The project team used a software program called **VISSIM** to simulate how SR 1 would operate for vehicles in 2050 without any project improvements and with each of the alternatives currently being considered.

*Each video simulates traffic flows the middle of the day on a typical weekend in 2050, which is considered to be the worst time for traffic.*

By 2050, the intersection of SR 1 and Cypress Avenue is projected to have an overall delay, meaning the total delay experienced by drivers at all 4 intersection approaches, of over 27 minutes. This delay would be reduced by 90 percent with Alternative 1 and 99 percent with Alternative 2. Each alternative would increase the time it takes to drive on SR 1 through Moss Beach by 30 seconds to 1 minute. Delay reductions would vary by intersection.

Both roundabouts and traffic signals would slow down vehicles on SR 1 and provide for more gaps in traffic. This would allow for pedestrians and bicyclists to safely cross SR 1. It would also allow cars on streets that intersect SR 1 to cross over or merge onto SR 1 more safely and with fewer crashes.

The simulations are not meant to accurately represent all future conditions. They were created to demonstrate how traffic signals and/or roundabouts could work and how travel patterns may change on SR 1. Additional traffic analysis will be completed during the next phase of project development.

**Video 1** shows two simulations side by side.
*Left* The simulation on the left depicts the 2050 traffic flows without any project improvements.
*Right* The simulation on the right shows the exact same location and time of day, but with the intersection improvements included in Alternative 1 (combination roundabouts and traffic signal).

**Video 2** shows two simulations side by side.
*Left* The simulation on the left also depicts the 2050 traffic flows without any project improvements.
*Right* The simulation on the right shows the exact same location and time of day, but with the intersection improvements included in Alternative 2 (traffic signals only).

**Video 3** shows two simulations side by side.
*Left* The simulation on the left depicts the 2050 traffic flows with the intersection improvements included in Alternative 1 (combination roundabouts and traffic signal).
*Right* The simulation on the right shows the exact same location and time of day, but with the intersection improvements included in Alternative 2 (traffic signals only).

**Video 4** shows the area between Cypress Avenue and California Ave on SR 1 with the improvements included in Alternative 1, to demonstrate how roundabouts might work in this area.