

SAE Monthly Meeting

Austin TX

April 15, 2021

Siemens Mobility USA



Siemens ITS Austin TX



01
Sacramento, CA

03
Marion, KY

Siemens ITS Product Offerings

RSU: All Vehicle Wireless

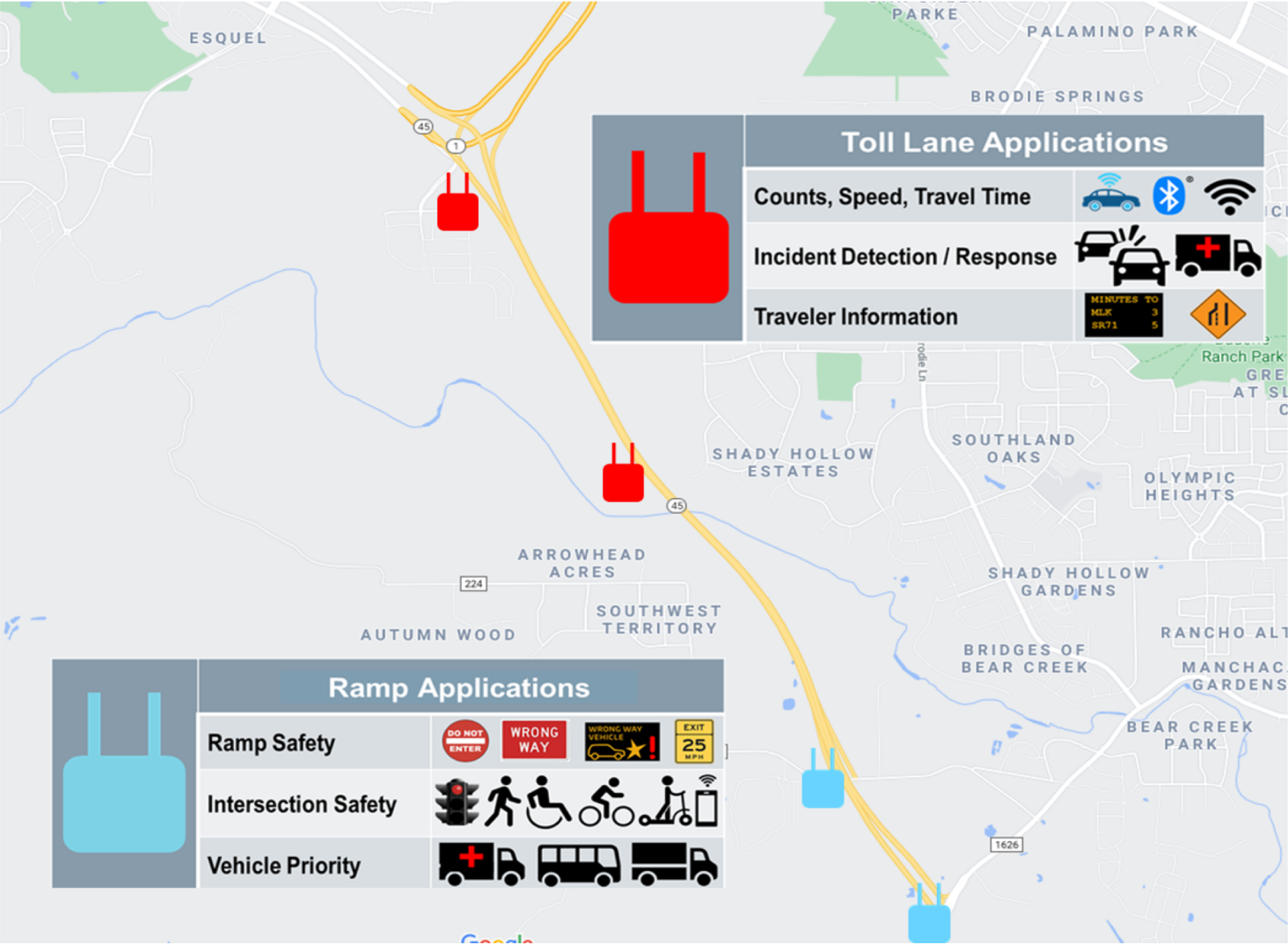
- 802.11P 5.9 GHz DSRC
- 3GPP 5.9 GHz C-V2X
- Wi-Fi Hot Spot
- Bluetooth
- 4G LTE → 5G
- Power over Ethernet
- GPS receiver



SIEMENS
Ingenuity for life



Safety Applications and Agency Data



Vision: eMobility Receives Digital View of What the Driver Sees

The screenshot displays the 'Connected Vehicles' software interface. At the top, there is a search bar with the placeholder text 'Address, City, State' and a magnifying glass icon. To the right of the search bar are four dropdown menus labeled 'File', 'Tools', 'Show', and 'Help'. Below the search bar, the map area shows an aerial view of a road intersection. Overlaid on the map are orange lines representing lane boundaries, green arrows indicating travel direction, and several red rectangular boxes highlighting specific areas of interest. A blue location pin is also visible on the map. In the bottom left corner, a white box titled 'SAE J2735 Standard Messages' contains a list of message types and their data fields. At the bottom of the interface, there is a toolbar with various icons for navigation and editing, including a question mark, a list icon, an 'Approach' button, a pencil icon, a selection tool icon, a 'Lanes' button, a double-headed arrow icon, a 'Measure' button, a 'Delete' button, and zoom in/out buttons.

Connected Vehicles Address, City, State

File Tools Show Help

CHILD MAP
Tile Age: Feb/2020 - Apr/2020
Zoom Level: 19

SAE J2735 Standard Messages

- MAP: Lane location, width, geometry, travel direction, signal to lane
- SPaT: Signal Colors, countdown until signal change
- TIM: Sign location, graphics and alphanumeric lettering
- PSM: Pedestrian and cyclist locations
- BSM: Vehicle location, elevation, speed and heading

? Approach Lanes Measure Delete - +

Key Projects: USDOT Connected Vehicle Pilot Projects

Suburban, Tampa FL:

- 47 RSUs
- 1,000 private vehicles
 - Aftermarket OBUs
 - New OEM vehicles
- Crash avoidance, vehicle & ped

Urban, New York City:

- 400 RSUs
- City and commercial vehicles
- Speed, red light, over height

Rural, Wyoming:

- 75 RSUs on I-80
- 200 heavy freight trucks, plows
- Weather info, truck incidences



American Center for Mobility: OEM Technical Center Partnerships



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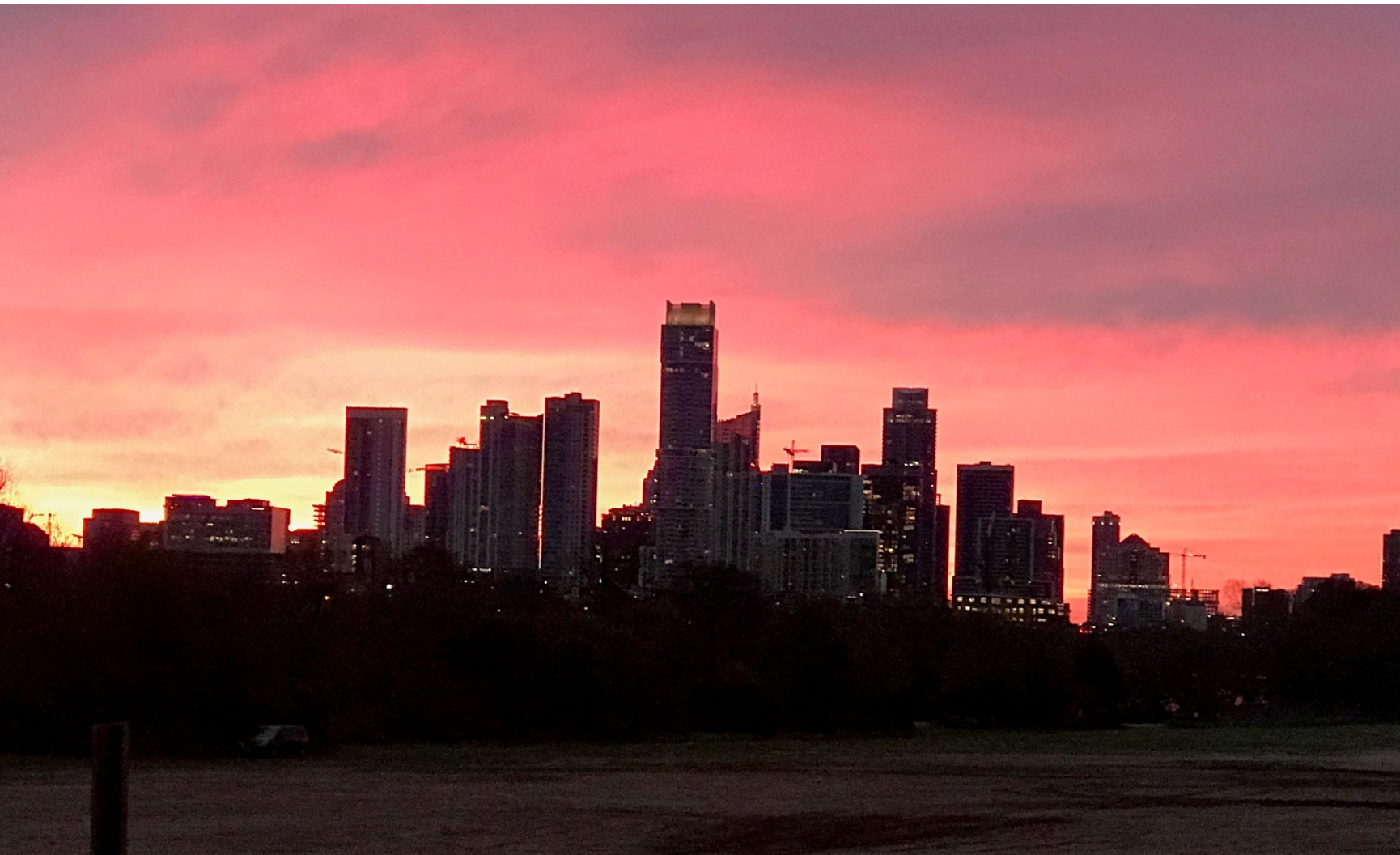
American Center
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