



Freight Mobility and Trade Plan

Technical Memorandum 9
Action Plan

April 2020



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FMTP Action Plan

The FMTP Action Plan is the blueprint for action – the “What, Who, and When” for freight-related actions. The actions – policies, programs, and projects – are solutions to solving the problems, needs, and issues discovered and identified during the development of the FMTP.

Freight mobility is not an isolated function. The movement of goods and commodities supports private sector supply chains and consumer demand. FDOT is not able to bear the full responsibility of solving all freight mobility needs, however, the FMO office is in the best position to orchestrate and align certain actions to meet freight mobility needs. This Action Plan is a guide for how the FMTP objectives can be achieved through the guidance of the FMO office. These actions are not a direction for other offices to follow, but guidance on how FMO can direct achievement through partnerships. A time frame for implementation is included with each objective.

Intra-Agency Collaboration

Intra-agency collaboration and coordination is necessary to implement some policies, programs, and projects. Many action steps are beyond the purview and authority of FMO. Other FDOT offices are needed to support actions for solving freight mobility related issues. As the state’s proponent and expert on freight mobility, FMO will need to initiate and lead collaboration to transform the action items into reality.

Inter-Agency Collaboration

Implementation of some recommendations will require partnership with state and federal agencies, MPOs, local governments, private-sector entities, and other organizations. Therefore, a strong partnership and collaboration among all agencies and stakeholders is necessary to successfully implement the FMTP policy and program recommendations. Several of the actions will require the establishment of working groups composed of stakeholders from key agencies from across the State. An inter-agency freight working group can facilitate collaboration and coordination on matters that affect freight mobility in a holistic manner.

Timeline

Each recommendation and action is given an expected timeline for execution and completion. These will follow along the FMTP Implementation timelines of Short-term (<2 years), Medium-term (3-5 years), and Long-term (5+ years). These timelines are established with an understanding that accomplishing these goals will require the engagement of multiple agencies and stakeholders simultaneously.



Objective 1: Leverage multisource data and technology to improve freight system safety and security.

Recommendation	Action	Partner Offices	Partner Agencies/ Private Stakeholders	Schedule
1.1 Identify commercial vehicle high crash segments and intersections, analyze causal factors, and develop counter measures	1.1.1 Conduct data analysis to identify commercial vehicle high crash segments and intersections	Office of Safety, Transportation Data Analytics	DHSMV	Short-term
	1.1.2 Analyze causal factors, develop countermeasures, prioritize and implement projects	FDOT Districts		Continuous
	1.1.3 Establish/ leverage Florida intra and inter agency task force	Office of Safety, Office of Maintenance, Office of Motor Carrier Size and Weight	FDLE, DHSMV	Continuous
1.2 Provide more safe, secure and utilitarian truck parking facilities	1.2.1 Create monthly 'Crime Reports' to monitor truck parking safety and security	Office of Safety, Office of Traffic Engineering and Operations	Motorola Solutions, Inc.; FDLE	Continuous
	1.2.2 Improving camera coverage of rest areas and WIM stations	Office of Maintenance, Office of Traffic Engineering and Operations	DHSMV; FDLE	Medium-term
	1.2.3 Explore additional amenities options at rest areas and WIM stations	Office of Maintenance	DHSMV	Medium-term
	1.2.4 Integrate safe haven strategies and designs into rest area and WIM stations	Office of Maintenance; Office of Design; Office of Safety	DHSMV	Short-term



Recommendation	Action	Partner Offices	Partner Agencies/ Private Stakeholders	Schedule
1.3 Identify and implement freight related automated and connected vehicle projects to improve safety and mobility	1.3.1 Analyze causes of crash hot spots to identify tech safety solutions	Design; Safety; Transportation Technology; Traffic Engineering and Ops	DHSMV; FDLE	Short-term
	1.3.2 Invest in tech solutions funded through tech and connected vehicle grants that increase efficiency and throughput	Office of Policy Planning		Short-term
	1.3.3 Fund and implement Advanced Freight Mobility Solutions (AFMS) early warning systems	Transportation Technology; Safety; Rail and Motor Carrier Operations; Traffic Engineering and Ops	DHSMV	Medium-term
	1.3.4 Establish FRAME system guidelines in future roadway engineering and design	Transportation Technology; Office of Safety; Traffic Engineering and Ops; Office of Design	DHSMV	Medium-term
1.4 Prioritize rail-highway at-grade separation needs and implement select projects depending on funding availability	1.4.1 Develop prioritization methodology for at-grade separations	FDOT Districts	FRA	Short-term
	1.4.2 Obtain a list of potential grade-separation needs from the districts	FDOT Districts		Short-term
	1.4.3 Prioritize district needs from a statewide perspective and determine funding options	FDOT Districts	FRA	Short-term



Recommendation	Action	Partner Offices	Partner Agencies/ Private Stakeholders	Schedule
1.5 Partner with freight related industries to support development of electronic freight management systems that enhance freight flow visibility throughout the entire supply chain, expedite communication among supply chain partners and government agencies, and enhance system security.	1.5.1 Establish vision and identify appropriate stakeholders and vendors	Modal Offices		Short-term
	1.5.2 Create working group with industry stakeholders to create data sharing framework	Office of Transportation Data and Analytics, Modal Offices	Private Vendors, Universities, Modal partners, Bureau of Transportation Statistics	Short-term
	1.5.3 Work with stakeholders and vendors to develop freight management system	Office of Transportation Data and Analytics, Modal Offices, Procurement	Private Vendors, Universities, Modal partners, Bureau of Transportation Statistics	Medium-term



Objective 2: Create a more resilient multi-modal system.

Recommendation	Action	Partner Offices	Partner Agencies/ Private Stakeholders	Schedule
2.1 Analyze and assess resiliency of the freight system	2.1.1 Establish resiliency task force	SIS, Office of Emergency Management	FEMA, USDOT, DEM, SERT	Short-term
	2.1.2 Define freight system resiliency and identify appropriate data sources	SIS, Office of Emergency Management	FEMA, USDOT, DEM, SERT	Short-term
	2.1.3 Utilize local plans and data to create statewide map and GIS dashboard for emergency freight planning efforts	FDOT Districts,	MPOAC	Medium-term
	2.1.4 Develop resiliency assessment process and program	SIS, Office of Emergency Management	FEMA, USDOT, DEM, SERT	Medium-term
2.2 Conduct vulnerability and risk assessments to identify possible freight system disruptions and establish risk tolerance thresholds	2.2.1 Conduct vulnerability and risk assessments	SIS, Office of Emergency Management	FEMA, USDOT, DEM, SERT, MPO's, Regional Planning Councils	Short-term
	2.2.2 Establish risk tolerance thresholds	SIS, Office of Emergency Management	FEMA, USDOT, DEM, SERT, MPO's, Regional Planning Councils	Short-term
	2.2.3 Identify unacceptable risks and develop strategic plan	SIS, Office of Emergency Management	FEMA, USDOT, DEM, SERT, MPO's, Regional Planning Councils	Short-term
2.3 Develop a contingency plan to support private sector freight mobility continuance of operations and to support disaster relief logistics operations	2.3.1 Utilize FLFAC relationships to identify most vulnerable private industry stakeholders	Office of Emergency Management	FLFAC Stakeholders	Short-term
	2.3.2 Secure input from industry stakeholders to identify at risk assets and operational challenges	Office of Emergency Management	Modal and Industry Stakeholders	Short-term
	2.3.3 Work with stakeholders to develop resilience solutions	Office of Emergency Management	Modal and Industry Stakeholders, DEM	Medium-term



Recommendation	Action	Partner Offices	Partner Agencies/ Private Stakeholders	Schedule
2.4 Ensure supply chain resiliency of critical commodities (like fuel) considering all four phases of emergency management (prepare, respond, recover, and mitigate)	2.4.1 Create inventory of critical commodities	Office of Emergency Management, FDOT Districts	Office of agriculture and consumer services, Modal and Industry Stakeholders	Short-term
	2.4.2 Create alternative networks across district lines to create redundant supply lines	Office of Emergency Management, FDOT Districts	Office of ag and consumer services, Modal and Industry Stakeholders, DEM	Medium-term
	2.4.3 Create scenario plans for all possible events including alternate delivery methods	Office of Emergency Management, FDOT Districts	Office of ag and consumer services, Modal and Industry Stakeholders, DEM	Long-term
	2.4.4 Expand Emergency Shoulder Use (ESU) monitoring system throughout the state	Office of Emergency Management, FDOT Districts	Office of ag and consumer services, Modal and Industry Stakeholders	Short-term
2.5 Include resiliency considerations into project life-cycle and decision-making processes	2.5.1 Incorporate resiliency considerations into project life-cycle and project prioritization process	SIS, Office of Emergency Management	DEM	Medium-term
	2.5.2 Review and update resiliency policies annually	SIS, Office of Emergency Management	DEM	Short-term
	2.5.3 Develop strategies to mitigate effect of freight transportation on communities	SIS, Office of Emergency Management	DEM; HUD; DEO	Medium-term



Objective 3: Ensure the Florida Freight system is in a state of good repair.

Recommendation	Action	Partner Offices	Partner Agencies/ Private Stakeholders	Schedule
3.1 Consider data-driven asset management approach to guide multimodal freight investments	3.1.1 Coordinate with risk based transportation asset management planning process to identify freight related maintenance issues	Office of Planning, Office of Maintenance	DHSMV	Short-term
	3.1.2 Work with respective offices to address system performance issues	Office of Maintenance		Short-term
3.2 Optimize the functionality, efficiency, and reliability of existing freight systems	3.2.1 Conduct assessment of local restricted and dedicated freight routes statewide	FDOT Districts, Office of Survey and Mapping	MPOAC	Short-term
	3.2.2 Continue to monitor congestion bottlenecks and travel time reliability	Office of Transportation Data and Analytics, FDOT Districts		Continuous
	3.2.3 Provide real-time information to stakeholders for improved performance	Office of Transportation Data and Analytics, Office of Forecasting and Trends	Industry and Modal Stakeholders	Short-term
	3.2.4 Establish a funding pathway for the maintenance of sea and air ports	Modal Offices		Short-Term
3.3 Preserve and maintain the existing State Highway System	3.3.1 Yearly analysis of TPAS data to identify truck parking trends	Rail and Motor Carrier Operations, TSM&O		Continuous
	3.3.2 Continue to monitor structurally deficient bridges and pavement conditions	Office of Maintenance		Continuous
	3.3.3 Coordinate with respective offices to address maintenance needs	Office of Maintenance, Modal Offices		Short-term



Recommendation	Action	Partner Offices	Partner Agencies/ Private Stakeholders	Schedule
3.4 Maximize use of existing and unused facilities and properties for truck parking	3.4.1 Continue to monitor utilization of existing facilities	Office of Transportation Data and Analytics, Office of Maintenance		Continuous
	3.4.2 Develop strategies to encourage use of underutilized facilities	Office of Traffic Engineering and Operations; Office of Transportation Systems Management and Operations	Industry and Modal Stakeholders	Short-term
	3.4.3 Retrofit/redesign existing rest areas to add more capacity and improve third-party vendor operations	Office of Structures Design	Industry and Modal Stakeholders	Medium-term
	3.4.4 Update the rest area master plan	Office of Planning, Maintenance, Office of Design		Medium-term
	3.4.5 Utilize truck parking toolbox recommendations for further solutions	SIS, Maintenance, Office of Structures Design, Office of Roadway Operations, Office of Strategic Development, Office of Traffic Engineering and Operations		Long-term
3.5 Apportion dedicated funding for truck parking projects either through legislative request or by leveraging NHFP funds	3.5.1 Analyze and create financial outlook and grant funding plan for needs of truck parking	Office of Structures, Office of Design, Office of Work Program and Budget		Short-term
	3.5.2 Develop internal policy to set aside NHFP funds for truck parking	Office of Work Program and Budget		Short-term
	3.5.3 Champion legislative request for truck parking including operations and maintenance	Office of Work Program and Budget, Office of Legislative Programs		Continuous

Objective 4: Drive innovation to reduce congestion, bottlenecks and improve travel time reliability.

Recommendation	Action	Partner Offices	Partner Agencies/ Private Stakeholders	Schedule
4.1 Promote and support use of Intelligent Transportation Systems (ITS) and CAV technologies to increase efficiency and reliability of freight movement	4.1.1 Leverage connected vehicle initiative to identify and fund freight related technology projects	Office of Engineering and Traffic Operations		Short-term
	4.1.2 Define FDOT role in advanced freight and connected vehicle space through creation of freight tech investment plan	Office of Engineering and Traffic Operations. TSM&O		Medium-term
	4.1.3 Expedite the implementation of recommendations and lessons learned from the Freight Advanced Traveler Information System (FRATIS) pilot	Office of Traffic Engineering and Operations; Office of Transportation Systems Management and Operations		Long-term
4.2 Identify and implement low-cost, operational improvements on the freight system in coordination with the SIS Quick Fix program	4.2.1 Identify low-cost, operational improvements to address truck bottlenecks and truck safety hotspots	Office of Design		Short-term
	4.2.2 Conduct operational analysis to address truck bottleneck and safety hotspots	Office of Safety, FDOT Districts, Office of Transportation Data and Analytics		Short-term
	4.2.3 Provide funds and implement improvements for identified hot spots	SIS		Medium-term



Recommendation	Action	Partner Offices	Partner Agencies/ Private Stakeholders	Schedule
4.3 Identify feasibility of truck-only lane projects from a statewide perspective	4.3.1 Incorporate truck only lane feasibility guidelines in the managed lanes program	Office of Roadway Design, Office of Maintenance, Traffic Engineering and Operations		Medium-term
	4.3.2 Conduct feasibility analysis of potential truck only lanes in high truck volume corridors	Office of Roadway Design, Office of Maintenance, Traffic Engineering and Operations		Short-term
	4.3.3 Work with FDLE to enforce dedicated routes		FDLE	Continuous
4.4 Enhance TPAS commensurate with trucking needs	4.4.1 Roll-out of TPAS through Phase 3 and beyond	Commercial Vehicle Operations; TSM&O		Medium-term
	4.4.2 Establish TPAS across the state where not rolled-out including private parties (write language from TPAS)	Commercial Vehicle Operations; TSM&O; FDOT Districts		Medium-term
	4.4.3 Expand TPAS to be consistent across state borders	Commercial Vehicle Operations; TSM&O	Southeast Regional state DOT's	Long-term
4.5 Clear legislative and funding pathways for automated systems	4.5.1 Partner with connected vehicle initiative to identify funding need for multi-modal automated freight systems	Commercial Vehicle Operations; TSM&O		Short-term

Objective 5: Remove institutional, policy and funding bottlenecks to improve operational efficiencies and reduce costs in supply chains.

Recommendation	Action	Partner Offices	Partner Agencies/ Private Stakeholders	Schedule
5.1 Establish Truck Parking Program similar to Rest Area Program and Park and Ride Program	5.1.1 Secure dedicated funding for truck parking and statutory authority	Office of Legislative Programs	Florida Trucking Association	Short-term
	5.1.2 Develop purpose, scope, responsibilities, and implementation procedures	FDOT Districts; Office of Policy Planning; Office of Work Program and Budget		Medium-term
5.2 Advocate for regulatory reform to increase freight funding and to reduce impediments to goods movement (e.g., weight limits)	5.2.1 Analyze regulatory impacts on the trucking industry	Office of Finance and Administration, Office of Policy Planning		Short-term
	5.2.2 Analyze regulatory restrictions across state borders in the region	Office of Finance and Administration, Office of Policy Planning	Southeastern Regional State DOT's	Short-term
	5.2.3 Create outline of regulatory costs to the freight industry	Office of Finance and Administration, Office of Policy Planning	Industry and Stakeholder Partners	Medium-term
	5.2.2 Leverage cross-state groups to create regulatory solutions	Office of Policy Planning	Southeastern Regional State DOT's	Medium-term
5.3 Enhance and institutionalize the freight network designation process and the freight project prioritization and selection process	5.3.1 Institute updated FMTP prioritization and call for projects	FDOT Districts		Short-term
	5.3.2 Analyze key differences in SIS, FMO and FHWA network designations	SIS	FHWA	Short-term
	5.3.3 Update FDOT, SIS, and other inter-modal capacity movement programs to include truck parking	SIS	FHWA	Medium-term



Recommendation	Action	Partner Offices	Partner Agencies/ Private Stakeholders	Schedule
5.4 Develop strategies for maximizing discretionary grant opportunities focusing on identifying projects and developing a federal grants portfolio	5.4.1 Maintain yearly call for projects	FDOT Districts		Continuous
	5.4.2 Identify discretionary funding opportunities attached to projects	FDOT Districts		Short-term
	5.4.3 Create federal discretionary grant and NOFO announcements portfolio and guidelines linking projects to funding	FDOT Districts, Office of Grants Administration; Office of Work Program and Budget		Short-term
5.5 Optimize statewide freight network to understand opportunities to reduce freight costs and increase productivity	5.5.1 Identify funding and policy roadblocks for truck bottlenecks and safety hotspots	Office of Legislative Programs, Office of Safety, Office of Work Program and Budget		Short-term
	5.5.2 Identify solutions to legislative funding for freight issues	Office of Legislative Programs		Short-term
	5.5.3 Establish freight performance targets in alignment with FHWA Transportation Performance Management Requirements	FDOT Districts	FHWA	Medium-term

Objective 6: Improve last mile connectivity for all freight modes.

Recommendation	Action	Partner Offices	Partner Agencies/ Private Stakeholders	Schedule
6.1 Identify and implement freight movement gap-closing improvements	6.1.1 Analyze major freight establishments/hubs and surrounding multi-modal transportation networks to identify first-mile/last mile gaps	SIS		Short-term
	6.1.2 Engage Industry partners to identify operational gaps and improvement needs from a private perspective		Modal and Industry Stakeholders	Short-term
	6.1.3 Identify funding opportunities for closing these gaps	Office of Work Program and Budget, SIS		Medium-term
6.2 Improve the convenience and efficiency of connecting between multiple freight modes	6.2.1 Analyze intermodal connections to determine factors which improve convenience and efficiency	Office of Transportation Data and Analytics	Florida Trucking Association	Short-term
	6.2.2 Institute design guidelines to ensure compatibility and convenience between modes	Office of Traffic Engineering and Operations; Office of Transportation Systems Management and Operations; Modal Offices	FHWA	Short-term
	6.2.3 Identify grant opportunities for multi-modal investments	Office of Grants Administration		Short-term



Recommendation	Action	Partner Offices	Partner Agencies/ Private Stakeholders	Schedule
6.3 Consider emerging last mile logistics trends in planning, project development and design processes	6.3.1 Analyze effects and trends in last mile urban and rural delivery	Office of Transportation Data and Analytics, TSM&O		Short-term
	6.3.2 Leverage working group to identify solutions to same-day home deliveries and urban delivery	Office of Traffic Engineering and Operations; Office of Transportation Systems Management and Operations	Universities, Modal and Industry Stakeholders	Short-term
	6.3.3 Pilot design guidelines study for at-home delivery	Research Center	Universities, Modal and Industry Stakeholders	Medium-term
6.4 Incorporate innovative curb management strategies into freight design considerations to decrease curbside congestion and ensure safety of all road users	6.4.1 Implement District studies analyzing Urban Curb Management needs in Florida	FDOT Districts, Research Center	Universities, Modal and Industry Stakeholders	Short-term
	6.4.2 Create design guidelines for best use-case freight curb-side management	Office of Roadway Operations, Office of Roadway Design	Modal and Industry Stakeholders	Short-term
	6.4.3 Establish curbside monitoring systems to relieve burden on local law enforcement to monitor curbsides	Office of Structures Design, Office of Traffic Systems	FDLE, DHSMV	Long-term
6.5 Improve off-system connections between local freight hot spots and the Strategic Intermodal System in coordination with local government partners	6.5.1 Analyze correlation between hot spots and SIS connections	Office of Transportation Data and Analytics, SIS		Short-term
	6.5.2 Develop countermeasures and solutions to bottlenecks at connections	Office of Roadway Designs, Office of Traffic Engineering and Operations		Short-term
	6.5.3 Create methodology and identify funding opportunities for off-system connections	Systems Implementation Office		Medium-term

Objective 7: Continue to forge partnerships between the public and private sectors to improve trade and logistics.

Recommendation	Action	Partner Offices	Partner Agencies/ Private Stakeholders	Schedule
7.1 Collaborate with public and private sector partners to address freight transportation and logistics needs and workforce development	7.1.2 Analyze state-wide industries to identify regions of greatest workforce needs	FDOT Districts	Modal and Industry Stakeholders	Short-term
	7.1.1 Leverage agency relations to establish unified workforce development message	FDOT Districts	Department of Economic Opportunity, Florida Chamber of Commerce, Modal and Industry Stakeholders	Short-term
	7.1.3 Leverage DEO partnerships to establish logistics career and hiring fairs or scholarships in areas of highest need	FDOT Districts	Department of Economic Opportunity, Florida Chamber of Commerce, Modal and Industry Stakeholders	Medium-term
7.2 Communicate and collaborate with other agencies and stakeholders to establish a state freight mobility task force to effectively and successfully implement the FMTP policy and program recommendations	7.2.1 Host a joint website as a portal for freight mobility and trade matters with Enterprise Florida, Workforce Florida, and the Florida Chamber of Commerce to facilitate Florida freight and manufacturing	Communications Office	Enterprise Florida, Workforce Florida, and the Florida Chamber of Commerce, Modal and Industry Stakeholders	Medium-term
	7.2.2 Continue convening FLFAC and PAC meetings beyond the publication of FMTP		Modal and Industry Stakeholders	Continuous
	7.3.3 Update FMTP Action Plan regularly to monitor progress			Continuous
	7.3.4 Ensure partnerships are maintained to succeed in action plan implementation	Intra-agency offices	Modal and Industry Stakeholders, Inter-agency offices	Continuous



Recommendation	Action	Partner Offices	Partner Agencies/ Private Stakeholders	Schedule
7.3 Explore public private partnership (P3) opportunities related to truck parking and truck stop electrification	7.3.1 Leverage working groups to identify P3 opportunities related to truck parking	Office of Maintenance, Office of Structures; Office of Planning	Modal and Industry Stakeholders; DEO	Short-term
	7.3.2 Analyze need of industries for electrification (i.e. refrigeration outside of produce shippers)	Office of Maintenance, Office of Structures; Office of Planning	Modal and Industry Stakeholders	Short-term
	7.3.3 Identify and fund highest priority electrification needs	Office of Maintenance, Office of Structures; Office of Planning		Short-term
7.4 Collaborate with adjacent states to facilitate seamless multistate freight corridors	7.4.1 Leverage inter-state relations to create regional working group on cross-border regulations	Office of Legislative Affairs	Southeast Regional State DOT's	Short-term
	7.4.2 Utilize cross-border working group to identify regulatory and policy solutions	Office of Legislative Affairs	Southeast Regional State DOT's	Medium-term
7.5 Ensure strategic representation of Florida at the national level to help shape Federal decisions on trade and logistics	7.5.1 Ensure FTP and FMTP goals align with federal goals	Office of Policy Planning	FHWA	Long-term
	7.5.2 Continue to support EOG message of 'Florida is Open for Business'	Office of Legislative Affairs	Florida Chamber of Commerce, Department of Economic Opportunity	Continuous
	7.5.3 Continue to participate in AASHTO, TRB and similar bodies to share Florida's success and influence national policy			Continuous

Objective 8: Capitalize on emerging freight trends to promote economic development.

Recommendation	Action	Partner Offices	Partner Agencies/ Private Stakeholders	Schedule
8.1 Support the strategic advantages of Florida's transportation hubs for trade and logistics	8.1.1 Analyze freight investments and projects that provide greatest return for Florida's business infrastructure	Modal Offices	Florida Chamber of Commerce, Department of Economic Opportunity	Short-term
	8.1.2 Create economic freight investment plan based economic scenario planning		Florida Chamber of Commerce, Department of Economic Opportunity	Short-term
	8.1.3 Invest in freight projects that provide greatest benefits to economic output	SIS, Office of Work Program and Budget		Medium-term
8.2 Support projects that improve the efficiency of goods movement throughout the State	8.2.1 Analyze potential impacts of automated freight vehicles and delivery technologies on goods movement and infrastructure	Office of Traffic Engineering and Operations	Modal and Industry Stakeholders	Short-term
	8.2.2 Partner with TSM&O on expanding truck parking availability information, signage and data collection	Office of Traffic Engineering and Operations		Medium-term
	8.2.3 Partner with industry stakeholders to analyze problem areas and explore new technologies or systems to improve efficiency	TSM&O	Modal and Industry Stakeholders	Medium-term



Recommendation	Action	Partner Offices	Partner Agencies/ Private Stakeholders	Schedule
8.3 Consider freight needs in the development of multimodal and multi-use corridors	8.3.1 Identify multi-use and multi-modal corridors in most need of freight investment	FDOT Districts		Short-term
	8.3.2 Create freight design guidelines for multi-modal and multi-use corridors	Office of Design, Office of Traffic Engineering and Operations		Short-term
	8.3.3 Leverage opportunities like M-CORES and ROUTES			Short-term
8.4 Prepare the freight system for smart cities and emerging urban freight delivery patterns	8.4.1 Expand off-hours study to include major metropolitan areas	FDOT Districts	Universities	Medium-term
	8.4.2 Analyze effects of urban one-day delivery across Florida, and possible effects of off-hours delivery in conjunction with above study	Office of Transportation Data and Analytics, FDOT Districts	Modal and Industry Stakeholders	Short-term
	8.4.3 Analyze likely effects of drones and other automated delivery methods on Florida	Office of Roadway Designs, Office of Traffic Engineering and Operations	Modal and Industry Stakeholders	Short-term
	8.4.4 Create unified smart city freight design guidelines/plan	Office of Design, Office of Traffic Engineering and Operations		Long-term

Recommendation	Action	Partner Offices	Partner Agencies/ Private Stakeholders	Schedule
8.5 Leverage global economic trends to support the growth of jobs in trade, transportation, logistics, export-oriented manufacturing, and related value-added services	8.5.1 Partner with Florida Chamber to create joint action plan supporting pillar of Infrastructure and Growth	Office of Policy Planning	Florida Chamber of Commerce, Department of Economic Opportunity	Short-term
	8.5.2 Institute freight economic task force promoting the Chambers pillars	SIS, Office of Policy Planning	Florida Chamber of Commerce, Department of Economic Opportunity	Short-term
	8.5.3 Partner with Chamber of Commerce to ensure logistics is included on future economic plans and updates	Office of Policy Planning	Florida Chamber of Commerce, Department of Economic Opportunity	Medium-term

Objective 9: Increase freight-related regional and local transportation planning and land-use coordination.

Recommendation	Action	Partner Offices	Partner Agencies/ Private Stakeholders	Schedule
9.1 Provide transportation and land use planning guidance to local and regional agencies for economic development and freight efficiencies that support community goals	9.1.1 Identify land use conflicts around seaports, airports, spaceports, intermodal logistics centers, and other freight hubs	FDOT Districts;	Modal and Industry Stakeholders, MPOAC	Short-term
	9.1.2 Encourage adoption of ordinances compatible with freight needs	FDOT Districts	Modal and Industry Stakeholders, MPOAC	Medium-term
	9.1.3 Support Districts in identifying and addressing last-mile/urban truck parking needs	FDOT Districts	Modal and Industry Stakeholders, MPOAC	Short-term
9.2 Coordinate freight-related plans and programs of the private sector and local agencies with FDOT’s plans for integrated and informed decision-making	9.2.1 Identify working groups and coordinate between statewide, regional, and local freight planning for freight guidance	FDOT Districts, Internal Offices	Modal and Industry Stakeholders, MPOAC, Regional Planning Councils	Continuous
	9.2.2 Establish communication lines between groups (monthly or quarterly meetings and e-mails)	FDOT Districts, Internal Offices	Modal and Industry Stakeholders, MPOAC, Regional Planning Councils	Medium-term
	9.3.3 Develop a State Multimodal Freight Policy that is consistent with National Multimodal Freight Policy	FDOT Districts, Internal Offices	USDOT, MPO’s	Medium-term
	9.3.4 Work with SIO to designate freight intensive areas and freight access facilities for SIS funding eligibility	SIS	MPO	Short-term



Recommendation	Action	Partner Offices	Partner Agencies/ Private Stakeholders	Schedule
9.3 Utilize truck empty backhaul patterns to identify target areas for attracting and expanding manufacturing, distribution, and other industries that generate and export goods and products out of Florida	9.3.1 Analyze Florida industries to determine level of contribution to empty backhaul	FDOT Districts, Office of Transportation Data and Analytics	Modal and Industry Stakeholders	Short-term
	9.3.2 Analyze source regions of empty backhauls to understand regional effects	FDOT Districts	Modal and Industry Stakeholders	Short-term
	9.3.3 Leverage industry partners and stakeholders to determine solutions to empty back-haul	Office of Transportation Data and Analytics	Modal and Industry Stakeholders	Medium-term
9.4 Understand unique needs of rural freight transportation and develop/enhance process to designate CRFC	9.4.1 Complete Rural Freight restrictions mapping study	FDOT Districts		Short-term
	9.4.2 Update CRFC designations yearly	FDOT Districts		Continuous
9.5 Understand unique needs of urban freight transportation and develop/enhance process to designate CUFC	9.5.1 Coordinate critical urban freight corridors with MPO partners	Office of Policy Planning	MPOs	Short-term
	9.5.2 Analyze urban freight mobility trends in districts	Office of Transportation Data and Analytics, Forecasting and Trends		Short-term
	9.5.3 Pilot alternative delivery times and formats in urban areas	Office of Traffic Engineering and Operations		Long-term
	9.5.4 Update CUFC designations yearly	FDOT Districts		Continuous



Objective 10: Promote and support the shift to alternatively fueled freight vehicles.

Recommendation	Action	Partner Offices	Partner Agencies/ Private Stakeholders	Schedule
10.1 Support the adoption and transformation of CNG/LNG and electric power use for trucking	10.1.1 Explore alternative fuel corridors options with suppliers and first-adopters	FDOT Districts	Modal and Industry Stakeholders	Short-term
	10.1.2 Coordinate investment and implementation initiatives for user conversions to CNG/LNG with stakeholders	Office of Work Program and Budget, Office of Policy Planning	Modal and Industry Stakeholders, FDAC	Medium-term
10.2 Participate in the FHWA Alternative Fuel Corridor Program	10.2.1 Identify corridors eligible for FHWA Alternative Fuel Program	FDOT Districts	FHWA	Short-term
	10.2.2 Develop a statewide application guide for FHWA Alternative Fuel Program	Office of Grants Administration	FHWA	Short-term
10.3 Support development of natural gas and other alternative fuel infrastructure at seaports and intermodal logistics centers, and along major trade corridors	10.3.1 Identify and address barriers to alternative energy source station development	Office of Structures Design; Office of Construction	Florida Department of Agriculture and Consumer Services; Office of Energy	Short-term
	10.3.2 Analyze and identify CNG/LNG ready ports and intermodal centers	Modal Offices, FDOT Districts	Modal and Industry Stakeholders	Short-term
	10.3.3 Identify and apply LNG/CNG transition grant funding to high priority logistics centers	Office of Grants Administration	Florida Department of Agriculture and Consumer Services; Office of Energy	Medium-term
10.4 Collaborate with the Florida Department of Agriculture and Consumer Services Office of Energy (FDACS OOE) on developing Electric Vehicle (EV) Roadmap for freight corridors	10.4.1 Identify areas of state with infrastructure prepared for EV	FDOT Districts		Short-term
	10.4.2 Identify areas of state legally prepared for EV	FDOT Districts	Florida Department of Agriculture and Consumer Services; Office of Energy	Short-term
	10.4.3 Develop an inter-agency infrastructure plan for automated and EV freight vehicles	Office of Traffic Engineering and Operations	DHSMV, FLE, Department of Economic Opportunity	Long-term



Recommendation	Action	Partner Offices	Partner Agencies/ Private Stakeholders	Schedule
10.5 Evaluate the impacts of alternative fueled vehicles on freight funding programs and develop innovative funding strategies	10.5.1 Analyze the effects of alternative fuel use on FDOT funding streams	Office of Transportation Data and Analytics, Office of Forecasting and Trends		Short-term
	10.5.2 Engage leadership in developing long-term funding plan for alternate fuel transitions	Office of Work Program and Budget, Office of Policy Planning	Florida Department of Agriculture; Office of Energy	Long-term
	10.5.3 Work with legislative teams to establish a freight funding source for FDOT to offset income loss due to alternative fuels	Office of Legislative Programs, Office of Work Program and Budget		Medium-term



Appendix A: FDOT Offices

Office of Administration
Office of Aviation and Spaceports
Office of Communications
Office of Construction
Office of Design
Office of Roadway Design
Office of Structures Design
Office of Emergency Management
Office of Environmental Management
Office of Finance and Administration
Office of Work Program and Budget
Office of Florida's Turnpike Enterprise
Office of Legislative Programs
Office of Maintenance
Office of Motor Carrier Size and Weight
Office of Performance Management
Office of Roadway Operations
Office of Structures Operations
Office of Materials
Office of Pavements
Office of Structures
Office of Planning
Office of Forecasting & Trends
Office of Policy Planning
Office of Systems Implementation
Office of Program Management
Office of Rail and Motor Carrier Operations
Office of Research Center
Office of Right of Way

Office of Safety
Office of Seaport and Waterways
Office of Strategic Development
Office of Traffic Engineering and Operations
Office of Traffic Incident Management
Office of Traffic Services
Office of Traffic Systems
Office of Transportation Systems Management and Operations
Office of Transit
Office of Grants Administration
Office of Transit Operations/Safety
Office of Transit Planning
Office of Transportation Technology
Office of Information Security Management
Office of Information Technology
Office of Process and Quality Improvement
Office of Survey and Mapping
Office of Transportation Data and Analytics



Appendix B: Other Agencies

Florida Board of Governors

Florida Department of Agriculture and Consumer Services (FDAC)

Florida Department of Business and Professional Regulation (DBPR)

Florida Department of Citrus (FDOC)

Florida Department of Environmental Protection (DEP)

Florida Department of Military Affairs (DMA) (Florida National Guard)

Florida Department of State (Secretary of State of Florida)

Florida Department of Transportation (FDOT)

Executive Office of the Governor (EOG)

Florida Division of Emergency Management (FDEM)

Florida Department of Highway Safety and Motor Vehicles (DHSMV)

Florida Department of Law Enforcement (FDLE)

Florida Department of Revenue (DOR)

Florida Department of Veterans Affairs (DVA)

Enterprise Florida (EFI)

Florida Agency for Workforce Innovation (AWI)

Florida Department of Community Affairs (DCA)

Florida Space Authority (FSA)

Visit Florida (FL USA)

Volunteer Florida (VOL)



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