

# Transforming Asset Condition Assessments with FME Tools

2025 Locus FME Roadshow



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**FME Certified Professional** 

#### **Asset Management Workflow Example**

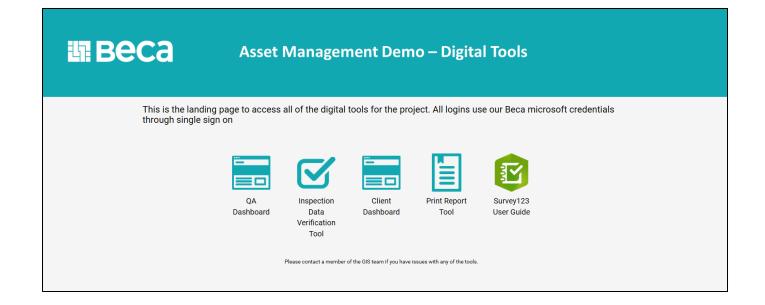
 Streamlining asset condition inspections of building services, structures and architectural components across sites.

License Set up in ArcGIS

**Data Collection** 

Data Review & Verification

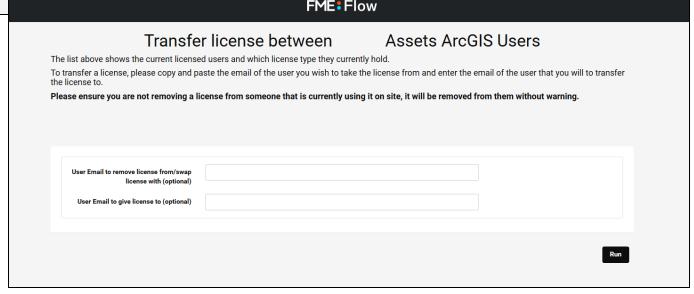
Reporting





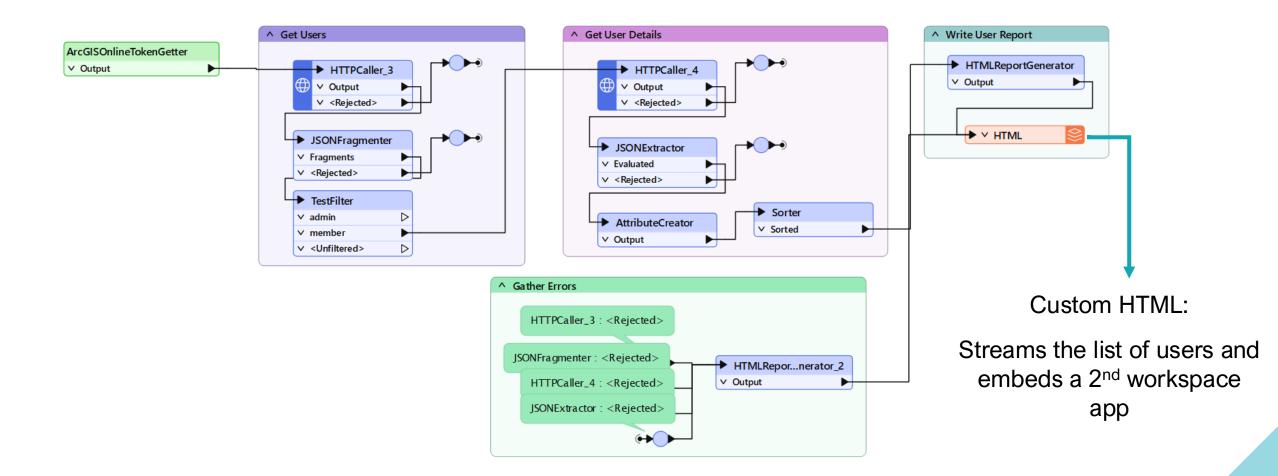
User Summary							
Full Name	License Type	Email					
Amrit Singh	Field Worker	Amrit.Singh@beca.com					
Catherine Domoniko	Field Worker	Catherine.Domoniko@beca.com					
Gareth Guitry	Field Worker	Gareth.Guitry@beca.com					
Isabella Finan-Jenkin	Field Worker	Isabella. Finan-Jenkin@beca.com					
Isabella Vesty	Field Worker	Isabella. Vesty@beca.com					
Jemma Arctus	Field Worker	Jemma.Arctus@beca.com					
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- FME Flow workspace app accessed by project team
- Display a summary of users and assigned licenses
- Collect user parameters to swap licenses



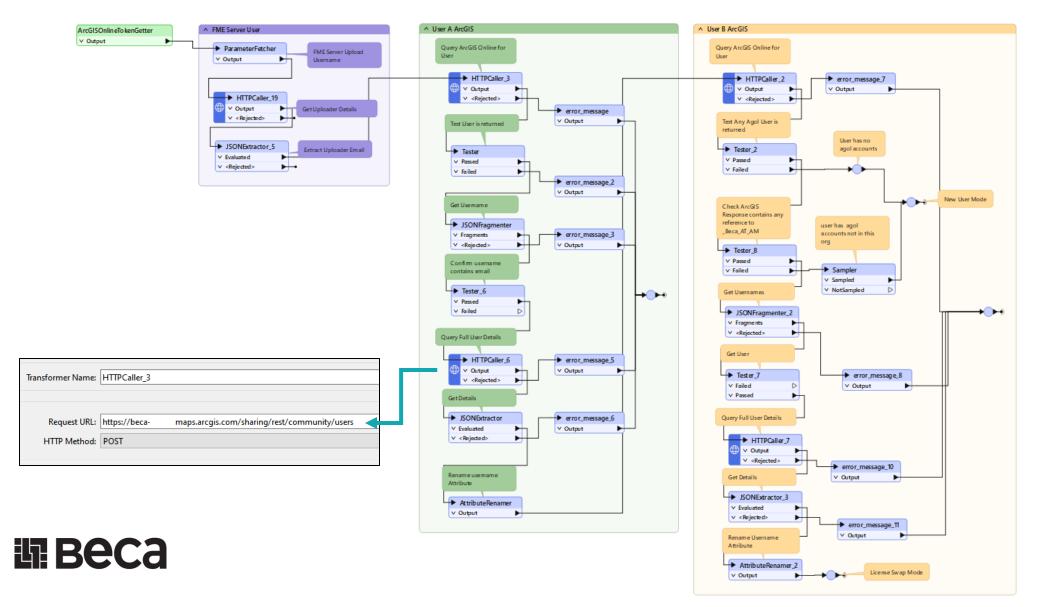


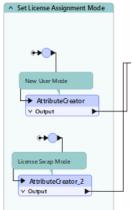
Behind the scenes – FME Workbench 1



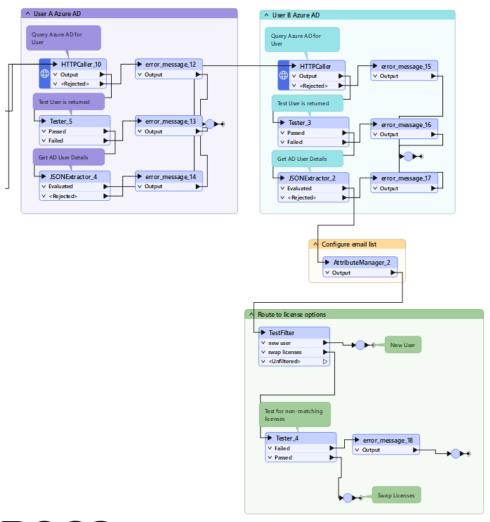


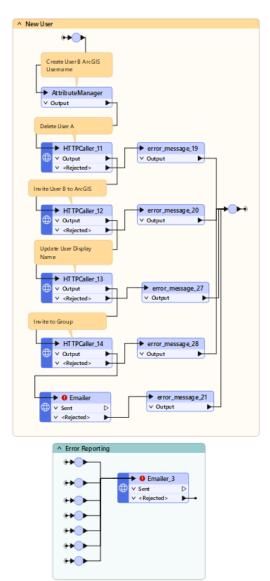
Behind the scenes – FME Workbench 2

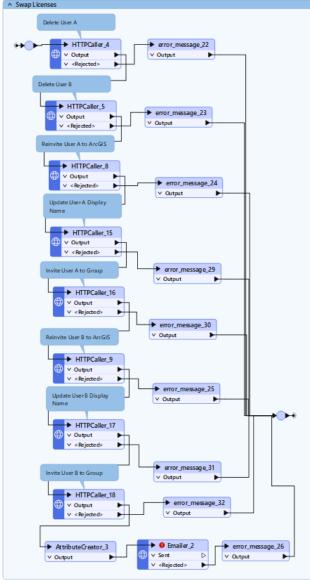




Behind the scenes – FME Workbench 2









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Benefits

# Project Team Autonomy

Inspectors manage their own licensing, avoiding delays waiting for GIS admin availability.

#### **Reduced Admin Time**

Since 2023, At least 530 workspace app runs.

15 mins saved per run \* 530 = **132.5 admin hours saved.** 

**TOTAL RUNS** 

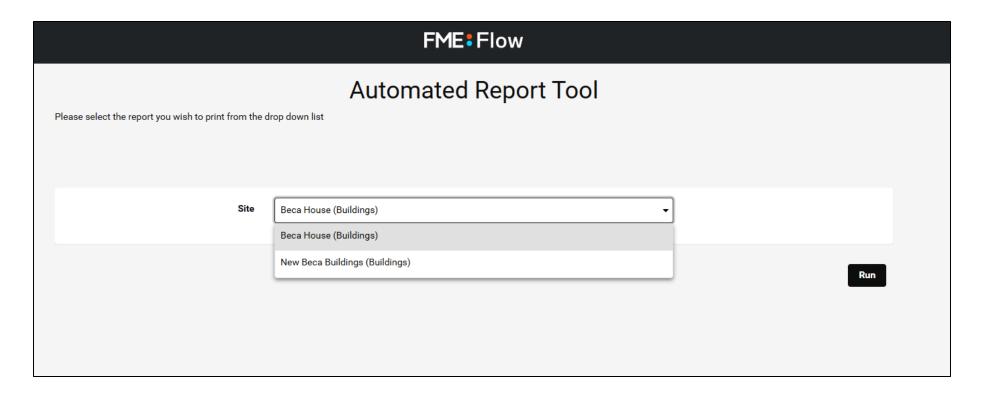
533

# **Enhanced Transparency**

Teams have visibility into license availability and usage, promoting better planning and coordination.

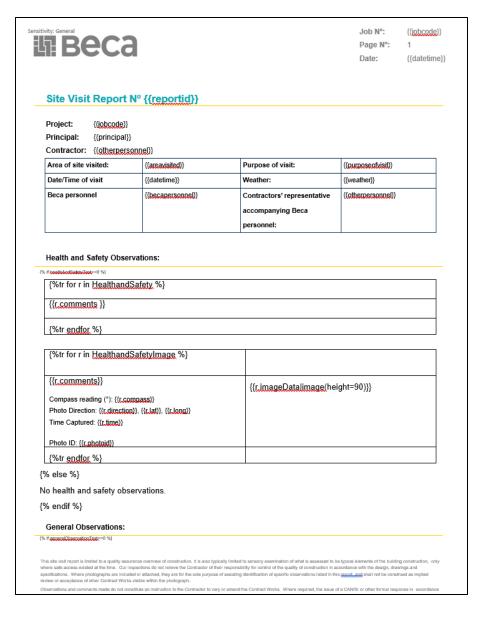


- FME Flow workspace app accessed by project team
- Display a list of available reports to print
- Collect user parameter to generate report



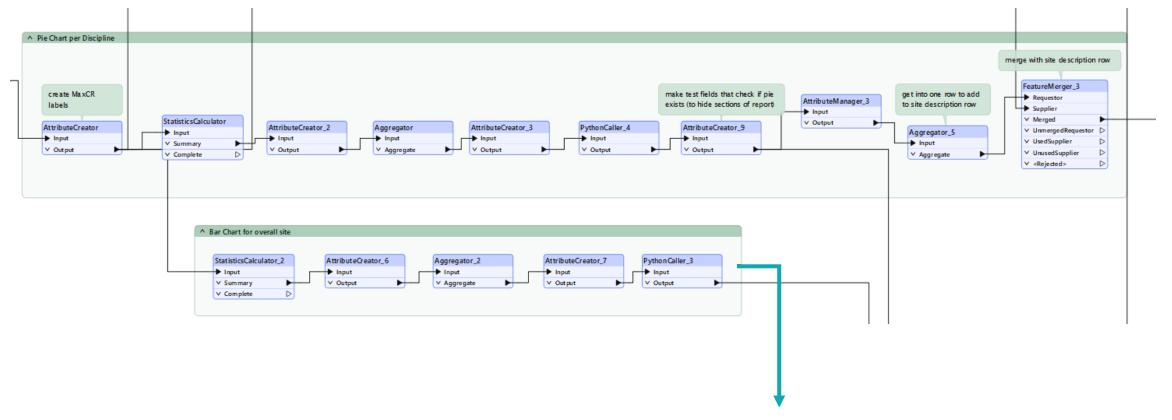


- Jinja open source, powerful and versatile templating engine, used with Python.
- Flexible and customisable.
- Easy to maintain and iterate report template.





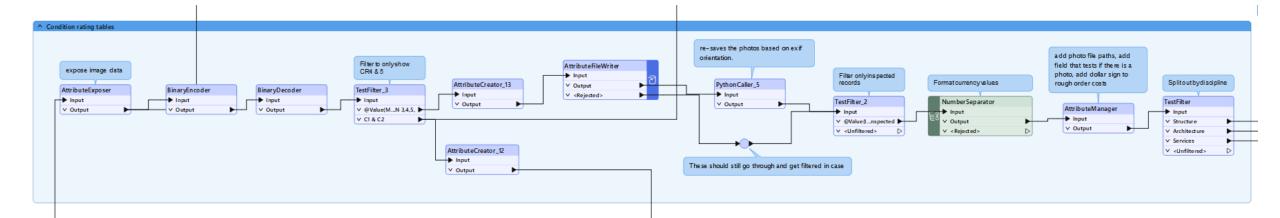
Behind the scenes – FME Workbench

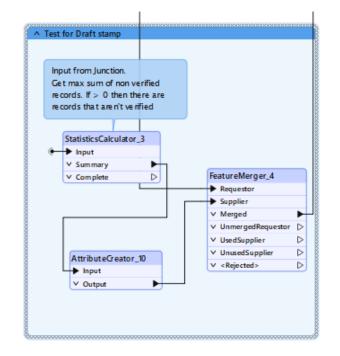


Create pie charts and bar charts with matplotlib Python module



Behind the scenes – FME Workbench

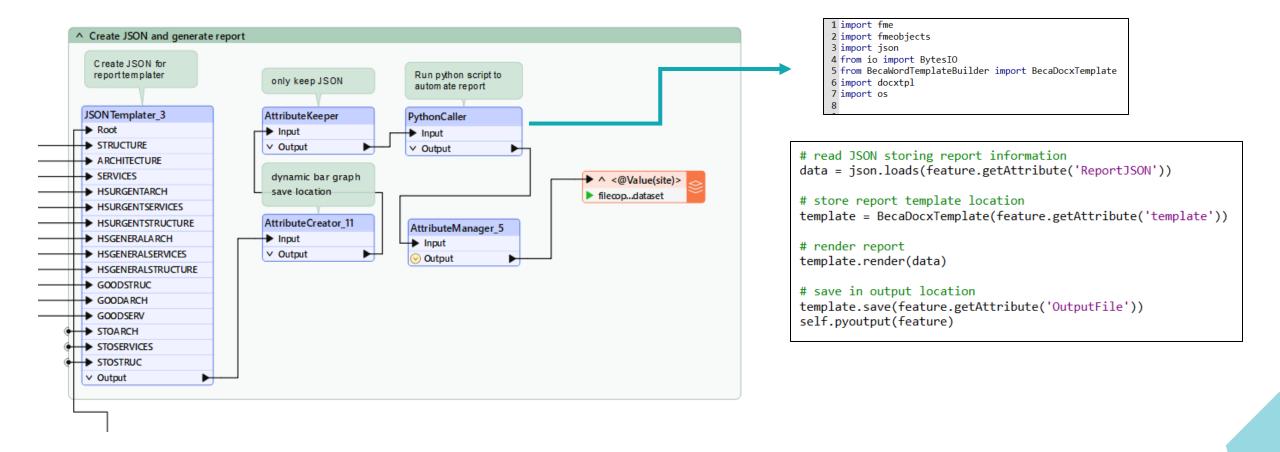




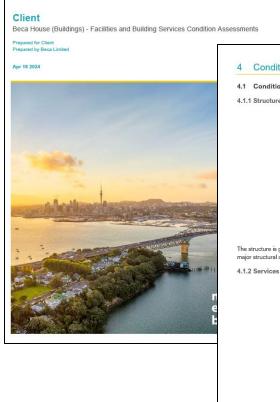


#makeeverydaybetter

Behind the scenes – FME Workbench

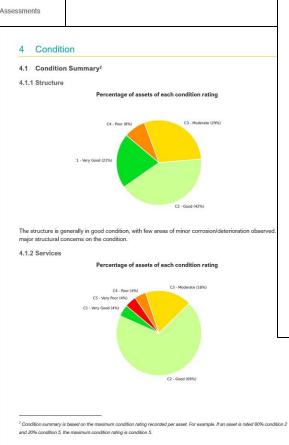


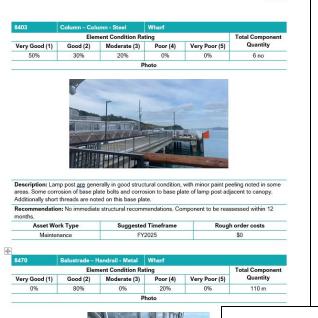




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#### C1 and C2 Recommendations

This section lists in table format repair, upgrade and renewal recommendations for systems and components assessed as being in condition C1 - Very Good and C2 - Good and provides an outline scope of works for the short term forward works programme.

#### Structural Recommendations

Reference ID	Component	Location	Description	Recommendations	Rough Order Costs	Base Life	Asset Works Type	Element Condition Rating
8384	Sun Screen or Awning	Building Exterior - East Side	Repair works are already underway as part of STO-001. Also heavily/moderately cornoded connections are to be cleaned or removed and reinstated.	No further recommendations to STO-001. Reinspect canopy as part of standard inspection time frame.	\$0	28	Monitoring	C2 - Good
8395	Steps - Metal	Wharf	Overall, the element appears to be in good structural condition, no structural defects were observed.	No immediate structural recommendations. Component to be reassessed within standard inspection schedule.	\$0	50	Monitoring	C2 - Good
8405	Information Sign	Building Exterior	Overall, the element appears to be in good structural condition, no	No immediate structural recommendations. Component to be reassessed within	\$0	13	Monitoring	C2 - Good



Benefits

#### **Consistent Approach**

Standardised and customisable template ensures uniformity across all reports, regardless of who generates them.

#### Time Savings

Since 2023, At least 600 workspace app runs.

Eliminates manual data compilation and formatting, creating long term cost savings.

#### **Scalability**

Allows us to handle larger datasets and more complex reporting requirements with minimal additional effort.



## Summary

Streamlined ArcGIS license transfers empowers users and reduces GIS team's admin time.

Automated reporting
eliminates manual formatting
and creates consistent
outputs and long-term cost
savings.



## Questions?

