

# How will technology shape the future transportation network?



By 2040, nearly all vehicles will be able to “talk” to traffic signals and other cars on the road.



By 2040, it will be common to see self-driving vehicles on the road.



Mobile technology makes information easily accessible for travelers, and travelers can contribute to real-time information.



Systems are being developed that can “predict” what traffic conditions will be so travelers can better plan their trips.

## looking ahead...

Using technology to actively manage freeway, street and transit networks can:

- Improve freeway capacity by up to 23%.
- Reduce primary crashes by 30%.
- Reduce secondary crashes by 40-50%.
- Reduce delay on arterials by 10-30%.
- Improve transit on-time performance.

### POTENTIAL FUTURE SYSTEMS



Temporary shoulder use and variable speeds.



Next generation in-vehicle and mobile technologies.



Integrated and seamless transit and traffic management.

### Did You Know?

Over the last 10 years, enormous innovations in transportation technology and advanced traffic management techniques have occurred. Numerous cities and regions around the world have adopted these strategies as a means of enhancing the capacity and efficiency of the existing transportation system without adding new expensive infrastructure. Depending on the strategies and technology used, it has been estimated that the capacity of an existing roadway can improve by **5%** to **25%**. This means that on an existing four-lane freeway, these strategies can have the same effect as adding a new lane.