

## Value for Money Initiative: Wireless “pucks” in lieu of Inductance loops.

### Opportunity

The Causeway Alliance has recognized an opportunity to minimise costs associated with vehicle counting inductance loops. These costs arise due to either: the loops being damaged by construction works; or by having to relocate loops due to the large number of temporary traffic switches.

### Solution

Causeway Alliance, in collaboration with NZTA (ATOC), have undertaken a trial of comparing wireless road sensors “pucks” versus the existing inductance loops. This was to determine levels of vehicle counting accuracy between the two systems.

The data from the trial has been analysed and approval given to Causeway Alliance to utilise the “pucks” as an interim mechanism for counting vehicles in lieu of inductance loops.

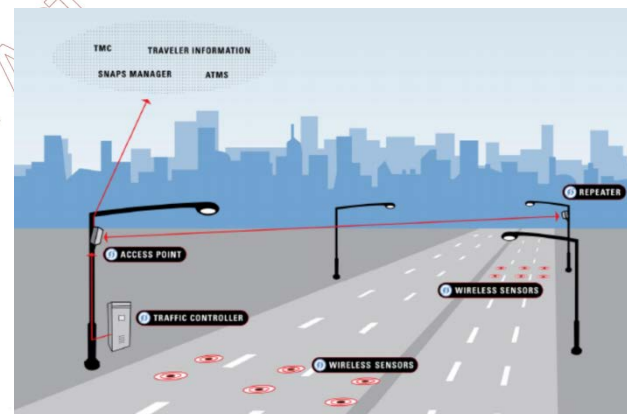
The “pucks” afford much easier installation (time, effort) and also are re-usable. When a lane needs to be moved the “already installed “puck” is accessed via a semi-static and simply removed from old lane and re-cored into the new lane .

### Estimated Costs & Benefits

Approximate saving of \$150,000 from having to repair damaged inductance loops from construction activities; and/or relocate loops the numerous times associated with temporary traffic switches over the lifetime of the project. Also potentially if loops are approved for long term utilisation i.e. permanently, then current budgeted costs for loops hardware and installation is likely to reduce.

### Contributors

The Causeway Alliance and NZTA(ATOC)



Highways Strategic Priority	Impacts
Safe Journeys	No
Efficient & Reliable Journeys	Yes
Social & Environmental Responsibility	No
People & Processes	Yes
Efficient Delivery of Works	Yes