56							
83	J27	On ground at ISS stairwell landing, behind door	INTRODUCED 15/08/2016 - J27 TRAP 57							
84	J27	On ground at ISS stairwell landing, behind door	INTRODUCED 15/08/2016 - J27 TRAP 58							
85	J27	On ground at ISS stairwell landing, behind door	INTRODUCED 15/08/2016 - J27 TRAP 59							
86	J27	On ground at ISS stairwell landing, behind door	INTRODUCED 15/08/2016 - J27 TRAP 60							
87	J27	On ground at ISS stairwell landing, behind door	INTRODUCED 15/08/2016 - J27 TRAP 61							
88	J27	On ground at ISS stairwell landing, behind door	INTRODUCED 15/08/2016 - J27 TRAP 62							
89	J27	On ground at ISS stairwell landing, behind door	INTRODUCED 15/08/2016 - J27 TRAP 63							
90	J27	On ground at ISS stairwell landing, behind door	INTRODUCED 15/08/2016 - J27 TRAP 64							
91	J27	On ground at ISS stairwell landing, behind door	INTRODUCED 15/08/2016 - J27 TRAP 65							
92	J27	On ground at ISS stairwell landing, behind door	INTRODUCED 15/08/2016 - J27 TRAP 66							
93	J27	On ground at ISS stairwell landing, behind door	INTRODUCED 15/08/2016 - J27 TRAP 67							
94	J27	On ground at ISS stairwell landing, behind door	INTRODUCED 15/08/2016 - J27 TRAP 68							
95	J27	On ground at ISS stairwell landing, behind door	INTRODUCED 15/08/2016 - J27 TRAP 69							
96	J27	On ground at ISS stairwell landing, behind door	INTRODUCED 15/08/2016 - J27 TRAP 70							
97	J27	On ground at ISS stairwell landing, behind door	INTRODUCED 15/08/2016 - J27 TRAP 71							
98	J27	On ground at ISS stairwell landing, behind door	INTRODUCED 15/08/2016 - J27 TRAP 72							
99	J27	On ground at ISS stairwell landing, behind door	INTRODUCED 15/08/2016 - J27 TRAP 73							
100	J27	On ground at ISS stairwell landing, behind door	INTRODUCED 15/08/2016 - J27 TRAP 74							

- Early stage
  - Basic Excel spreadsheet used to log insect counts from sticky monitors. Simple, but limited in scope
- Expansion of monitoring
  - Grew beyond collection stores → kitchens, offices, galleries, back of house areas
  - Building-wide data needed to support cases for infrastructure improvements (e.g. brush seals, HVAC, housekeeping)
- Challenges emerged
  - Inconsistent terminology, irregular monitoring intervals Irregular monitoring intervals created data gaps
  - More monitors = more insects counted → inflated raw numbers without reflecting actual risk
- Data is only as valuable as the way it is recorded, standardised, and communicated

4



## Data in action

- Seasonal patterns
  - Evidence supported case for enhanced cleaning & vigilance in high-risk periods
- Space function differences
  - Informed policies: designated food zones & centralised eating spaces
- Exhibition insights
- Impact of evidence
  - Data strengthened advocacy
  - Conversations with decision-makers more effective
- Accessible data
  - Actively shaping policies, space planning, and daily museum practice



7

## Social Impact




- IPM shaped by culture as well as tools
- Staff engagement
  - Builds confidence, literacy, and investment in IPM
  - Shifts IPM from a specialist task to a museum-wide responsibility
  - Staff empowered to engage with data
- Outcomes
  - Greater pest literacy across teams
  - More collaboration & open communication
  - Shared ownership of preventive care
- Excel as an enabler
  - Familiar, low-cost, adaptable
  - Transferable skills for staff → supports wider capability-building
  - Flexible enough to evolve with museum needs
- Visible data helps to socialize IPM

8



9



# Questions?

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10