

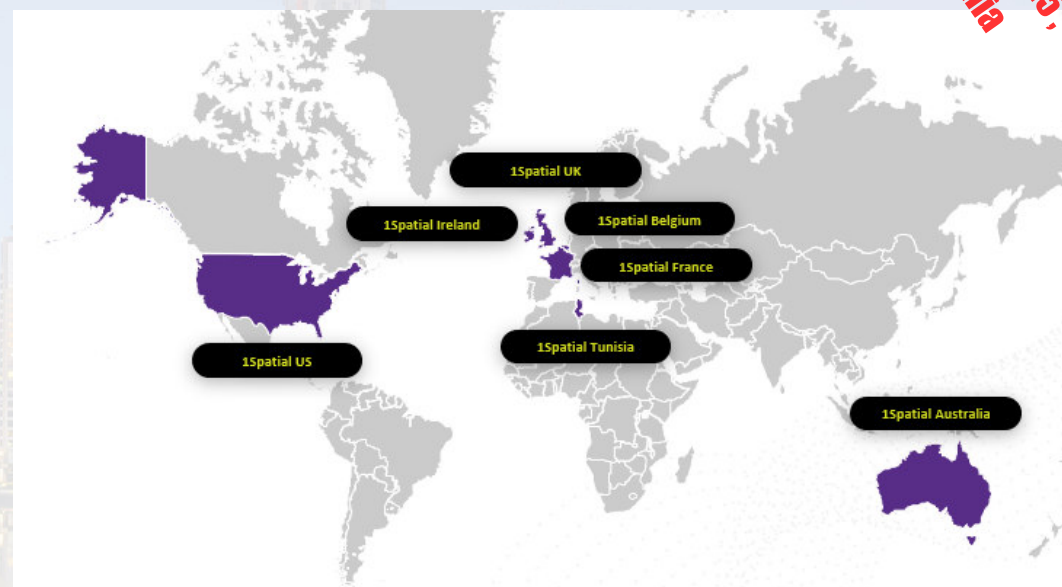


Collaboration, Innovation and Resilience: Championing a Digital Generation

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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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



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What are the Gaps? Where to start?

Data
sharing

Siloed
Data

Data
complexity

Data
Evolution

Data Management: Focuses specifically on data handling and maintenance.

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



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Data management challenge

Data Quality

Accuracy

Completeness

Reliability

Timeliness

Data Integration

Source Diversity

Large Volumes

Real-Time Integration

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Geosystems



HD
Meter



Surveyors
Australia

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



Over 60% of infrastructure information is explicitly geospatial



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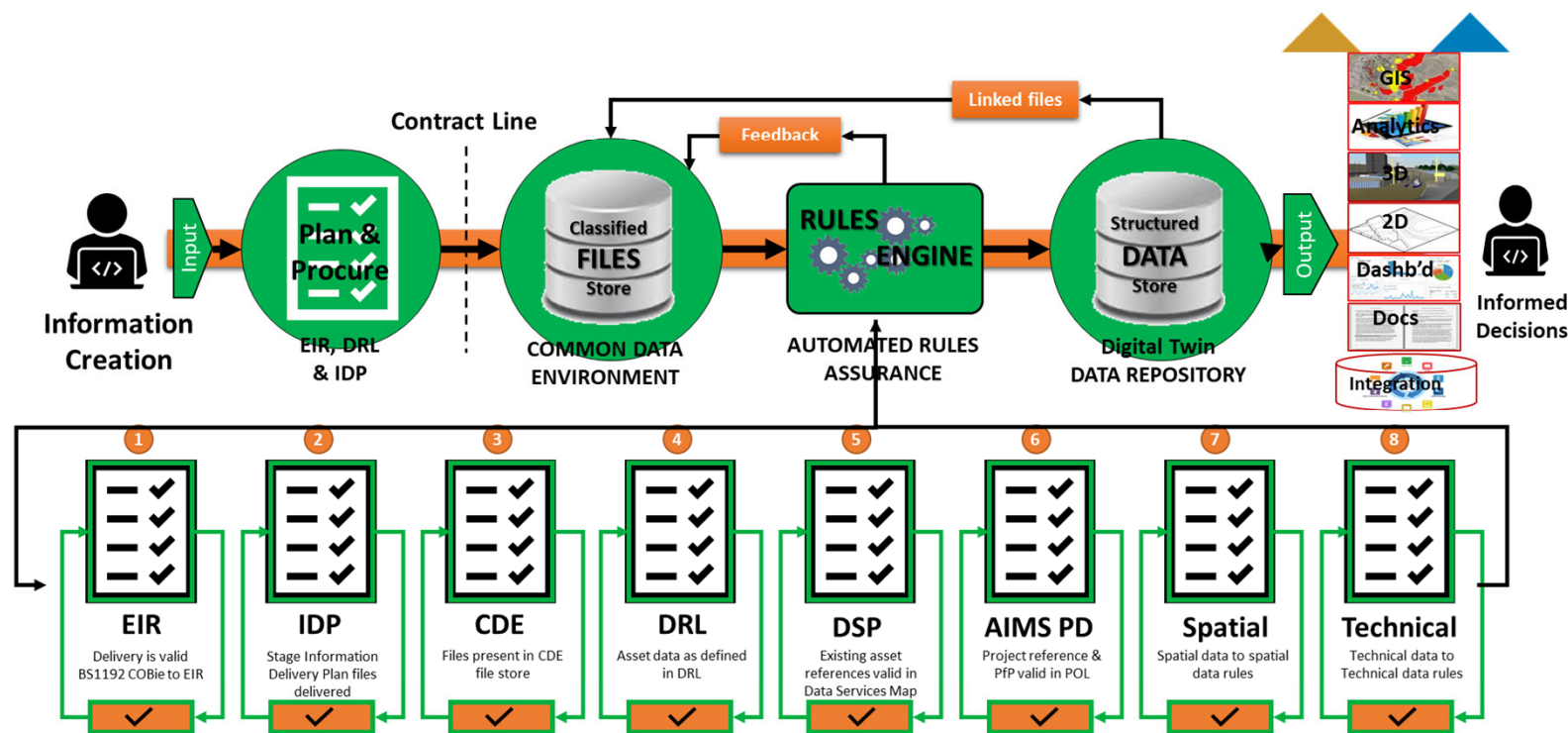
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Automated rules based file and structured geospatial and non-geospatial data integration and quality

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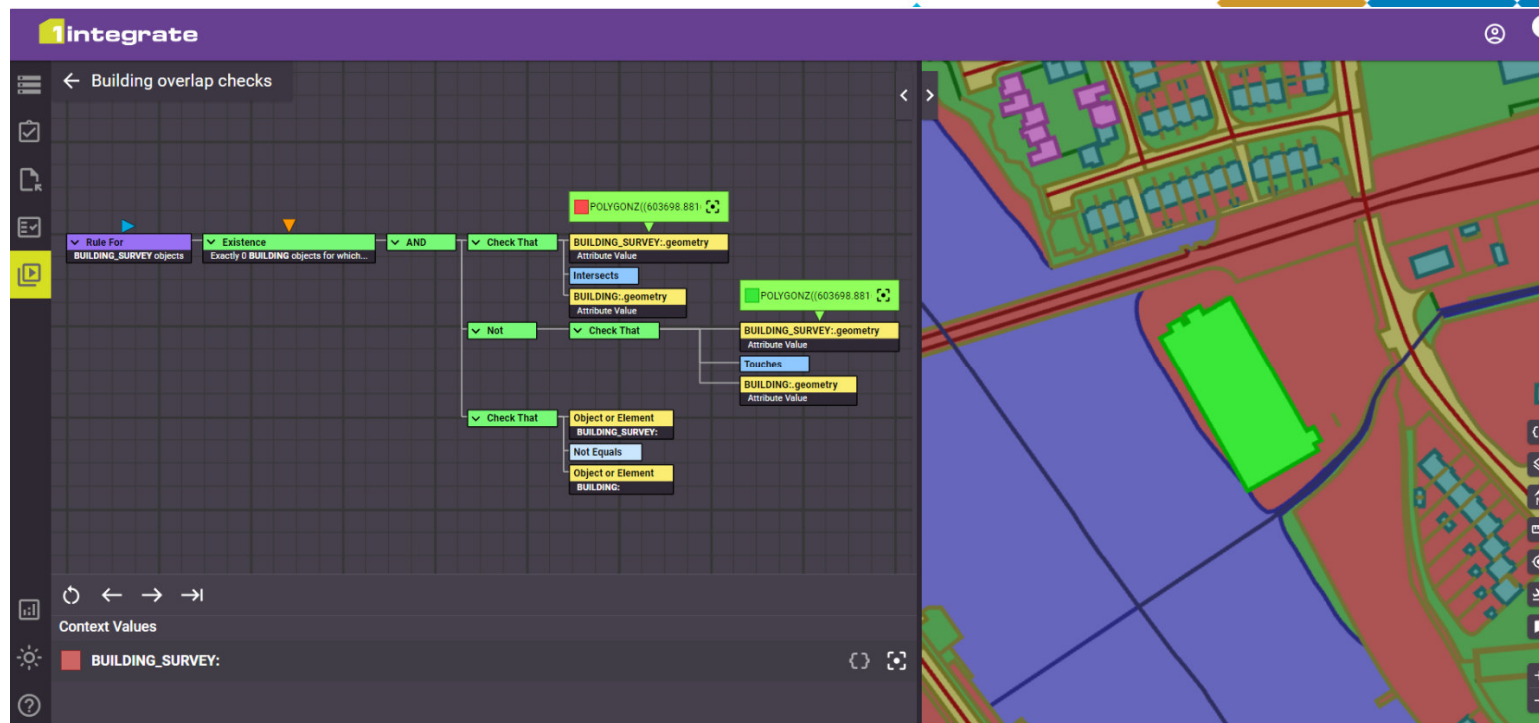
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No code Rules Engine – 1Spatial Platform





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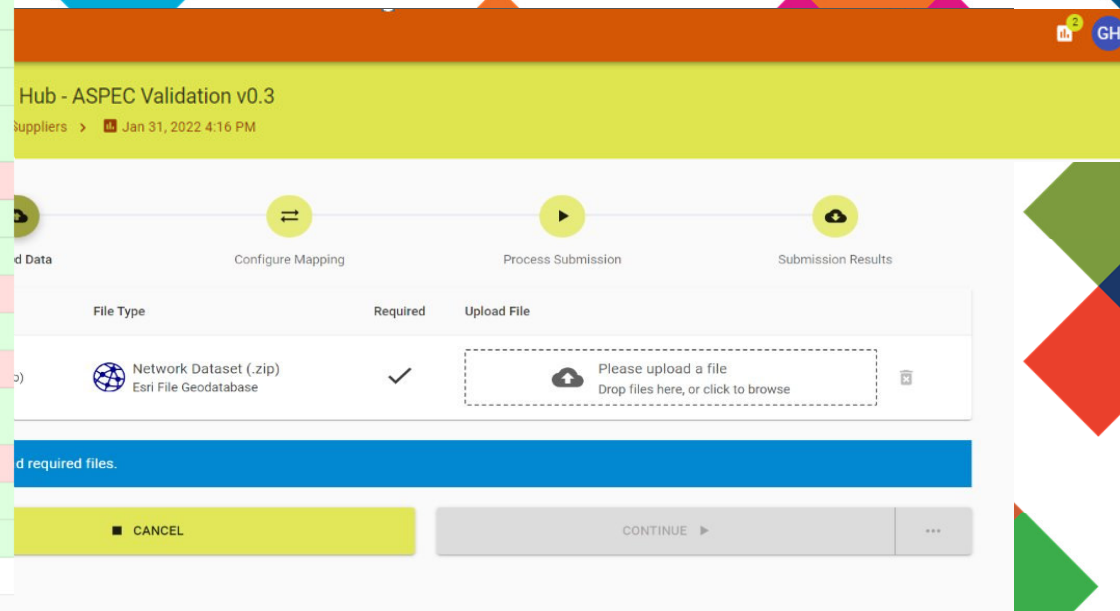
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Data Quality validation and correction



GDVhub
VALIDATION & CORRECTION

Hub Prod	<	My Assignments		
es		Check for excess class in source file	25 / 29 features valid	86.2% / 0% required
My Assignments		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
Submissions		Check attribute length and precision in source file	406 / 456 features valid	89.03% / 0% required
s		Check that related tables exist	19 / 44 features valid	43.18% / 100% required
My Account		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	



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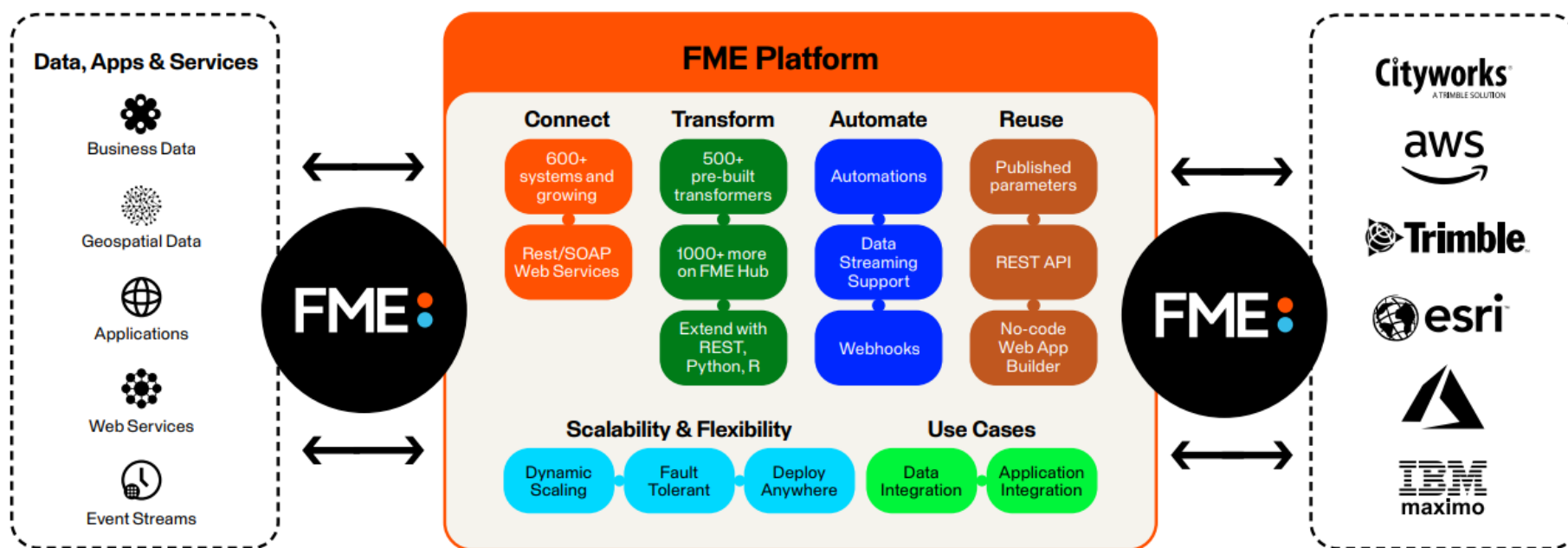
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FME – Data Integration



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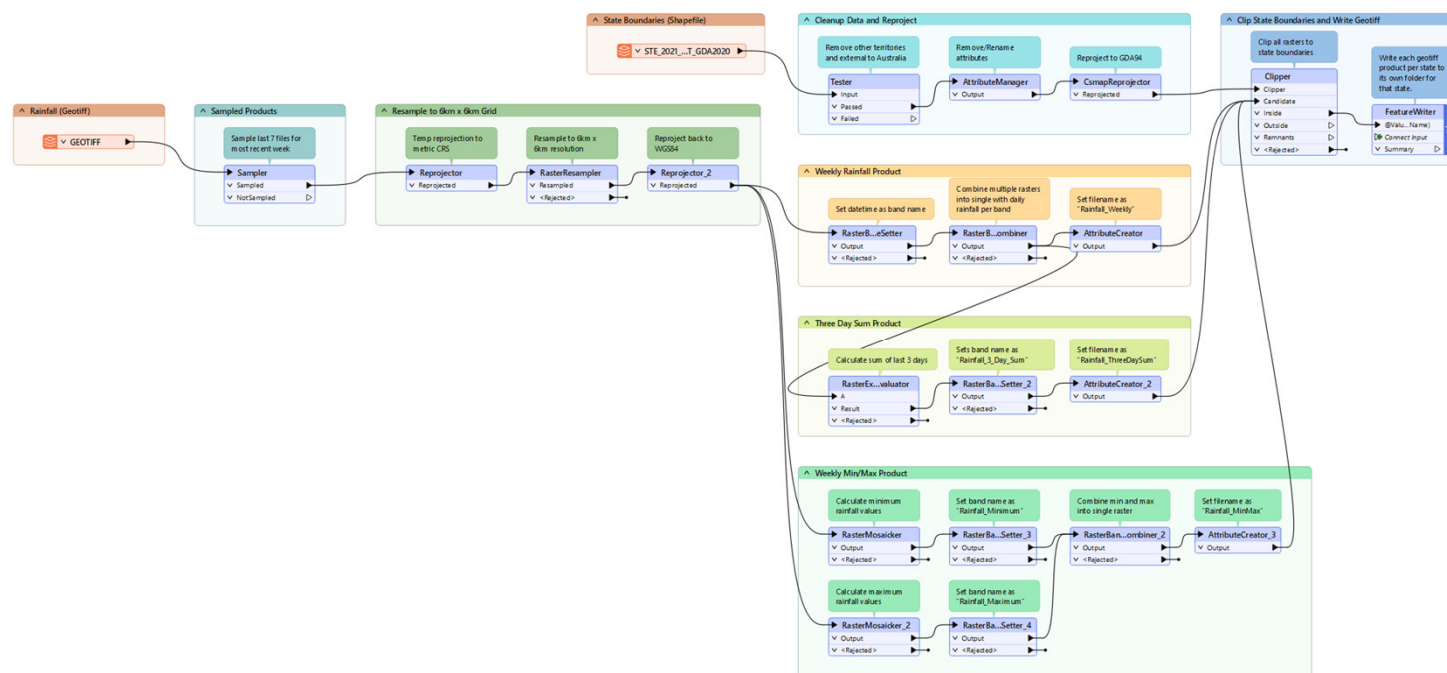
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Example of FME Workbench



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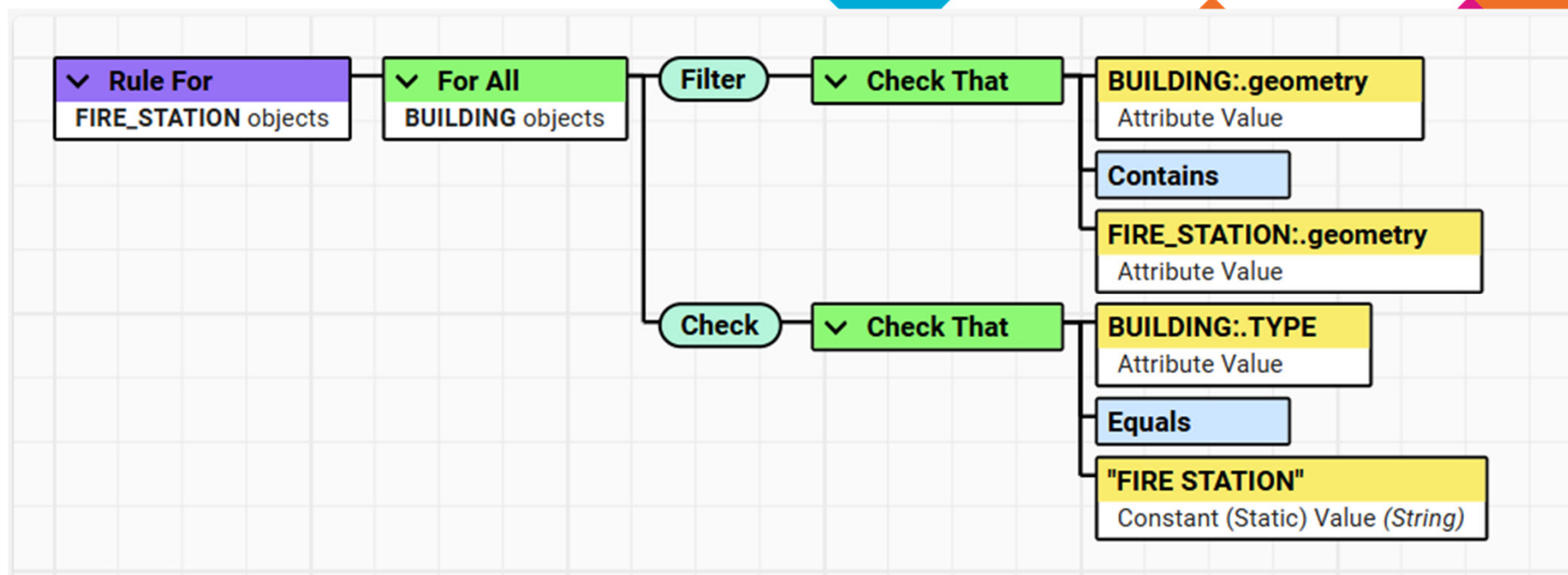
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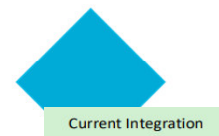
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City of Cockburn

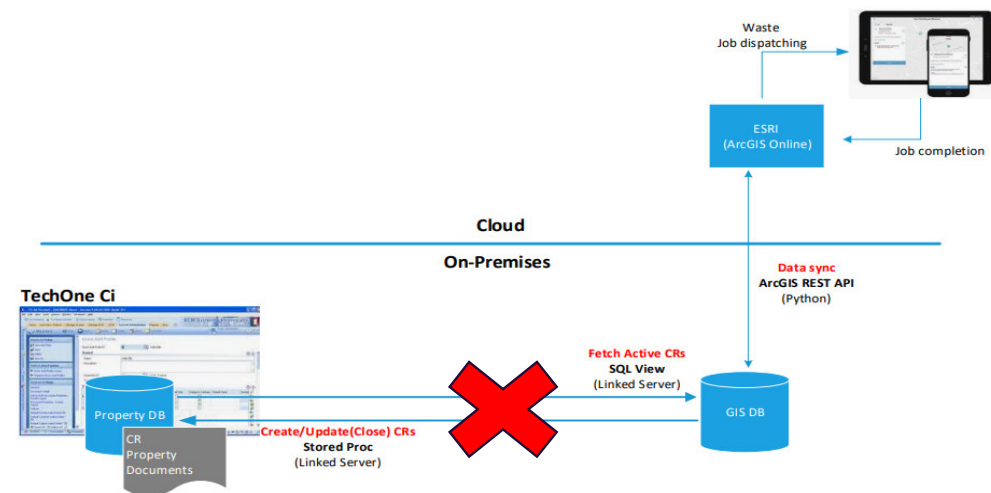


The City of Cockburn is moving from On-Prem to TechOne Cloud (SaaS)

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





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End to End Waste Management Solution

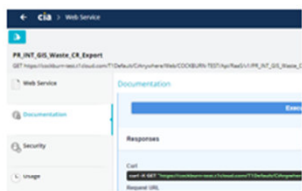
TechOne Ci SaaS

Web Service sFTP

UPSTREAM **ftpcaller or httpcaller**
Insert new, Update existing status



FME Form



Online Content
and Services

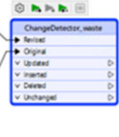
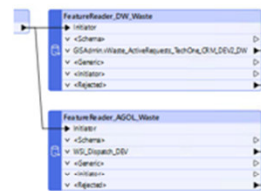
httpcaller

reader

DOWNSTREAM

Feature Service

ArcGIS Online



ETL scripting

FME
bv Safe Software



Automation



FME Flow

Flow - every 2 minutes

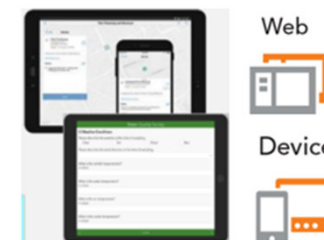
Downstream T1 → AGOL

1. httpcaller T1 web service
2. Read AGOL features service
3. Change Detector
4. Write AGOL upsert

Flow - Schedule nightly

Upstream AGOL → T1

1. Read AGOL feature service
2. httpcaller T1 web service
3. Change Detector
4. Upload sFTP or httpcaller POST



Workforce/Survey123

Customer Requests
Firebreak Inspections
Waste Services
Statutory Planning
Street Trees

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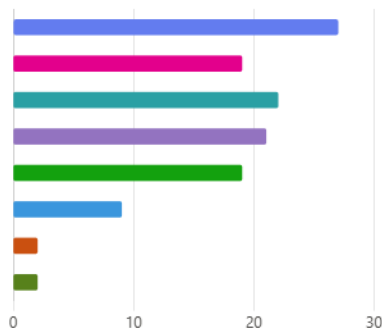
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Local Government Survey Results

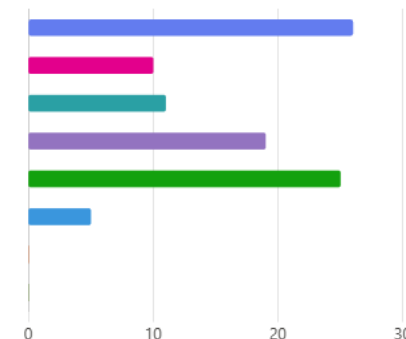
5. What are the primary purposes for which your council uses FME? (Select all that apply)

- Data conversion and transformation 27
- Data integration between systems 19
- Automating workflows 22
- GIS data processing 21
- Managing spatial data (e.g., geospatial transformations) 19
- Quality assurance for datasets 9
- CAD and BIM data integration 2
- Other 2



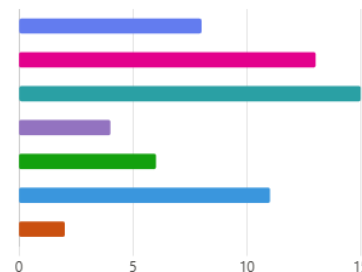
9. What types of data formats are you most frequently working with in FME? (Select all that apply)

- GIS formats (Shapefile, MapInfo TAB, File geodatabase) 26
- Encoded data (GeoJSON, JSON, GML, KML) 10
- CAD files (e.g., DWG, DXF, DGN) 11
- Tabular data (Excel/CSV) 19
- Databases (e.g., SQL Server, PostgreSQL) 25
- Raster images 5
- Point Cloud 0
- Other 0



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

- Data validation and quality checks 8
- Data integration between different systems 13
- Automating GIS tasks 15
- Sending automated notifications or reports 4
- Syncing databases 6
- Scheduling ETL tasks 11
- Other 2



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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



**SUSTAINABLE
DEVELOPMENT GOALS**

International Federation of Surveyors supports the
Sustainable Development Goals

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



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