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
Project Status

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
Intersection Equipment Installation

EMTRAC Priority Detector
Intersection Equipment Installation

Traffic Controller Cabinet

No less than 2 in. (5 cm) from edge
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?