
Biosecurity New Zealand
Tiakitanga Pūtaiao Aotearoa
Is that a pest plant?
Modern tools for smarter eradication
Ministry for Primary Industries
Manatū Ahu Matua

Contents

- What is NIPR FRO
- Modern tools
- FME process
- Web app
- Summary and lessons

NIPR FRO

National Interest Pest Response – Four Risk Organisms

Cape tulip
Moraea flaccida

Johnson grass
Sorghum halepense

Water hyacinth
Eichhornia crassipes

Salvinia
Salvinia molesta

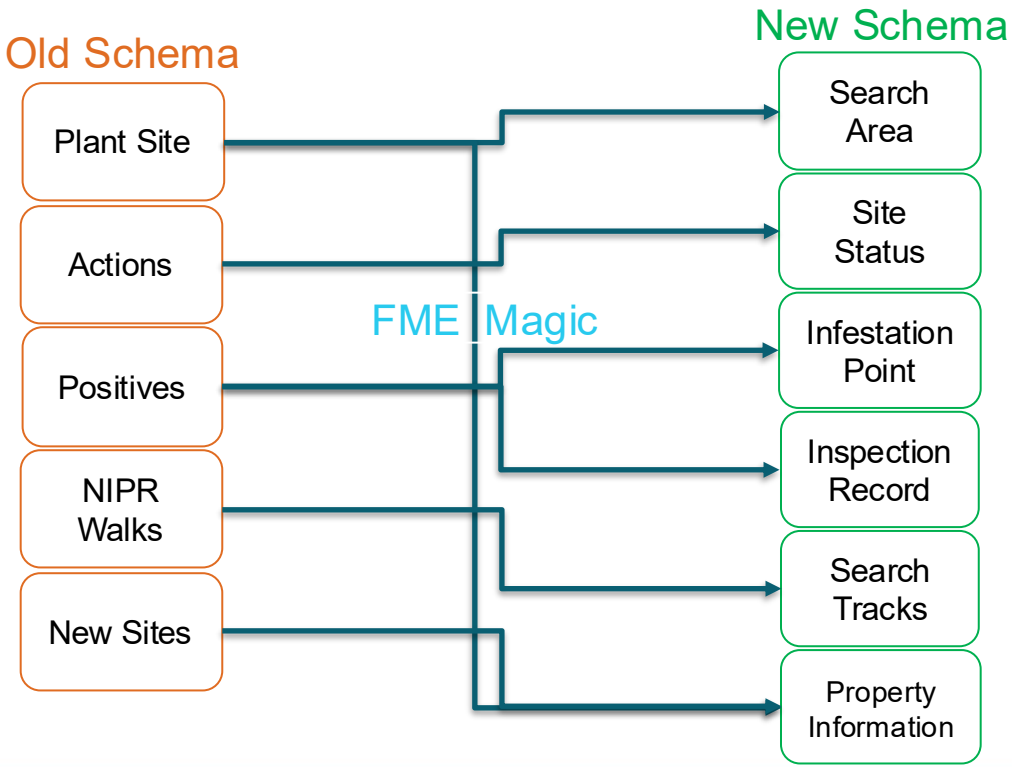
Modern Tools

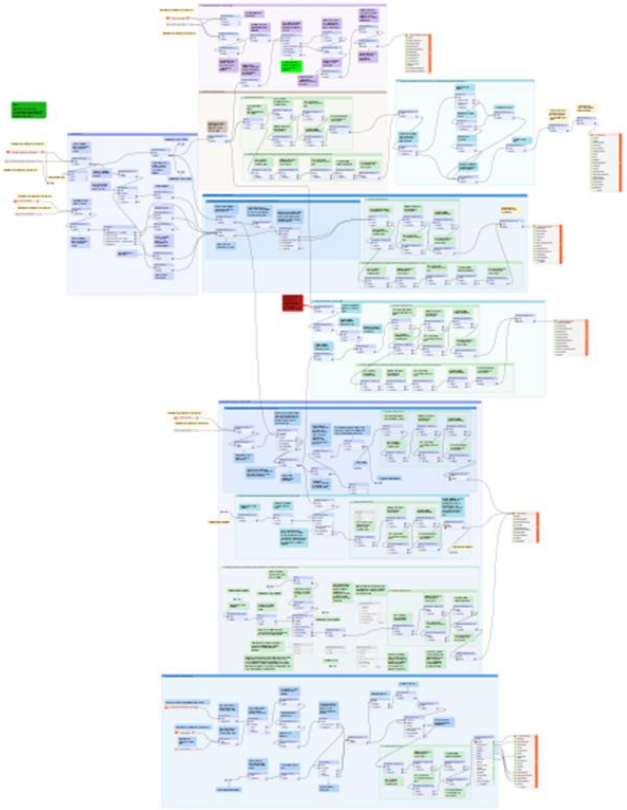
FME TO TRANSFORM DATA TO FIT NEW SCHEMA, AND AUTO CALCULATING DATA FIELDS

FIELD MAPS AND SURVEY 123 TO CAPTURE DATA ON SITE

WEB APP AND DASHBOARD TO VIEW AND TRACK PLANT STATUS / REPORTING

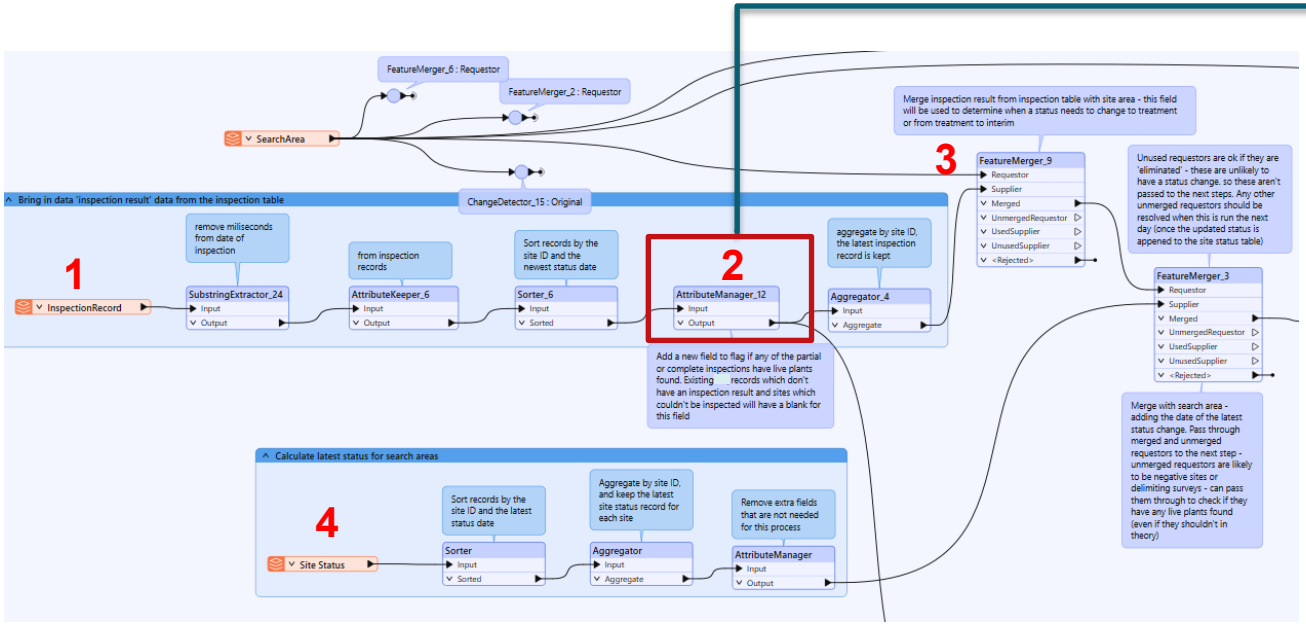
Data Transformation and Migration





Attribute Auto-calculation

Attribute Auto-calculation – Site Status



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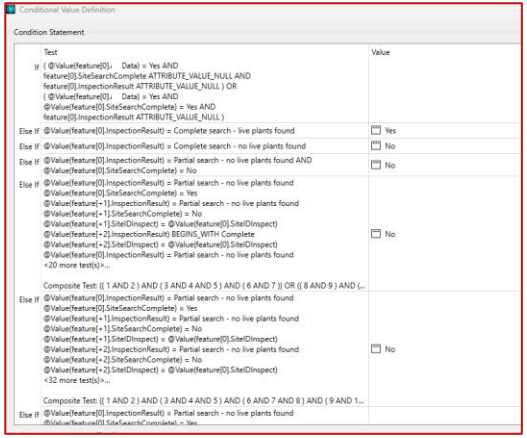
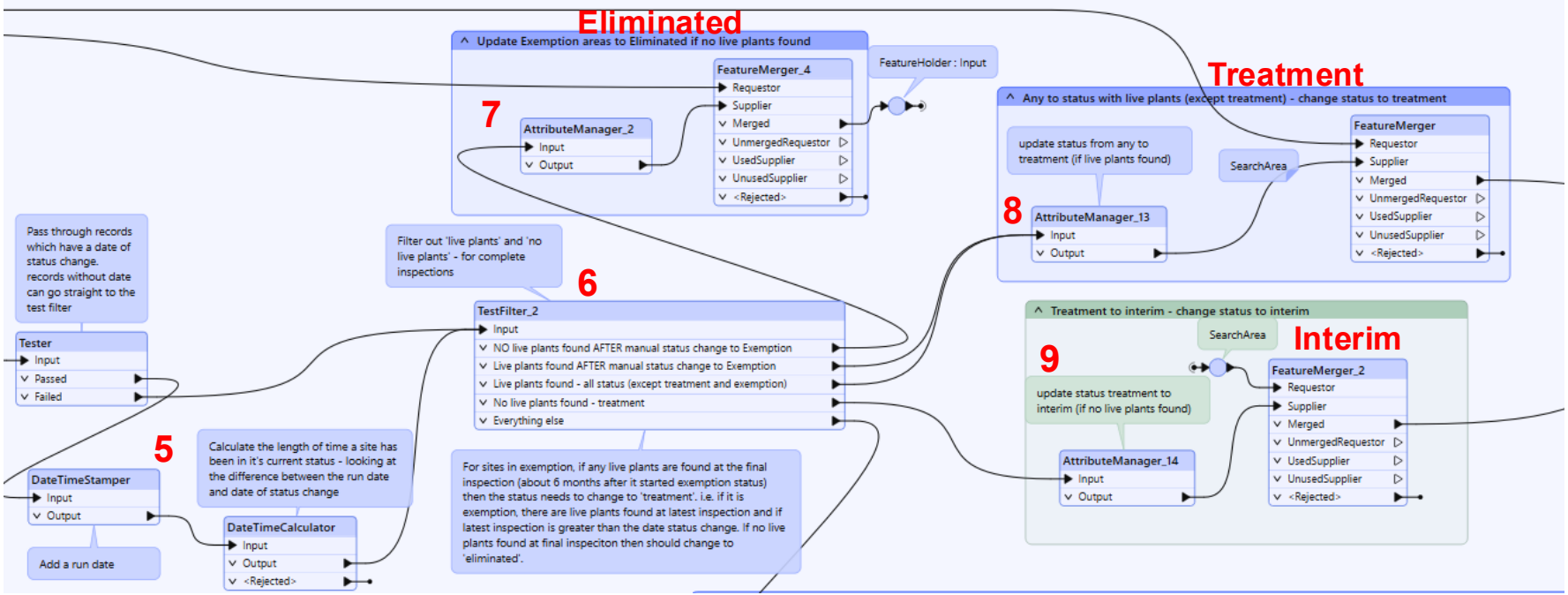
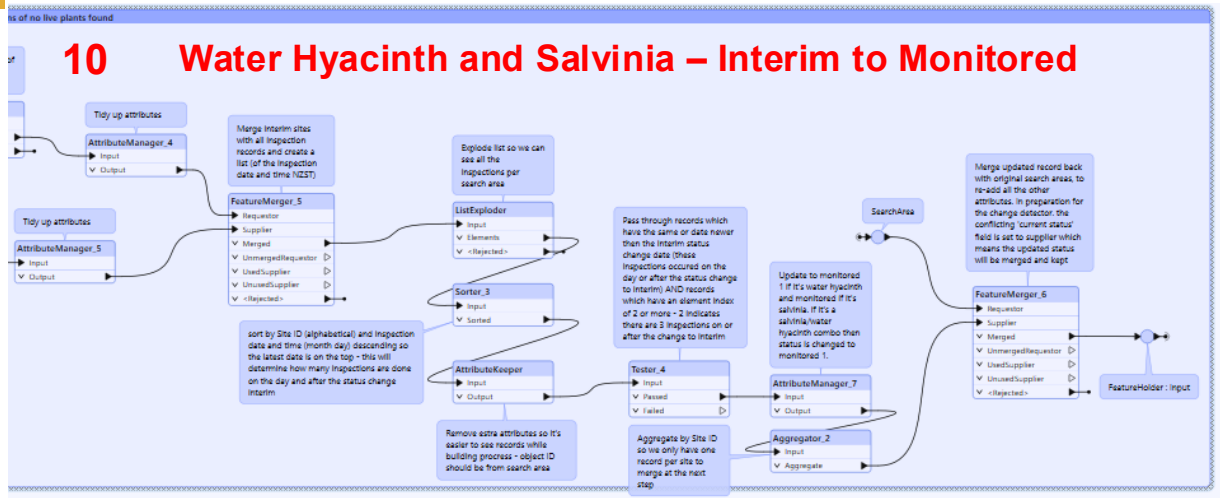


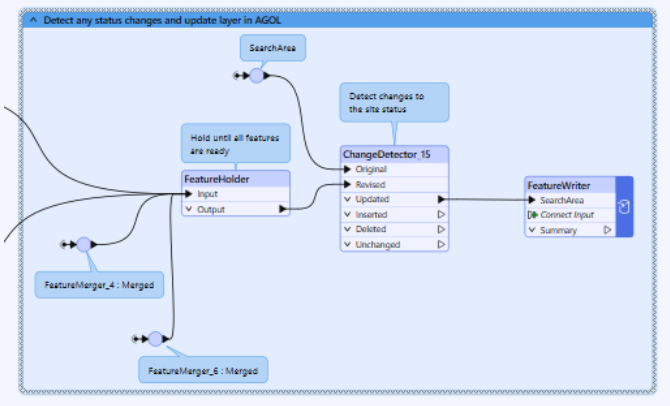
Attribute Auto-calculation – Site Status cont.



Attribute Auto-calculation – Site Status cont.



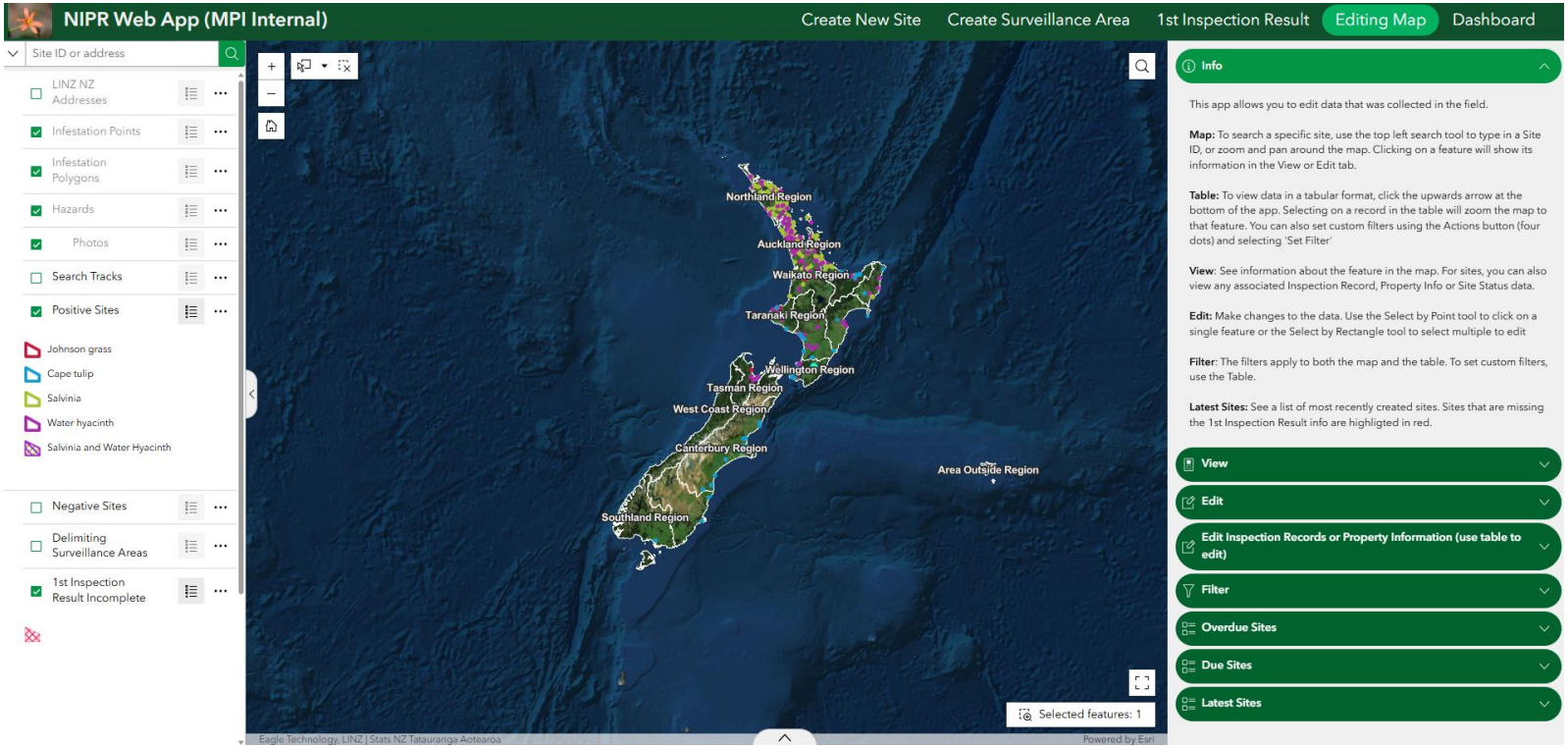
Final step



Other auto-calculated attributes

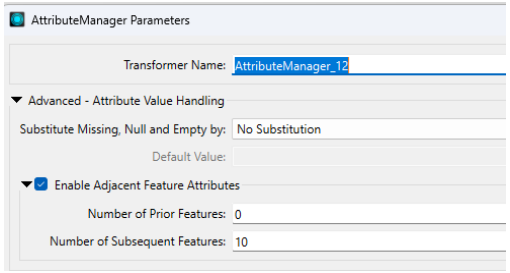
- Previous site status
- Date of last inspection
- Due date next inspection
- Due date of status change
- Activity status
- Latest number of plants
- Latest infestation area
- Region
- Financial year

Web App


NIPR Web App (MPI Internal)
Create New Site
Create Surveillance Area
1st Inspection Result
Editing Map
Dashboard
Site ID or address
LINZ NZ Addresses
Infestation Points
Infestation Polygons
Hazards
Photos
Search Tracks
Positive Sites
Johnson grass
Cape tulip
Salvinia
Water hyacinth
Salvinia and Water Hyacinth
Negative Sites
Delimiting Surveillance Areas
1st Inspection Result Incomplete
Northland Region
Auckland Region
Waikato Region
Taranaki Region
Wellington Region
Tasman Region
West Coast Region
Canterbury Region
Area Outside Region
Southland Region
Selected features: 1
Eagle Technology, LINZ | Stats NZ Tatauranga Aotearoa
Powered by Esri
Info
This app allows you to edit data that was collected in the field.
Map: To search a specific site, use the top left search tool to type in a Site ID, or zoom and pan around the map. Clicking on a feature will show its information in the View or Edit tab.
Table: To view data in a tabular format, click the upwards arrow at the bottom of the app. Selecting on a record in the table will zoom the map to that feature. You can also set custom filters using the Actions button (four dots) and selecting 'Set Filter'
View: See information about the feature in the map. For sites, you can also view any associated Inspection Record, Property Info or Site Status data.
Edit: Make changes to the data. Use the Select by Point tool to click on a single feature or the Select by Rectangle tool to select multiple to edit
Filter: The filters apply to both the map and the table. To set custom filters, use the Table.
Latest Sites: See a list of most recently created sites. Sites that are missing the 1st Inspection Result info are highligted in red.
View
Edit
Edit Inspection Records or Property Information (use table to edit)
Filter
Overdue Sites
Due Sites
Latest Sites

Summary and Lessons

- Many GIS tools (ESRI and FME) are used to support pest plant management across NZ
- FME plays key role by powering back end processes
- Over 700 sites have been identified so far and most have been eliminated
- Good requirements gathering is crucial in working efficiently with FME
- Testing as you build - important to identify issues in workflows



Question Time ☺

Ngā mihi

Contact us for more information:
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