Line On Line Relator

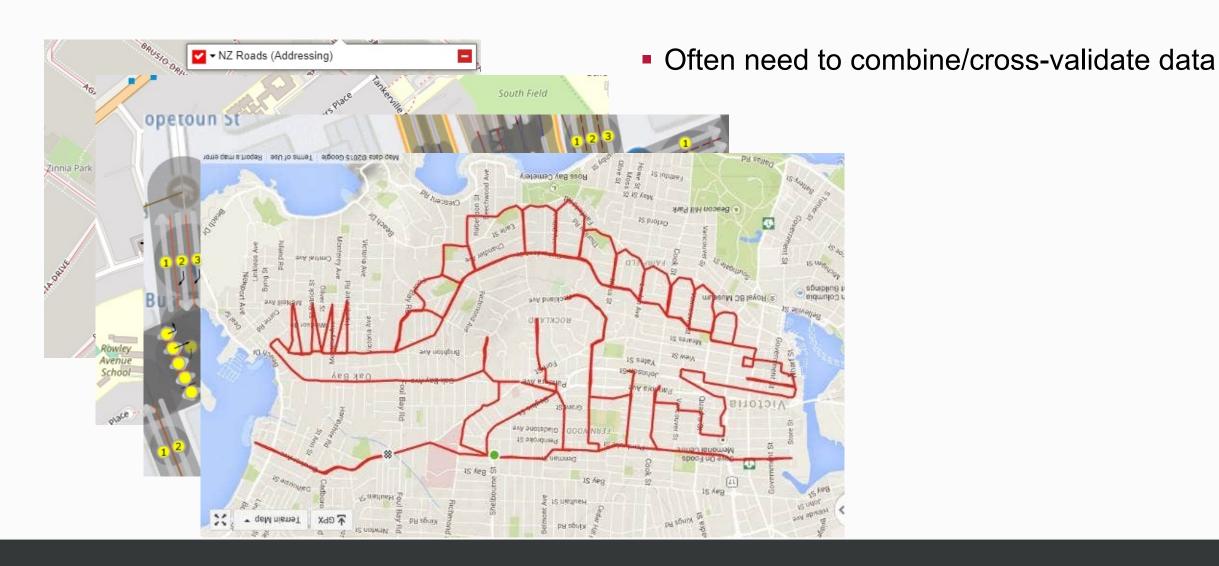
CHRIS TREDINNICK Senior FME Specialist

chris.tredinnick@abley.com



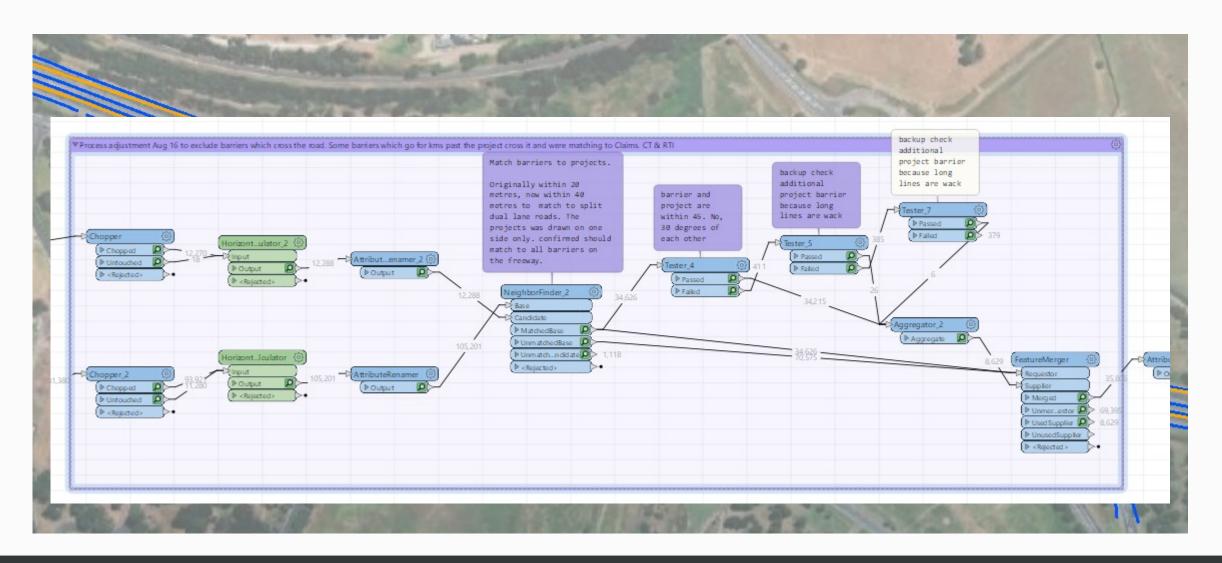
We work with a lot of road data





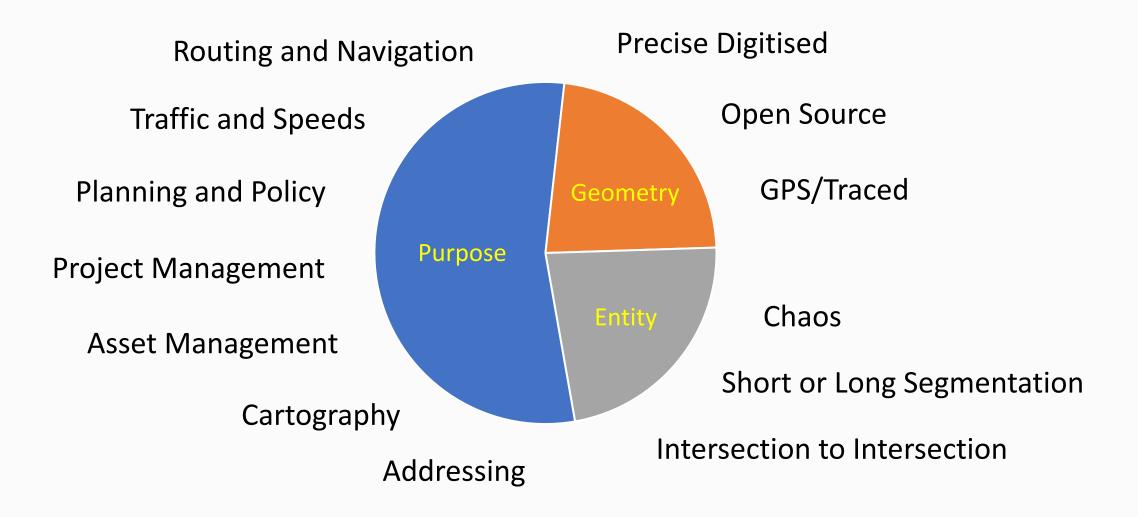
We work with a lot of road data

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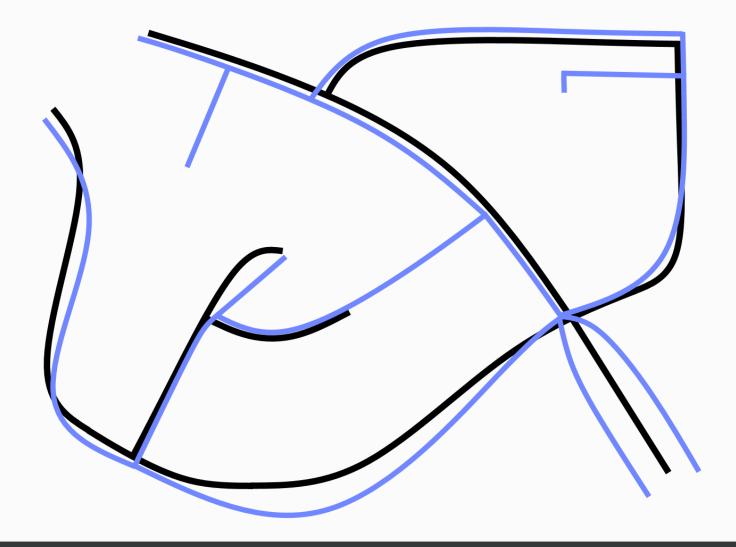
Different data sources





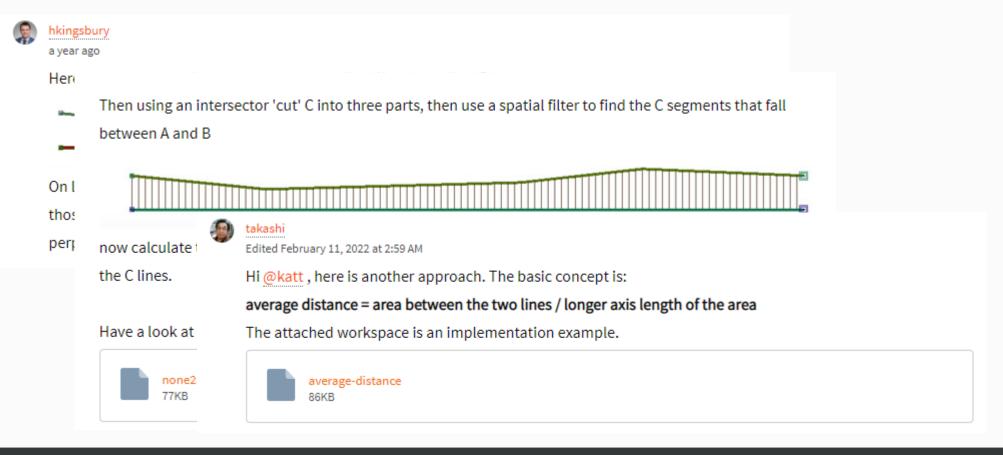
General Solution?

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General Solution?

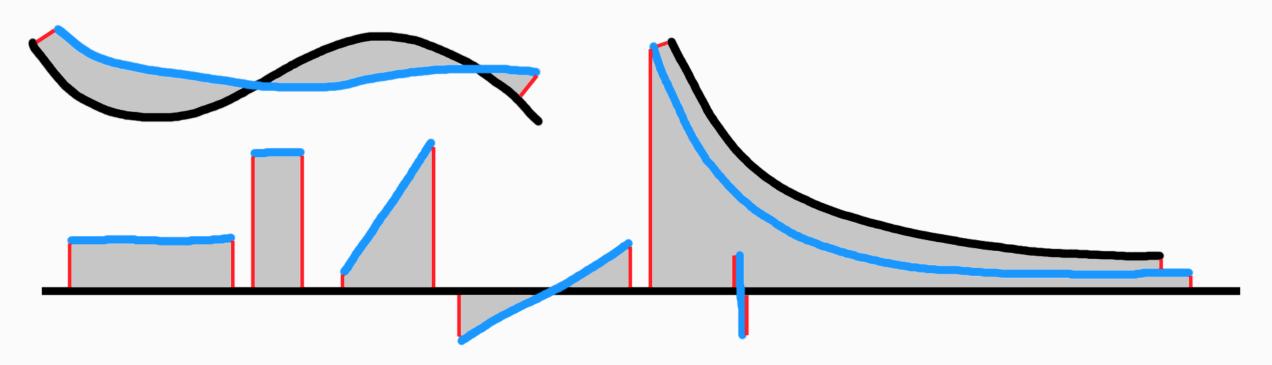
https://community.safe.com/s/question/0D54Q00009IV7eLSAT/is-it-possible-to-calculate-the-average-distance-between-two-lines-



General Solution?



- Enclose the area between the lines, and approximate the average distance as Area divided by Length.
- This average distance is the maximum tolerance.
- Connector lines and area ratio can filter out bad matches.



Transformer Refinement



- Add in basic overlap functionality.
- Reverse approach of area on line to line on area. Whole thing was back to front.
- Rename all overlap modes and their descriptions to be better.
 - First user testing with the team required a lot of explaining.
- Rename all ports to be like a FeatureMerger.
 - It's kind of similar!
- Adjust function and formulas of tolerances from testing with different datasets.
 - Every dataset is different. Expect to find anything.
- More parameterisation.
- Testing Testing Testing! Make fault-tolerant.

A Note on Usage

ID: 1567

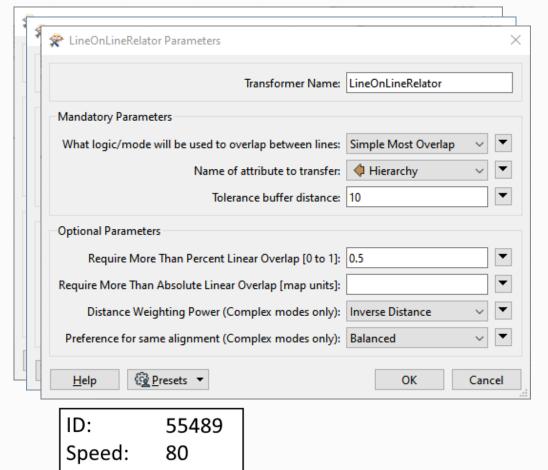
Speed: 50

Hierarchy: Arterial

ID: 3065 Speed: 50

Hierarchy: Arterial

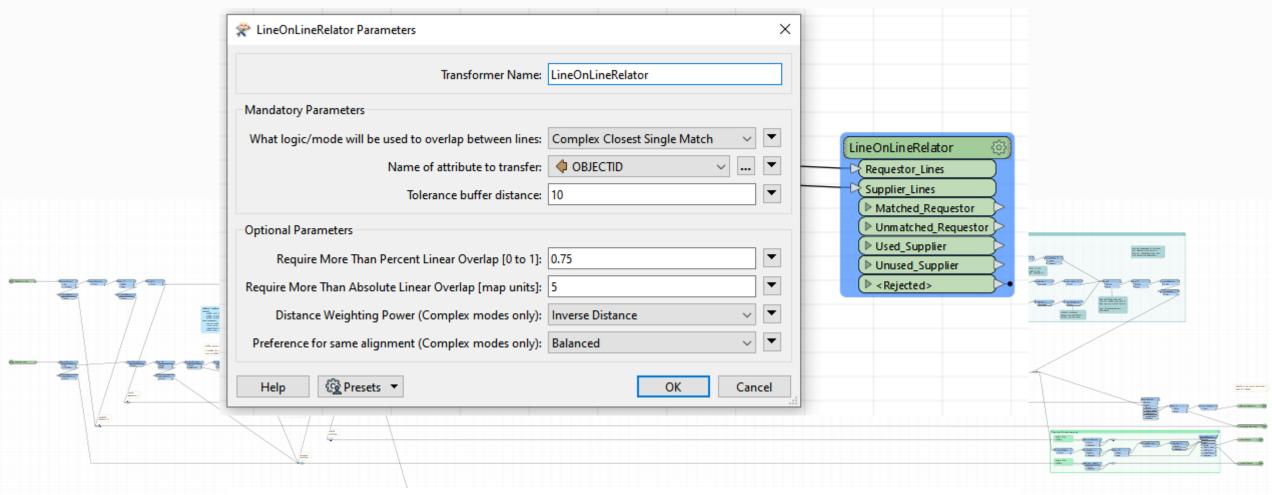
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Hierarchy: Arterial

Result





https://hub.safe.com/publishers/abley-limited/transformers/lineonlinerelator

QUESTIONS

