

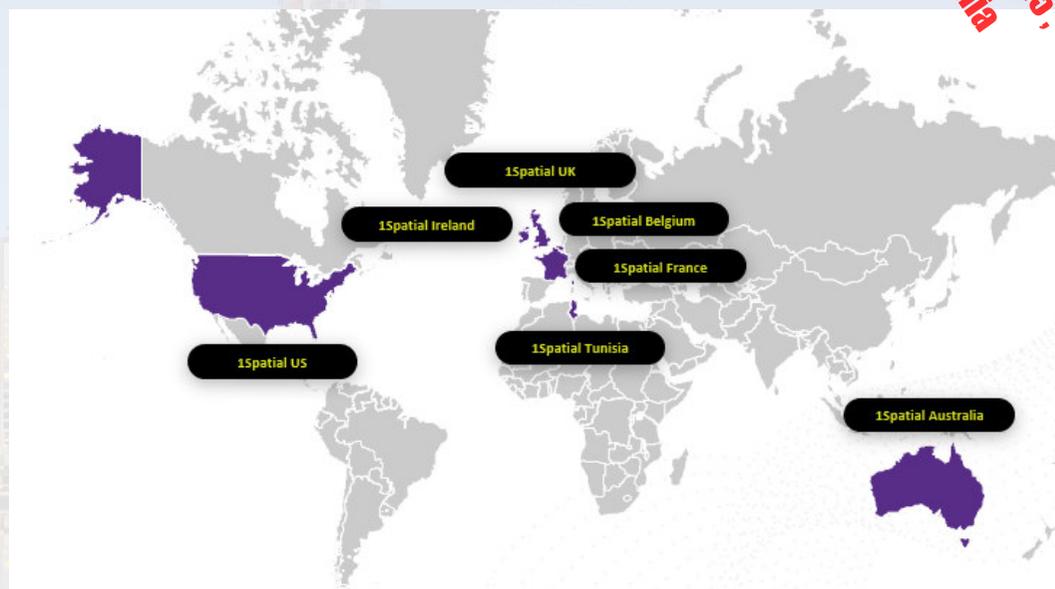


Collaboration, Innovation and Resilience: Championing a Digital Generation

Brisbane, Australia 6-10 April

Future-Ready Local Government: No-Code/Low-Code GIS Tools

Ellie Zoghi - 1Spatial since January 2024
15 years of experience in the geospatial industry



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Collaboration, Innovation and Resilience: Championing a Digital Generation

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Agenda

- Introduction – Envisioning a Future-Ready Local Government
- What are the Gaps? Where to start?
- Data management challenge
- Geo Information Management – Location Master Data Management
- Introduction of No code – Low code tools
- Survey results and competition



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Envisioning a Future-Ready Local Government



What are the Gaps? Where to start?



Data Management: Focuses specifically on data handling and maintenance.

Data Governance: Establishes policies and frameworks for data use and management.



Data management challenge

Data Quality

Accuracy

Completeness

Reliability

Timeliness

Data Integration

Source Diversity

Large Volumes

Real-Time Integration

Geo Information Management GeoIM – Location Master Data Management (LMDM)



Over 60% of infrastructure information is explicitly geospatial





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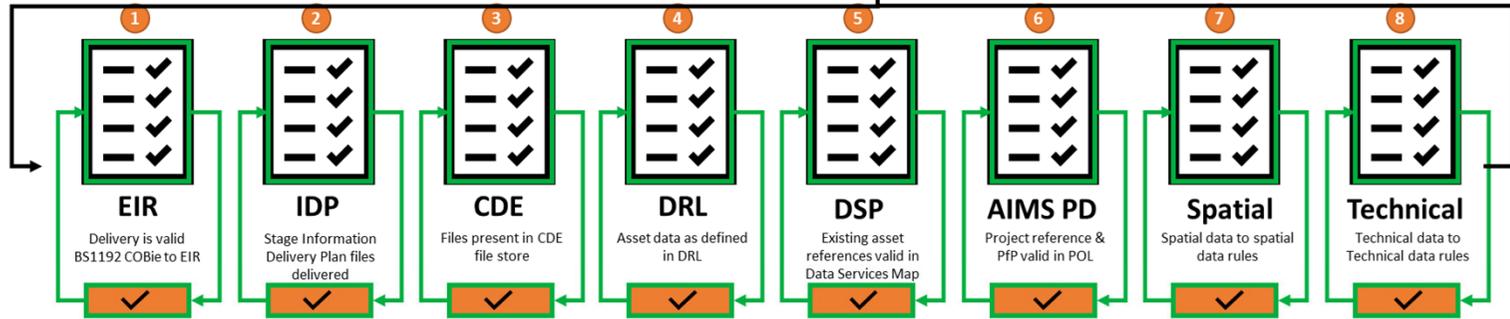
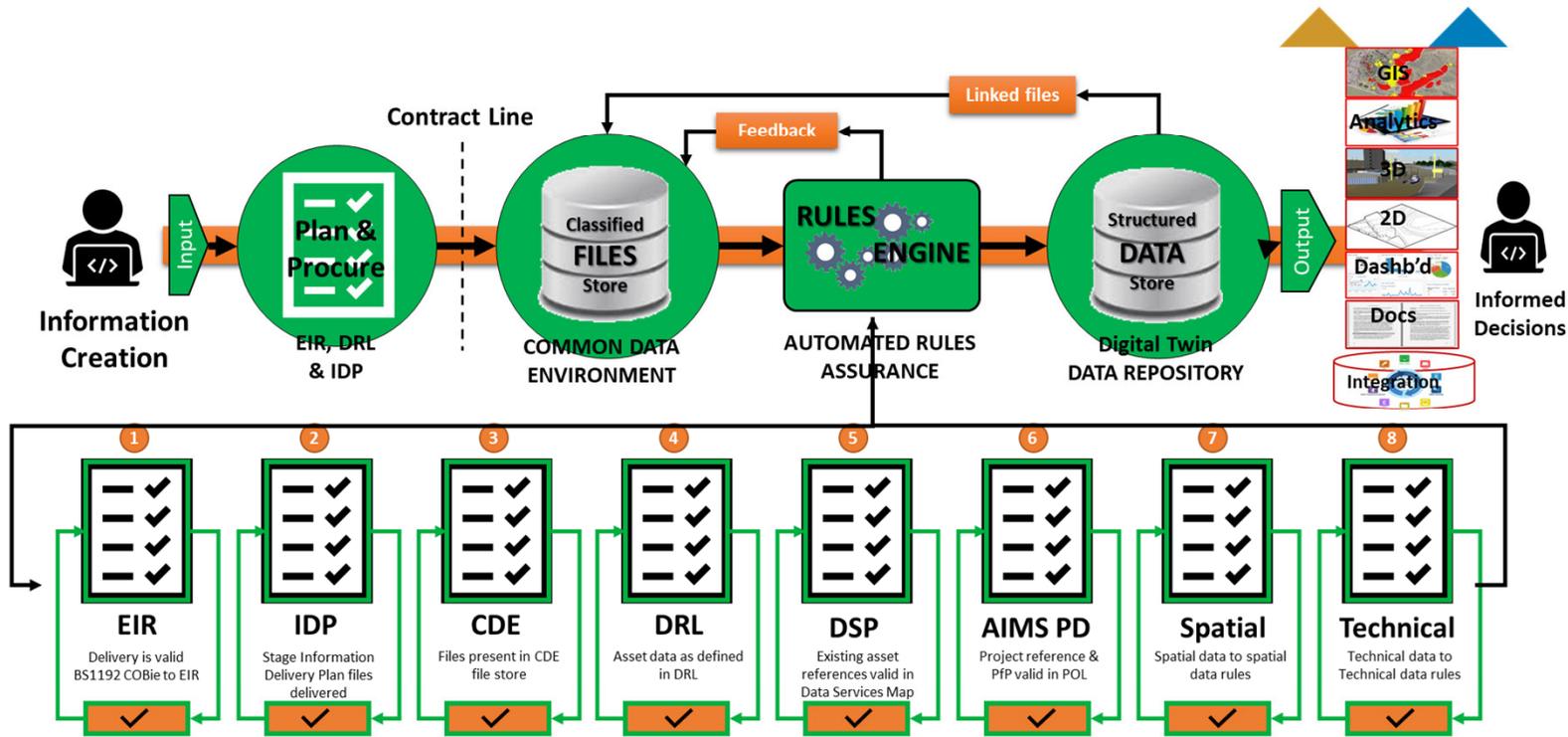
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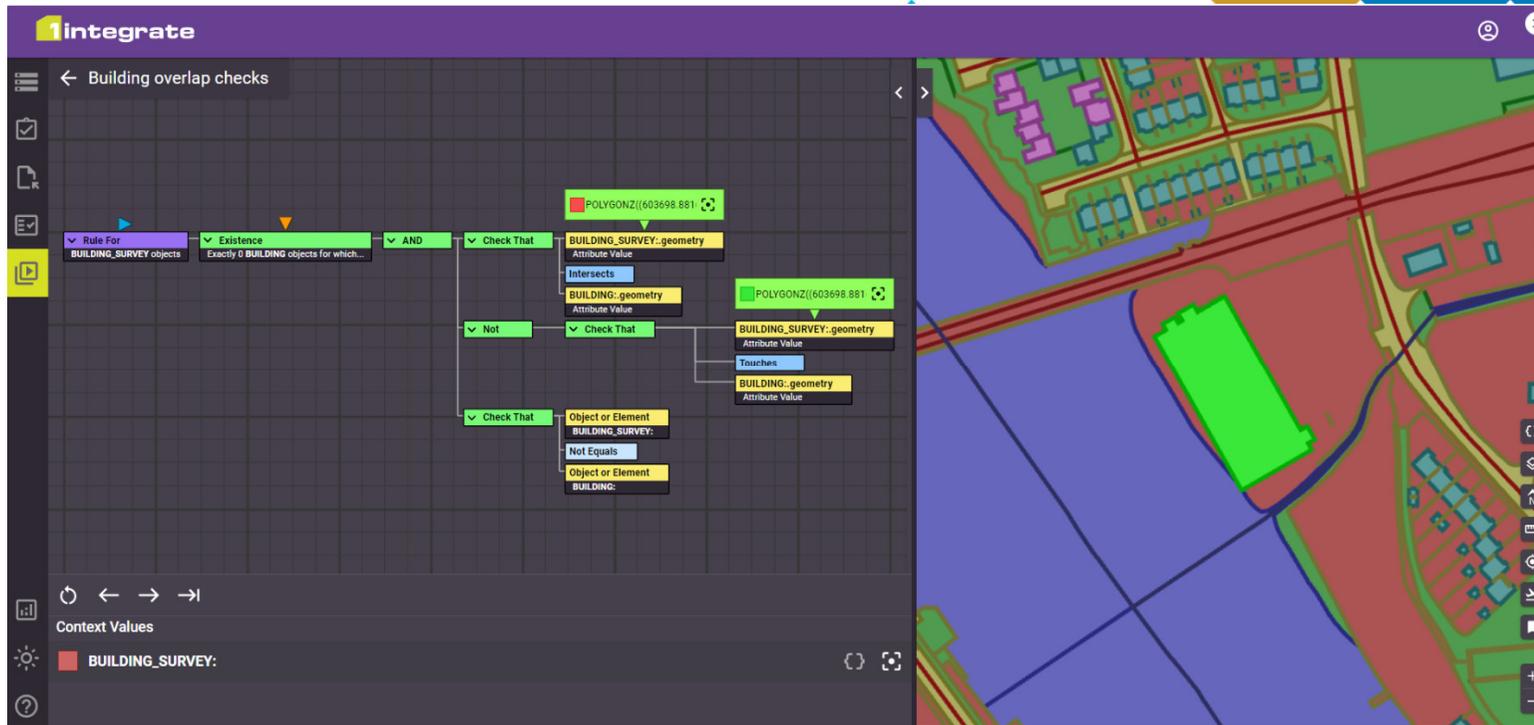
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Automated rules based file and structured geospatial and non-geospatial data integration and quality



No code Rules Engine – 1Spatial Platform



integrate

← Building overlap checks

- Rule For: BUILDING_SURVEY objects
- Existence: Exactly 0 BUILDING objects for which...
- AND
- Check That: BUILDING_SURVEY.geometry Attribute Value Intersects BUILDING.geometry Attribute Value
- Not
- Check That: BUILDING_SURVEY.geometry Attribute Value Touches BUILDING.geometry Attribute Value
- Check That: Object or Element BUILDING_SURVEY: Not Equals Object or Element BUILDING:

Context Values: BUILDING_SURVEY:

Data Quality validation and correction



My Assignments		
Check for excess class in source file	▲ 25 / 29 features valid	👍 86.2% / 0% required
Check for attributes missing in source file	▲ 429 / 465 features valid	👍 92.25% / 0% required
Check for excess attributes in source file	▲ 429 / 491 features valid	👍 87.37% / 0% required
Check attribute types in source file	▲ 456 / 491 features valid	👍 92.87% / 0% required
Check attribute length and precision in source file	▲ 406 / 456 features valid	👍 89.03% / 0% required
Check that related tables exist	▲ 19 / 44 features valid	👎 43.18% / 100% required
Check attributes with NULL values	▲ 188 / 315 features valid	👍 59.68% / 0% required
Correct case for codelist values	✔ 315 / 315 features valid	👍 100% / 0% required
Check codelist values	▲ 283 / 315 features valid	👎 89.84% / 100% required
Check for valid foreign key relationships-error	✔ 648 / 648 features valid	👍 100% / 100% required
Correct duplicate vertices	▲ 314 / 315 features valid	👎 99.68% / 100% required
Check for duplicate features, self intersection, spikes and kickbacks	✔ 315 / 315 features valid	👍 100% / 100% required
Check for valid feature relationships-error	▲ 249 / 315 features valid	👎 79.04% / 100% required
Check for valid feature relationships-warning	▲ 297 / 315 features valid	👍 94.28% / 0% required
Check for valid spatial reference in readme file	▲ 0 / 25 features valid	👍 0% / 0% required
Create non conformance CSV report	✔ Finished	

Hub - ASPEC Validation v0.3

Suppliers > Jan 31, 2022 4:16 PM

Upload Data | Configure Mapping | Process Submission | Submission Results

File Type	Required	Upload File
Network Dataset (.zip) Esri File Geodatabase	✔	<div style="border: 1px dashed gray; padding: 5px; display: flex; align-items: center;"> + Please upload a file Drop files here, or click to browse </div>

Upload required files.

CANCEL CONTINUE ▶





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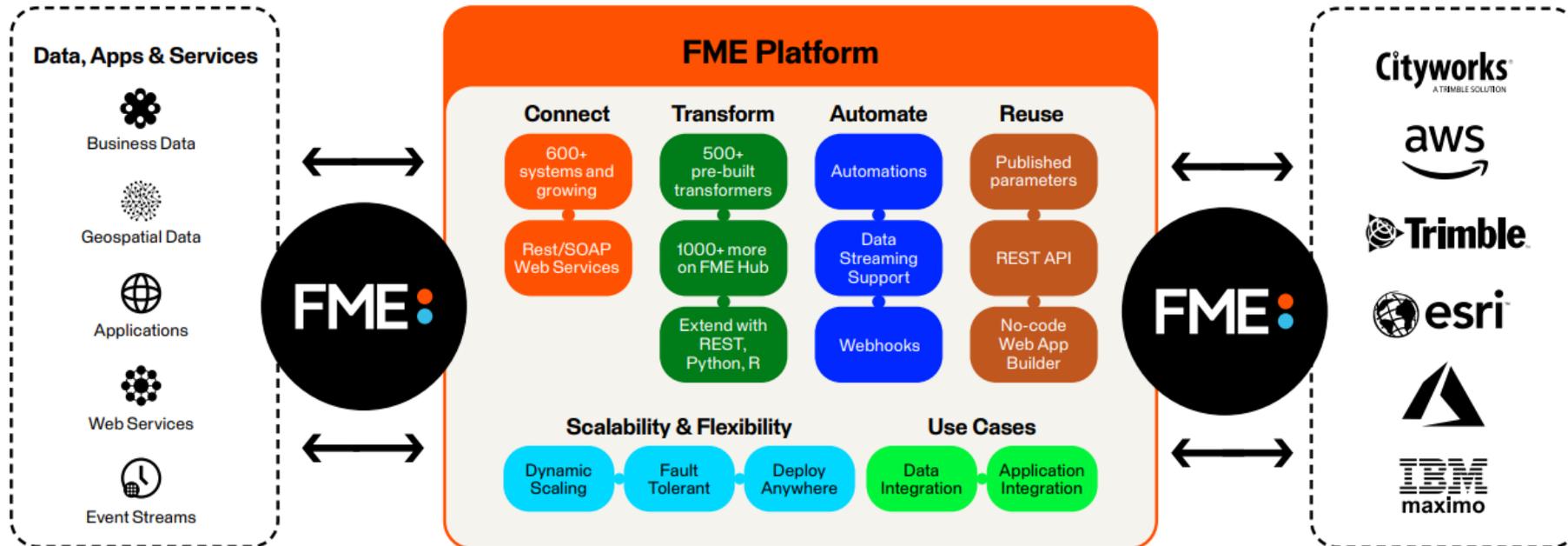
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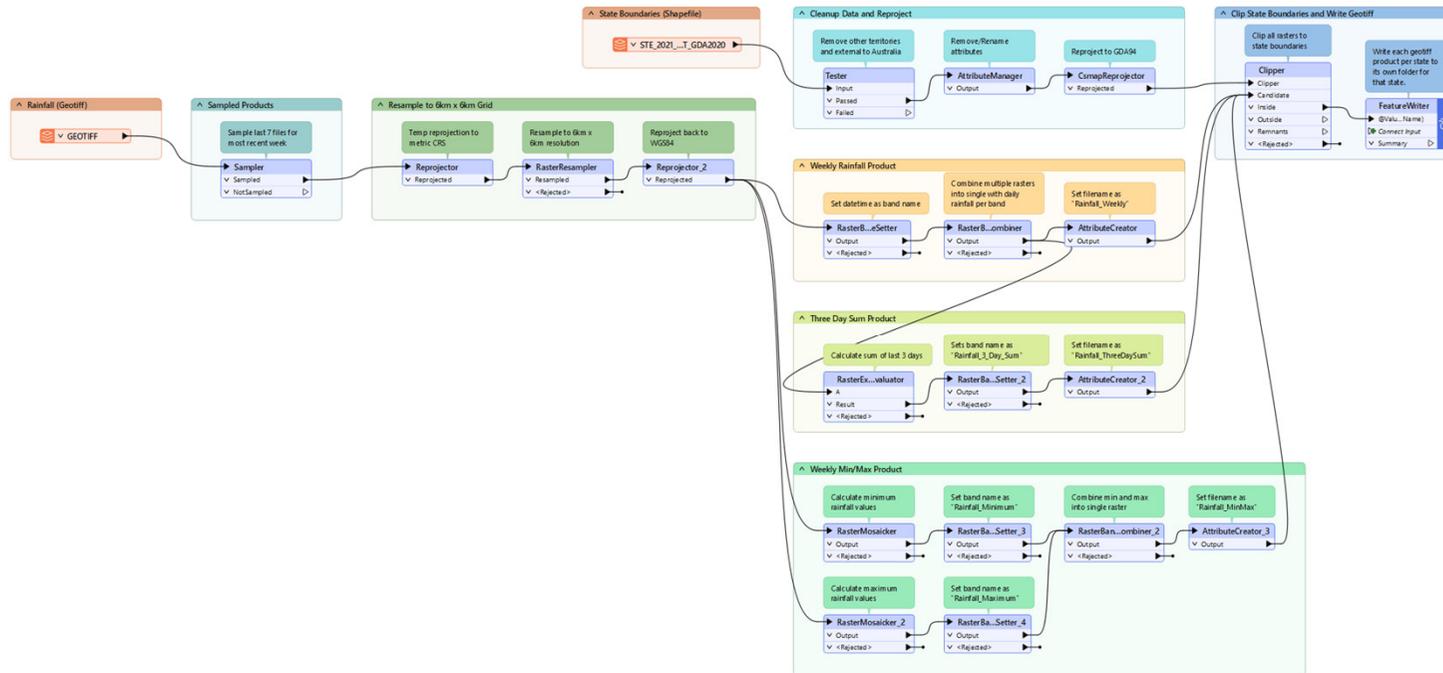
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FME – Data Integration



Example of FME Workbench





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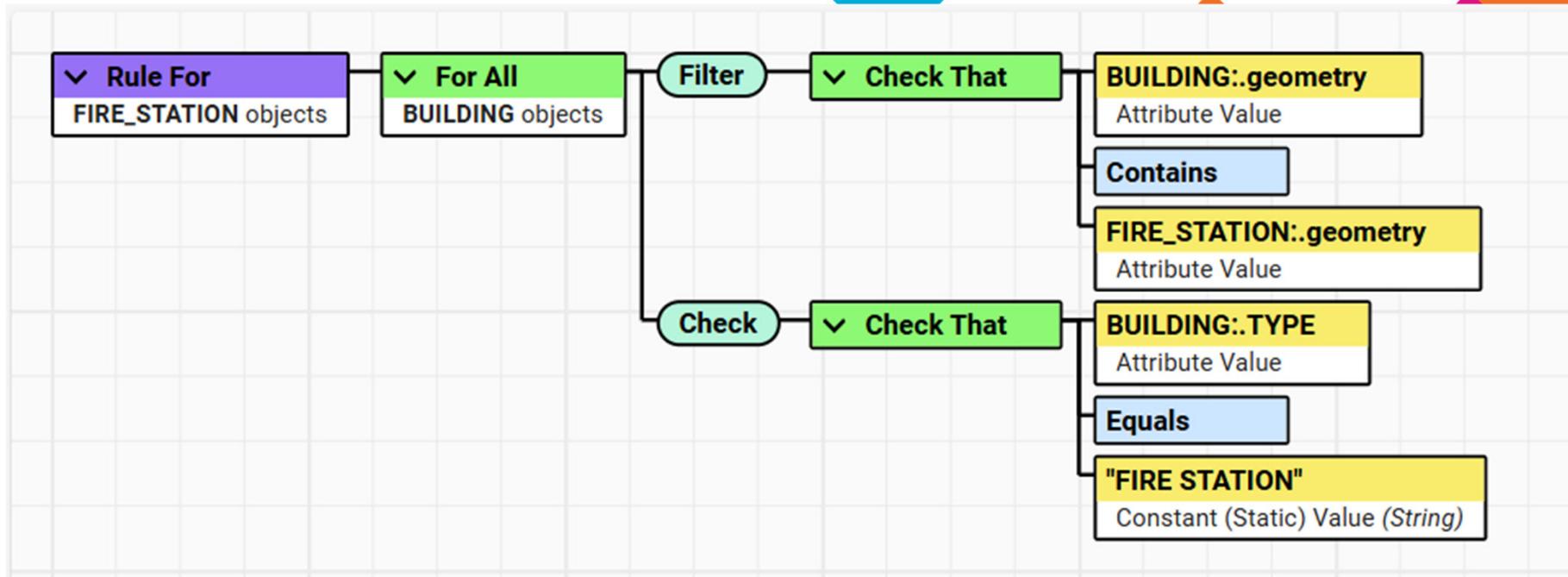
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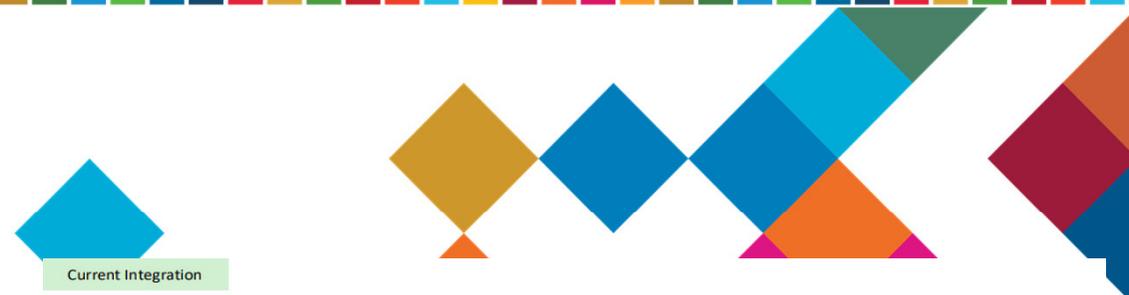
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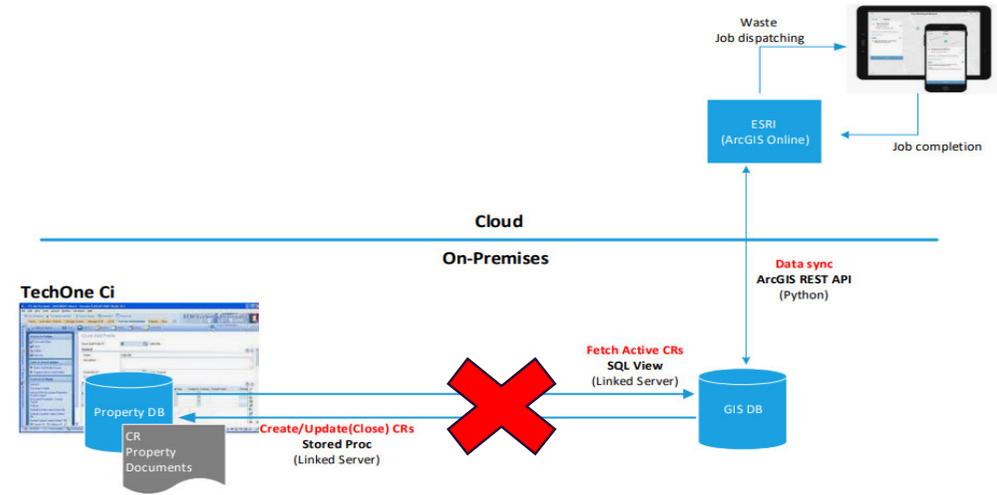
City of Cockburn



Current Integration

The City of Cockburn is moving from On-Prem to TechOne Cloud (SaaS)

As a result:
losing the ability to run SQL or Python on the data store.
(The existing integration solution was disrupted)



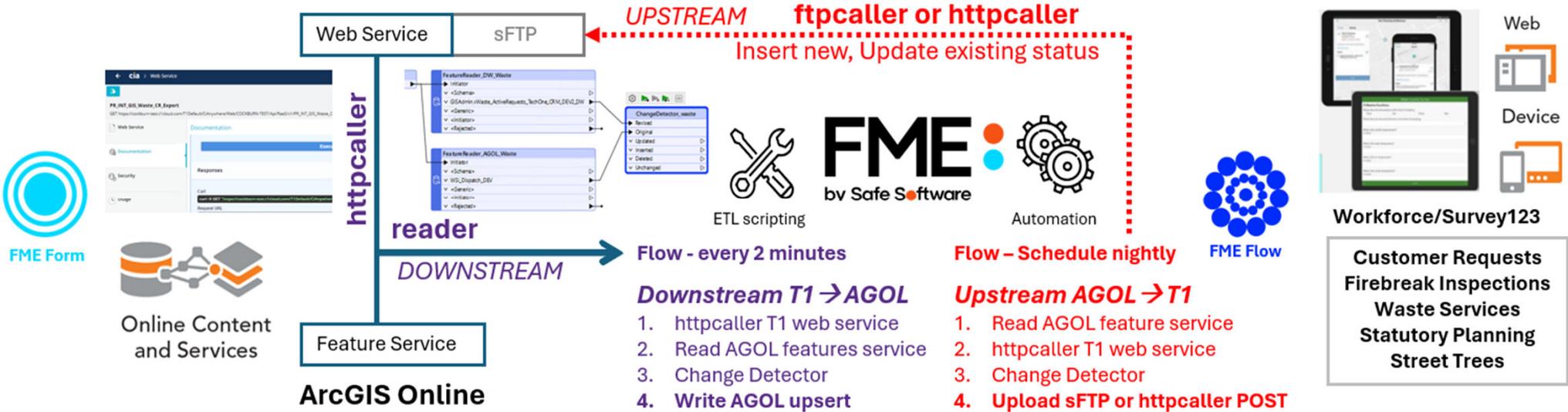
20 years of SQL and Python customisation

Council's Critical Services



End to End Waste Management Solution

TechOne Ci SaaS

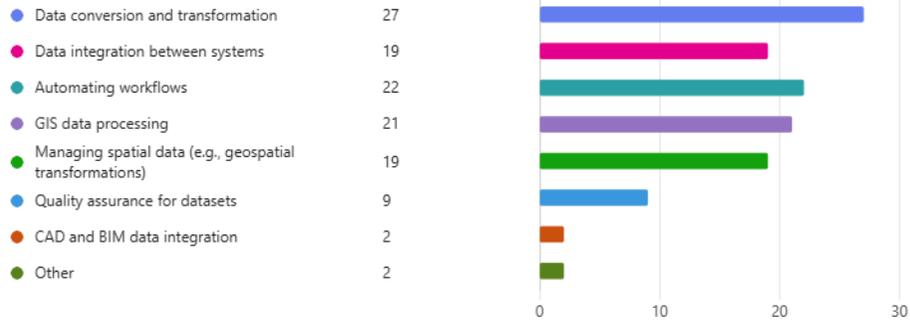


- Workforce/Survey123**
- Customer Requests
 - Firebreak Inspections
 - Waste Services
 - Statutory Planning
 - Street Trees

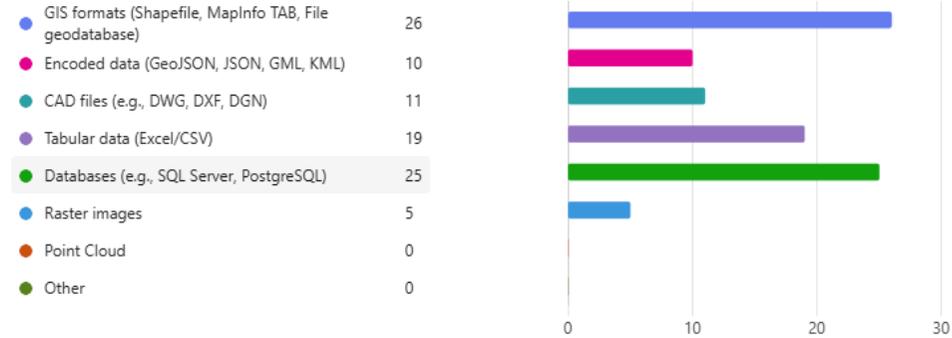


Local Government Survey Results

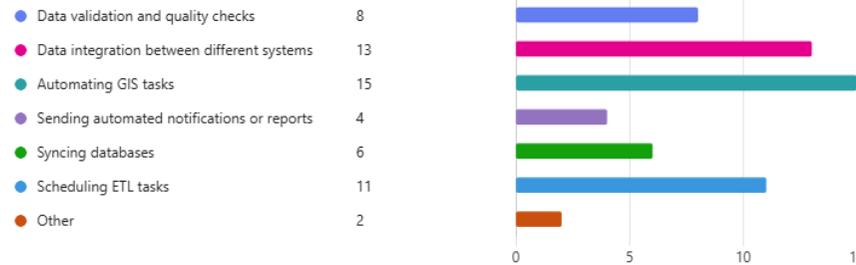
5. What are the primary purposes for which your council uses FME? (Select all that apply)



9. What types of data formats are you most frequently working with in FME? (Select all that apply)



10. If you are using FME Flow, what kinds of tasks are you automating? (Select all that apply)



Win a 1Spatial
World Tour
Ticket

FME Utilisation Survey - Australian Councils



CONFERENCES
19th May - 30th May 2025



1Spatial World Tour 2025

1Spatial successfully launched its global tour, spotlighting FME 2025 new features throughout May 2025, starting in Australia!



The most relevant SDGs related to the presentation and theme of this session

11 SUSTAINABLE CITIES AND COMMUNITIES



1st relevant SDG

8 DECENT WORK AND ECONOMIC GROWTH



2nd relevant SDG

9 INDUSTRY, INNOVATION AND INFRASTRUCTURE



3rd relevant SDG

SUSTAINABLE DEVELOPMENT GOALS

International Federation of Surveyors supports the Sustainable Development Goals

1 spatial
YOUR WORLD SMARTER



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STEP 1: SELECT HERE THE THREE MOST RELEVANT SDGs
STEP 2: COPY THE SDG INTO PREVIOUS SLIDE

Grid of 17 Sustainable Development Goals (SDGs) with icons and titles: 1 NO POVERTY, 2 ZERO HUNGER, 3 GOOD HEALTH AND WELL-BEING, 4 QUALITY EDUCATION, 5 GENDER EQUALITY, 6 CLEAN WATER AND SANITATION, 7 AFFORDABLE AND CLEAN ENERGY, 8 DECENT WORK AND ECONOMIC GROWTH, 9 INDUSTRY, INNOVATION AND INFRASTRUCTURE, 10 REDUCED INEQUALITIES, 11 SUSTAINABLE CITIES AND COMMUNITIES, 12 RESPONSIBLE CONSUMPTION AND PRODUCTION, 13 CLIMATE ACTION, 14 LIFE BELOW WATER, 15 LIFE ON LAND, 16 PEACE, JUSTICE AND STRONG INSTITUTIONS, 17 PARTNERSHIPS FOR THE GOALS.



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