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SAE Monthly Meeting

Austin TX

April 15, 2021

Siemens Mobility USA

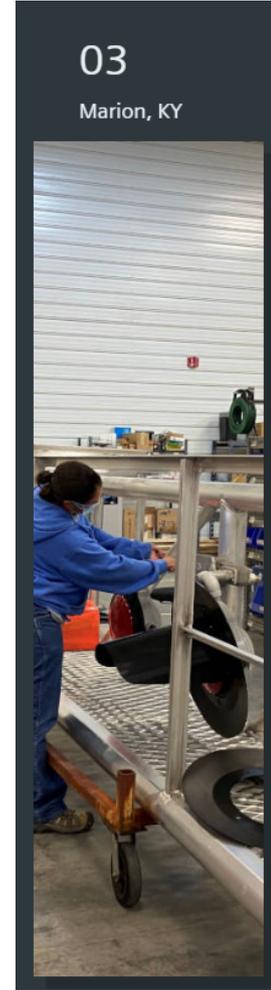
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Siemens ITS Austin TX



01
Sacramento, CA

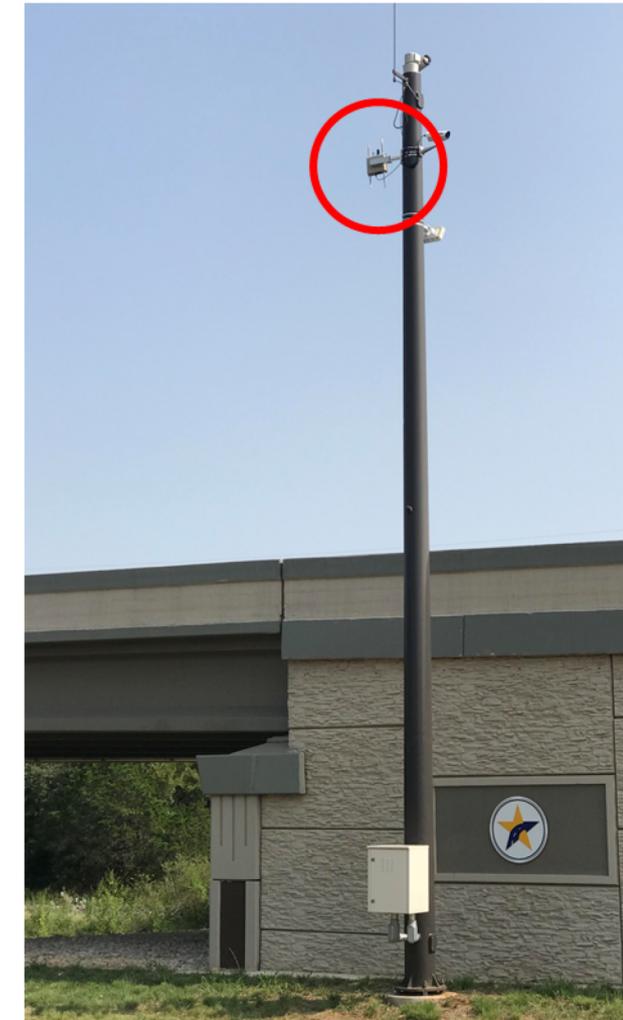


03
Marion, KY

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



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Safety Applications and Agency Data

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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 for 'Address, City, State' and a menu with options: 'File', 'Tools', 'Show', and 'Help'. The main map area shows an aerial view of a road intersection with digital overlays. Orange lines represent lane boundaries, and green arrows indicate travel direction. Several red boxes highlight specific areas on the map. A blue location pin is visible on the road. On the left side, there is a 'CHILD MAP' section with 'Tile Age: Feb/2020 - Apr/2020' and 'Zoom Level: 19'. A white text box in the lower-left corner lists 'SAE J2735 Standard Messages' with the following items:

- 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

At the bottom of the interface, there is a toolbar with various icons and buttons: a question mark, a list icon, 'Approach', a pencil icon, a square icon, 'Lanes', a pencil icon, a list icon, 'Measure', a double-headed arrow icon, a red 'Delete' button, and zoom in/out buttons (- and +).

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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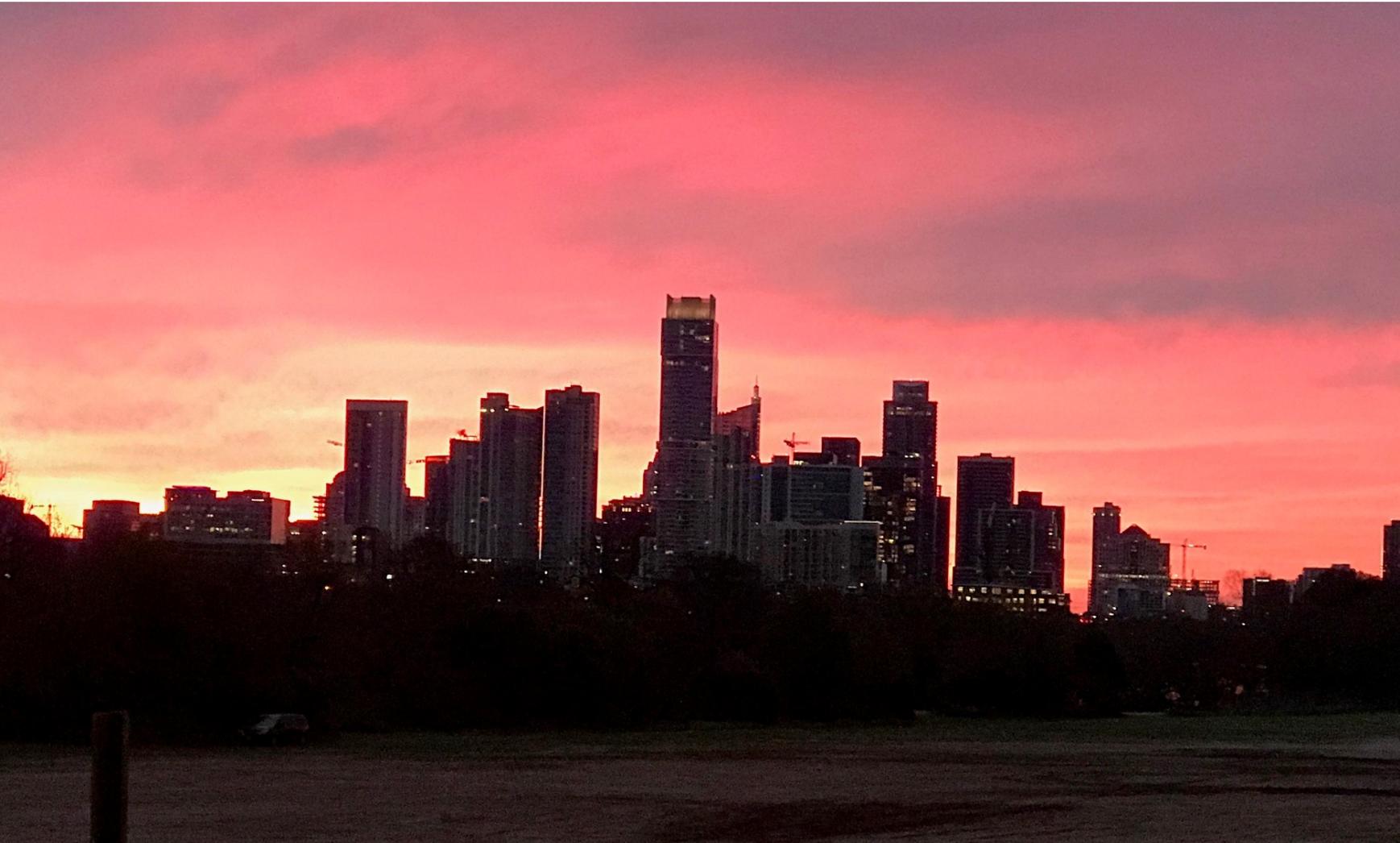
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