

# Regional Connected Vehicle Program Update (CV1K)



Source: USDOT

**December 11, 2020**  
**TCC**

# Concept

- Implement connected vehicle technologies operating in the 5.9 GHz safety spectrum at traffic signal intersections
  - DSRC (Dedicated Short Range Communications)
  - C-V2X (Cellular Vehicle-to-Everything)
- Pursue applications that improve safety and mobility, such as emergency vehicle preemption and transit signal priority
- Multi-year regional implementation, with initial phase beginning in FY 2020



# Advances in Technology - Including 5G Networks - and Upcoming Vehicle Manufacturer Decisions Provide Opportunities to Improve Travel and Safety

## OUR CONNECTIVITY COMMITMENT

**FierceWireless**  
Ford overhauls mobility business, promises 90% connectivity globally by 2020

by Mike Dano | Jan 26, 2018 11:48am



Importantly, in its wireless efforts, Ford reiterated that it "will deliver on the company's commitment of 100 percent connectivity of new vehicles in the United States by 2019 and push toward its goal of 90 percent connectivity globally by 2020."



Photographer: Jeff Kowalsky/Bloomberg

Hyperdrive

## Ford Breaks With GM, Toyota on Future of Talking-Car Technology

By Keith Naughton

January 7, 2019, 8:00 AM EST

- ▶ Automaker will outfit all U.S. models with C-V2X from 2022
- ▶ Could improve safety, ease gridlock, enable drive-thru autopay

# Emergency Vehicle Preemption



Gives signal preemption to emergency vehicles, allowing vehicles to respond more quickly and safely.

Equipping emergency responder vehicles and signals in the Atlanta region with the necessary radios and sensors will provide the capacity to save lives.

Source: <https://www.its.dot.gov/infographs/index.htm> (edited)

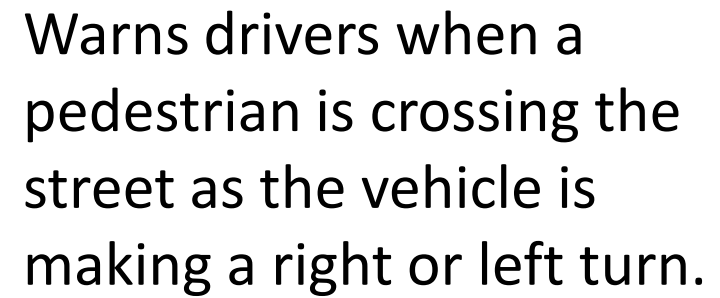
# Transit Signal Priority



Gives signal priority to transit vehicles approaching a signalized intersection, taking into consideration the vehicle's location and schedule.

Due to congestion, many transit routes in the Atlanta region struggle to maintain on-time performance.

Equipping transit vehicles and signals with the necessary radios and sensors will provide the capacity to improve on-time performance, with the goal to increase transit use and improve regional air quality.



Source: <https://www.its.dot.gov/infographs/index.htm> (edited)

# Get Involved

- Any interested jurisdiction can participate
- 1,000 intersection goal
- TSMO Subcommittee
  - track and monitor local and regional impact of the deployment
  - provide guidance on future funding and desired outcomes of the technology

