

Kimley»Horn Software Solutions » KITS » Kadence » Traction



Connected Vehicles - Virtual DMS



About Us





90+ OFFICES ACROSS THE UNITED STATES





You know us best for professional engineering services We have a robust in-house software development team of

20+ developers and integrators

KITS ATMS, Kadence ATCS, Traction, 511, I2V and V2I CV, Park+, ALPS, multi-jurisdictional ICM, flood warning, real-time web, CV apps

More than 30 years of ITS software experience We know both the **software technology AND** the **transportation management** domain





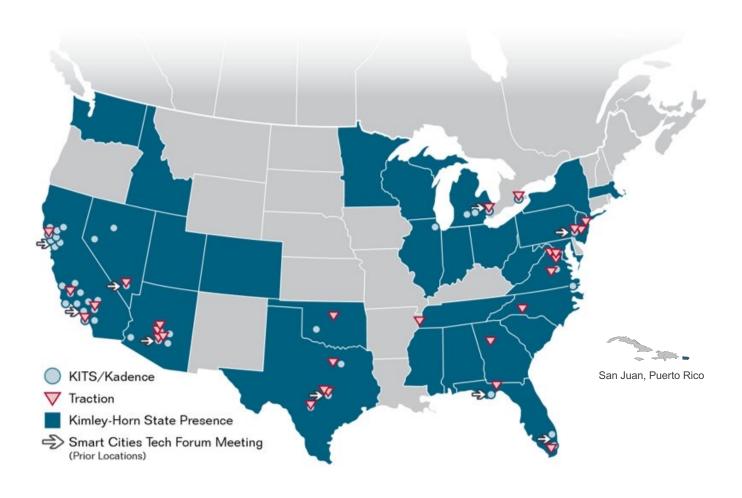






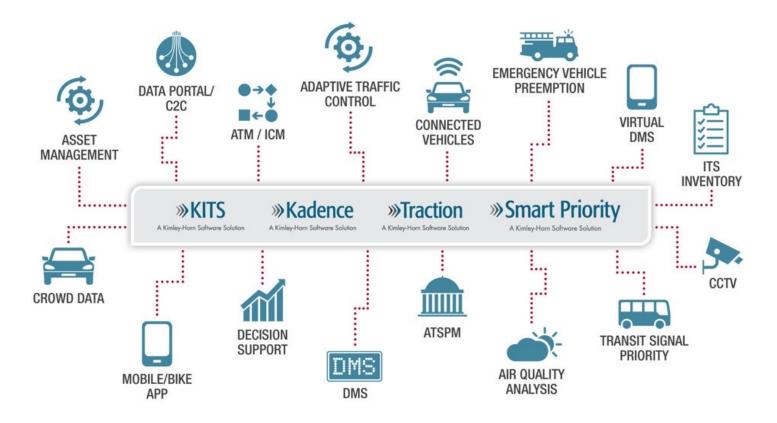


ITS Software Deployments



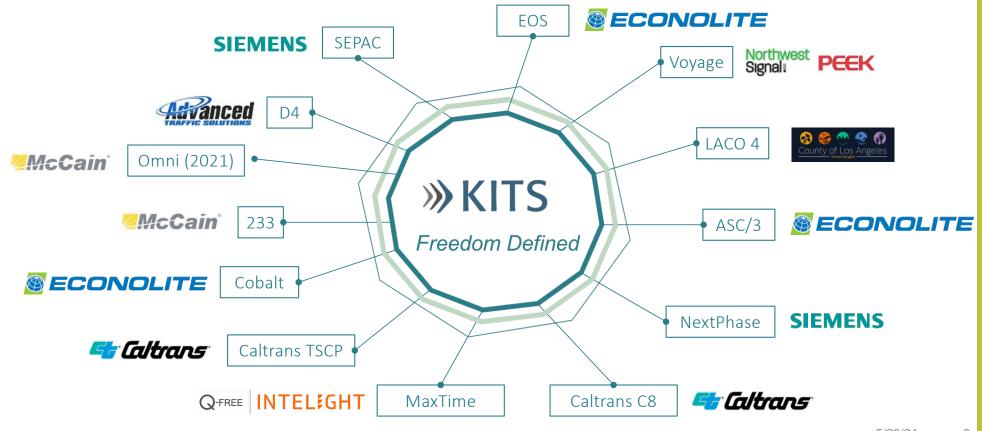


Kimley-Horn Smart Cities Software Platform

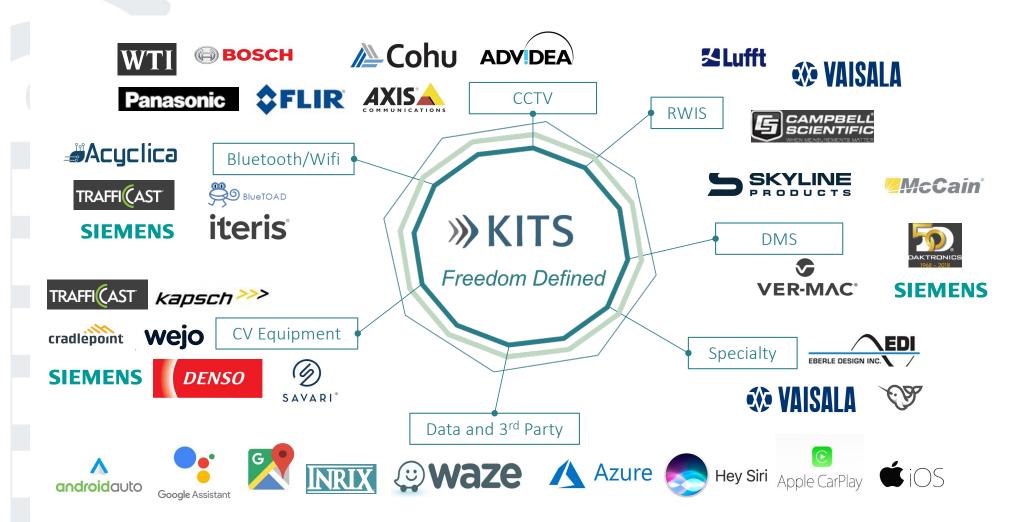




Open System



5/20/21





ITS Challenges

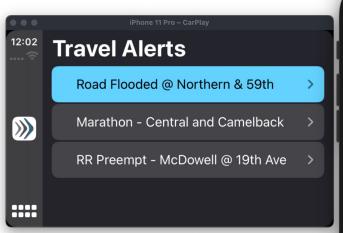
- DMS signs are expensive to deploy and only help drivers in visual range
- Connected Vehicle fleet with CV2X will be slow to materialize
- Most I2V CV apps do not require millisecond latency nor high bandwidth, high frequency messaging
- 511 alerts and DMS on arterial roads are very infrequent

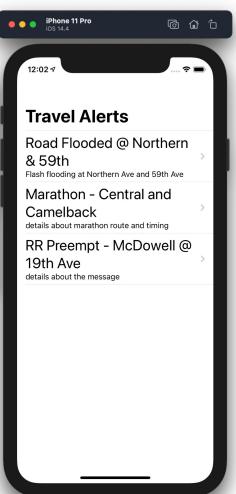


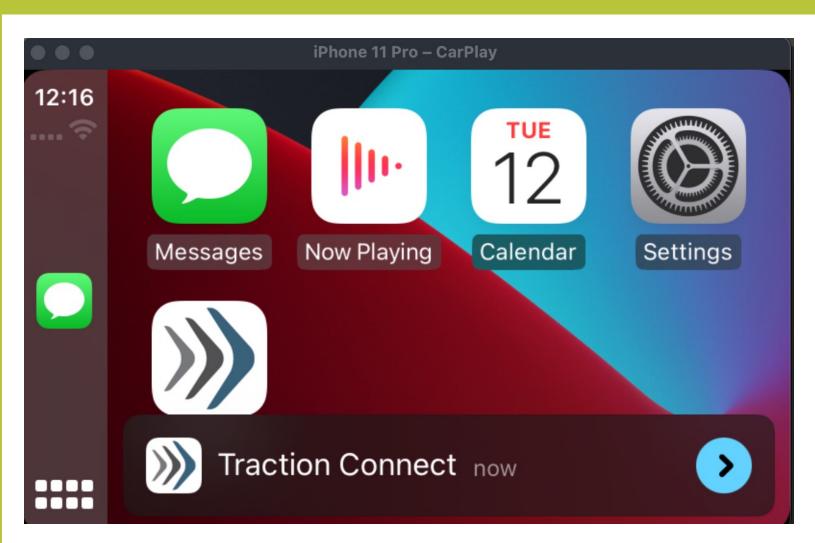
Virtual DMS Solution

- Send traveler information messages (TIMs) to Android Auto/ Apple CarPlay systems using J2735 standards
- Traffic incidents and warnings
 - Signal status data
 - Work zones
 - "Turn around, don't drown"
 - Curve speed warning
 - Signal in flash, signal dark
 - Railroad preempt (heavy rail)
 - Weather, amber/silver
 - Wrong way driver ahead
 - GEOFENCED to user's current location

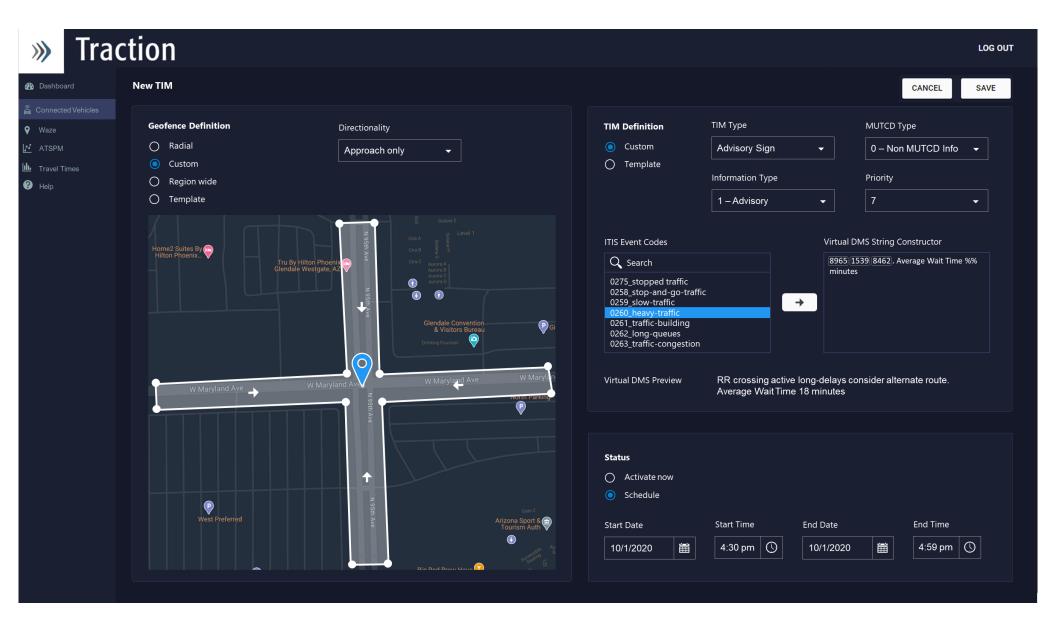




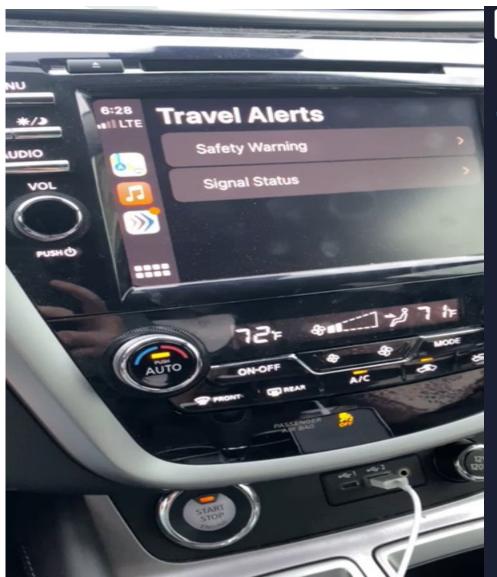




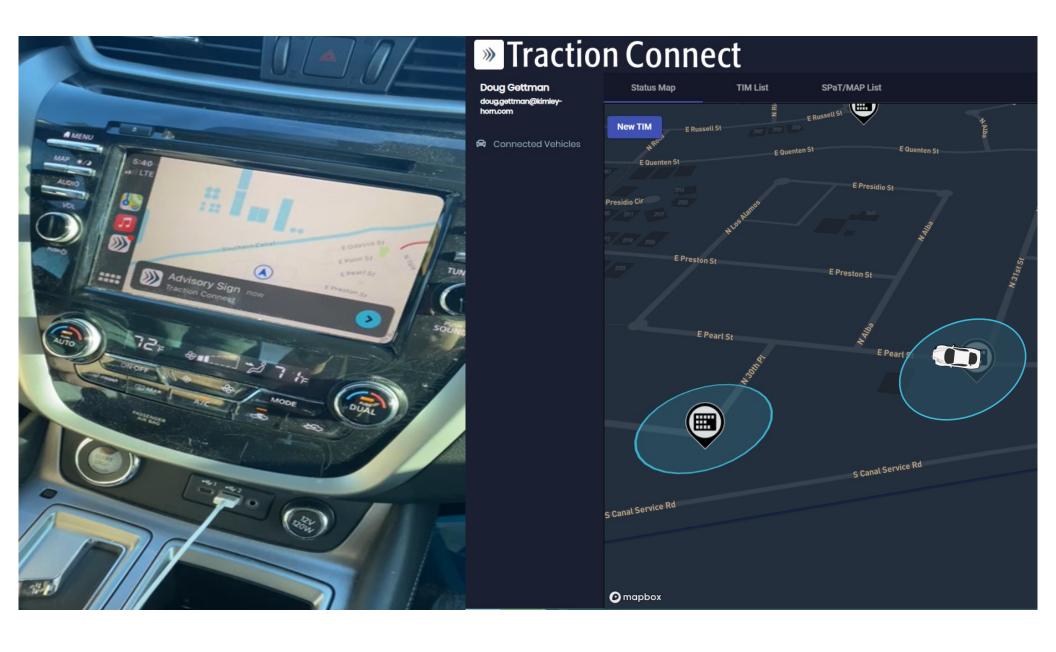












ATMS agnostic

Traction SaaS Cloud

- Automatic TIMs connected to any real-time data feeds (ATMS events, weather, CAD incidents, Waze, etc.)
- TIM creator
- MAP creator
- Event map
- Centralized SPaT/MAP API

Traction CONNECT app

- Free "NextGen511"
- Agency branding (optional)
- Opt-in: Retrieve J2735 BSM trajectories to Traction



Status

 Maricopa County KITS agencies (Glendale, Surprise, Mesa, MCDOT) + Tempe (Signal conditions, CAD incidents)

Spring 2021 - Winter 2021

Kansas DOT (Work zones, weather warning)

Winter 2021 – Spring 2022

 Virtual DMS + RSE management deployment for SANDAG "5 Big Moves"

Summer 2022++



Kimley»Horn Software Solutions » KITS » Kadence » Traction

