

How GIS helped simplify a speed limit community discussion



Change

The way speed limits are set has changed...

Speed Management Plan instead of Bylaws

Joint Regional Transport Committee

Tasman District Council together with Nelson City Council

Consultation on a Draft Speed Management Plan ended in February
(over 2000 submissions!)

The Plan is aimed to come in 2024

Safe and Appropriate

Waka Kotahi / NZ Transport Authority (NZTA)



One Network Framework (ONF)

An evolution of the One Network Road Classification (ONRC)

Original request

Maps of selected Townships and Schools
to include in the Draft Speed Management Plan document



Urban Options

WE ARE PROPOSING FOUR OPTIONS FOR THE URBAN AREA: (km/h)

URBAN ROADS	OPTION A	OPTION B	OPTION C	OPTION D
Outside schools (within 100m of boundary)	30	30	30	30
School neighbourhoods	50	30	40	30
Selected town centres and tourist areas	50	30	40	30
Local urban streets	50	50	40	30
Urban connector streets with separated cycle facilities	50	50	50	50

Rural Options

WE ARE PROPOSING FOUR OPTIONS FOR THE RURAL AREA: (km/h)

The speeds in Option 4 reflect SAAS and International best practice.

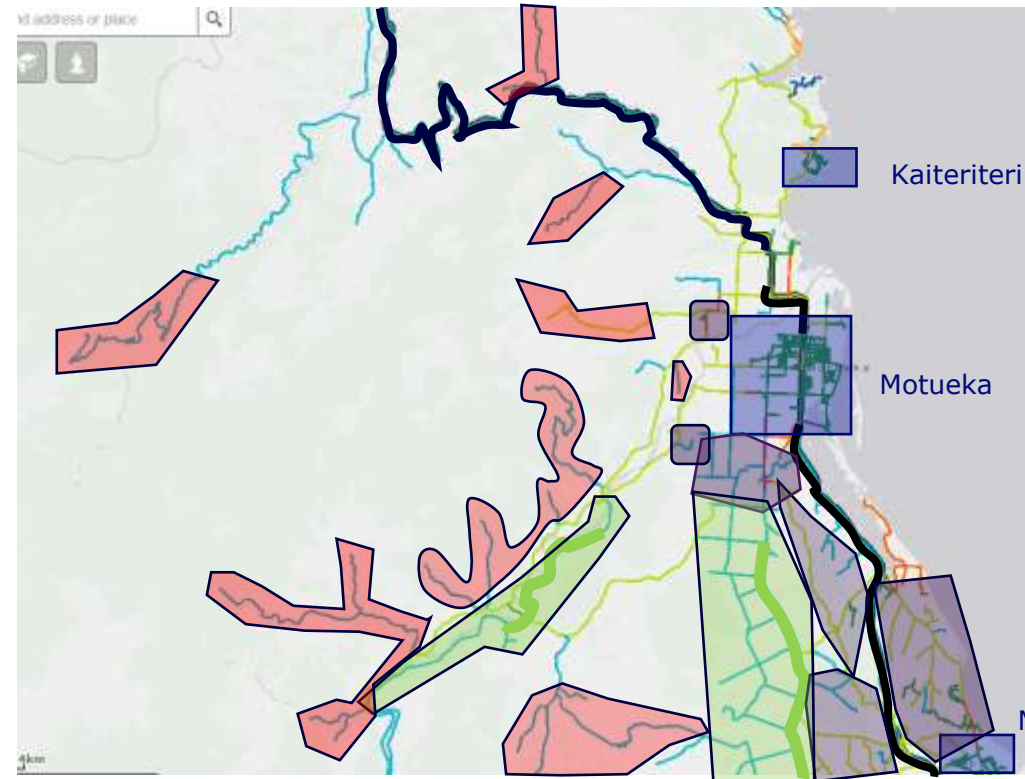
RURAL ROADS	OPTION 1	OPTION 2	OPTION 3	SAAS
				OPTION 4
Outside schools	30-60	30-60	30-60	30-60
Rural residential areas	100	50-60	50-60	50
Unsealed rural roads (winding or narrow)	100	60	80	60
Unsealed rural roads	100	100	80	60
High risk roads and adjacent roads	100	80	80	60-80
Sealed rural roads (winding or narrow)	100	100	80	60
All other sealed rural roads	100	100	80	80

Markups

Tasman Rural: Motueka Valley

EARLY MARKUP

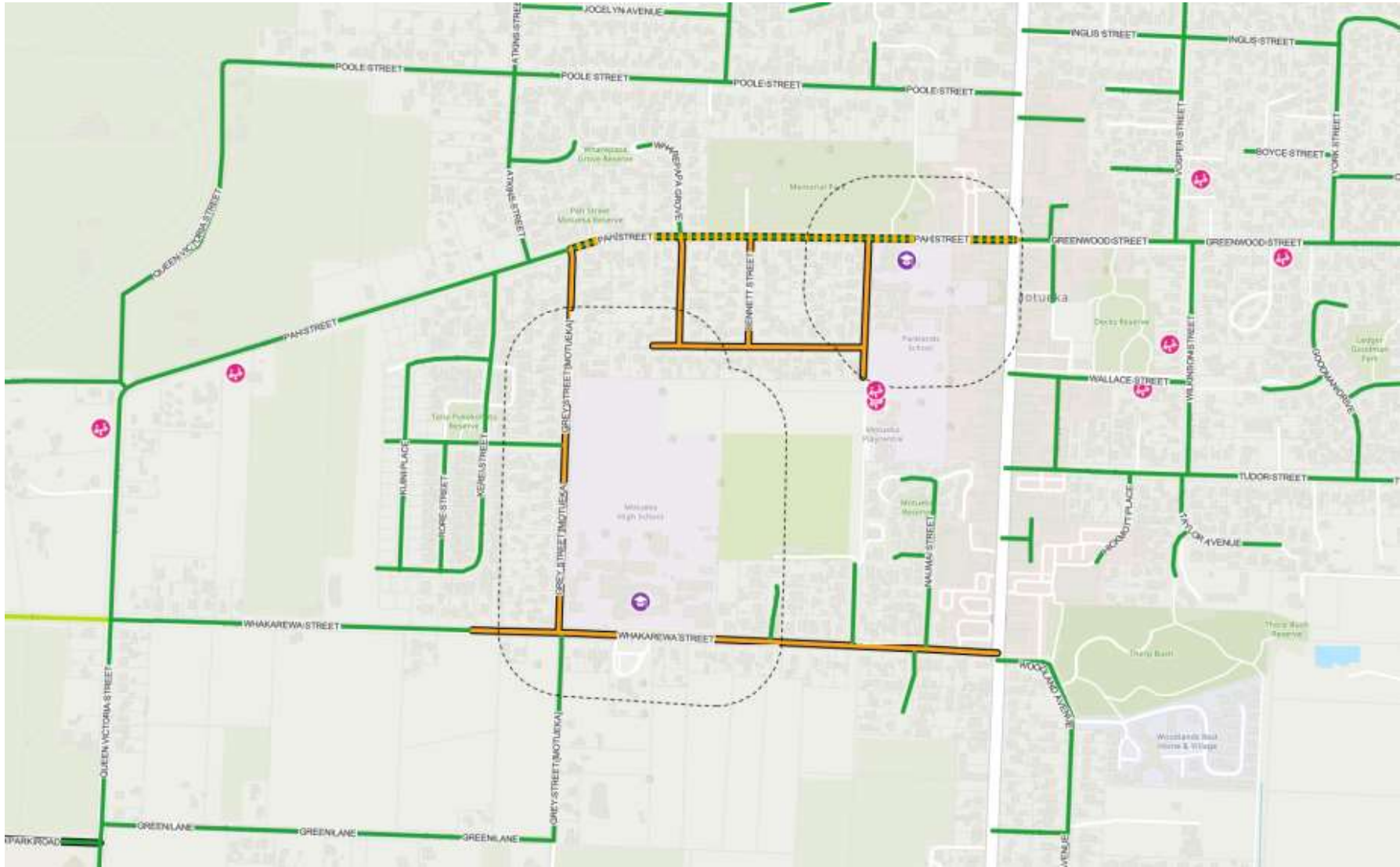
Option 2: High risk, winding unsealed and rural residential



Rural Roads –	2
Outside Schools	30-60
Rural Residential Areas	50-60
Winding and Narrow Unsealed Rural Roads	60
Unsealed Rural Roads	100
High Risk roads and adjacent areas	80
Winding and Narrow sealed Rural Roads	100
All other sealed Rural Roads	100

See school map

- Winding or narrow unsealed roads
- Rural residential areas
- Town Centres
- 80km/h Zone



BUILDING THE FOUNDATIONS

Targeted Maps



Markups



ArcGIS Pro

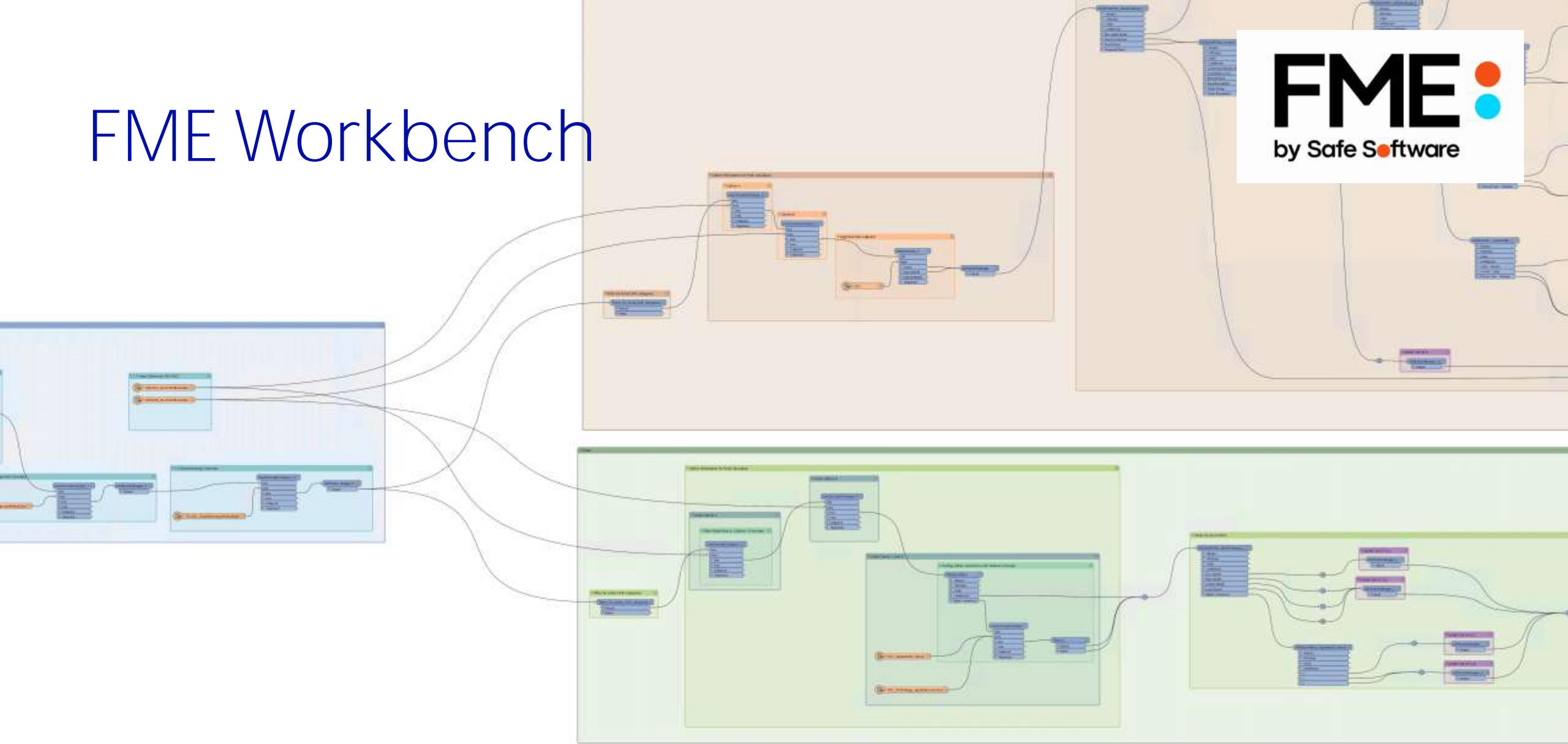


PNGs

Logical Model

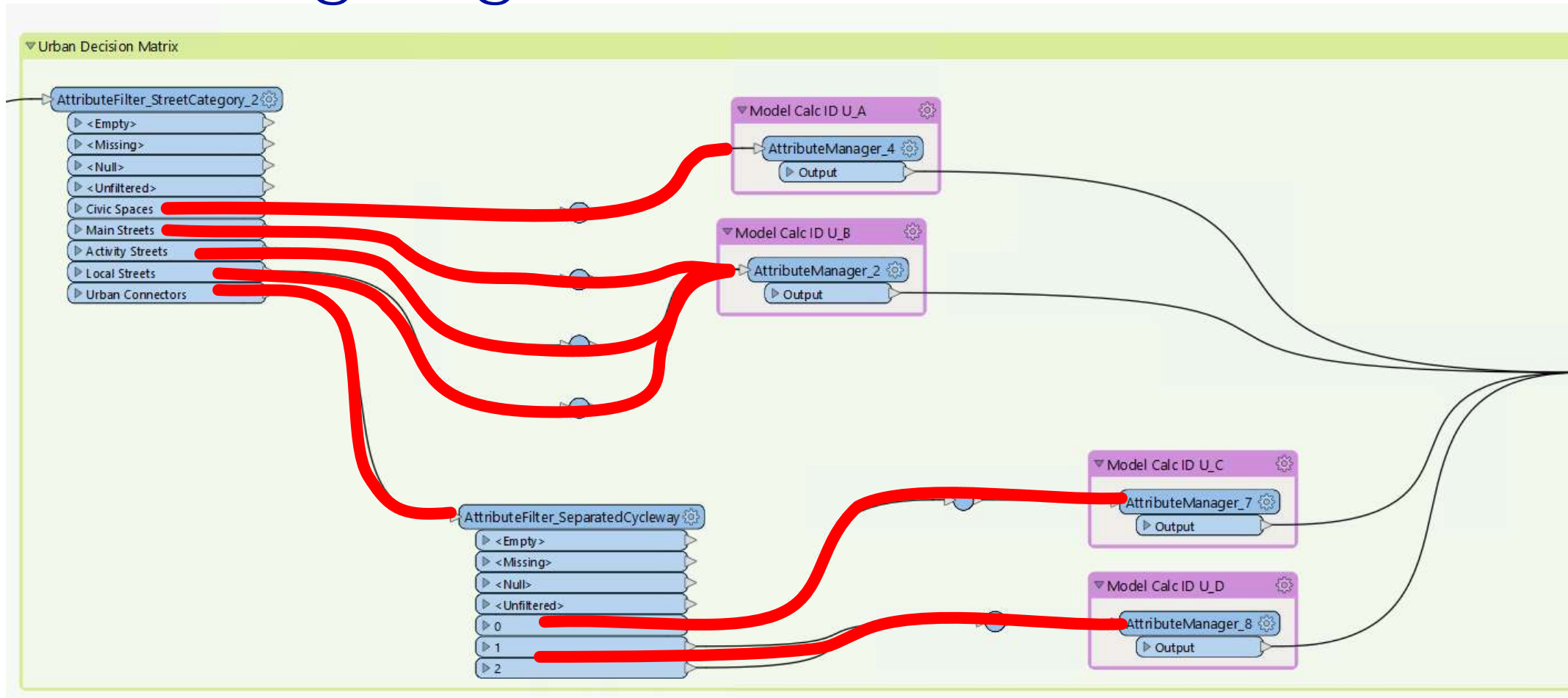


FME Workbench

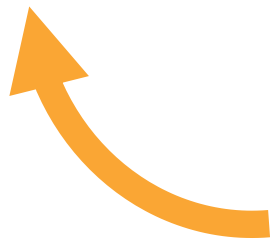
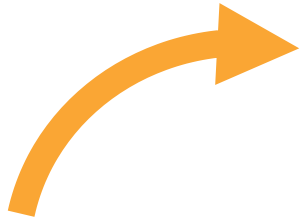




Visualising Logic



QA/QC



ArcGIS Online



USER EXPERIENCE



Map Viewer

PAH STREET

Zoom to

Recommended speed limit	Change from current speed limit	Reason
50	0	No change to existing speed limit

This option has a proposed Variable Speed Limit of 30 km/h

Urban Option B

Recommended speed limit	Change from current speed limit	Reason
30	-20	in a Town Centre

No Variable Speed Limit

Urban Option C

Recommended speed limit	Change from current speed limit	Reason
40	-10	in a Town Centre

This option has a proposed Variable Speed Limit of 30 km/h

Urban Option D

Recommended speed limit	Change from current speed limit	Reason
30	-20	in a Town Centre

No Variable Speed Limit

Give Feedback

Urban A - Variable Speed



Urban A - Proposed

- 100
- 80
- 70
- 60
- 50
- 40
- 30
- 20
- 10

Urban - Change pro



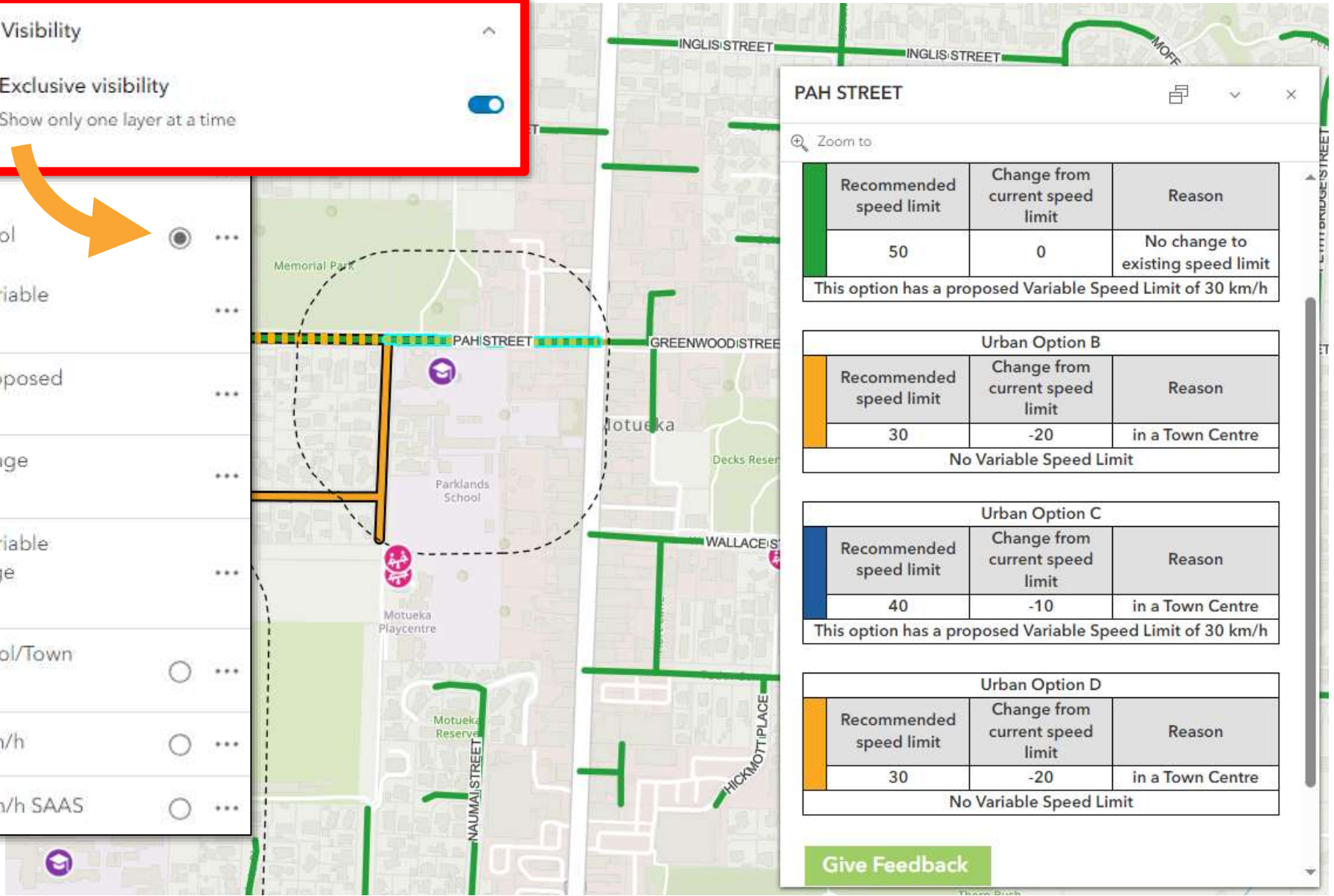
Visibility

Exclusive visibility

Show only one layer at a time



- URBAN (A - D)
- Urban A : School
- Urban A - Variable Speed
- Urban A - Proposed Speed Limit
- Urban - Change proposed
- Urban A - Variable Speed change proposed
- Urban B : School/Town Centre
- Urban C : 40km/h
- Urban D : 30km/h SAAS



PAH STREET

Zoom to

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This option has a proposed Variable Speed Limit of 30 km/h

Urban Option B

Recommended speed limit	Change from current speed limit	Reason
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No Variable Speed Limit

Urban Option C

Recommended speed limit	Change from current speed limit	Reason
40	-10	in a Town Centre

This option has a proposed Variable Speed Limit of 30 km/h

Urban Option D

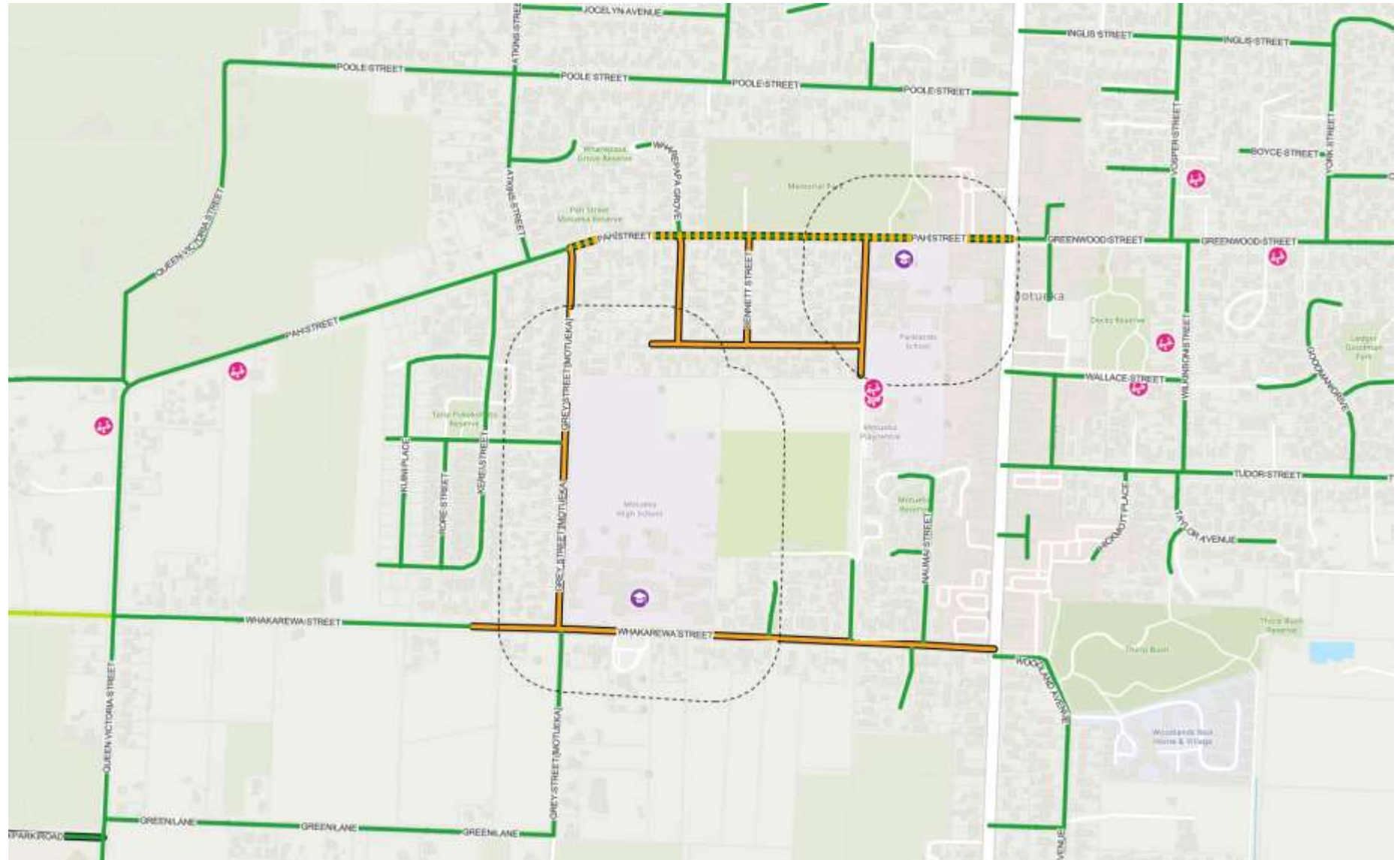
Recommended speed limit	Change from current speed limit	Reason
30	-20	in a Town Centre

No Variable Speed Limit

[Give Feedback](#)



Basic
Instant App



Products



Map Viewer



ArcGIS Pro



PNGs

MOTUEKA

Urban Option A: Do minimum



MOTUEKA

Urban Option B: 30km/h in school zone



MOTUEKA

Urban Option C: 40km/h on local urban streets

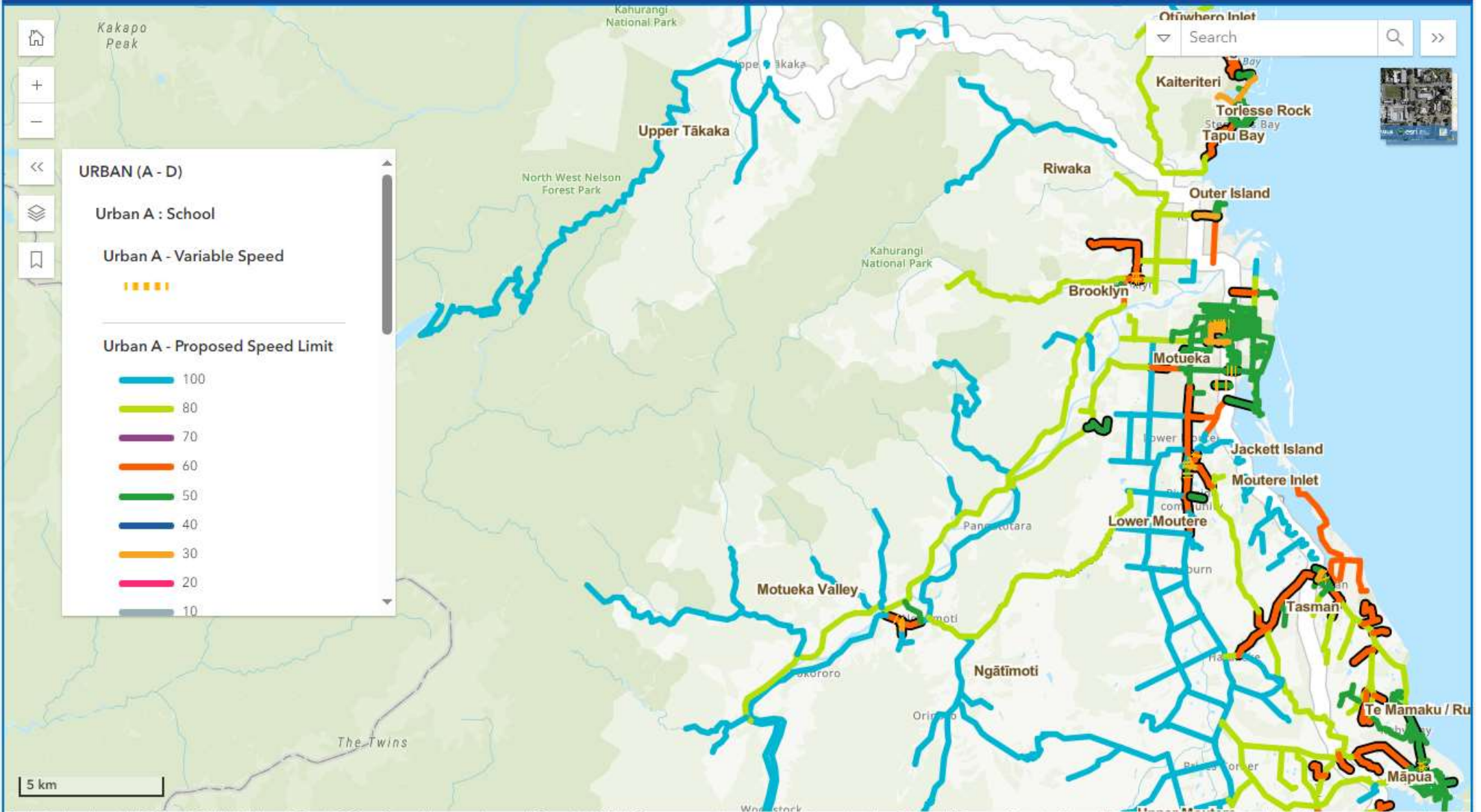


MOTUEKA

Urban Option D: 30km/h on local urban streets



PNGs



shape.tasman.govt.nz/speed-review

Jane Murray
Tasman District Council