Smart Truck Parking

**How Could This Help?**

- Optimizes route planning for commercial drivers

**How Does This Work?**

- An application will provide information such as hours of service constraints, location and supply of parking, travel conditions, and loading/unloading scheduling to allow commercial drivers to make advanced route planning decisions.

**Investment**

- V2X Roadside Unit Cost per Mile - Freeways: $52,000
- V2X Roadside Unit Cost per Intersection - Signalized Corridors: $26,000
- V2X Signal Controller Cost per Intersection - Signalized Corridors: $10,000
- Fiber Optics Cost per Mile: $158,000

**Transportation Needs Addressed**

**Smart Roadside**

**Solution Improvements**

- Trucks operating on highways longer than necessary

**Solution Pitfalls**

- Infrastructure and vehicle must be V2I equipped
- Requires accurate real-time parking data through sensors

Disclaimer: all content is for planning purposes only and published as of Summer 2020. Contact the author at shacav@mdot.maryland.gov with any questions or comments.