A Roadmap for Complex Regional Transportation Projects





THE PROBLEM

Long-haul truck drivers struggle to find safe parking.

Time searching reduces freight productivity.

Fatigue and unauthorized parking puts truck drivers and other motorists at risk.

THE SOLUTION

Monitor parking availability and deliver it real time to drivers.

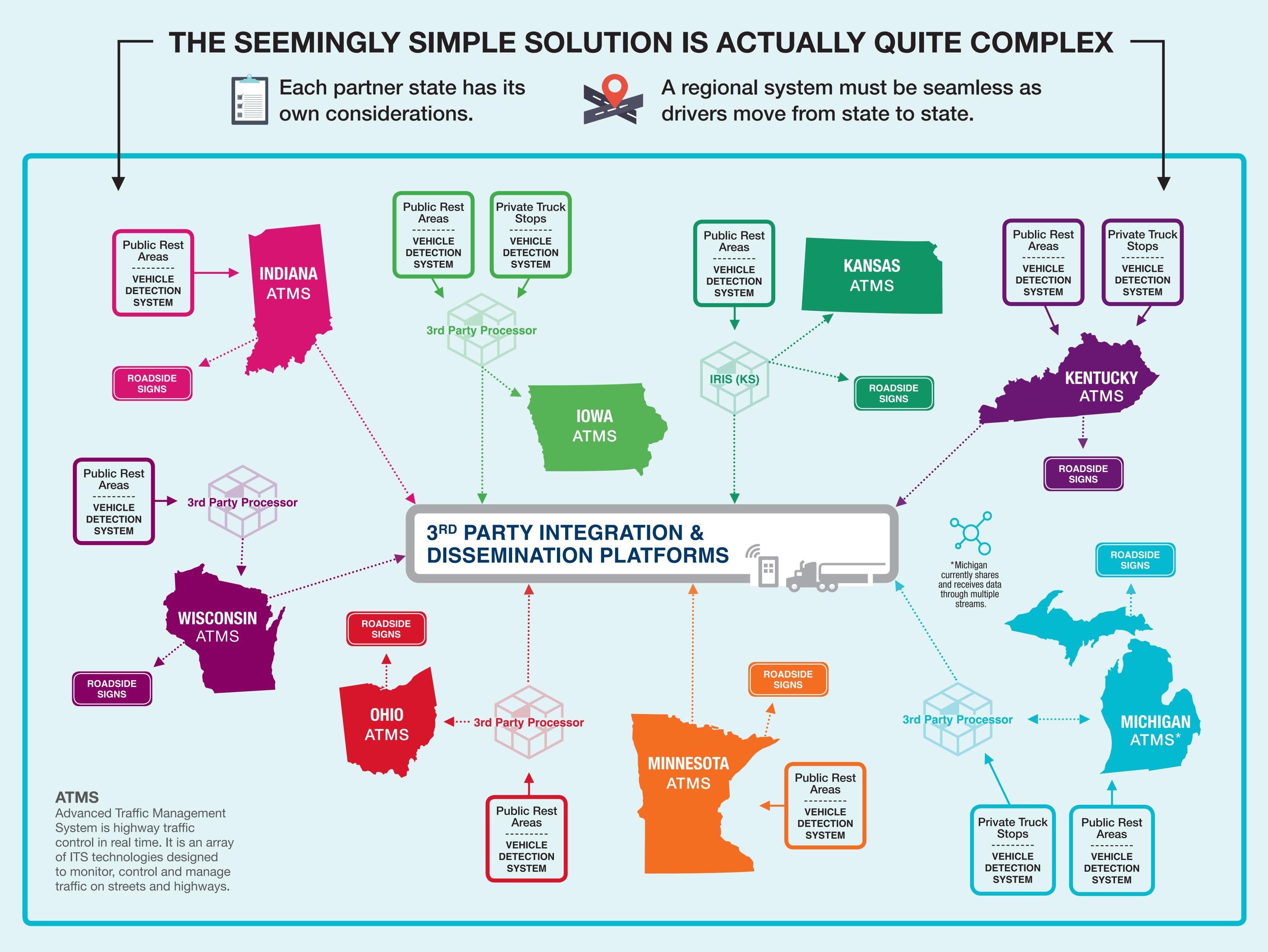
Eight members of the Mid America Association of State Transportation Officials came together in 2016 to create a user-focused parking availability information service.



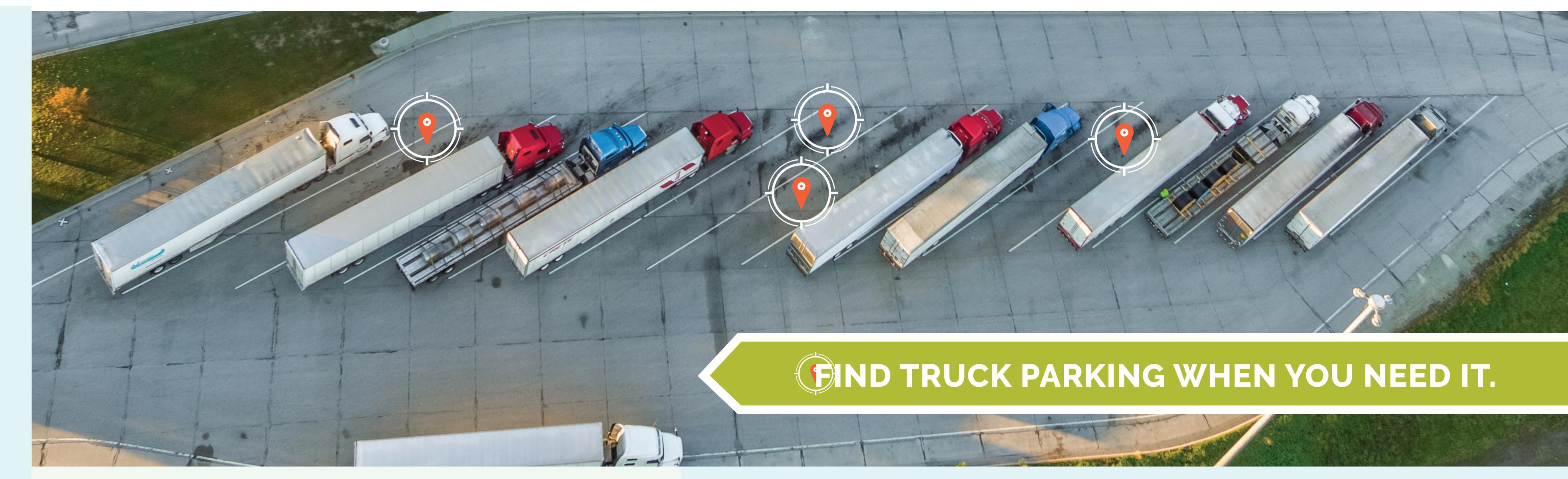
8 States, 1 System

A regional technology initiative requires reconciling different, sometimes conflicting, agency technical preferences and requirements, including procurement, data collection, maintenance and data sharing.





- 1 Vehicle detection systems measure available parking
- 2 Parking data then goes to states and 3rd party processors
- 3 Data is delivered to drivers through:
- + Dynamic message signs + Navigation applications and systems + 5-1-1 websites



The Technology

Deployed along the region's high-volume freight corridors using existing ITS infrastructure and emerging vehicle-detection and data-collection technologies.

Monitored lots selected based on factors such as trucking volume, parking demand and capacity for improvements.

SYSTEMS USED TO MONITOR PARKING AVAILABILITY VARY BY STATE:

- + In-ground sensors (magnetometer)
- + Gates
- + Camera/video

STATES OPTED TO SHARE FREE, REAL-TIME DATA FEEDS THROUGH:

- + Dynamic messaging signs
- + Navigation apps and in-cab navigation systems
- + 5-1-1 travel websites

Dynamic messaging signs let drivers know how many parking spots are available in real time.



Keys to Project Success









Focus on Communicate outcomes early & often

Communicate Link goals & early & often performance

Define roles clearly

Anticipated Results

- Fewer fatigue-related accidents
- More efficient, profitable freight flows
- Stronger freight networks

LEARN MORE

TPIMS provides important lessons for developing complex, multi-jurisdictional technology projects, while integrating individual agency needs.

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