





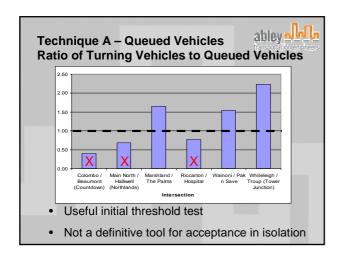
Comparison to Priority Controls abley del

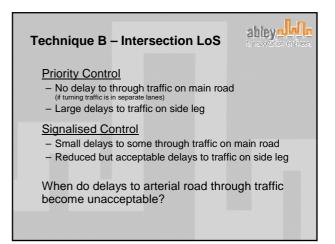
- · Assessed each study site as priority control
- Critical movement as priority is "right turn out"
- Reassigned demand in excess of capacity
- Only 2 of 6 intersections generate less average delay as signals

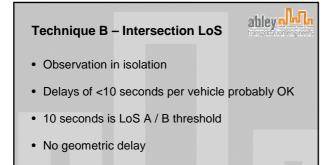
Technique A – Queued Vehicles

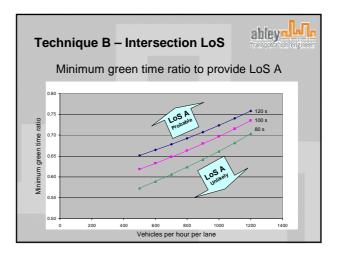


- Roads at the top of the hierarchy have a greater mobility function ... therefore ...
- # of queued vehicles < number of turning vehicles
- Determine from site observations (existing sites) or SIDRA Intersection model (proposed sites)





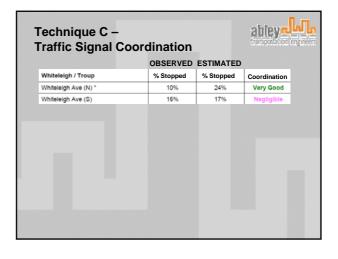




Technique C – Traffic Signal Coordination



- Coordination from upstream traffic signals
 - Improve progression
 - Minimise proportion of queued vehicles
 - Maximise capacity of a corridor
- When does coordination work best?
 - Intersections have the same cycle time
 - Little separation between intersections
 - Low number of turning vehicles from adjacent legs of upstream intersection
 - Few access points between intersections





Technique D – Corridor LoS

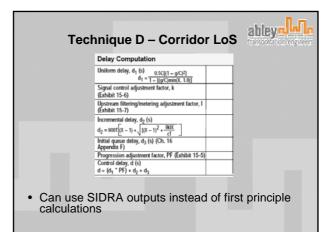
abley -

- What about cumulative effects over a corridor?
- When is it one signalised intersection too many?
- Highway Capacity Manual LoS Methodology for Urban Corridors

Technique D – Corridor LoS



- LoS based on speed relative to free-flow speed.
- Speed is influenced by:
 - Frequency of signalised intersections
 - Intersection control delay
 - Signal timing
 - Progression or Coordination
 - Traffic volumes
- Methodology enables segment speeds to be calculated



Discussion



- Best sites are taken
- Access Management needs Assessment Techniques
- Assessment Techniques enable effects of high traffic generating land uses accessing arterial roads to be identified and evaluated
- Preserve the road hierarchy

