



SamTrans Traffic Signal Priority Project



C/CAG TAC Meeting
November 21, 2019

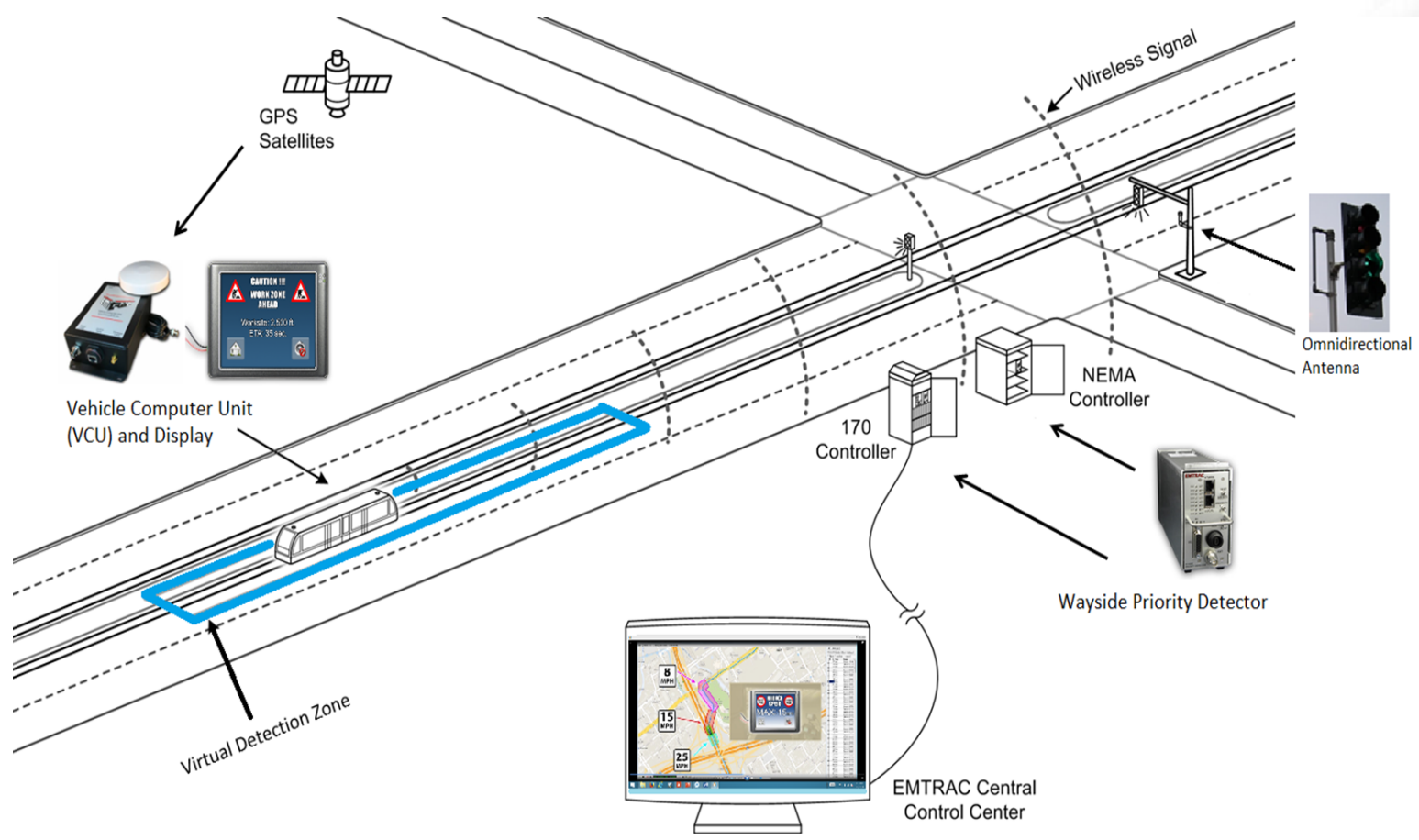
Implement Traffic Signal Priority (TSP) for SamTrans buses along El Camino Real in San Mateo County

- 26 miles corridor between Daly City and Menlo Park
- 161 SamTrans buses will be equipped
- 125 Intersections will be equipped



1. GPS based vehicle location
2. Bus issues a Priority Request
3. Traffic Signal Controller grants or denies request
 - a) lower priority than Emergency Vehicle Preemption
 - b) does not cancel a pedestrian cycle
 - c) extends the green interval
 - d) shorten the red cycle for early green

Concept of Operations



Project Benefits



1. Reduce delays at intersections
2. Better on-time performance
3. Increase ridership



1. Executed a contract with ACT Traffic Solutions on May 1, 2019.
 - ACT will implement the EMTRAC system on the buses and intersections.
2. Performed 5 pilot installations on 5 different bus models in October 2019.
3. Begin pilot installations in the City of San Mateo on the first week of December 2019.
 - Hillsdale Blvd
 - 27th Ave
 - 37th Ave
 - 41st Ave
 - 42nd Ave



Bus Equipment Installation



Bus Equipment Installation

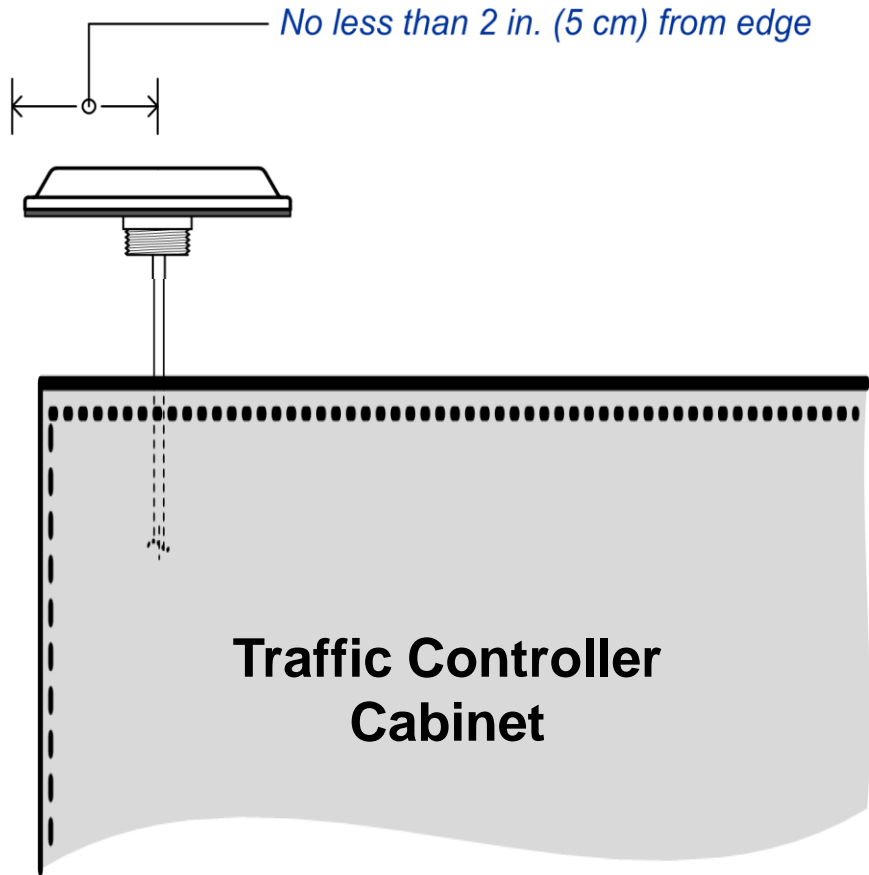




EMTRAC Priority Detector



Intersection Equipment Installation



1. Begin Installation – 2019 Q4

- First installations in the city of San Mateo
- City by city installation and testing, north to south
 - a) Daly City
 - b) Colma
 - c) South San Francisco
 - d) San Bruno
 - e) Millbrae
 - f) Burlingame
 - g) Belmont
 - h) San Carlos
 - i) Redwood City
 - j) Atherton
 - k) Menlo Park





2. Complete Installation – 2020 Q4
3. Final Acceptance – 2021 Q3



Questions?

