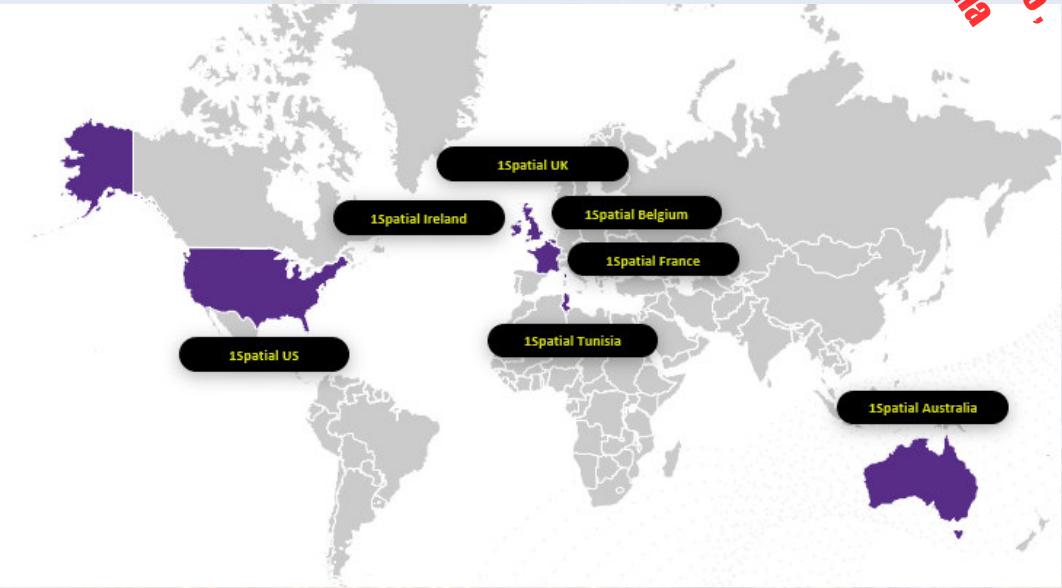
Presented at the FIG Working Week 2025,
6-10 April 2025 in Brisbane, Australia

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

Envisioning a Future-Ready Local Government

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.

Data management challenge

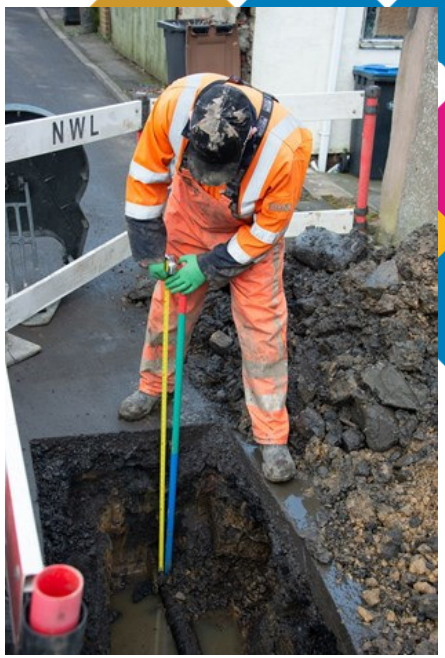
Data Quality

- Accuracy
- Completeness
- Reliability
- Timeliness

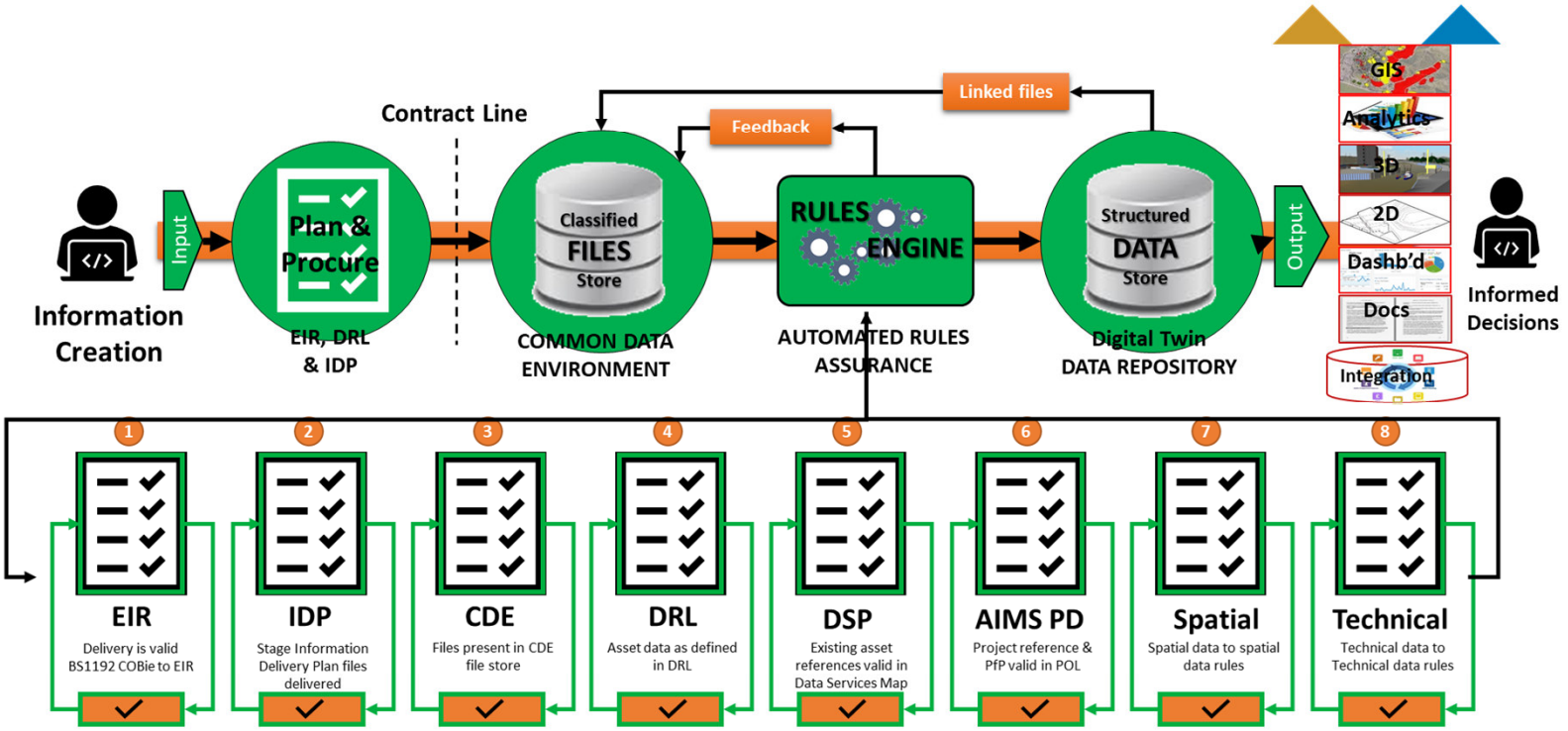
Data Integration

- Source Diversity
- Large Volumes
- Real-Time Integration

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



Over 60% of infrastructure information is explicitly geospatial



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

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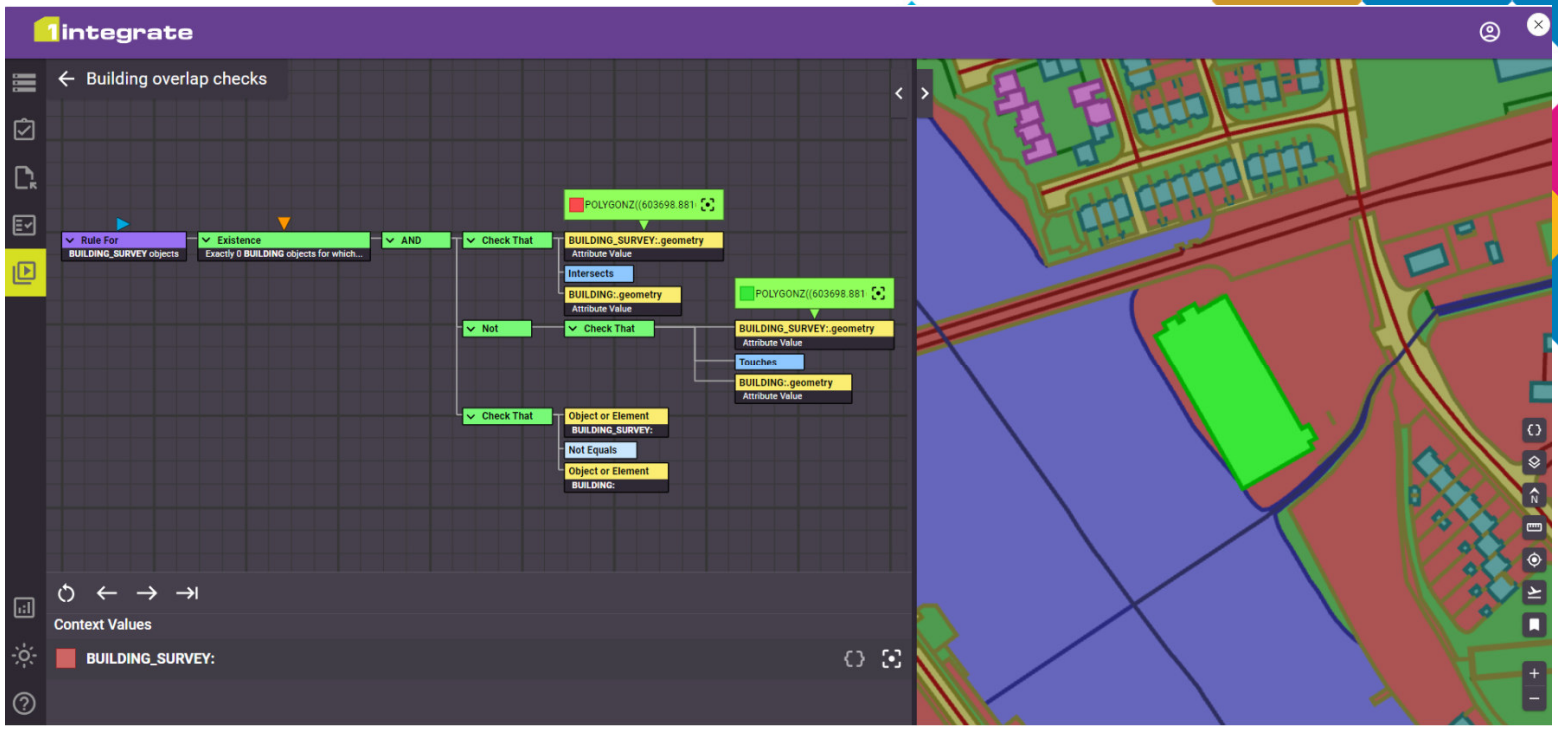
No code Rules Engine – 1Spatial Platform



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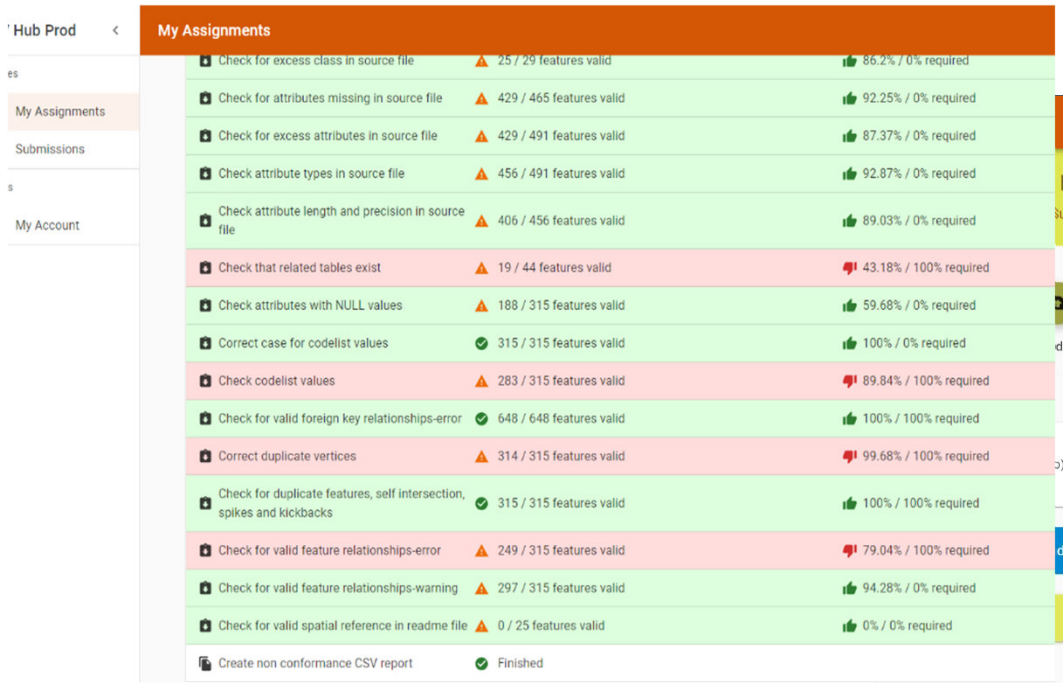
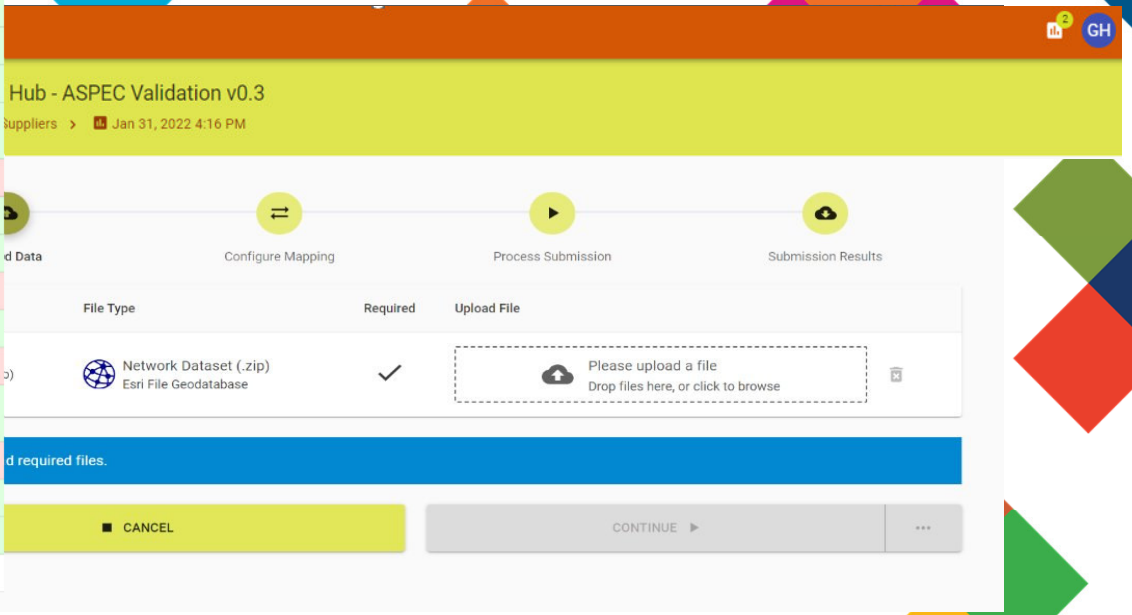
Data Quality validation and correction

GDV hub
VALIDATION & CORRECTION





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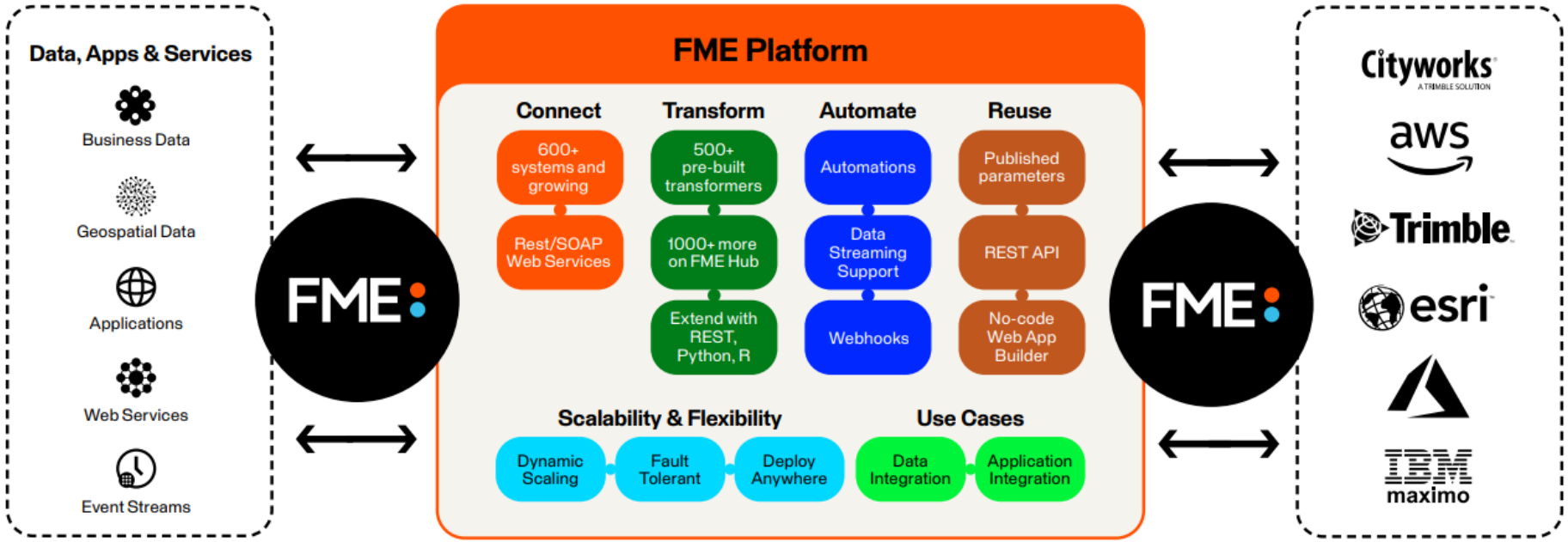
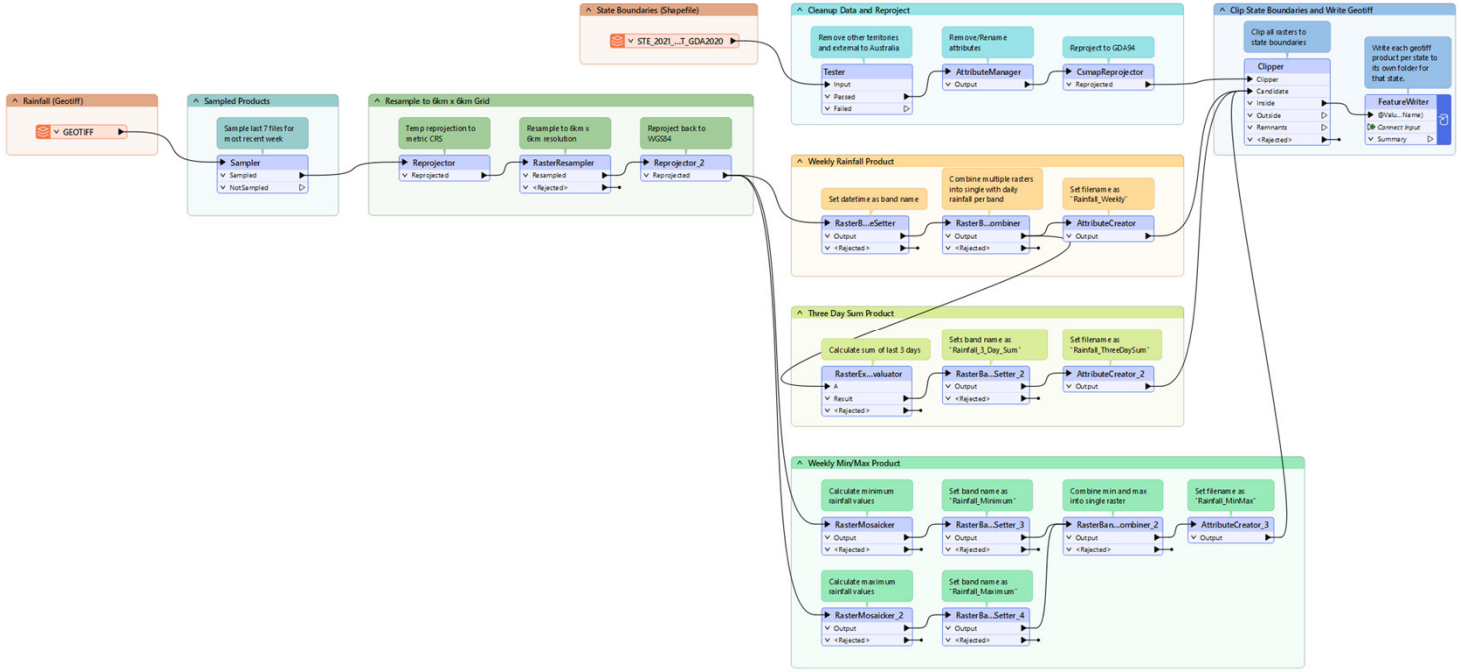
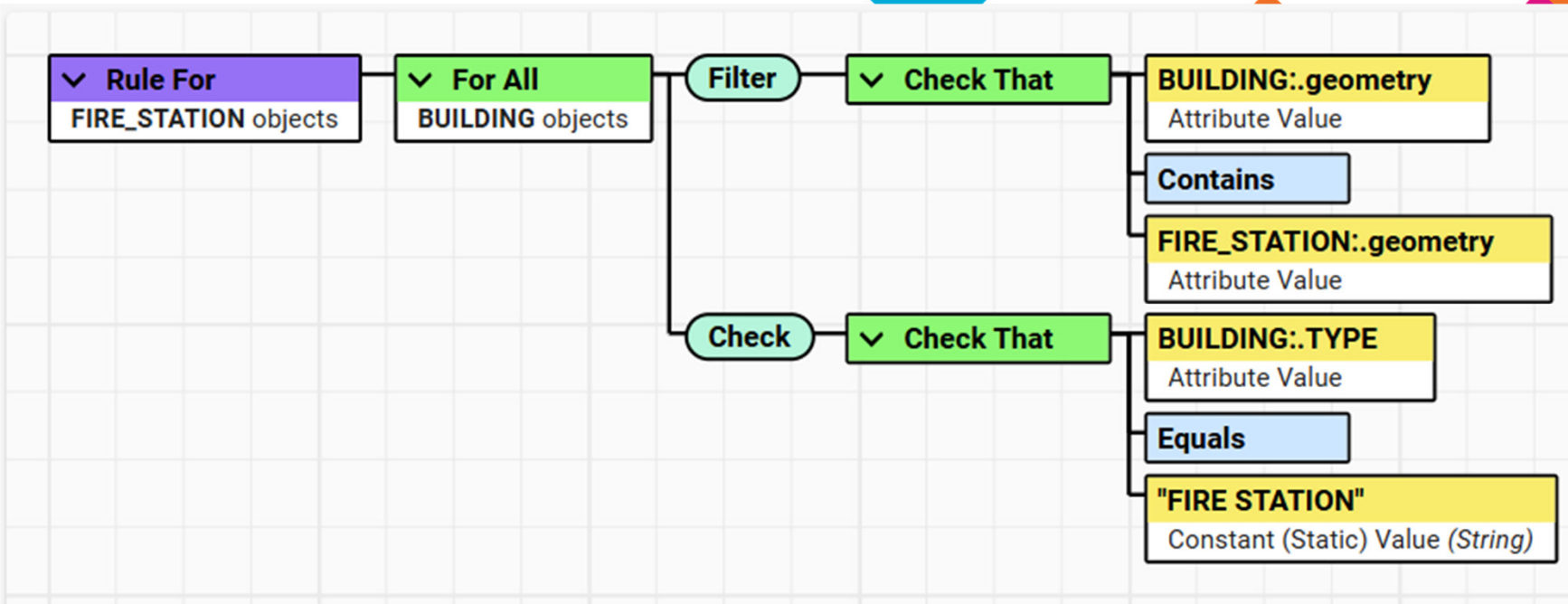
FME – Data Integration



Example of FME Workbench



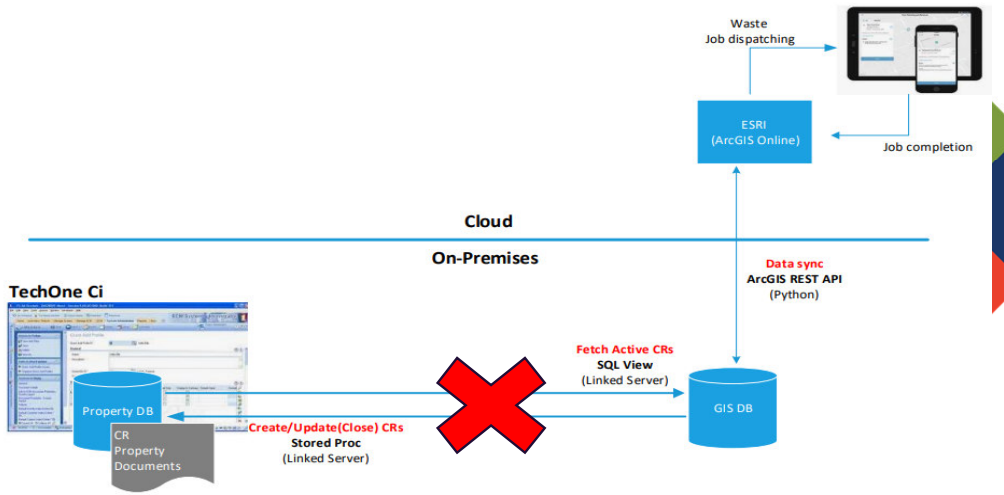

Rule For
FIRE_STATION objects
For All
BUILDING objects
Filter
Check That
BUILDING:.geometry
Attribute Value
Contains
FIRE_STATION:.geometry
Attribute Value
Check
Check That
BUILDING:.TYPE
Attribute Value
Equals
"FIRE STATION"
Constant (Static) Value (String)

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

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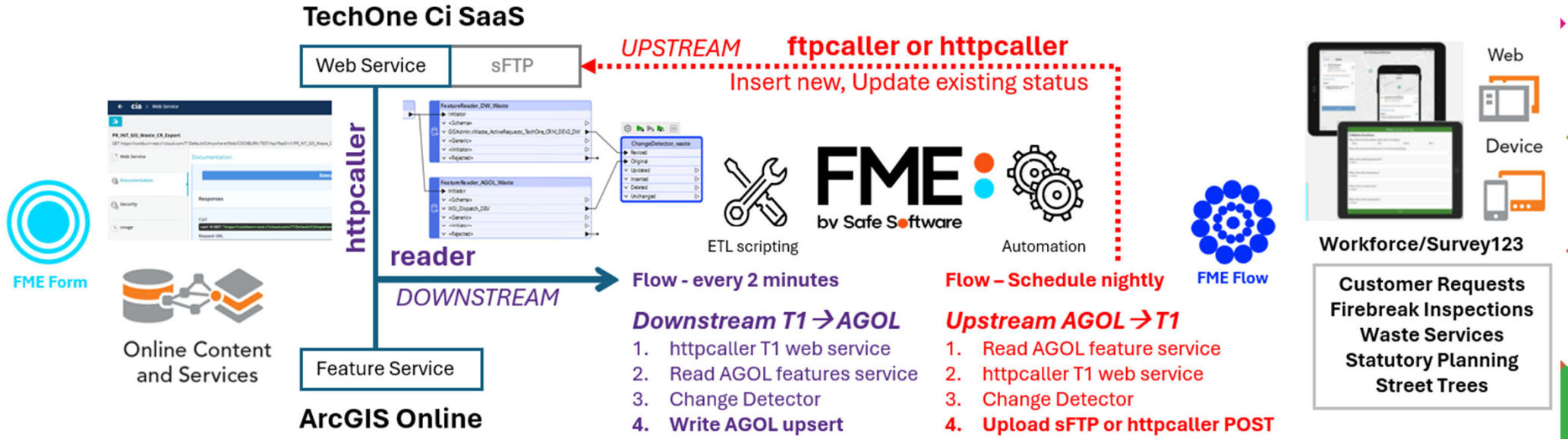
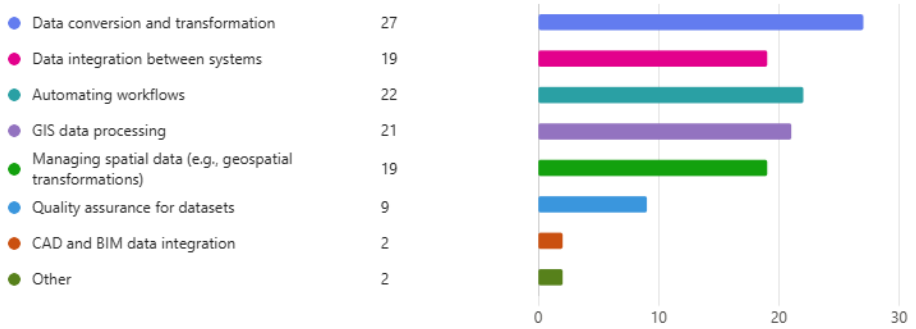
End to End Waste Management Solution

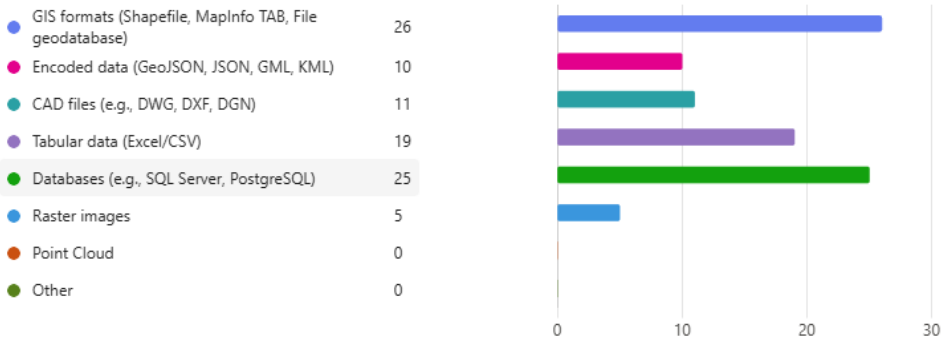


Local Government Survey Results

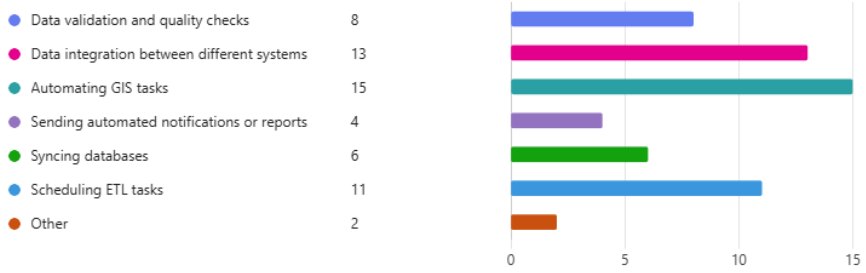
5. What are the primary purposes for which your council uses FME? (Select all that apply)



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!

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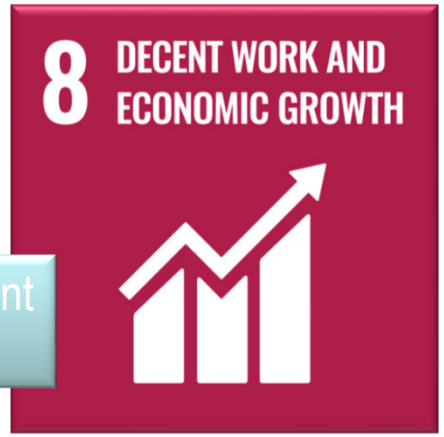
The most relevant SDGs related to the presentation and theme of this session

1st relevant SDG

2nd relevant SDG



3rd relevant SDG

SUSTAINABLE DEVELOPMENT GOALS

International Federation of Surveyors supports the Sustainable Development Goals

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