

Smart Snelling Avenue

Background

The Smart Snelling Project is a public-private partnership proposed under MnDOT’s *CAV Challenge* innovation process. This pilot will deploy connected vehicle technology along Snelling Avenue and County Road B2 in Ramsey County, Minnesota.

The project installs new technology and pilots a free downloadable app, called “TravelSafely”. Through cellular connectivity, the project will test out applications including:

- Signal phasing and timing – This allows travelers to know when the lights will change to promote safer driving and fuel efficiency.
- Red-light running – The app could potentially warn drivers if a vehicle ran a red light, helping to avoid collisions.
- Pedestrian and cyclist detection - the TravelSafely app could alert drivers of nearby pedestrians and cyclists to avoid crashes, and could help alert roadway users of nearby vehicles.

The primary focus of this project is to test the effectiveness of connected vehicle technologies and to understand how smartphone applications – which are being piloted across the country – are a safe way to advance transportation safety and efficiency.

Nine traffic signals on Snelling Avenue spanning between County Road E on the north and Larpenteur Avenue on the south and seven traffic signals on County Road B2 – between Hamline Avenue to the east and Fairview Avenue to the west will be outfitted with this connected vehicle technology.



TravelSafely App

In Compliance with the Mn Hands-Free Law, the TravelSafely app allows motorists, cyclists and pedestrians, transportation agencies and others to receive real-time connected vehicle data through visual and audible notifications. The project is evaluating the potential safety benefits of sharing travel data between multi-modal transportation users.

Motorists who download TravelSafely™ will be:

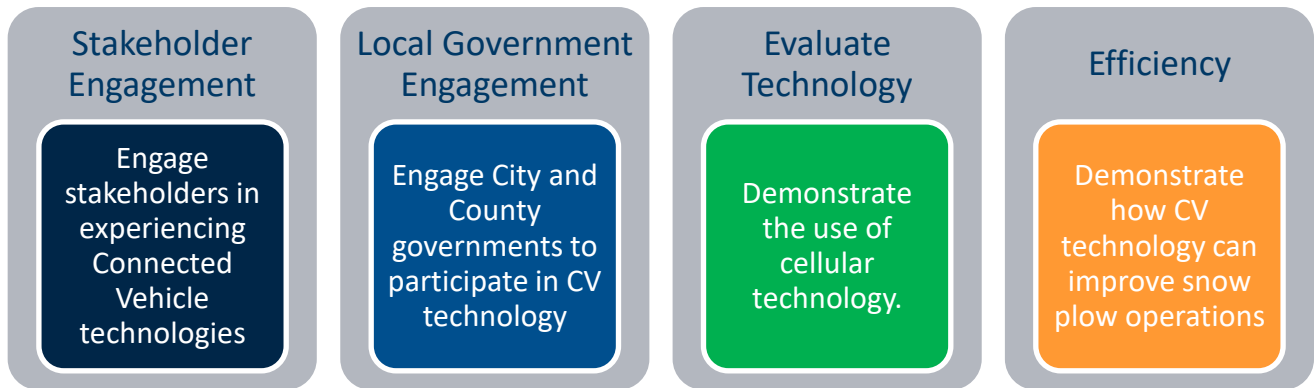
- Notified when a traffic signal is going to turn green,
- Alerted if they are on the verge of running a red light
- Made aware of nearby bicyclists and/or pedestrians who are also using the TravelSafely app
- Made aware of pedestrians and bicyclists who have activated the push button to cross the intersection.



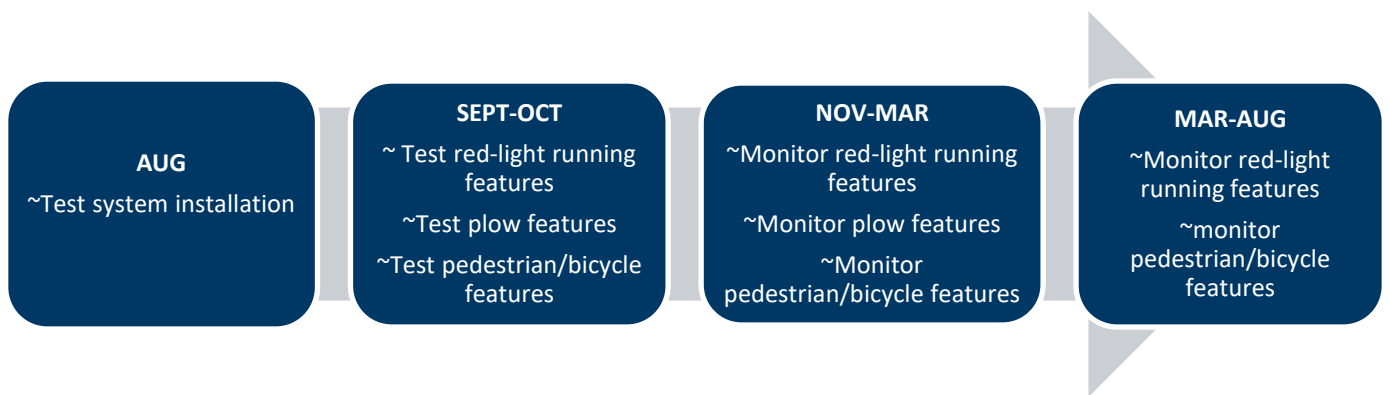
Bicyclists and pedestrians who download the app will be alerted of approaching vehicles with drivers who have also downloaded the app.

MnDOT and Ramsey County snow-plows could “call ahead” to a traffic signal to request the light turn green during plowing activities if intersections are clear. This improves snow removal efficiency and motorists travel times and saves gas.

Project Goals



Project Milestones



Project Partners

This project was proposed under the Minnesota CAV Challenge by Traffic Control Corporation, in partnership with Ideate Consulting PLLC, AI applied information, and Ramsey County.

