Ministry for Primary Industries Manatū Ahu Matua



How to deal with pesky (and not so pesky) pests Andre Post & Cillian Adamson









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What is an Incursion Response?

When we find a pest or disease we investigate it, assess the risk and then decide how best to respond

The big three



Mycoplasma Bovis



Myrtle Rust



Bonamia Ostraea



And many more!



Incursion Response Management

Historic Issues:

- Inconsistent approach across Ministry
- Varying data quality, format and capture methodologies
- Often non-spatially captured
- Data silos
- Requirements gathering has often been compartmentalised for single aspects of a response (Frontline staff vs Labs)
- Knowledge delays in report writing
- Initial panic, rushed decision making and data from various sources coming in – not always relevant



Complexity of Responses

• Where?

- Our people, places of interest, infrastructure & equipment, & the incursion

Requirements Gathering

- What information do we to manage the situation

- Task Management
 - Who needs to be where, doing what, to get this thing under control
- Live Data, Reminders and Tasking Prompts
- Situational Awareness



Tiaki (verb) (-na) to guard, keep

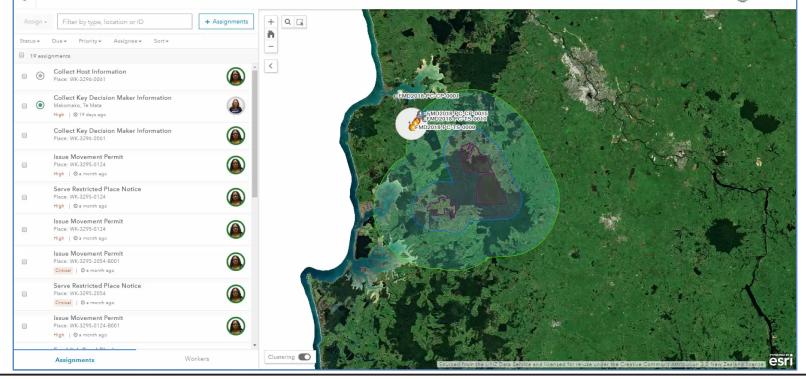
ArcGIS for Incursion Management





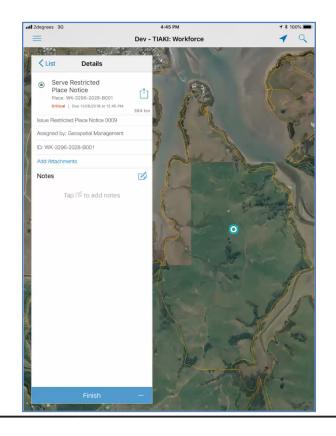
Tasking

Dev - TIAKI: Workforce





Tasking





Capturing & Maintaining Data

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ZI Q Search

DEV - TIAKI: Master Data WebApp-Edit i⊒ 🃚 2:39 PM Workforce is Actively Using Your Location 🛛 🛪 70% 📼 Leaend ≈ × Treatment Sites Operational Disestablished Signage ID:FMD2018-PC-SG-0007 Road Block Signage ID:FMD2018-PC-SG030 Operational Signage ID:FMD2018-PC-SG-0009 Disestablished Signage ID:FMD2018-PC-SG-0006 Checkpoint ENIDONIA-EG-TS-001 Operational Signage ID:FMD2018-PC-SG-0004 Disestablished Signage ID:FMD2018-PC-SG-0056 Signage Signage ID:FMD2018-PC-SG-0005 Operational Disestablished R-PR-RENG EMID ND2018-R0-TIS-000

- 1 1: link office locations to administrative areas
- 1 M: e.g. Vehicle logs visiting Checkpoints, Legal Instruments on properties
- M N: Tracing risk events between multiple properties

Utilize Survey123 "inbox" to update attribution i.e. Established checkpoint changed to disestablished



Capturing & Maintaining Data

Associated Place

Dairy Company Affiliation

Biosecurity New Zeal Ministry for Primary Industries

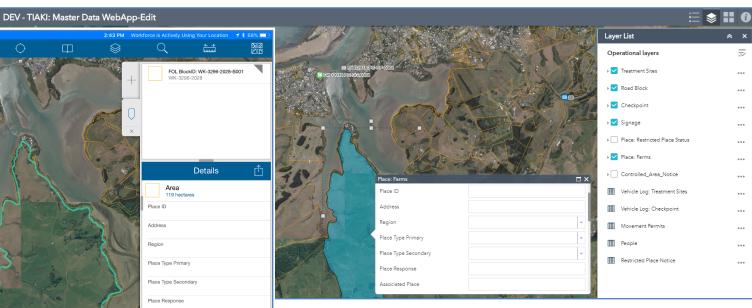
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Maps

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Role based permissions for data editing

Desktop bulk loading of data

Field based updates



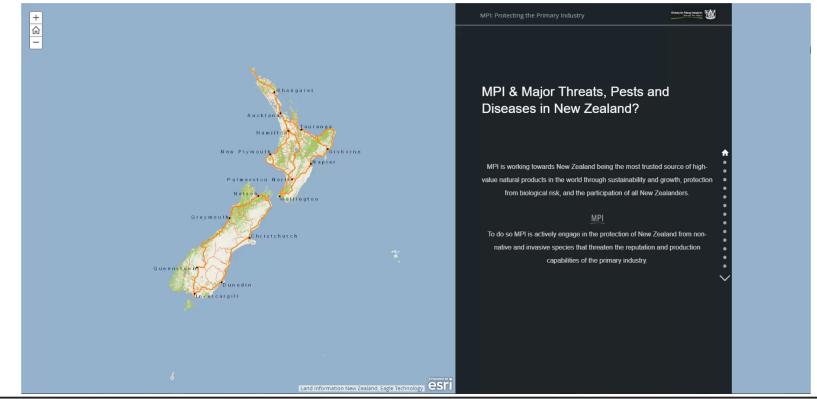


Bespoke Reporting





Telling the Story





Learnings so far

Minist	ry for I	Primar	y Ind	ustries	
Overview	Members	Licenses	Status	Settings	

AGOL Membership Expansion

Sign In	esri
Username	
<u> </u>	
Password	
Keep me signed in	
SIGN IN	
Forgot password? Forgot username?	
OR	
Sign in with ENTERPRISE LOGIN	

AGOL Active Directory Federation



Clone AGOL items across "environments" (Dev, Test, UAT & Prod folders)



Regular local data back up & restore process



Data schematic documentation



