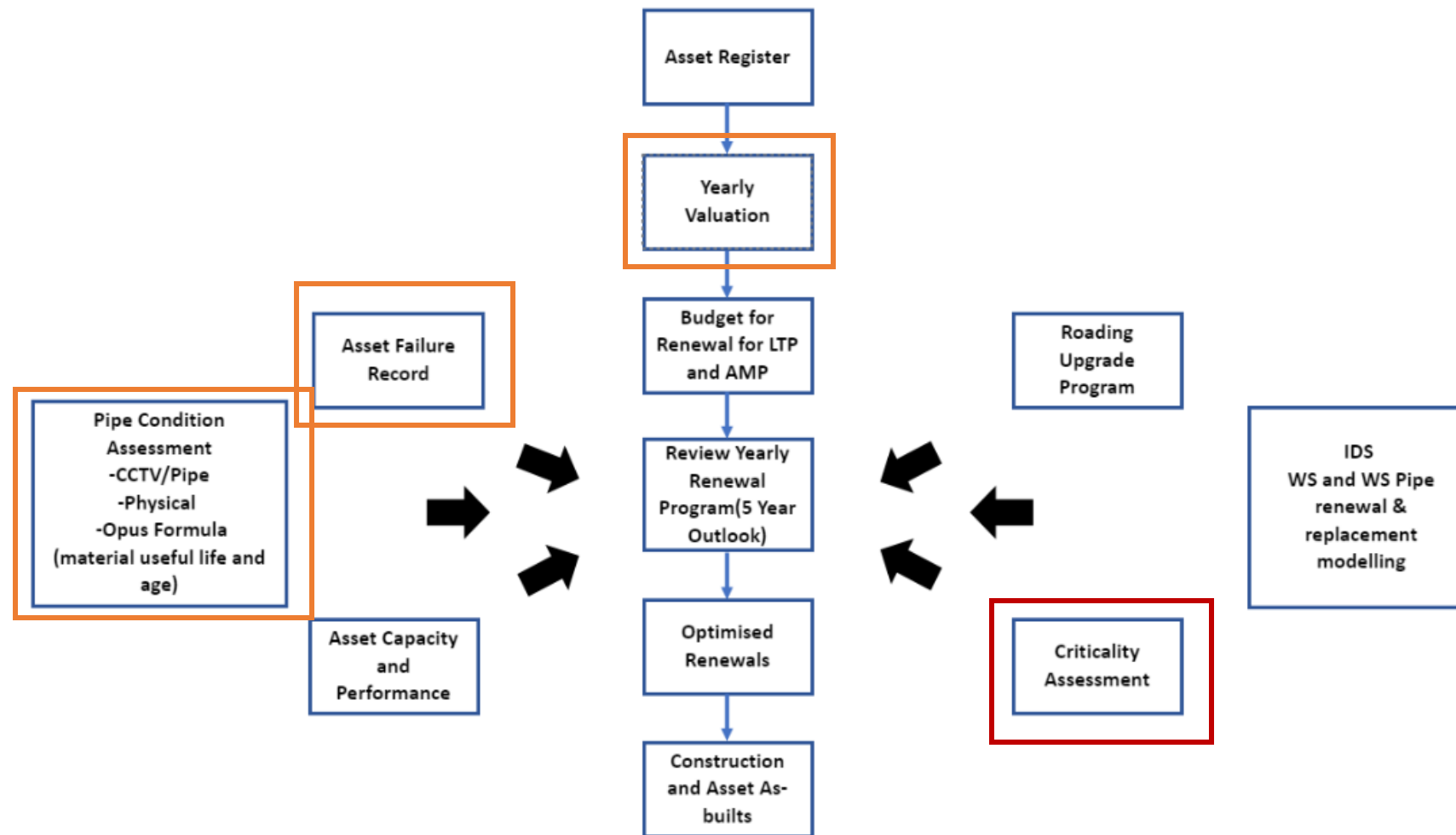


FME streamlining our water criticality

- **What is water asset “criticality”?**
- **What were we doing?**
- **What are we doing now?**

Where does water “criticality” fit?



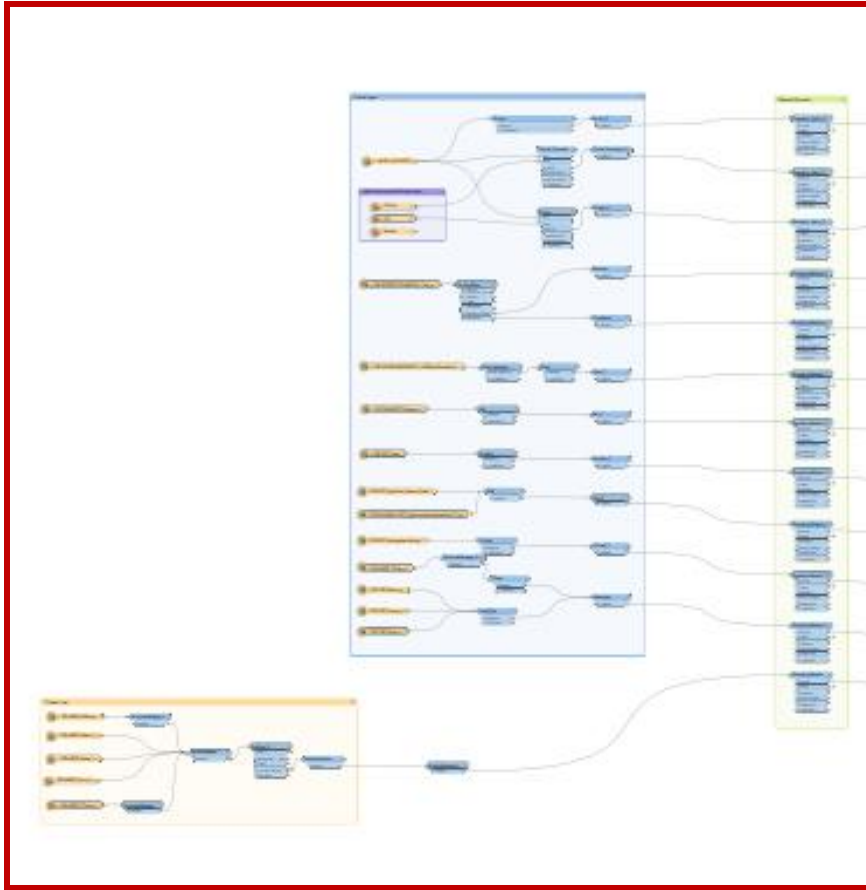
SDC 5Waters Renewals programme

What were we doing?

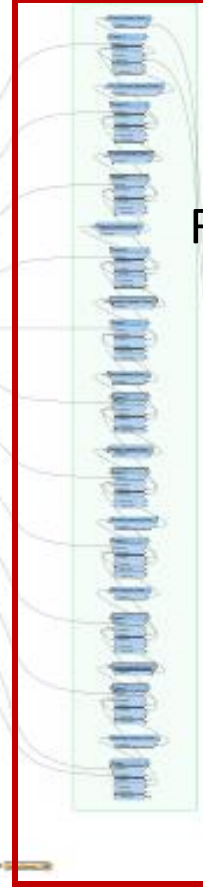
- It is a large geospatial process that requires a lot of different parts in both python and model builder
- We had already updated from ArcGIS Desktop to ArcGIS Pro, so we were aware of all the “tricky problems”.
- The upgrade from ArcGIS Pro 2.9 to ArcGIS Pro 3 again required all scripts and models to be rebuilt
- We wanted to find a better solution for us

What are we doing now?

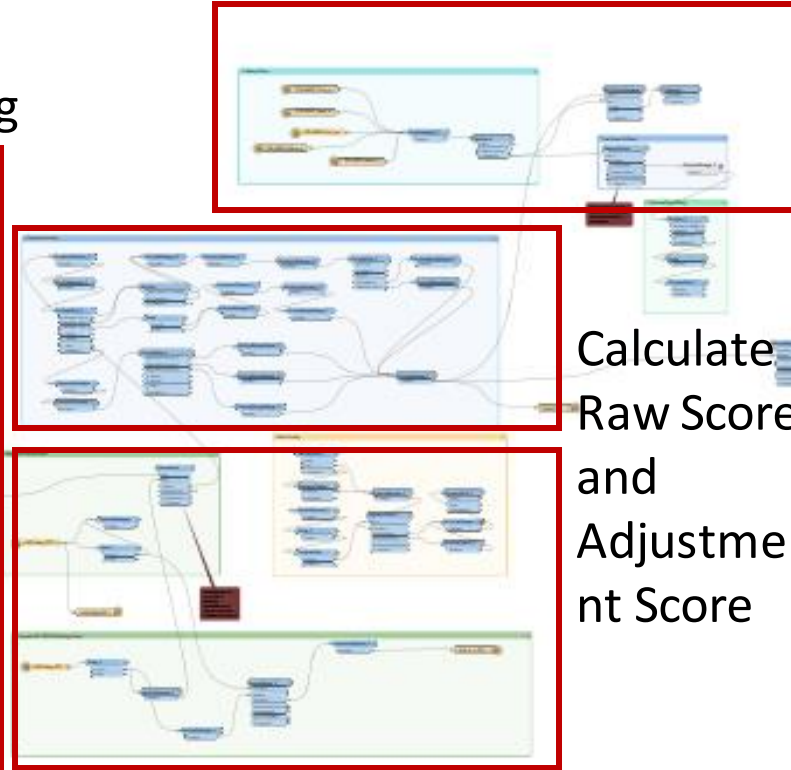
Data



Proximity rule

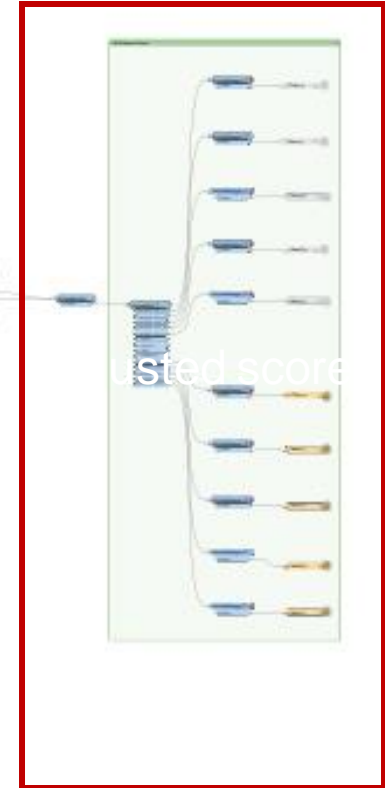


Filtering

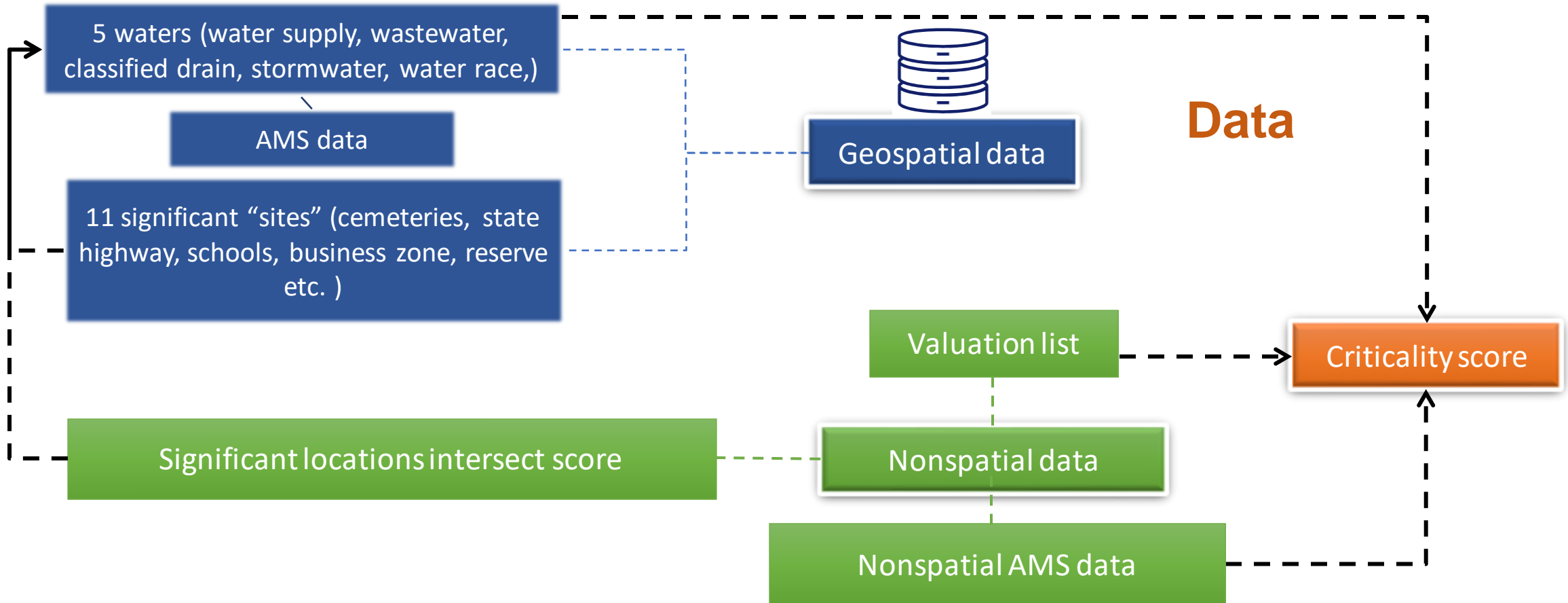


Bringing in non-spatial data for calculating adjusted score

Writing output



Why is it better?



Ability to integrate diverse data types/sources:

- Bring 5 water assets stream and process it in one go
- Connect spatial and non spatial data without creating and storing intermediate data

Output

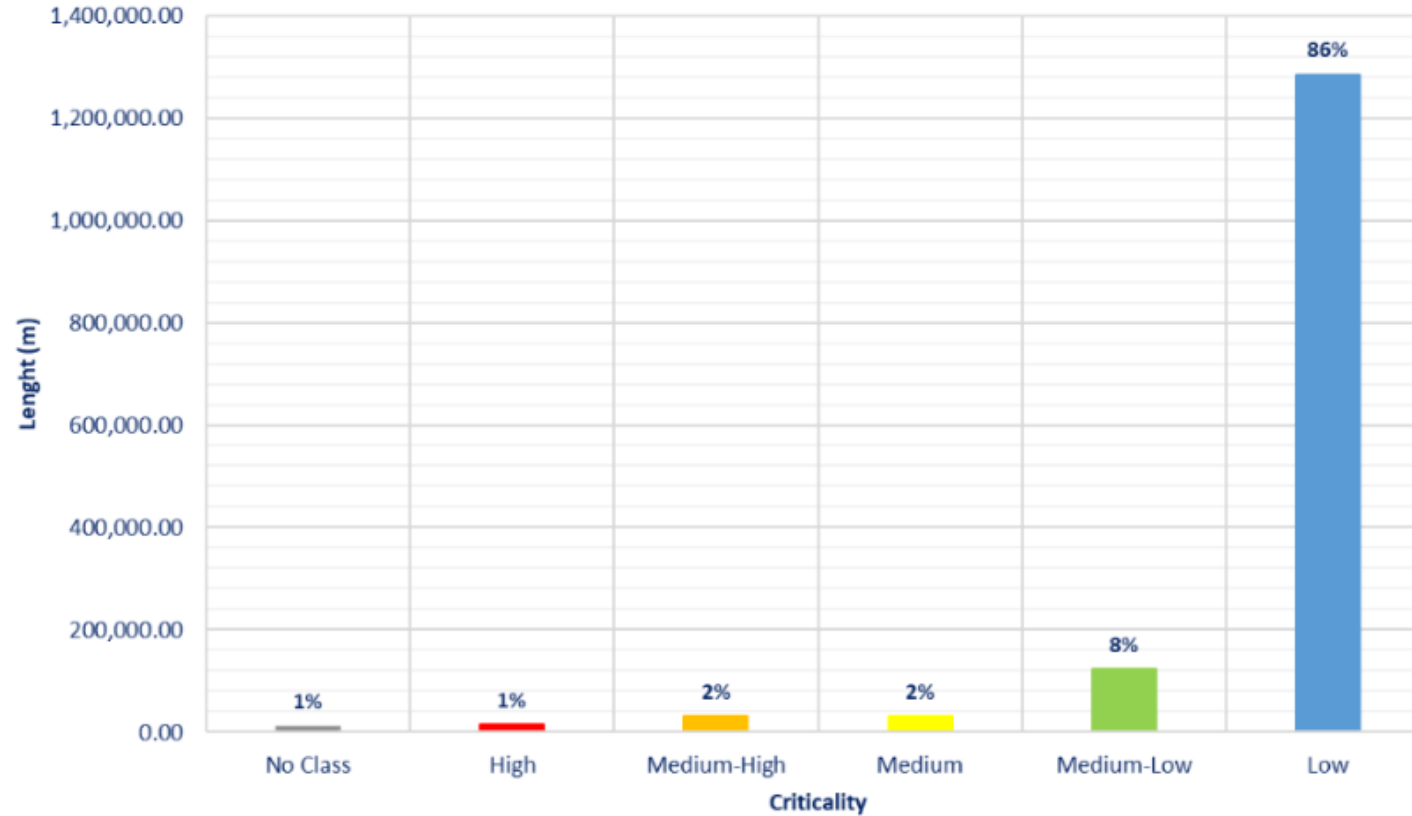


Example: Castle Hill Water Supply Criticality map

[Castle Hill Water Supply 2024 Story map](#)

Output

Water Supply - Pipeline Criticality



Criticality Bands		Length (m)	%
5	Low	5,786	62%
4	Medium-Low	1,111	12%
3	Medium	691	7%
2	Medium-High	1,774	19%
1	High	0	0%
0	No Class	0	0%

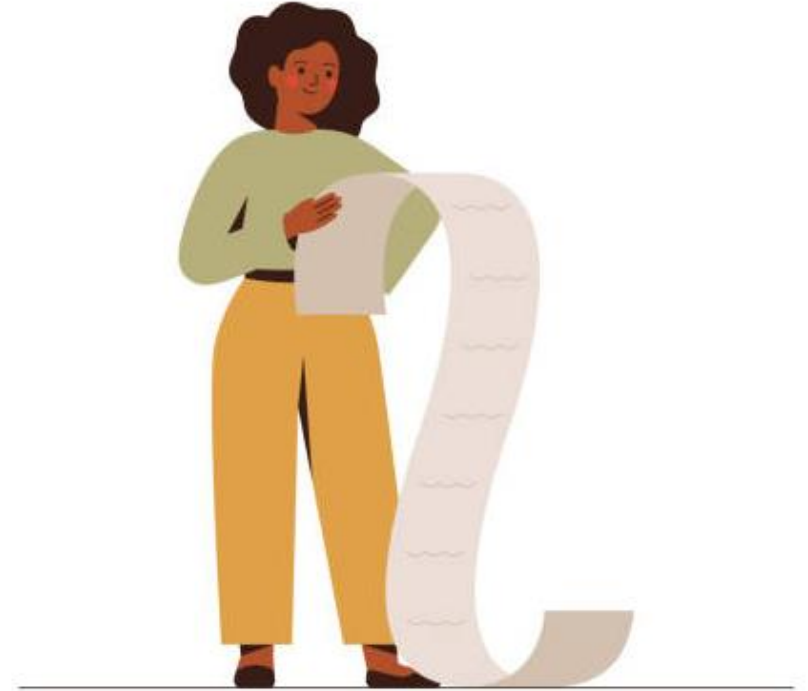
Castle Hill Water Supply Criticality

[5 Waters Asset Management Plan 2024 Story map](#)

How has it helped our team?

Comprehensive Workflow Documentation:

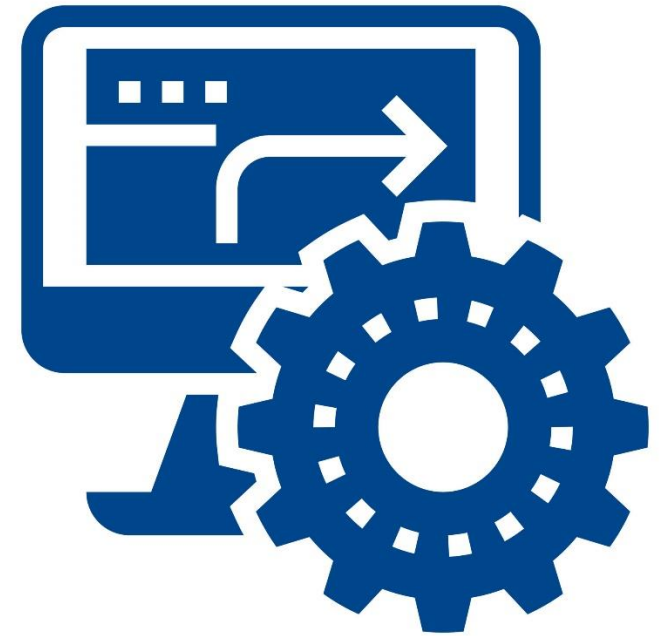
- Easy to inspect, review, rerun and maintain data sources and rules
- Easy to understand steps within workflow

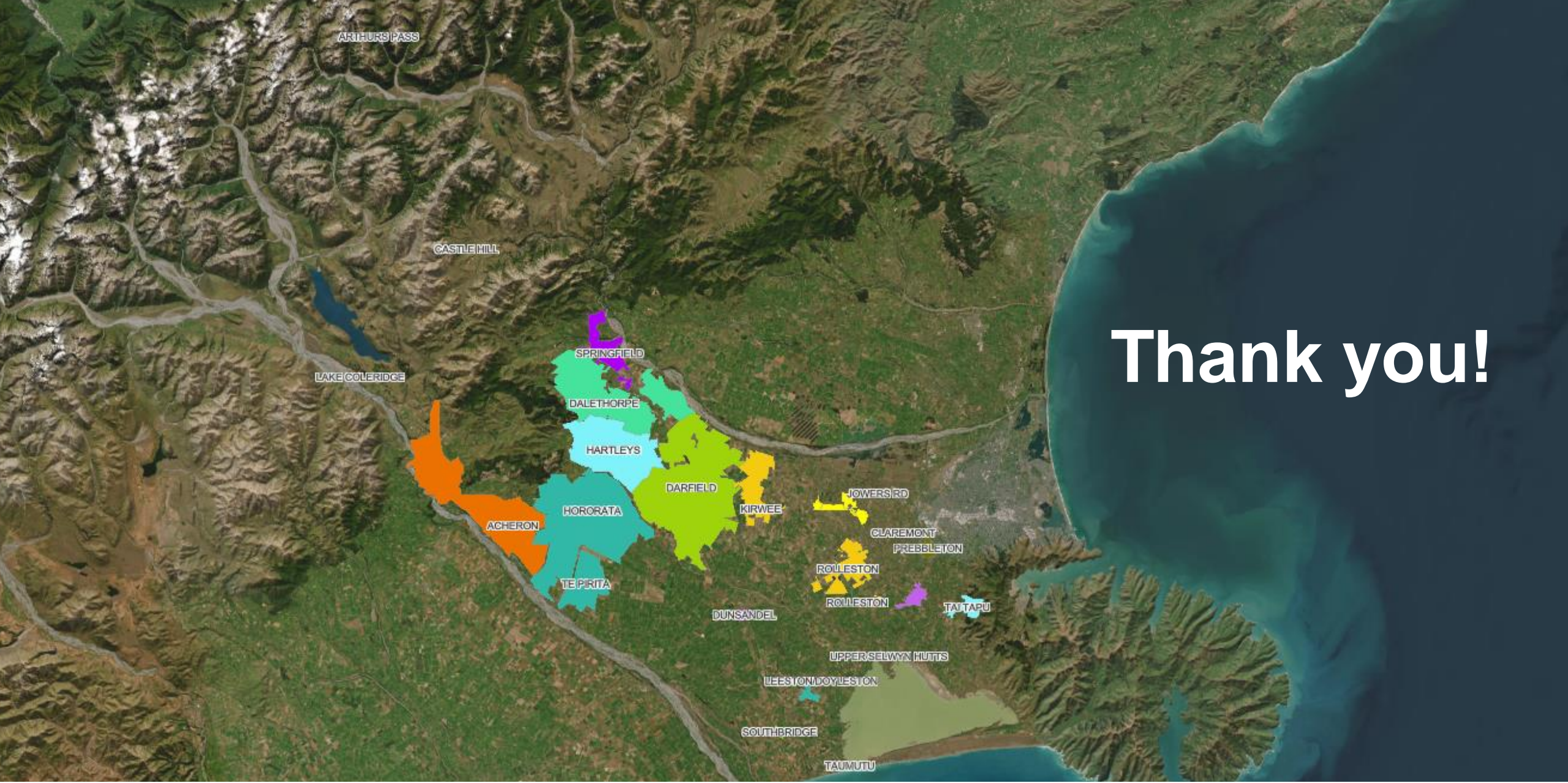


Way forward

Let's automate this

- Data quality
- Dynamic feeds of non-spatial data requirements





Thank you!