

Detection – above ground

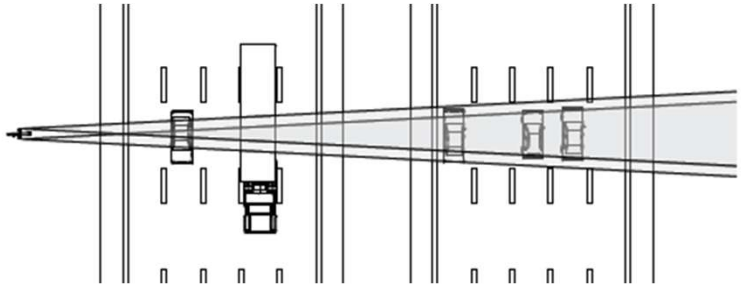
Wavetronix Radar, Seyond Lidar

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SNUG – Sept 2026

Wavetronix RADAR

- **Wavetronix:**
  - American company that make traffic detectors.
  - We successfully trialed their mid-block radar.
  - Their limit line radar is a 16-beam presence detector.
  - The auto calibration places lanes/limit lines etc.
- **HCC trial at 3 intersections:**
  - Urban cross road with constraints (very congested, lots of poles and objects).
  - High speed arterial road (suboptimal mount location).
  - Underground car park exit to signals (very suboptimal, radar has failed here in the past).





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Wavetronix RADAR results

- **Midblock:**
  - Extremely successful. This is now our standard for speed and volume. It's perpendicular too.
- **Intersection:**
  - Generally the radar performed very well out of the box. Close match to inductance loops.
  - Some differences in KP/VO/VK but DS was always very close.
  - Auto config made it easy in most cases but one site needed extra calibration.
  - Overall it seems a decent option where an alternative to induction loops is required.



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Seyond LiDAR

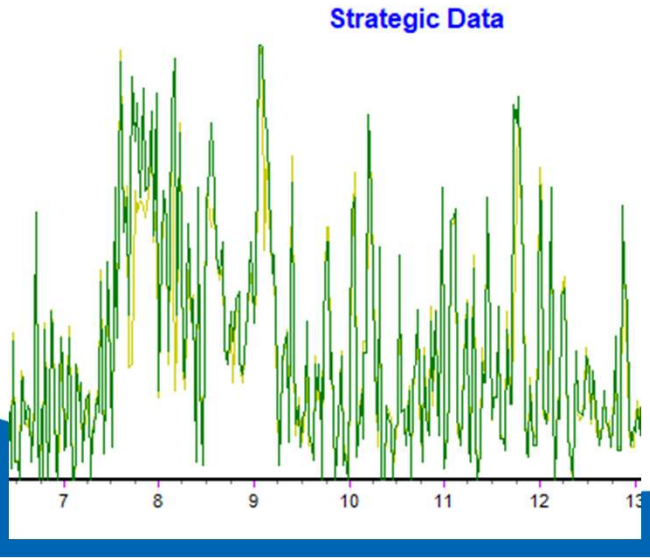
- **Double-intersection:**
  - Two busy intersections 80m apart, with a railway in between
  - Four LiDAR units, linked by radio
  - Operating fully on LiDAR (since last week)
  - Some inductance loops are still creating SA data to compare against
  - Opportunity for value-add, including:
    - On-crossing pedestrian/cycle detection for dynamic clearance
    - Railway queue active warning sign
    - Turning movement counts, pedestrian and cycle counts, etc



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Seyond LiDAR results

- **SCATS comparison with loops:**
  - Generally the LiDAR data is looking good, typically within 5% of SCATS comparing max flow / occupancy etc
  - Degree of Saturation very similar
  - TBC on-crossing detection etc



Video Moved, to play find YouTube link below on SNUG website and play from there.

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Thank you

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