



Australian Rail Track Corporation (ARTC)
Mike Gresham, Australia

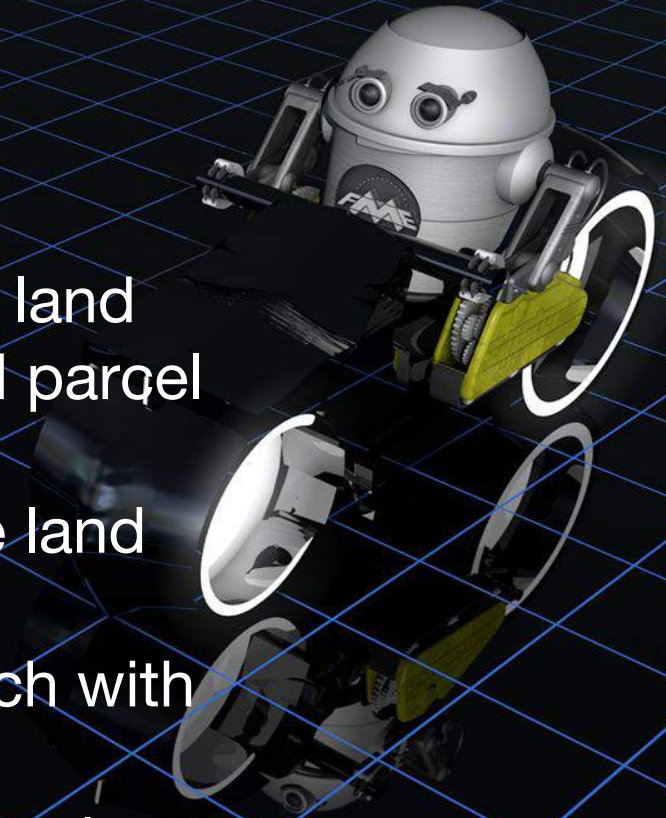


Objective

Visualize properties with land access agreements for the feasibility and detailed design phases of railway construction

Challenges

- Integration of an Excel register of land access agreements with GIS land parcel data.
- Agreements may contain multiple land parcels (geometries).
- Program covers three states - each with unique cadastral identifiers.
- Ensure minimal disruption to Property team's current process



Solution

START

Excel Land Agreements
+
GIS Land Parcels



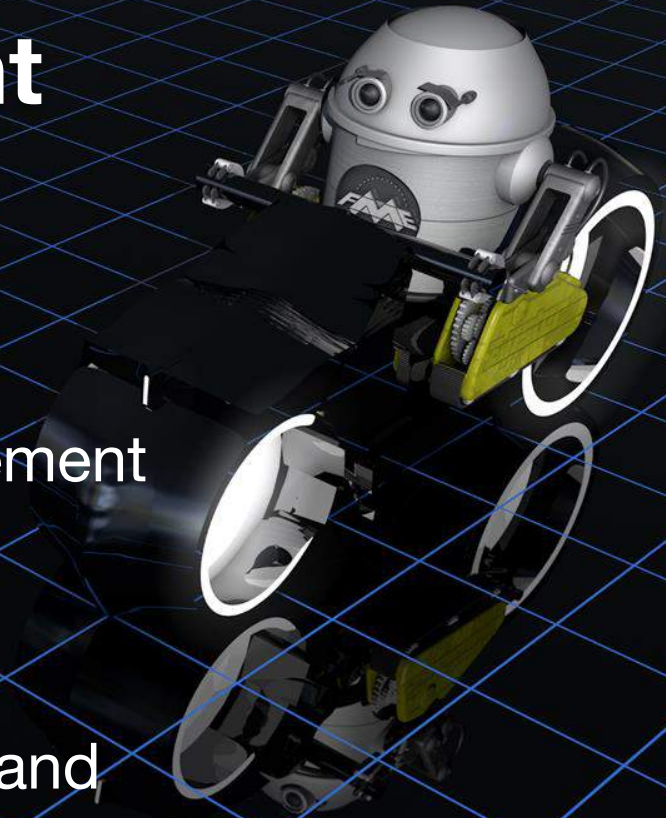
FME Workspace
Split, join, cache,
and validate land
agreement data

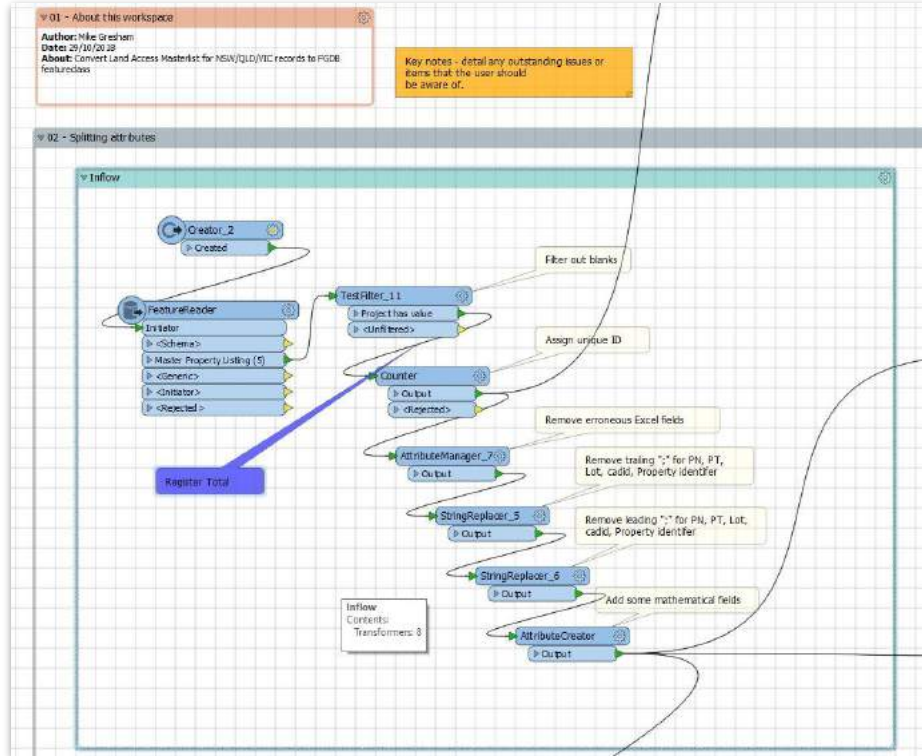
FINISH

Comprehensive
GIS Layer

Land Access Agreement Register

- Property identifier
- Cadastral lots pertaining to agreement
- Access status
- Ownership
- Investigation types
- Hyperlink to soft copy executed land access agreement

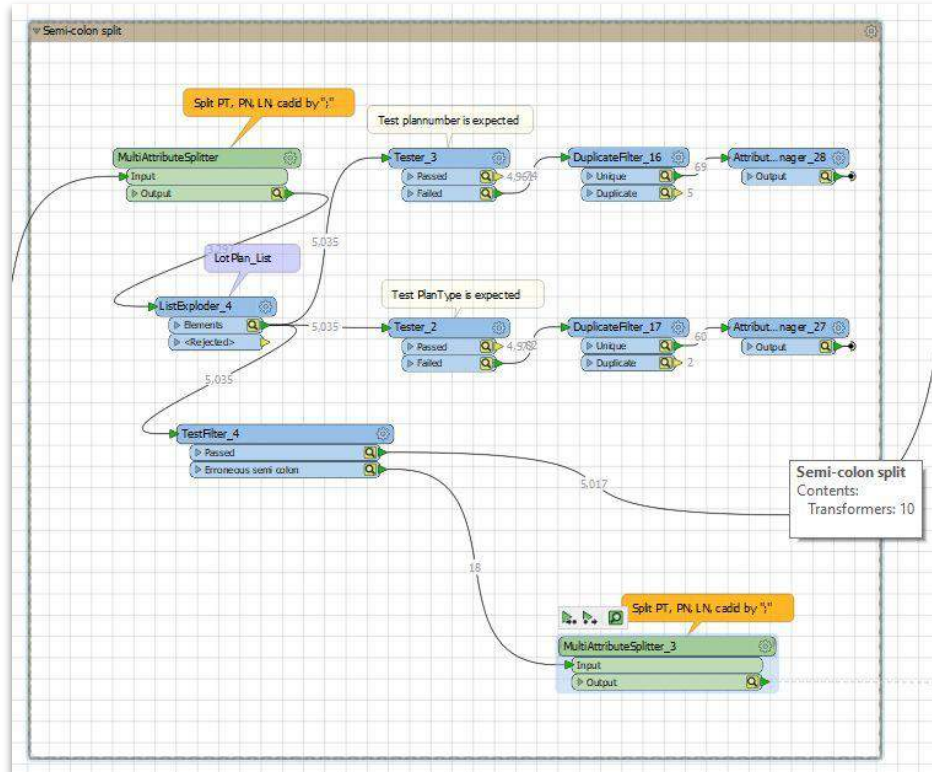




Inflow



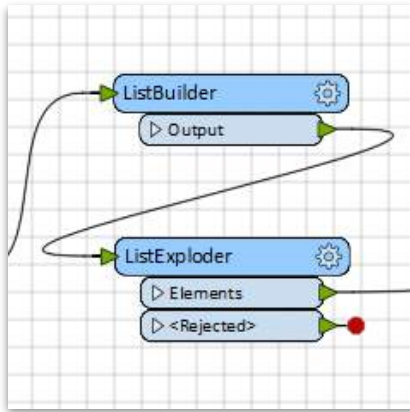
Splitting the records



Property Identif	Plan Type	Plan Number	Lot Number
26548774	RP	456721; 245677; 456461; 546546	1,2,3; 56; 4-10; 7,9

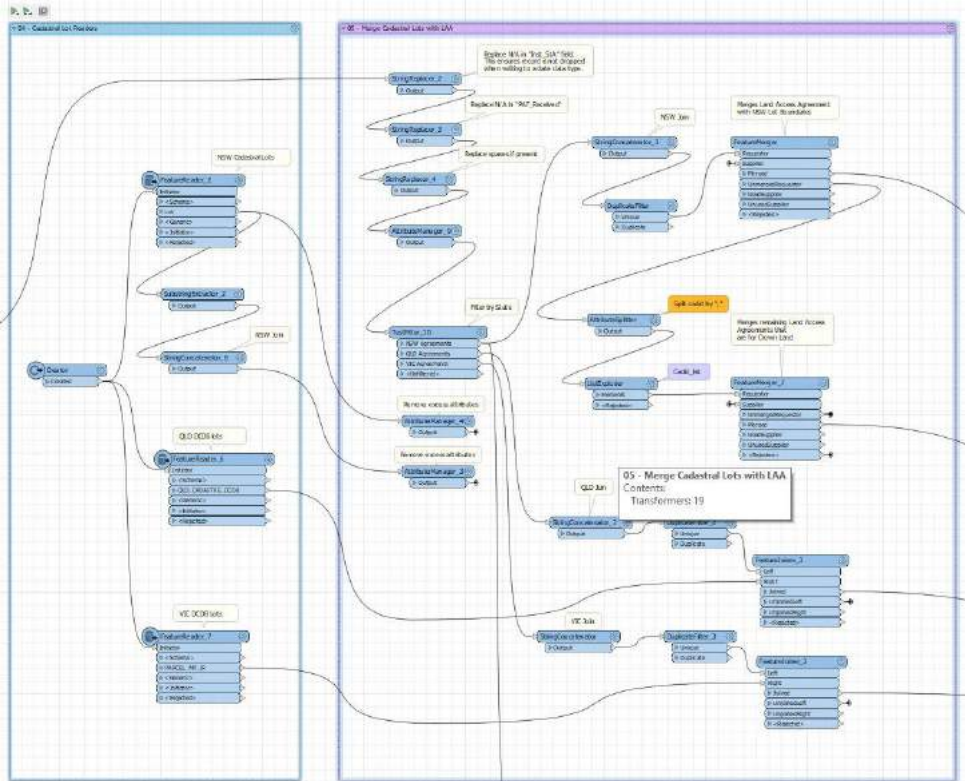


Property Identif	Plan Type	Plan Number	Lot Number
26548774	RP		456721
26548774	RP		456721
26548774	RP		456721
26548774	RP		245677
26548774	RP		456461
26548774	RP		456461
26548774	RP		456461
26548774	RP		456461
26548774	RP		456461
26548774	RP		456461
26548774	RP		456461
26548774	RP		456461
26548774	RP		456461
26548774	RP		456461
26548774	RP		456461
26548774	RP		456461
26548774	RP		456461
26548774	RP		546546
26548774	RP		546546



Splitting the records

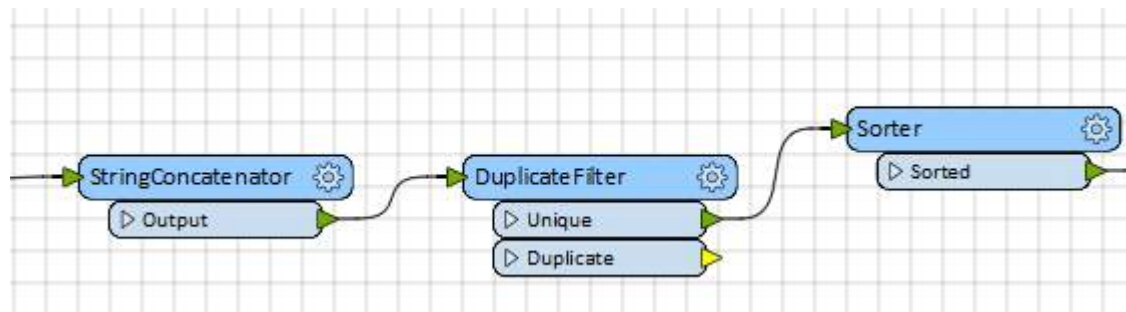




Merging with cadastre

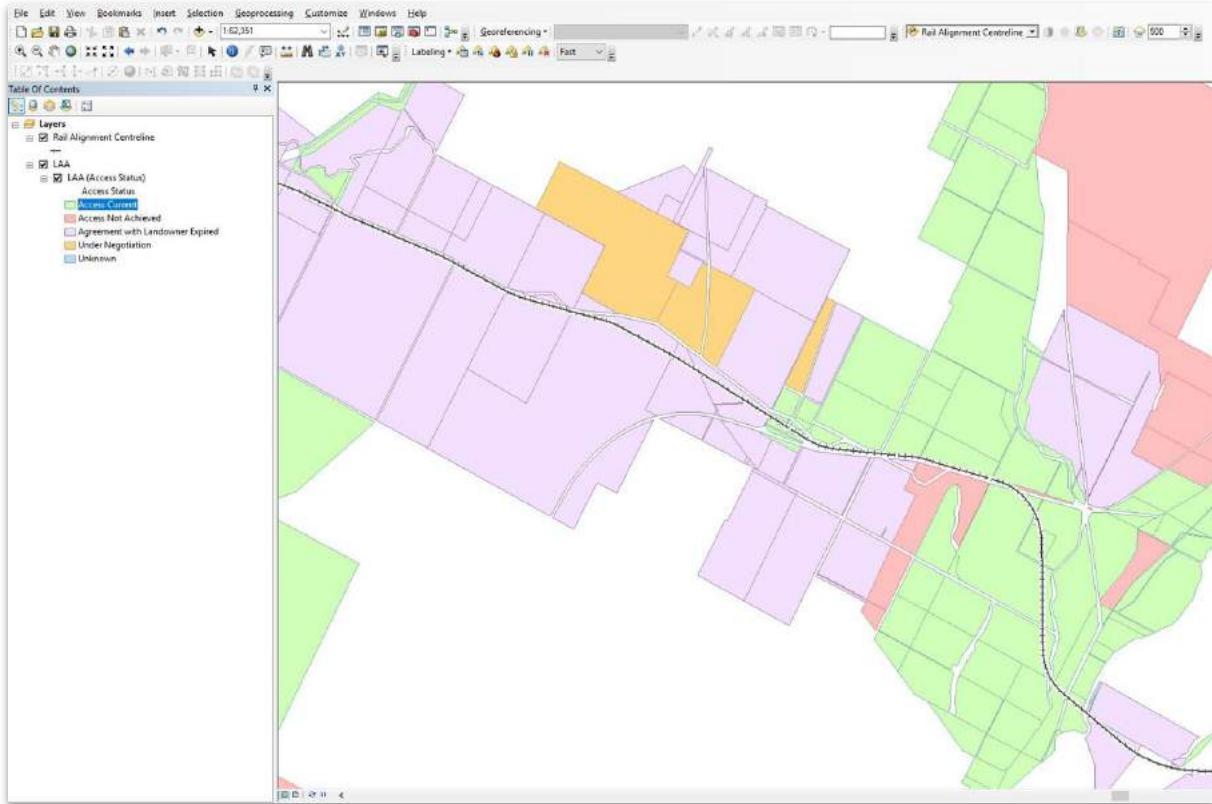


Merging with cadastre



State	Plan Type	Plan Number	Section Number	Lot Number	Unique Cadastral Identifier
QLD	RP	456721	n/a	2	2RP456721
NSW	RP	456721	1	2	RP\2\1\456721
VIC	RP	456721	n/a	2	2\RP456721

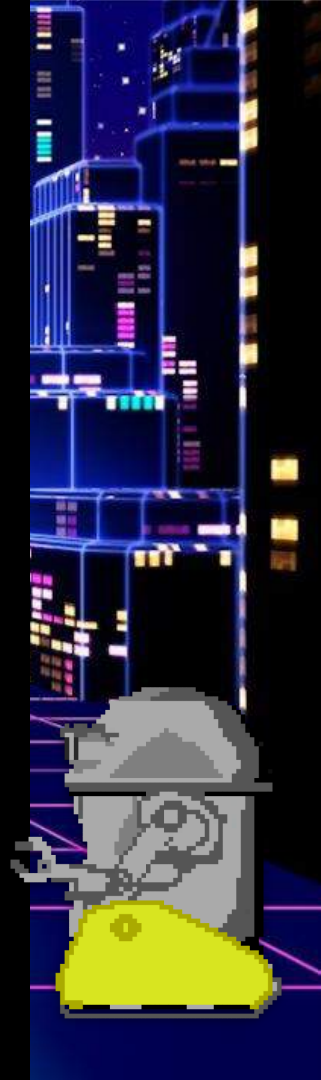




Output

Results

- Visualization of properties and related land access agreements
- Data currency is retained and integrity preserved
- Helps maintain good relationships with land-owners and ensure transparency, equity and facilitation



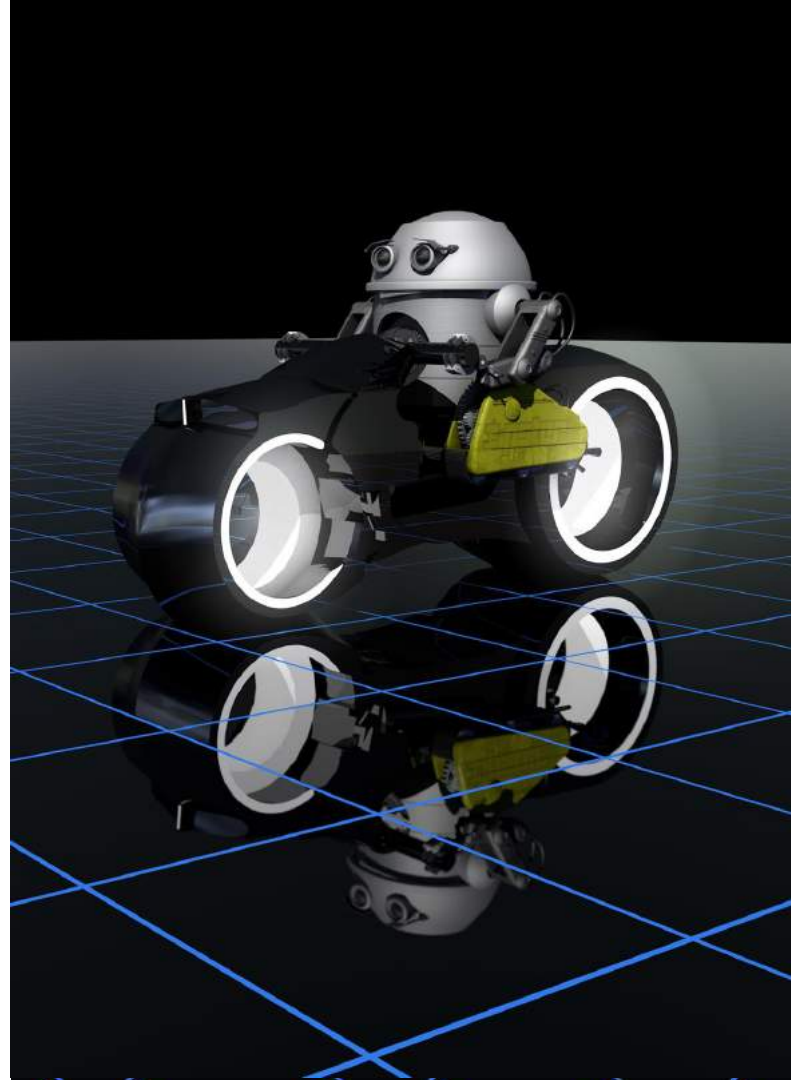


Benefits

- Minimal disruption to Property team's business processes
- Program-wide visibility
- Automated daily updates

Tip

- Take time to understand FME's unique capabilities, how they work, and how they contribute to the end result.





“FME produced a result where mainstream GIS software couldn’t without the use of scripting.”

- **Mike Gresham, ARTC**