



U.S. Department of Transportation
Federal Highway Administration



Fostering Truck Parking Solutions Seminar/Roundtable for Kentucky

FHWA

Session 2:

- *Technology & Information Solutions*
- *Cross-Cutting Solutions*
- *Kentucky's Action Plan & Next Steps*

July 27, 2022

Fostering Truck Parking: *Facilitators/Instructors*

FHWA Resource Center Facilitators/Instructors

Jen Foley

Data & Analytics Specialist



Nick Renna

Data & Analytics Specialist



Local Hosts

Bernadette Dupont

Transportation Planner
FHWA KY Division



Mikael Pelfrey

Director of Kentucky
Transportation Cabinet
Division of Planning



Fostering Truck Parking: *Learning & Engagement Approach*

Please Interact freely!

- Hear from your peers and share your experiences

Begin to Define Your Needs and Priorities

You can participate by speaking, polls and chat pod

- Please MUTE yourself when not speaking
- Use of Raise Hand on **MS Teams Menu Bar** to agree, ask questions, etc
- To enhance internet bandwidth, please **leave cameras off** unless speaking



Source: PPT Stock Images

Your participation and ideas will help make this event successful!



Fostering Truck Parking: *Event Outcomes & Schedule*

Overarching Goals

- Identify truck parking concepts and trends
- Analyze truck parking needs nationally and in Kentucky
- Assess truck parking solutions
- Develop key goals and *possible* strategies for advancing truck parking solutions in Kentucky

Date	Time	Session and Topic
July 18, 2022	10:00 – 12 pm (eastern)	Session 1: <ul style="list-style-type: none">• Truck Parking Basics• Truck Parking Needs• Capacity & Programmatic Solutions
July 27, 2022	9:00 – 12:00 pm (eastern)	Session 2: <ul style="list-style-type: none">• Technology/Information Solutions• Cross-Cutting Solutions• Kentucky Truck Parking



Fostering Truck Parking: *What We Heard in Session 1*

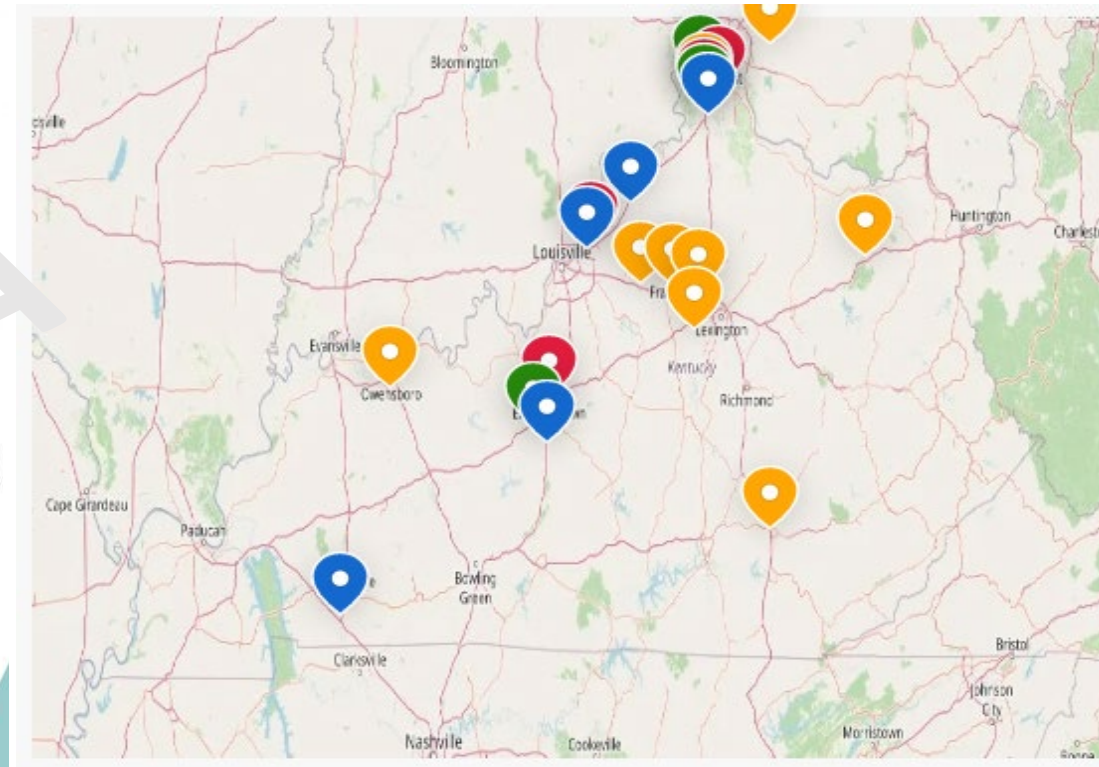
Why do you think Truck Parking is Important?

Safety reasons Jobs
I like to eat Efficiency
Distribution
Commerce

Safety

Supply Chain
demand
Economic impact
Food Interstate safety
Safety congestion

Biggest Needs/Challenges:



Fostering Truck Parking: *Session 2 Learning Objectives*

- Review *technology/information* and *cross-cutting* truck parking solutions
- Assess status of Kentucky's truck parking action plan and implementation solutions
- Prioritize next steps for advancing truck parking solutions in Kentucky



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Truck Parking Solutions: *Recall Major Types*

Capacity

- Development of New Capacity
- Enhance or Repurpose Existing Facilities
- Site Design Changes



Source: PPT Stock Images

Technology & Information

- Sensing & Detection Systems
- Traditional Signs/Variable Messaging
- Real-Time Applications
- Info Guides & Static Information Sites

Cross-Cutting

- Internal Agency Coordination
- Public Sector Partnering
- Private Sector Engagement
- Funding/Financing
- Outreach/Education

Programmatic

- Plans and Studies
- Policies & Standards
- Land Use Strategies



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Truck Parking Solutions

Technology/Information

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Technology & Information Solutions: *Overview of Types*

Technology Solutions

- ✓ Sensing & Detection Systems
- ✓ Real-Time Applications
 - Mobile Apps
 - Emergency “Portals”
 - Reservation Systems
- ✓ Traditional Signs/Variable Messaging



Source: PPT Stock Images

Information Solutions

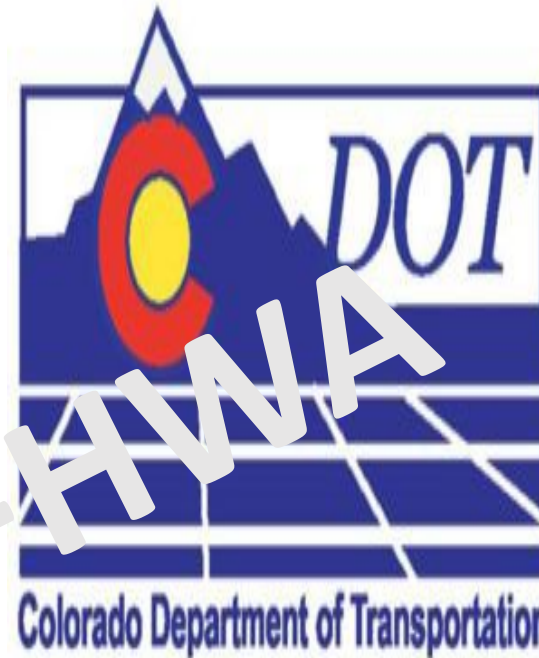
- ✓ Static Information Sites
- ✓ Driver Information Guides

Important Role: Provide information on available parking *locations, usage rates*, amenities, etc by state, corridor, facility type specific

Technology & Information Solutions: *Mobile App--Example (CO)*

Colorado DOT On-Line App

- Developed on-line app identifying truck parking opportunities on major truck routes
- Parking opportunities categorized as permanent parking, temporary-emergency parking and chain up areas



Transferable Practices

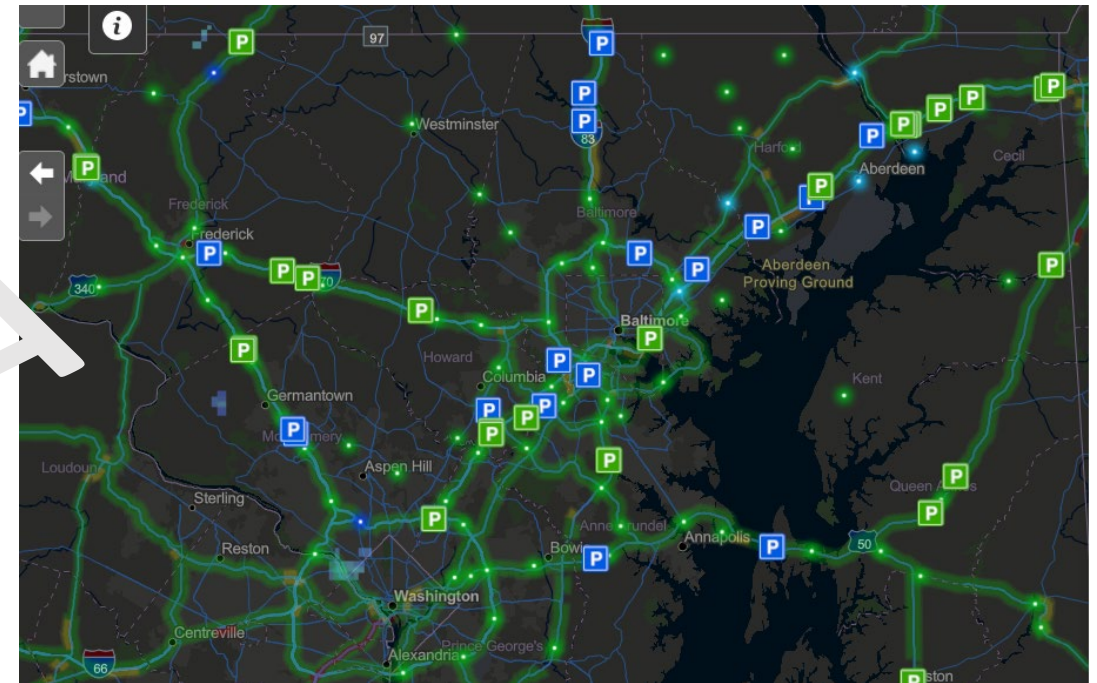
- Guide useful and low-cost approach for informing trucking community of available facilities
- Drivers aware of truck parking opportunities and amenities available at each site

Truck Parking Solutions:

Technology—Emergency Parking Example (MD)

Maryland Emergency Truck Parking Portal

- Includes *mobile app and web-based mapping* functionality
- Communicates to drivers where available public facilities are open during different types of emergencies (new use of six Park & Ride facilities for truck parking during emergencies)
- Developed with stakeholder and partner coordination and input

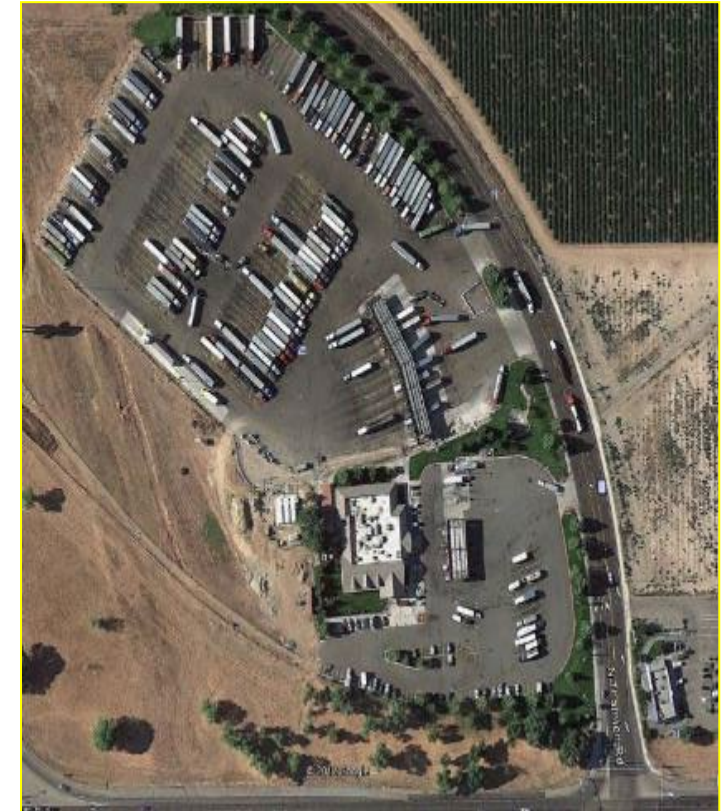


Source: MDOT



Technology & Information Solutions: *Sensing & Detection Systems Overview*

- Help identify availability of spaces *in real time*
- Different types of sensing and detection technologies
 - Approaches
 - Availability of actual spot
 - Facility entries/exits
 - Methods
 - Loop Detectors, RFID, Cameras, In-Pavement systems, Light Curtains, Inventory systems
- Different levels of accuracy, cost effectiveness and scale



Technology & Information Solutions: *Sensing & Detection--Example (VA)*



Virginia DOT Parking Detection Project

- Provide truck drivers access to real-time and accurate information about availability of safe public & private parking places
- Increase utilization of public truck parking spaces
- Reduce time truck drivers take searching for available parking



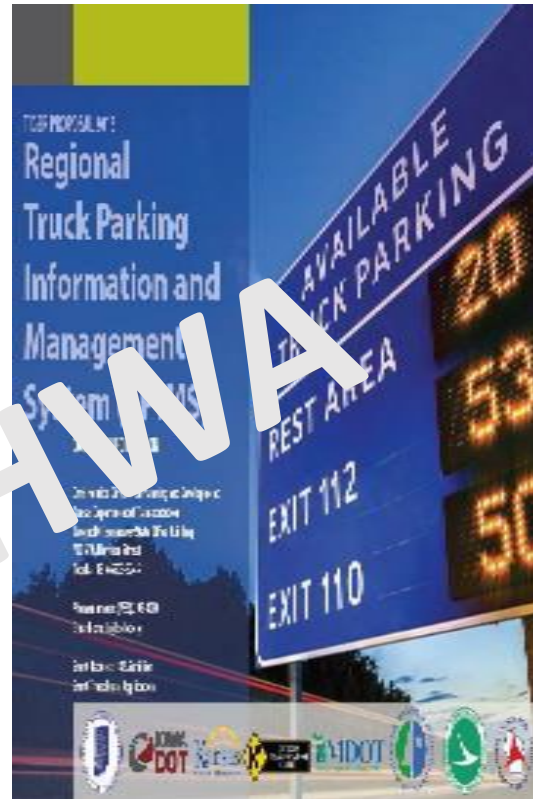
Transferable Practices

- Clearly identify how technology solutions can address specific truck parking needs
- Important to integrate technology solutions and planning & programming processes & products (e.g. State Freight Plans; STIP etc)

Technology & Information Solutions: *Corridor Information System—Corridor Example*

Multi-state truck parking information and management system (TPIMS)

- Focused on monitoring public and private spaces, collecting real-time parking availability data and communicating parking availability to drivers
- Provided truck parking information to **drivers enroute** first using dynamic messaging signs and then new information systems



Transferable Practices

- Value of user-friendly systems for driver decision-making
- Efficiency gains for drivers as technology allowed them to spend less time searching for truck parking
- System safety metrics improved as rates of illegal/unauthorized parking decrease and fatigue-related crashes decline

Technology & Information Solutions: *Discussion Time*

What technology and information solutions have been utilized in Kentucky?

Which technology solutions do you feel would best fit Kentucky's needs?



Source: PPT Stock Images

Kahoot!



Technology & Information Solutions: *Safety Perspectives*

Perspectives on Safety Needs and Solutions in Kentucky

- Views on needs from state police, trucking associations and drivers
- How can *technology and information solutions* help support these needs?



Source: PPT
Stock Images

- **Sgt. Jason Morris**, Kentucky State Police
- **Rick Taylor**, Kentucky Trucking Association



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Truck Parking Solutions

Cross-Cutting Strategies

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Cross-Cutting Solutions: *Overview of Types*

- ✓ Internal Agency
Coordination (across
program areas)
- ✓ Partnering across public
sector agencies
- ✓ Private sector
engagement



- ✓ Funding &
Financing
- ✓ Education &
Outreach

Source: PPT Stock Images

Cross-Cutting Solutions: *Coordination & Partnering*

Internal Agency Coordination Across

- Safety Programs
- Enforcement Personnel
- Operations and Maintenance
- Pavement and Bridge Programs
- Planning and Programming Units



Source: MS PPT Clipart

External Partnering With:

- MPOs and RTPOs
- City and county land use and zoning agencies
- Economic development agencies
- Truck Stop Operators
- Drivers
- Shippers/Receivers
- Other State Agencies
- Private Sector Groups

Cross-Cutting Solutions: *Coordination & Partnering—Example (PA)*

PennDOT's Internal Freight Work Group

- Brings together PennDOT departments, MPOs/RTPOs, economic development, and FHWA (since 2017)
- Forum for discussion of statewide freight issues and venue for information-sharing



- Has a truck parking subcommittee
- DOT also co-leads/serves on MPO Freight Advisory Committees and actively participates in other freight meetings and events

Cross-Cutting Solutions: *Private Sector Engagement*

- Public Meetings
- Soliciting comments via online
- On-going committees



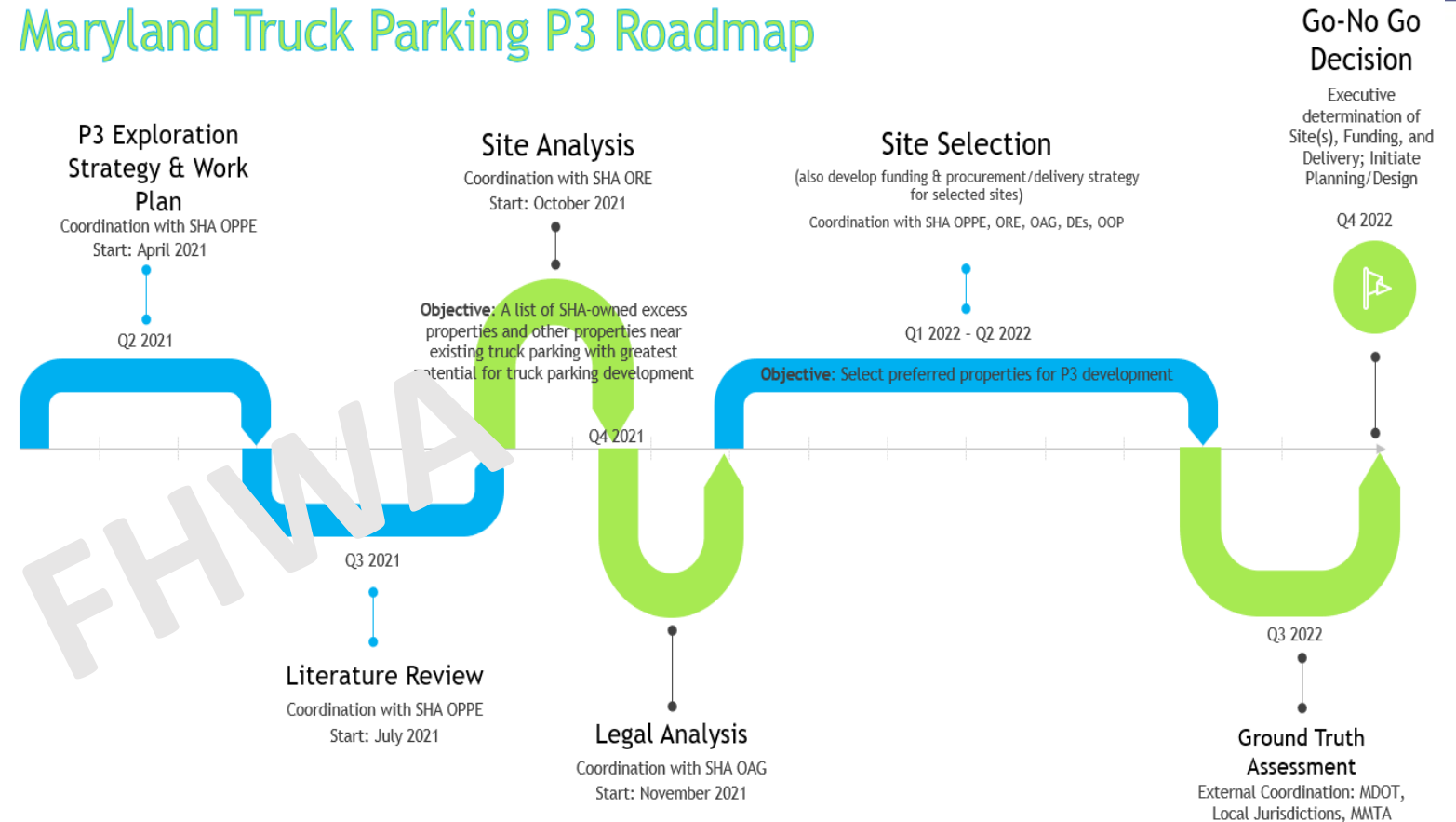
Source: MS PPT Clipart

- Having a champion; contact
- Clearly define roles and responsibilities

Cross-Cutting Solutions: Private Sector Engagement—Example (Maryland)

- MDOT analyzed and identified property that could be use for truck parking
- Reached out to owners of facilities near the DOT properties
- Developed a legal agreement

Maryland Truck Parking P3 Roadmap



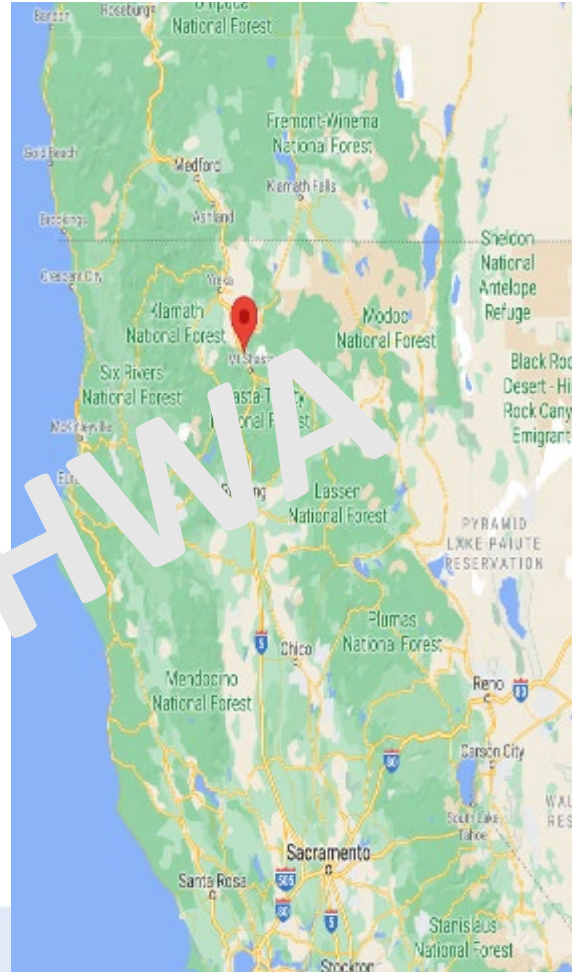
Cross Cutting Solutions: Coordination & Partnering—Example (CA)

Weed, California

- Driver concerns about ongoing ticketing for unauthorized parking
- City Manager recognized economic value of freight and region and need for truck parking

'We're one of the few places where you can actually catch all of the truck traffic on the West Coast'

- Opened free, city-built parking lots for truck drivers (adjacent to hotel, fast food and Pilot Travel Center)
- RVs and autos ticketed if in these designated areas



Transferable Practices

- **Partnering** amongst staff and leadership of local agencies
- **Coordination** helped demonstrate importance of freight/trucking to local economy
- Demonstrated key role local agencies can play in defining specific **location** needs/solutions



Cross-Cutting Solutions: *Financing/Funding Overview*

- **Funding and financing key to** truck parking solutions
- Mix of funding and finance strategies often important
- Variety of federal, state, local and private resources



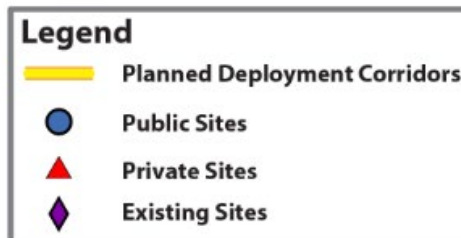
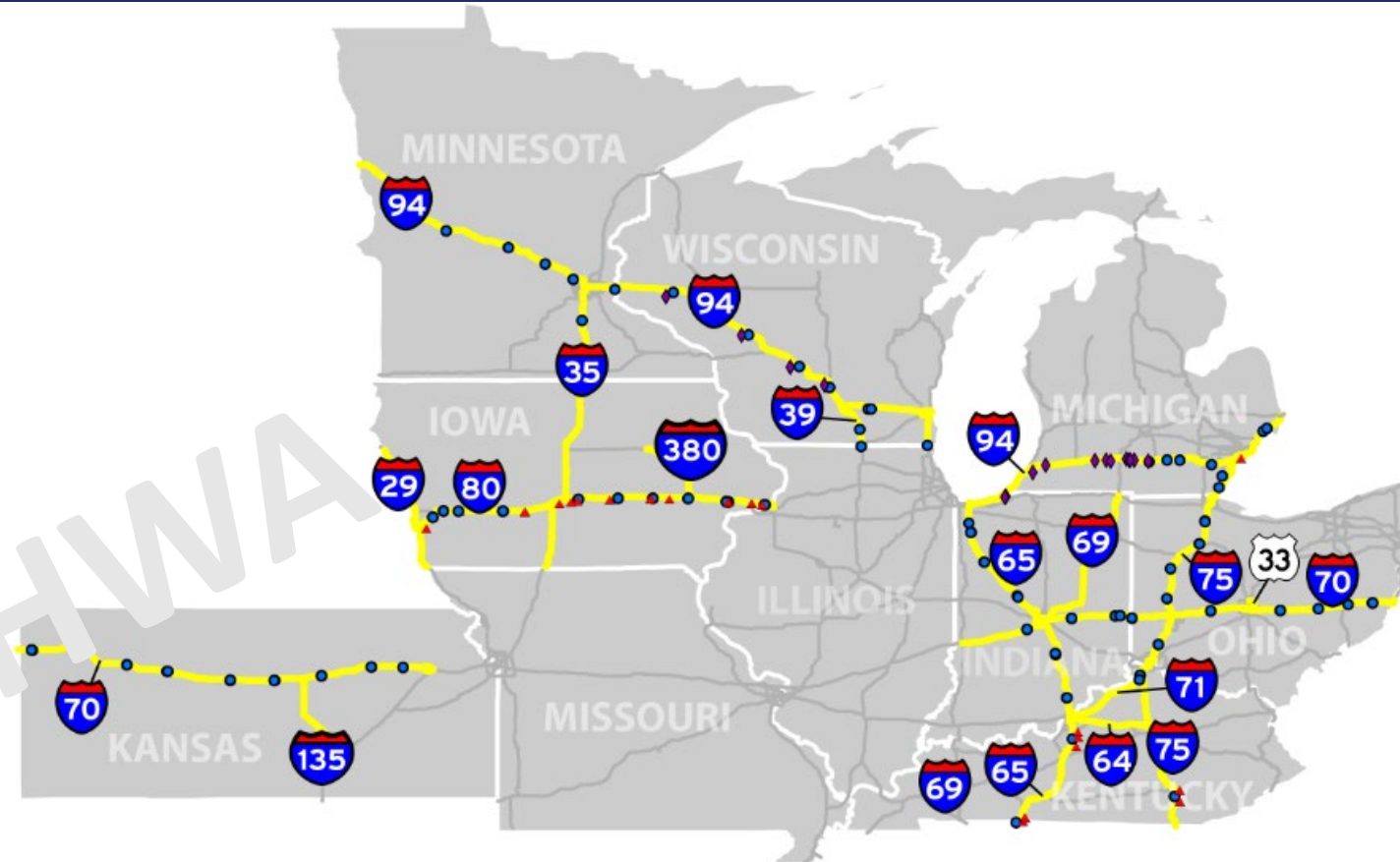
Source: PPT Stock Images

Example Strategies:

- Public-private partnerships (P3)
- Federal **funding eligibilities**
- New **discretionary grant** programs
- **Innovative** funding and financing approaches:
 - “Industrial park co-operatives” or industrial tax districts for pooled parking
 - Use of truck parking fees as revenue sources
 - Tax incentives

Cross-Cutting Solutions: *Financing/Funding—Example (MAASTO)*

- 139 public and private sites
- \$31.2 million in federal funding (TIGER)
- Collect, aggregate and communicate real-time parking availability
- Measure impact on truck parking and safety
- System launch: January 2019
- www.trucksparkhere.com



Cross-Cutting Solutions: *Education Overview*

- *Education and awareness building* still very much integral to a full program of truck parking solutions
- Basic education on importance & role of truck parking needed for some audiences
- Driver focus is on awareness of truck parking availability in region, corridor, time of day



Source: PPT Stock Images

Example Education Strategies:

- Truck parking websites
- Truck parking guides
- Truck parking and freight education outreach
- Freight and supply chain videos
- Targeted outreach to general public and neighborhood associations

Cross-Cutting Solutions: *Public Education Example*

Consider education and awareness strategies specifically targeted to the general public:

- Discuss connections between truck parking facilities and land use/zoning, jobs and economy
- Show connection between freight transportation and products they use in their daily lives (e-commerce)
- Demonstrate importance of truck parking to driver safety



Source: TECT



Source: CAGTC

Cross-Cutting Solutions: *Discussion Time*

What multi-agency/public-private solutions have been explored in Kentucky?

*Partner Coordination, Funding/Financing,
Outreach/Education*

Have these solutions lead to any investments?

Kahoot!



Source: PPT Stock Images





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Kentucky's Truck Parking Action Plan

State & Regional Perspectives

Kentucky's Action Plan: *Overview*

Overview of Kentucky's current Truck Parking Action Plan



Jeremy Edgeworth
Freight, Rail and Waterways
Coordinator
Division of Planning
Kentucky Transportation Cabinet

Kentucky's Action Plan: *Regional Perspectives*

Discussion Themes

- How did the Boone County Truck Parking action plan come to be?
- What strategies have been implemented from the plan? How effective have these been thus far?
- Which stakeholders and partners have been involved with these implementation strategies?



Robyn Bancroft

Strategic Initiatives Manager
Ohio-Kentucky-Indiana Regional
Council of Governments (OKI)

Kentucky's Action Plan: *Implementation Priorities*

Based on what you heard, are there any opportunities to add to the action plan?

What are the ways **YOU** can help deliver KYTC's action plan elements?

Kahoot!



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Wrap Up and Next Steps

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Fostering Truck Parking: *Session 2 Take-Aways*

What did we do today?

- Reviewed *technology/information* and *cross-cutting* truck parking solutions
- Assessed status of Kentucky's truck parking action plan and implementation solutions
- Prioritized next steps for advancing truck parking solutions in Kentucky



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Today's Session:

Evaluation



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Thank You and Good Luck!

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