Level of Service F: Is it as bad as it gets?

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Definitions of Level of Service F for Urban Streets

Typical free flow speed (km/hr)	Range of free flow speeds (km/hr)	Average speed for Level of Service F (km/hr)
80	90 to 70	< 26
65	70 to 55	< 21
55	55 to 50	< 17
45	50 to 40	< 14

Definitions of Level of Service F for Intersections

	Level of Service Criteria	Intersection Type	Level of Service F
	Delay per Vehicle	Signal Controlled intersections	> 80 seconds
		Roundabouts	> 80 seconds
		Stop and Give Way intersections	> 50 seconds
		All intersection types	> 70 seconds
flow	Degree of Saturation	All intersection types	> 1.00
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Issues (1)

- Level of service today?
- Level of service in 10 years time, without development?
- Level of service in 10 years time, with development?
- F, F and F

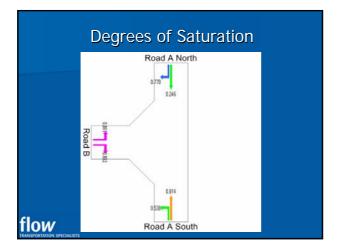
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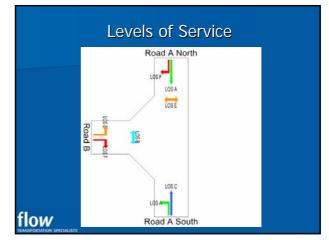
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Issues (2)

- Prioritising projects
- Timing of infrastructure
- The impression given to lay people
 "F is as bad as it gets"

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Interim Conclusion

 Current level of service definitions are inadequate

Level of Service Targets in Canterbury

Road Type	Peak Times	Other Times
Strategic urban road network outside and including the Christchurch ring road	D	С
Remaining classified road network (except as stated below)	С	В
Christchurch CBD (inside the four avenues)	Though not desirable, LoS F is accepted	E
Remainder of the Christchurch classified road network		D

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Level of service targets

Targets need to consider

- · Level of service expectations for that area
- Can strategic network fulfil intended role
- Are priority users still achieving satisfactory level of service

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Development Impacts

- Adverse development impact (in terms of level of service) **may** be acceptable:
- If development is consistent with approved growth strategy
- If development is well sited for non car modes
- If resolving traffic effects has adverse consequences (eg urban design)
- If development is consistent with aim to reduce demand for travel

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Conclusions

- Current definitions of level of service F are too narrowly defined
- New category (F+) could be considered. Delays of > 3 minutes
 Degree of saturation of >110%
- Will this imply greater acceptability of level of service F?
- Level of service targets? Local conditions may be too specific

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