

# The Next Mobility Revolution Starts Today with Ingenious Technologies that Connect Us All

## Trend



## Transportation challenges across the United States

### Bumper - to - Bumper

On average, we spend

**OVER 40 HOURS**

stuck in traffic each year

The annual financial cost of congestion is

**\$120 billion**

Road Congestion costs increase

**\$160 billion**

**1.5x**



Road traffic slows

2030 car density will increase...



Fuel wasted

**3.1 billion gallons**

Wasted time in finding parking

**30%** of the cars in congested downtown traffic are looking for parking



Increasingly complex traffic situations at urban intersections require more intelligent solutions. Luckily, real-time data can translate into better information to manage safety and efficiency at these intersections.

Tampa, FL is at the forefront of implementing innovative vehicle-to-infrastructure technology. How Siemens helps Tampa keep moving, improving safety and reducing greenhouse gas emissions.

①

### Morning Peak Hour Queues

- Reduce congestion/queuing on Reversible Express Lane curve exit
- Improve traffic movement

②

### Wrong Way Entry

- Warn wrong way driver
- Communicate wrong way driver to law enforcement

③

### Pedestrian Safety

- Intelligent traffic signal system that improves crossing safety for impaired pedestrians
- Crash avoidance driver warning of pedestrians and cyclists ahead

④

### Bus Rapid Transit Signal Priority Optimization

- Improve bus schedule performance

⑤

### TECO Line Street Car Conflicts

- Reduce trolley/vehicle collisions

⑥

### Enhanced Signal Coordination and Traffic Progression

- Improve drivers (commuters) travel times
- Improve pedestrian safety



## How is Siemens doing all this?

By implementing 40 roadside units to communicate infrastructure messages to the vehicles and 1500 on-board units to give position, direction and communicate back to the infrastructure.